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A METHOD OF ESTIMATING LOG WEIGHTS

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SYMBOLS

d_1	Actual small end diameter inside bark - inches
d_2	Actual large end diameter outside bark - inches
d_1'	Small end scaling diameter inside bark - inches
DI	Density index - pounds per cubic foot
L	Actual length - feet
L'	Scaling length - feet ($L = L' + \text{trim allowance}$)
n	Number of truckloads in the sample for the density index
V_B	Scribner log volume - board feet
V_C	Cubic log volume inside bark - cubic feet
$\hat{V}_C$	Estimated cubic volume outside bark - cubic feet
W	Actual log weight - pounds
$\hat{W}$	Estimated log weight - pounds

ABSTRACT

This paper presents a practical method of estimating the weights of logs before they are yarded. Knowledge of log weights is required to achieve optimum loading of modern yarding equipment. Truckloads of logs are weighed and measured to obtain a local density index (pounds per cubic foot) for a species of logs. The density index is then used to estimate the weights of remaining logs before they are yarded. Estimates are made directly from graphs, tables, or a slide rule.

KEYWORDS: Logs, weights, logging.

1.0 INTRODUCTION

The forest industry has long recognized the need for a practical method of estimating the weight of logs before they are yarded. This need has accelerated as aerial logging systems having critical weight limitations find wider application. Analytical techniques which provide payload capabilities for these yarding systems are now available. Log weight estimates are needed for optimum utilization without overloads.

This paper presents a method of estimating log weights by use of a factor called a density index. Before log weights are estimated, the local density index for a species of logs is found by measuring and weighing truckloads of these logs. The density index, found in this manner, is used to estimate the remaining logs of the same species before they are yarded. Graphs and tables for estimating log weights are given as well as the mathematics for a slide rule.

This practical method of estimating log weights should be of interest to all concerned with the operation of weight-sensitive timber harvesting equipment.

2.0 BACKGROUND

A cooperative study^{1/} with the University of Washington's College of Forestry was performed to obtain some insight into the variations in log density. This study analyzed logs of several species from locations in Alaska and Washington. Analysis showed that the ratio of weight to cubic log volume has a much smaller variation than the ratio of weight to board-foot volume, and the study recommended that further efforts be directed toward a method of weight estimation based on cubic volume. Appendix I discusses the board-foot to cubic-foot ratio as a function of log size.

3.0 ANALYTICAL APPROACH

In order to devise a practical method of estimating log weights, several assumptions were made. These are listed below:

1. Reasonably accurate cubic volumes of logs can be obtained from the scaling length, the large end diameter outside bark, and an assumed taper.
2. A sample of log cubic volumes and weights can provide a measure of the green density (density index) which can then be used to estimate log weights.
3. The green density of logs is reasonably constant for a given species and location.
4. Gradual changes in the green density due to location and seasonal variations can be determined by a moving average of the density index.

^{1/} K. J. Turnbull, L. V. Pienaar, and I. E. Bella. Report on a study of log weight estimation. (Unpublished paper on file at Pac. Northwest Forest & Range Exp. Stn., Seattle, Wash.)

5. Volumetric errors, due to differences between actual scaling lengths and between actual and assumed taper, can be considered compensating in that the error is contained in both the sample of logs used to determine the average density value and in logs for which an estimate of weight is desired.

These assumptions ignore minor variations which are known to occur so as to allow formulation of a practical method of estimating log weights. Diameters are measured outside the bark to account for volume of the bark and to include variations in bark thickness.

There are variations in taper from tree to tree and from log to log in the same tree which can cause errors in cubic volume estimates. A method of estimating cubic volumes from the length and the sum of the end diameters has been suggested. While this method may yield more accurate cubic volume estimates, it cannot be directly applied to the critical problem of determining the length to buck a log for a given weight. The buckner generally knows the large end diameter since logs are cut from the butt end to maximize value. With a system based on the sum of the diameters, the buckner is left with two unknowns at this point: the length and the small end diameter. This method, based on large end diameter with an assumed taper, provides the buckner with a direct means of determining the length to be cut for a given log weight.

Cubic volume approximations and variations inherent in green density cause differences between actual and estimated log weights. For a yarding system that has little or no tolerance for overloads, estimates of log weights must be below specified capacity to reduce the probability of overloads. For example, assume the difference between estimated and actual weights for individual logs has a standard deviation of 12 percent of the actual weight. A reduction in capacity of 10 percent for estimating the weight of single log loads would result in the probability that about one load in five is over capacity. A reduction of 20 percent would result in less than one load in 20 being over capacity.

The mathematics of this method follow from the assumptions listed. From a sample of logs, a density index is found by taking the ratio of log weight to cubic volume. If truckloads of logs are used, the procedure given in Section 4.1 consists of finding a density index for each load,

$$DI = \frac{\Sigma W}{\Sigma V_C},$$

(see the list of symbols, inside front cover, for the meaning of these and other symbols) in the sample and then obtaining an average of the density indexes,

$$DI = \frac{DI_1 + DI_2 + DI_3 + \dots + DI_n}{n}.$$

The cubic volumes for the sampled logs can be obtained from tables 1 and 2 (Appendix II). These cubic volumes are based on the formula,

$$V_C = \frac{\pi}{576} (d_2 - \frac{L}{16})^2 L,$$

which assumes a taper of 1 inch per 8 feet of length. In the calculation of the values listed in the table, a trim allowance of 1 inch per 4 feet of length was added to the scaling lengths.

Applying the density index in order to estimate log weights can be considered the reverse of obtaining the density index. Namely, log measurements are used to obtain the cubic volume which is then multiplied by the density index to estimate the log weight. That is,

$$\hat{W} = (DI) \hat{V}_C .$$

In practice, the user need not be concerned with cubic volumes. Tables, graphs, and the mathematics of a slide rule have been provided so that a weight estimate can be obtained directly from the density index, the large end diameter, and the scaling length. Both the curves and the tables for log weights in Appendix II are based on the same equation as used previously for the cubic volumes.

An alternate method of estimating log weights can be provided by a slide rule. This requires that the previous expression be transformed into a form similar to

$$\log \left(\frac{\hat{W} \cdot 576}{\pi} \right) = \log (DI) + \log \left(d_2 - \frac{L}{16} \right)^2 + \log (L) .$$

However, the above equation is not satisfactory for a slide rule because the variable (L) appears in the logarithm of two terms. The $(d_2 - L/16)$ term can be approximated by $(d_2 - 2)$ for lengths up to 40 feet. This corresponds to a length of 32 feet. If logs weighing 10,000 pounds with a density index of 50 are considered, this approximation results in estimates that are about 4 percent low for a length of 10 feet and about 4 percent high for a length of 40 feet. These percentages will be larger for lighter logs and smaller for heavier logs. For lengths beyond 40 feet, the error introduced by the approximation becomes large. To avoid excessive errors, lengths for the slide rule beyond 40 feet can be obtained from the graph for a density index of 50 and a log weight of 10,000 pounds. Figure 1 shows a slide rule for estimating log weights.

4.0 SUGGESTED PROCEDURE

The following is a suggested procedure to obtain log weight estimates. The procedure consists of determining a density index for each species and location by sampling logs. Once the density index has been determined, the weight of logs can be estimated.

4.1 Sampling for the Density Index

The density index is found from an initial sample of log weights and dimensions. Truckloads of logs are convenient units to obtain these data. The

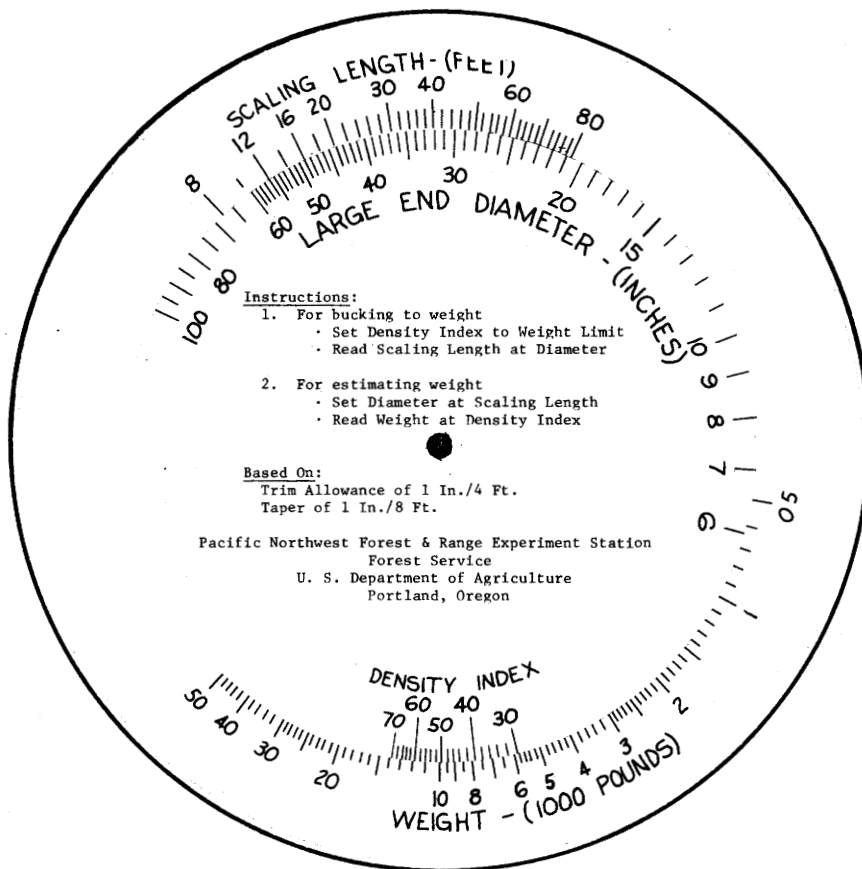


Figure 1.—Slide rule for estimating log weights.

density index can be obtained from other sources such as individual log weights and measurements or knowledge from previous nearby logging operations. Four or five truckloads or their equivalent in individual logs should generally be sufficient for a reasonably accurate density index.

To compute a density index for a truckload of logs, the net log weight and cubic volumes must be determined. Scaled cubic volumes are obtained from the large end diameter outside bark and the scaling length by referring to tables 1 and 2 of Appendix II. A worksheet is given in figure 26 of appendix II to facilitate the determination of density index of a truckload of logs. An average of the density indexes of several truckloads provides the density index for estimating log weights.

A moving average can incorporate density changes due to time, dependent influences such as seasonal variations, and gradual changes in location. A moving average is constructed by periodically obtaining a new sample for incorporation in the average density index and eliminating the oldest sample. An example of a four-load moving average of density index is shown in figure 2. A worksheet (fig. 27) is provided in Appendix II.

4.2 Estimating Log Weights

Once a density index has been established for a particular location and species, the weights of logs can be estimated from the graphs or tables in

Figure 2.—Example of moving average of density index.

Four-load moving average

Logging site: *Paddle Creek* Species: *Douglas-fir*

Sample number	Date of sample	Sample density index	Moving total of density index ^{1/}	Current moving average ^{2/}
1	Jan. 2	45.2		
2	Jan. 2	51.2		
3	Jan. 2	40.1		
4	Jan. 3	49.7	186.2	46.6
5	Mar. 2	42.0	183.0	45.8
6	May 3	43.5	175.3	43.8
7	July 1	41.7	176.9	44.2
8	Sept. 2	52.8	180.0	45.0
9	Nov. 2	44.5	182.5	45.6

^{1/} Add newest sample and delete oldest sample which was included in previous total.

^{2/} Divide moving total by number of samples in moving average.

Appendix II, or from a slide rule. Each of the graphs and tables in Appendix II is for a specific density index. A range of density indexes from 30 to 70 pounds per cubic foot is included. The nearest density index established by sampling is used for estimating log weights.

Two different problems are encountered when attempting to determine capacity loads for yarding equipment. In large diameter timber, single logs may make up the majority of loads and each log must be sized to approach the weight limit of the equipment. In smaller diameter timber, an estimate of the weight of each log is necessary to combine a number of logs into a capacity load. The graphs are arranged for the solution of either problem. When the size of a single log must be found to approach a capacity limit, the graph nearest the required density index is entered along the bottom with the large end diameter. A line is followed up to the appropriate log weight and then over to the log scaling length. When estimates of log weights are required, the graph is entered along the bottom with the large end diameter, and the line is followed upward until the proper length is reached, and the weight is read. Large end diameters should be measured outside the bark and lengths should be those defined by local custom or contract. The tables are used in a similar manner. For a single log load, the large end diameter is located in the table. The indicated

row is followed until the weight at or just below the limit is found. Bucking length is then obtained from the top of the table. For a multilog load, the weight estimate of each log is found directly from the large end diameter and scaling length.

Butt logs must be treated somewhat differently from other logs because of the concave exterior surface due to the root swell. Probably the best way to handle these logs is to make an estimate of the large end diameter outside the bark as though the taper of the log continued through to the end, disregarding the swell, as shown in figure 3.

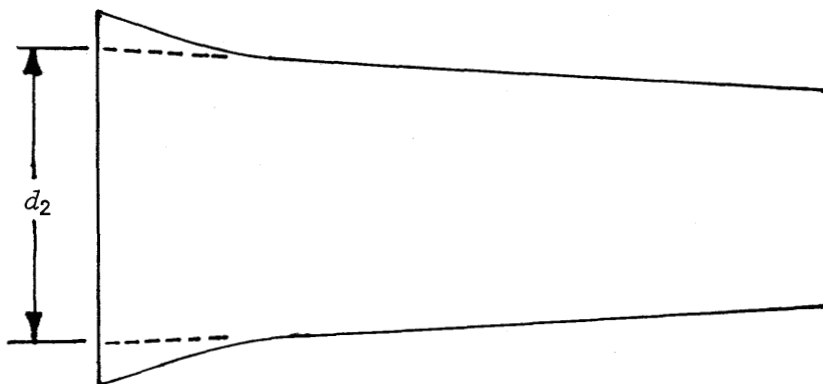


Figure 3.—Estimating large end diameter (d_2) on butt log.

APPENDIX I

THE BOARD-FOOT TO CUBIC-FOOT RATIO

Log weight estimates are commonly obtained by multiplying the board-foot scale of a log by a constant. The particular constant usually depends on the species of the log and the experience of the estimator. Use of the board-foot scale as a basis for weight estimates is due primarily to the logger's familiarity with that system of measurement. Unfortunately, the board-foot scale is only an estimate of the lumber yield of a log rather than a measure of its wood content.

Figure 4 shows the relationships between the board-foot to cubic-foot ratio and the cubic volume of logs for various diameters and lengths. The ratio can be considered a measure of the amount of total wood content which is included in the board-foot scale (if all the wood was included, the ratio would be a constant 12). The plot is of interest to the problem of log weight estimation because it clearly shows the wide variation of the board-foot to cubic-foot ratio with log size.

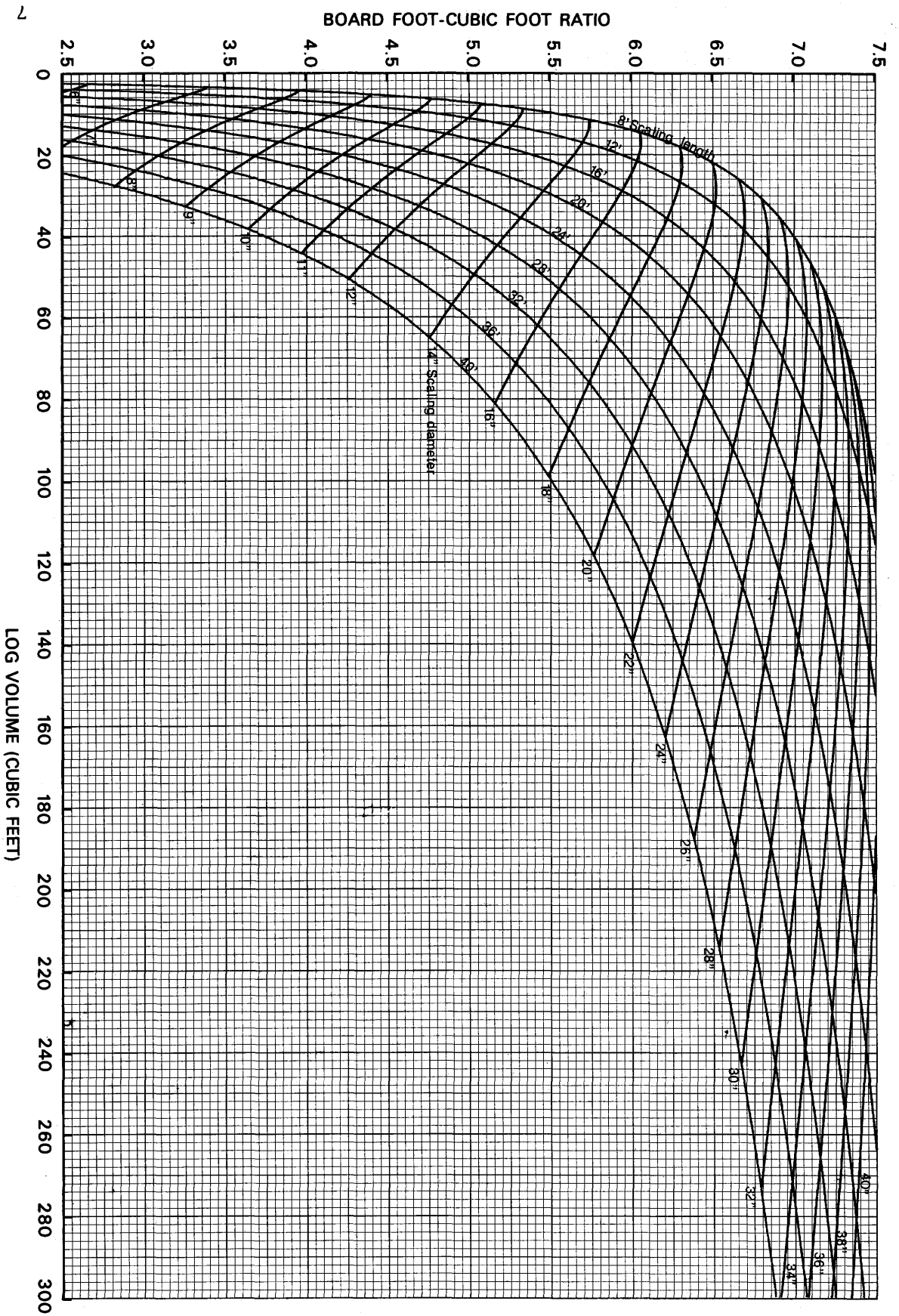


Figure 4.—Board-foot to cubic-foot ratio versus cubic volume. (Scribner log equation for west side scaling practice; taper of 1 inch in 8 feet; cubic volumes include 8 inches trim allowance.)

The plot is based on the scribner formula rule,^{2/}

$$V_B = (0.79 d_1'^2 - 2d_1' - 4) \frac{L'}{16},$$

which approximates the Scribner log rule to provide a continuous curve. Similar relationships can be obtained for other log rules and scaling practices. Cubic volumes were calculated by the Rapraeger rule,^{3/}

$$V_C = \frac{\pi}{576} (d_1 + \frac{L}{16})^2 L,$$

which assumes a taper of 1 inch in 8 feet. In calculating these cubic volumes, a trim allowance of 8 inches has been added to the scaling lengths,

$$L = L' + 8/12,$$

and one-half inch has been added to the scaling diameters,

$$d_1 = d_1' + 1/2.$$

This is to correspond with the west-side scaling practice of dropping all fractions of an inch from the scaling diameters and adding a trim allowance to the scaling lengths.

APPENDIX II

TABLES, GRAPHS, AND WORKSHEETS

The following tables, graphs, and worksheets are provided for determining the density index and for estimating log weights. Tables 1 and 2 are cubic volume tables for determining the density index. For convenience, a worksheet (fig. 26) is provided for computing a density index from a truckload of logs. Figure 27 is a worksheet for a moving average of the density index. Log weight estimates can be made from the graphs (figs. 5-25) or tables (tables 3-44) after the density index has been determined.

^{2/} Donald Bruce and Francis Schumacher. *Forest mensuration*. New York, McGraw-Hill Book Co., Inc., 483 p., 1960.

^{3/} J. R. Dilworth. *Log scaling and timber cruising*. Corvallis, Oregon State University Book Stores, Inc., 448 p., 1965.

Table 1.--Cubic log volumes for scaling lengths of 4 to 32 feet

LARGE END DIAMETER (INCHES)	LOG VOLUME (CUBIC FEET)										ASSUMED TAPER OF 1 INCH PER 8 FEET; TYP. ALLOWANCE OF 1 INCH PER 4 FEET									
	SCALING LENGTH (FEET)																			
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32				
6	7	1.1	1.3	1.6	1.8	2.0	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.8				
7	1.0	1.5	1.9	2.3	2.6	3.0	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.8	3.8				
8	1.5	1.9	2.5	3.0	3.5	3.9	4.3	4.5	4.7	5.0	5.3	5.6	5.8	6.1	6.2	6.3				
9	1.7	2.2	2.8	3.5	4.1	4.7	5.1	5.3	5.6	6.0	6.4	6.8	7.1	7.5	7.8	8.1				
10	2.1	2.7	3.4	4.0	4.8	5.5	6.2	6.5	7.0	7.8	8.5	9.1	9.6	10.1	10.5	10.9				
11	2.6	3.3	4.0	4.9	5.7	6.5	7.2	7.6	8.2	9.0	9.7	10.5	11.3	12.0	12.6	13.2				
12	3.1	3.9	4.7	5.6	6.5	7.4	8.2	8.7	9.3	10.1	10.9	11.8	12.8	13.8	14.6	15.3				
13	3.6	4.5	5.4	6.3	7.3	8.2	9.1	9.6	10.2	11.0	11.8	12.8	13.8	14.8	15.6	16.3				
14	4.2	5.2	6.2	7.1	8.1	9.1	10.0	10.5	11.1	12.0	12.8	13.8	14.8	15.8	16.6	17.3				
15	4.8	5.8	6.8	7.8	8.8	9.8	10.7	11.2	11.8	12.7	13.6	14.6	15.6	16.6	17.4	18.1				
16	5.5	6.5	7.5	8.5	9.5	10.5	11.4	11.9	12.5	13.4	14.3	15.3	16.3	17.3	18.1	18.8				
17	6.2	7.2	8.2	9.2	10.2	11.2	12.1	12.6	13.2	14.1	15.0	16.0	17.0	18.0	18.8	19.5				
18	7.0	8.0	9.0	10.0	11.0	12.0	12.9	13.4	14.0	14.9	15.8	16.8	17.8	18.8	19.6	20.3				
19	7.8	8.8	9.8	10.8	11.8	12.8	13.7	14.2	14.8	15.7	16.6	17.6	18.6	19.6	20.4	21.1				
20	8.7	9.7	10.7	11.7	12.7	13.7	14.6	15.1	15.7	16.6	17.5	18.5	19.5	20.5	21.3	22.0				
21	9.6	10.6	11.6	12.6	13.6	14.6	15.5	16.0	16.6	17.5	18.4	19.4	20.4	21.4	22.2	22.9				
22	10.5	11.5	12.5	13.5	14.5	15.5	16.4	16.9	17.5	18.4	19.3	20.3	21.3	22.3	23.1	23.8				
23	11.5	12.5	13.5	14.5	15.5	16.5	17.4	17.9	18.5	19.4	20.3	21.3	22.3	23.3	24.1	24.8				
24	12.6	13.6	14.6	15.6	16.6	17.6	18.5	19.0	19.6	20.5	21.4	22.4	23.4	24.4	25.2	25.9				
25	13.6	14.6	15.6	16.6	17.6	18.6	19.5	20.0	20.6	21.5	22.4	23.4	24.4	25.4	26.2	26.9				
26	14.8	15.8	16.8	17.8	18.8	19.8	20.7	21.2	21.8	22.7	23.6	24.6	25.6	26.6	27.4	28.1				
27	15.9	16.9	17.9	18.9	19.9	20.9	21.8	22.3	22.9	23.8	24.7	25.7	26.7	27.7	28.5	29.2				
28	17.1	18.1	19.1	20.1	21.1	22.1	23.0	23.5	24.1	25.0	25.9	26.9	27.9	28.9	29.7	30.4				
29	18.4	19.4	20.4	21.4	22.4	23.4	24.3	24.8	25.4	26.3	27.2	28.2	29.2	30.2	31.0	31.7				
30	19.7	20.7	21.7	22.7	23.7	24.7	25.6	26.1	26.7	27.6	28.5	29.5	30.5	31.5	32.3	33.0				
31	21.1	22.1	23.1	24.1	25.1	26.1	27.0	27.5	28.1	29.0	30.0	31.0	32.0	33.0	33.8	34.5				
32	22.4	23.4	24.4	25.4	26.4	27.4	28.3	28.8	29.4	30.3	31.3	32.3	33.3	34.3	35.1	35.8				
33	23.9	24.9	25.9	26.9	27.9	28.9	29.8	30.3	30.9	31.8	32.8	33.8	34.8	35.8	36.6	37.3				
34	25.4	26.4	27.4	28.4	29.4	30.4	31.3	31.8	32.4	33.3	34.3	35.3	36.3	37.3	38.1	38.8				
35	26.9	27.9	28.9	29.9	30.9	31.9	32.8	33.3	33.9	34.8	35.8	36.8	37.8	38.8	39.6	40.3				
36	28.5	29.5	30.5	31.5	32.5	33.5	34.4	34.9	35.5	36.4	37.4	38.4	39.4	40.4	41.2	41.9				
37	30.1	31.1	32.1	33.1	34.1	35.1	36.0	36.5	37.1	38.0	39.0	40.0	41.0	42.0	42.8	43.5				
38	31.7	32.7	33.7	34.7	35.7	36.7	37.6	38.1	38.7	39.6	40.6	41.6	42.6	43.6	44.4	45.1				
39	33.4	34.4	35.4	36.4	37.4	38.4	39.3	39.8	40.4	41.3	42.3	43.3	44.3	45.3	46.1	46.8				
40	35.2	36.2	37.2	38.2	39.2	40.2	41.1	41.6	42.2	43.1	44.1	45.1	46.1	47.1	47.9	48.6				
41	37.0	38.0	39.0	40.0	41.0	42.0	42.9	43.4	44.0	44.9	45.9	46.9	47.9	48.9	49.7	50.4				
42	38.8	39.8	40.8	41.8	42.8	43.8	44.7	45.2	45.8	46.7	47.7	48.7	49.7	50.7	51.5	52.2				
43	40.7	41.7	42.7	43.7	44.7	45.7	46.6	47.1	47.7	48.6	49.6	50.6	51.6	52.6	53.4	54.1				
44	42.6	43.6	44.6	45.6	46.6	47.6	48.5	49.0	49.6	50.5	51.5	52.5	53.5	54.5	55.3	56.0				
45	44.6	45.6	46.6	47.6	48.6	49.6	50.5	51.0	51.6	52.5	53.5	54.5	55.5	56.5	57.3	58.0				
46	46.6	47.6	48.6	49.6	50.6	51.6	52.5	53.0	53.6	54.5	55.5	56.5	57.5	58.5	59.3	60.0				
47	48.7	49.7	50.7	51.7	52.7	53.7	54.6	55.1	55.7	56.6	57.6	58.6	59.6	60.6	61.4	62.1				
48	50.8	51.8	52.8	53.8	54.8	55.8	56.7	57.2	57.8	58.7	59.7	60.7	61.7	62.7	63.5	64.2				
49	52.9	53.9	54.9	55.9	56.9	57.9	58.8	59.3	59.9	60.8	61.8	62.8	63.8	64.8	65.6	66.3				
50	55.1	56.1	57.1	58.1	59.1	60.1	61.0	61.5	62.1	63.0	64.0	65.0	66.0	67.0	67.8	68.5				
51	57.3	58.3	59.3	60.3	61.3	62.3	63.2	63.7	64.3	65.2	66.2	67.2	68.2	69.2	69.9	70.6				
52	59.6	60.6	61.6	62.6	63.6	64.6	65.5	66.0	66.6	67.5	68.5	69.5	70.5	71.5	72.3	73.0				
53	62.0	63.0	64.0	65.0	66.0	67.0	67.9	68.4	69.0	70.0	71.0	72.0	73.0	74.0	74.8	75.5				
54	64.3	65.3	66.3	67.3	68.3	69.3	70.2	70.7	71.3	72.3	73.3	74.3	75.3	76.3	77.0	77.7				
55	66.7	67.7	68.7	69.7	70.7	71.7	72.6	73.1	73.7	74.7	75.7	76.7	77.7	78.7	79.4	80.1				
56	69.2	70.2	71.2	72.2	73.2	74.2	75.1	75.6	76.2	77.2	78.2	79.2	80.2	81.2	81.9	82.6				
57	71.7	72.7	73.7	74.7	75.7	76.7	77.6	78.1	78.7	79.7	80.7	81.7	82.7	83.7	84.4	85.1				
58	74.3	75.3	76.3	77.3	78.3	79.3	80.2	80.7	81.3	82.3	83.3	84.3	85.3	86.3	87.0	87.7				
59	76.9	77.9	78.9	79.9	80.9	81.9	82.8	83.3	83.9	84.9	85.9	86.9	87.9	88.9	89.6	90.3				
60	79.5	80.5	81.5	82.5	83.5	84.5	85.4	85.9	86.5	87.5	88.5	89.5	90.5	91.5	92.2	92.9				

Table 2.--Cubic log volumes for scaling lengths of 34 to 60 feet

LARGE END DIAMETER (INCHES)	LOG VOLUME (CUBIC FEET)										ASSUMED TAPER OF 1 INCH PER 8 FEET, TPIII ALLOWANCE OF 1 INCH PER 4 FEET									
	SCALING LENGTH (FEET)																			
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60				
6	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.3	2.2	2.1	2.0	1.8	1.7	1.6				
7	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.5	3.4				
8	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.8				
9	8.8	8.8	8.8	9.1	9.1	9.1	9.4	9.4	9.4	9.4	9.4	9.3	9.2	9.2	9.1	8.9				
10	11.6	11.6	11.9	12.4	12.5	12.5	12.6	12.7	12.8	12.8	12.9	12.9	12.9	12.9	12.8	12.7				
11	14.8	15.0	15.2	15.6	15.9	16.2	16.3	16.4	16.7	16.8	17.0	17.1	17.2	17.2	17.2	17.2				
12	18.3	18.6	18.9	19.4	19.8	20.2	20.5	20.7	21.0	21.3	21.6	21.8	22.0	22.1	22.2	22.3				
13	22.2	22.6	23.0	23.7	24.0	24.3	24.6	25.0	25.4	25.8	26.4	26.8	27.1	27.4	27.9	28.1				
14	26.5	27.0	27.5	28.3	29.2	30.0	30.7	31.4	32.0	32.6	33.5	33.9	34.3	34.7	35.6	36.6				
15	31.2	31.8	32.3	33.5	34.5	35.5	36.0	36.4	37.3	38.1	38.8	39.5	40.1	40.7	41.2	41.7				
16	36.2	36.9	37.5	39.0	40.2	41.5	42.1	42.6	43.7	44.7	45.7	46.9	47.4	48.2	48.9	49.5				
17	41.6	42.5	43.3	44.9	46.5	48.0	48.7	49.3	50.7	51.9	53.1	54.2	55.2	56.2	57.1	58.0				
18	47.4	48.4	49.4	51.2	53.1	54.9	55.7	56.5	58.1	59.6	61.1	62.4	63.7	64.9	66.1	67.1				
19	53.6	54.8	55.9	58.1	60.3	62.3	63.3	64.2	66.1	67.9	69.6	71.2	72.7	74.2	75.6	76.9				
20	60.2	61.5	62.8	65.4	67.8	70.2	71.3	72.4	74.6	76.7	78.7	80.6	82.4	84.1	85.8	87.4				
21	67.1	68.6	70.1	73.0	75.8	78.5	79.8	81.1	83.6	86.0	88.3	90.5	92.7	94.7	96.8	98.5				
22	74.4	76.1	77.8	81.1	84.2	87.3	88.6	90.2	93.1	95.8	98.5	101.1	103.5	105.9	108.1	110.3				
23	82.1	84.0	85.9	89.6	93.1	96.6	98.2	99.9	103.1	106.2	109.2	112.2	115.0	117.7	120.3	122.8				
24	90.2	92.3	94.4	98.5	102.5	106.3	108.2	110.0	113.6	117.2	120.6	123.8	127.0	130.1	133.1	135.9				
25	98.7	101.0	103.3	107.8	112.2	116.5	118.6	120.7	124.7	128.6	132.4	136.1	139.7	143.2	146.5	149.7				
26	107.5	110.1	112.6	117.6	122.4	127.2	129.5	131.8	136.3	140.6	144.8	149.0	153.0	156.8	160.6	164.2				
27	116.7	119.5	122.3	127.8	133.1	138.3	140.9	143.4	148.3	153.1	157.8	162.4	166.8	171.1	175.3	179.4				
28	126.3	129.4	132.4	138.4	144.2	149.9	152.7	155.5	160.6	165.2	170.4	175.4	180.3	185.0	189.7	194.2				
29	136.3	139.8	142.9	149.4	155.8	162.0	165.1	168.1	173.6	178.8	184.4	190.1	195.6	201.6	207.4	211.7				
30	146.6	150.2	153.3	160.3	167.4	174.5	177.9	181.2	187.6	193.8	200.1	206.1	212.0	217.8	223.4	228.6				
31	157.4	161.3	164.7	172.0	179.2	186.3	190.2	194.7	201.7	208.6	215.3	221.9	228.3	234.5	240.7	246.6				
32	168.5	172.7	176.6	184.3	191.8	199.5	203.9	208.8	216.4	223.8	231.1	238.2	245.1	252.0	258.6	265.1				
33	179.9	184.5	188.9	197.0	205.1	213.4	218.2	223.3	231.5	239.5	247.4	255.1	262.8	270.0	277.2	284.3				
34	191.8	196.7	201.5	210.0	218.5	227.4	232.9	238.4	247.2	255.8	264.3	272.6	280.7	288.7	296.5	304.1				
35	204.0	209.2	214.4	223.3	232.5	241.4	247.5	253.9	263.3	272.6	281.7	290.6	299.4	307.9	316.4	324.6				
36	216.7	222.2	227.7	237.0	246.3	255.6	261.8	268.4	278.0	287.6	296.7	305.6	314.0	322.9	331.9	340.6				
37	229.7	235.5	241.4	251.0	260.7	270.4	277.6	284.4	294.4	304.2	313.3	322.5	331.3	340.5	349.5	358.1				
38	243.0	249.3	255.6	265.6	275.4	285.3	293.6	301.6	311.9	321.6	331.2	340.3	349.5	359.0	368.1	376.6				
39	256.9	263.4	269.9	280.3	290.3	299.9	308.7	317.4	328.1	338.2	348.4	358.6	368.8	379.1	389.5	399.1				
40	270.9	277.7	284.5	295.3	305.5	315.3	324.7	333.9	345.0	355.6	366.2	376.8	387.4	398.0	408.7	419.3				
41	285.4	292.6	300.2	311.4	322.2	332.9	342.8	352.4	364.0	375.6	387.2	398.8	410.4	422.0	433.6	445.1				
42	300.5	308.2	316.0	327.6	339.4	350.9	361.5	372.3	384.6	396.2	407.8	419.3	431.8	444.3	456.8	469.2				
43	315.9	324.0	332.1	344.3	356.7	368.9	380.2	391.9	404.6	417.3	430.0	442.6	455.3	468.0	480.7	493.4				
44	331.2	340.0	348.6	361.4	374.7	387.9	399.9	412.4	425.8	439.1	452.4	465.6	478.9	492.2	505.5	518.8				
45	347.3	356.4	365.5	378.8	392.5	405.9	418.8	432.1	445.9	460.0	474.0	487.9	501.8	515.7	529.6	543.5				
46	363.7	373.2	382.8	396.6	410.9	425.3	439.6	454.4	469.6	485.0	499.9	514.8	529.7	544.6	559.5	574.4				
47	380.5	390.5	400.6	414.9	429.7	444.5	459.3	474.6	490.3	506.0	521.6	537.1	552.5	568.0	583.4	598.8				
48	397.6	408.2	418.7	433.6	449.0	464.4	480.3	496.2	512.6	529.1	545.6	562.0	578.3	594.6	610.9	627.2				
49	415.2	426.2	437.2	452.6	468.5	484.3	500.7	517.6	534.6	551.5	568.4	585.2	602.0	618.8	635.6	652.4				
50	433.4	444.6	456.1	472.0	488.4	504.9	521.9	539.2	556.6	573.9	591.2	608.4	625.6	642.8	660.0	677.2				
51	451.4	463.4	475.4	491.8	508.7	525.9	543.6	561.2	579.4	597.6	615.7	633.8	651.9	669.9	687.9	705.9				
52	470.1	482.6	495.2	512.2	529.8	547.8	566.1	584.4	603.2	622.0	640.8	659.6	678.4	697.2	716.0	734.8				
53	489.1	502.2	515.3	532.8	550.8	569.1	587.6	606.2	625.6	645.0	664.4	683.8	703.2	722.6	742.0	761.4				
54	508.6	522.2	535.8	553.8	572.4	591.3	610.4	629.6	649.6	669.6	689.6	709.6	729.6	749.6	769.6	789.6				
55	528.4	542.6	556.7	575.3	594.4	613.6	633.2	652.8	672.4	692.0	711.6	731.2	750.8	770.4	790.0	809.6				
56	548.6	563.4	578.1	597.8	618.0	638.2	658.4	678.6	698.8	719.0	739.2	759.4	779.6	799.8	819.9	840.1				
57	569.1	584.3	599.3	619.6	640.1	660.6	681.2	701.8	722.4	743.0	763.6	784.2	804.8	825.4	846.0	866.6				
58	590.1	606.0	621.9	642.8	663.9	685.0	706.2	727.4	748.6	769.8	791.0	812.2	833.4	854.6	875.8	896.9				
59	611.4	628.0	644.5	666.3	688.1	710.0	731.9	753.8	775.7	797.6	819.5	841.4	863.3	885.2	907.1	928.9				
60	633.1	650.3	667.4	689.9	712.4	735.0	757.6	780.2	802.8	825.4	848.0	870.6	893.2	915.8	938.4	960.9				

Table 3.--Log weights for scaling lengths of 4 to 32 feet: density index = 30 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPFS*) FOR DENSITY INDEX=30																SCALING LENGTH (FEET)																
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	
6	.02	.03	.04	.05	.06	.07	.07	.07	.07	.07	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08
7	.03	.04	.05	.07	.08	.09	.10	.10	.10	.11	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
8	.04	.06	.07	.09	.10	.12	.13	.14	.14	.15	.16	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17
9	.05	.07	.09	.12	.14	.15	.17	.18	.19	.20	.21	.22	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23
10	.06	.09	.12	.15	.17	.19	.22	.23	.24	.25	.27	.29	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
11	.08	.11	.15	.18	.21	.24	.27	.28	.29	.32	.34	.36	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38
12	.09	.14	.18	.22	.25	.29	.32	.34	.35	.38	.41	.44	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46
13	.11	.16	.21	.26	.31	.34	.38	.40	.42	.46	.49	.53	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56
14	.13	.19	.24	.30	.35	.40	.45	.47	.50	.54	.58	.62	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66
15	.15	.21	.28	.34	.41	.47	.52	.55	.58	.63	.68	.73	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77
16	.17	.24	.32	.39	.47	.53	.60	.63	.66	.72	.79	.84	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89
17	.19	.26	.36	.45	.53	.61	.68	.72	.76	.83	.89	.96	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
18	.21	.28	.38	.48	.57	.68	.77	.81	.85	.93	1.01	1.09	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
19	.23	.31	.41	.50	.60	.71	.81	.86	.91	.99	1.07	1.15	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
20	.26	.33	.43	.53	.63	.74	.85	.91	1.02	1.07	1.15	1.27	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
21	.29	.36	.46	.56	.67	.78	.89	1.00	1.13	1.18	1.30	1.41	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
22	.32	.40	.50	.60	.71	.82	.93	1.04	1.24	1.31	1.43	1.56	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
23	.35	.43	.53	.63	.74	.85	.96	1.07	1.26	1.34	1.47	1.61	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
24	.38	.46	.56	.66	.77	.88	.99	1.08	1.25	1.34	1.49	1.63	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
25	.41	.49	.59	.69	.82	.95	1.07	1.18	1.36	1.47	1.62	1.76	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
26	.44	.52	.62	.72	.85	.98	1.10	1.22	1.41	1.53	1.68	1.83	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
27	.48	.56	.66	.76	.90	1.04	1.16	1.29	1.50	1.63	1.79	1.95	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
28	.51	.59	.69	.79	.94	1.08	1.22	1.36	1.58	1.72	1.89	2.06	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24
29	.55	.62	.72	.82	.97	1.11	1.26	1.40	1.63	1.77	1.95	2.13	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
30	.59	.66	.76	.86	1.01	1.15	1.30	1.44	1.68	1.82	2.00	2.18	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
31	.63	.70	.80	.90	1.05	1.20	1.34	1.48	1.73	1.87	2.06	2.24	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43
32	.67	.74	.84	.94	1.09	1.24	1.38	1.52	1.78	1.92	2.11	2.29	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48
33	.72	.79	.89	.99	1.14	1.29	1.43	1.57	1.83	1.97	2.16	2.34	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53
34	.76	.83	.93	1.03	1.18	1.33	1.47	1.61	1.87	2.01	2.20	2.38	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57
35	.81	.88	.98	1.08	1.23	1.38	1.52	1.66	1.92	2.06	2.25	2.43	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
36	.85	.92	1.02	1.12	1.27	1.42	1.56	1.70	1.96	2.10	2.29	2.47	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66
37	.90	1.00	1.10	1.20	1.35	1.50	1.64	1.78	2.04	2.18	2.37	2.55	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
38	.95	1.05	1.15	1.25	1.40	1.55	1.69	1.83	2.09	2.23	2.42	2.60	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78	2.78
39	1.00	1.09	1.19	1.29	1.44	1.59	1.73	1.87	2.13	2.27	2.46	2.64	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
40	1.06	1.15	1.25	1.35	1.50	1.65	1.79	1.93	2.19	2.33	2.52	2.70	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
41	1.11	1.20	1.30	1.40	1.55	1.70	1.84	1.98	2.24	2.38	2.57	2.75	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93
42	1.16	1.24	1.34	1.44	1.59	1.74	1.88	2.02	2.28	2.42	2.61	2.79	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97
43	1.22	1.30	1.40	1.50	1.65	1.80	1.94																										

Table 5.--Log weights for scaling lengths of 4 to 32 feet: density Index = 32 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=32																		
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																	
	4	5	8	10	12	14	16	17	18	20	22	24	25	28	30	32		
6	.02	.03	.04	.05	.06	.07	.07	.07	.08	.08	.08	.09	.09	.09	.09	.09		
7	.03	.05	.06	.07	.08	.09	.10	.10	.11	.12	.12	.13	.13	.14	.14	.14		
8	.04	.06	.08	.10	.11	.13	.14	.14	.15	.16	.17	.18	.18	.19	.20	.20		
9	.05	.08	.10	.12	.14	.16	.18	.19	.20	.21	.23	.24	.25	.26	.27	.28		
10	.07	.10	.13	.16	.19	.21	.23	.24	.25	.27	.29	.31	.32	.34	.35	.36		
11	.08	.12	.16	.19	.22	.25	.28	.30	.31	.34	.36	.38	.40	.42	.44	.46		
12	.10	.14	.19	.23	.27	.31	.34	.36	.38	.41	.44	.47	.50	.52	.54	.57		
13	.12	.17	.22	.27	.32	.37	.41	.43	.45	.49	.53	.56	.60	.63	.66	.68		
14	.15	.20	.25	.32	.37	.43	.48	.51	.52	.58	.62	.67	.71	.74	.77	.80		
15	.18	.24	.30	.37	.43	.50	.56	.59	.62	.67	.72	.78	.82	.87	.92	.96		
16	.20	.28	.34	.42	.50	.57	.64	.67	.71	.77	.84	.90	.95	1.01	1.06	1.11		
17	.22	.31	.39	.48	.56	.65	.73	.77	.81	.88	.95	1.02	1.08	1.15	1.22	1.28		
18	.25	.35	.44	.54	.64	.73	.82	.87	.91	1.00	1.08	1.16	1.24	1.31	1.38	1.45		
19	.28	.40	.50	.60	.71	.82	.92	.97	1.02	1.12	1.21	1.30	1.39	1.48	1.56	1.64		
20	.31	.45	.55	.67	.79	.91	1.03	1.08	1.14	1.25	1.36	1.46	1.56	1.65	1.75	1.84		
21	.34	.50	.60	.74	.88	1.01	1.14	1.20	1.26	1.39	1.51	1.62	1.73	1.84	1.95	2.05		
22	.37	.54	.66	.81	.96	1.11	1.26	1.32	1.39	1.53	1.66	1.79	1.92	2.04	2.16	2.27		
23	.40	.58	.72	.89	1.06	1.22	1.38	1.45	1.53	1.68	1.83	1.97	2.11	2.25	2.38	2.50		
24	.44	.63	.79	.97	1.15	1.33	1.51	1.59	1.67	1.84	2.00	2.16	2.31	2.46	2.61	2.75		
25	.47	.68	.85	1.06	1.26	1.45	1.64	1.73	1.82	2.01	2.18	2.36	2.52	2.69	2.85	3.01		
26	.51	.73	.93	1.15	1.36	1.57	1.78	1.88	1.98	2.18	2.37	2.56	2.74	2.92	3.10	3.27		
27	.55	.82	1.00	1.24	1.47	1.70	1.92	2.03	2.14	2.36	2.57	2.77	2.97	3.17	3.36	3.55		
28	.59	.88	1.08	1.33	1.58	1.83	2.07	2.19	2.31	2.54	2.77	3.00	3.21	3.43	3.64	3.84		
29	.63	.94	1.16	1.43	1.70	1.97	2.23	2.36	2.49	2.74	2.99	3.23	3.46	3.69	3.92	4.14		
30	.67	1.00	1.24	1.54	1.83	2.11	2.39	2.53	2.67	2.94	3.21	3.47	3.72	3.97	4.22	4.46		
31	.72	1.07	1.33	1.64	1.95	2.26	2.56	2.71	2.86	3.15	3.43	3.71	3.99	4.26	4.52	4.78		
32	.76	1.14	1.41	1.75	2.08	2.41	2.74	2.89	3.05	3.36	3.67	3.97	4.26	4.55	4.84	5.12		
33	.81	1.21	1.50	1.87	2.22	2.57	2.92	3.09	3.25	3.59	3.91	4.23	4.55	4.86	5.17	5.46		
34	.86	1.28	1.63	2.00	2.36	2.73	3.10	3.28	3.46	3.82	4.16	4.51	4.85	5.18	5.50	5.82		
35	.91	1.36	1.70	2.10	2.51	2.90	3.29	3.48	3.68	4.05	4.42	4.79	5.15	5.50	5.85	6.19		
36	.96	1.43	1.80	2.23	2.65	3.07	3.49	3.69	3.90	4.30	4.69	5.08	5.46	5.84	6.21	6.57		
37	1.02	1.51	1.90	2.36	2.81	3.25	3.69	3.91	4.12	4.55	4.97	5.38	5.79	6.19	6.58	6.97		
38	1.07	1.59	2.00	2.49	2.96	3.43	3.90	4.13	4.36	4.81	5.25	5.69	6.12	6.54	6.96	7.37		
39	1.13	1.68	2.11	2.62	3.13	3.62	4.11	4.35	4.59	5.07	5.54	6.00	6.46	6.91	7.35	7.79		
40	1.18	1.76	2.22	2.76	3.29	3.81	4.32	4.59	4.84	5.34	5.84	6.33	6.81	7.28	7.75	8.21		
41	1.24	1.85	2.34	2.90	3.46	4.01	4.56	4.83	5.09	5.62	6.15	6.66	7.17	7.67	8.17	8.65		
42	1.30	1.94	2.45	3.03	3.64	4.21	4.79	5.07	5.35	5.91	6.46	7.00	7.54	8.07	8.59	9.10		
43	1.36	2.03	2.57	3.20	3.81	4.42	5.02	5.32	5.62	6.20	6.78	7.35	7.92	8.47	9.02	9.56		
44	1.43	2.13	2.70	3.35	4.00	4.64	5.27	5.58	5.90	6.50	7.11	7.71	8.30	8.89	9.47	10.04		
45	1.49	2.23	2.82	3.51	4.18	4.85	5.51	5.84	6.17	6.81	7.45	8.08	8.70	9.32	9.92	10.52		
46	1.56	2.32	2.93	3.67	4.37	5.08	5.77	6.11	6.45	7.13	7.80	8.46	9.11	9.75	10.39	11.02		
47	1.62	2.42	3.04	3.83	4.57	5.30	6.03	6.39	6.74	7.45	8.15	8.84	9.52	10.20	10.87	11.52		
48	1.69	2.53	3.15	4.00	4.77	5.54	6.29	6.67	7.04	7.78	8.51	9.23	9.95	10.65	11.35	12.04		
49	1.76	2.63	3.29	4.17	4.97	5.77	6.56	6.95	7.34	8.12	8.88	9.64	10.39	11.12	11.85	12.57		
50	1.84	2.74	3.43	4.34	5.18	6.02	6.84	7.25	7.65	8.46	9.26	10.05	10.83	11.60	12.36	13.11		
51	1.91	2.85	3.58	4.52	5.40	6.26	7.12	7.55	7.97	8.81	9.64	10.46	11.28	12.08	12.88	13.67		
52	1.98	2.96	3.78	4.70	5.61	6.52	7.41	7.85	8.29	9.17	10.02	10.89	11.74	12.58	13.41	14.22		
53	2.06	3.07	3.93	4.88	5.82	6.77	7.70	8.16	8.62	9.53	10.44	11.33	12.21	13.08	13.95	14.81		
54	2.14	3.19	4.08	5.07	6.06	7.03	8.00	8.48	8.96	9.91	10.84	11.77	12.69	13.60	14.50	15.39		
55	2.21	3.31	4.23	5.27	6.29	7.30	8.31	8.80	9.30	10.28	11.26	12.22	13.18	14.13	15.06	15.99		
56	2.29	3.43	4.39	5.46	6.52	7.57	8.62	9.13	9.65	10.67	11.68	12.69	13.68	14.66	15.64	16.60		
57	2.38	3.55	4.55	5.66	6.76	7.85	8.93	9.47	10.00	11.07	12.12	13.16	14.19	15.21	16.22	17.22		
58	2.46	3.67	4.71	5.86	7.00	8.13	9.23	9.81	10.37	11.47	12.56	13.64	14.70	15.76	16.81	17.85		
59	2.54	3.77	4.84	6.07	7.25	8.42	9.58	10.16	10.73	11.87	13.00	14.12	15.23	16.33	17.42	18.50		
60	2.63	3.90	5.00	6.28	7.50	8.71	9.92	10.51	11.11	12.29	13.46	14.62	15.77	16.91	18.03	19.15		

Table 6. --Log weights for scaling lengths of 34 to 60 feet: density index = 32 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=32															
	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.09	.09	.09	.09	.08	.08	.08	.08	.07	.07	.07	.07	.06	.06	.05	.05
7	.14	.14	.14	.14	.14	.14	.14	.14	.13	.13	.13	.13	.12	.12	.11	.11
8	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.20	.20	.20	.19	.19
9	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
10	.37	.38	.38	.39	.40	.40	.40	.41	.41	.41	.41	.41	.41	.41	.41	.41
11	.47	.48	.49	.50	.51	.52	.53	.53	.54	.54	.54	.55	.55	.55	.55	.55
12	.59	.60	.61	.62	.64	.65	.66	.66	.67	.68	.69	.70	.70	.71	.71	.71
13	.71	.72	.73	.76	.78	.80	.81	.81	.84	.84	.86	.87	.88	.89	.89	.90
14	.85	.86	.88	.91	.93	.96	.97	.98	1.00	1.02	1.04	1.06	1.07	1.08	1.10	1.11
15	1.00	1.02	1.04	1.07	1.11	1.14	1.15	1.17	1.19	1.22	1.24	1.26	1.28	1.30	1.32	1.33
16	1.16	1.19	1.21	1.25	1.29	1.33	1.35	1.36	1.40	1.43	1.46	1.49	1.52	1.54	1.56	1.58
17	1.33	1.36	1.39	1.44	1.49	1.53	1.56	1.58	1.62	1.66	1.70	1.73	1.77	1.80	1.83	1.85
18	1.52	1.55	1.58	1.64	1.70	1.76	1.78	1.81	1.86	1.91	1.95	2.00	2.04	2.08	2.11	2.15
19	1.72	1.75	1.79	1.86	1.93	1.99	2.02	2.06	2.12	2.17	2.23	2.28	2.33	2.37	2.42	2.46
20	1.93	1.97	2.01	2.09	2.17	2.24	2.28	2.32	2.39	2.45	2.52	2.58	2.64	2.69	2.75	2.80
21	2.15	2.20	2.24	2.33	2.43	2.51	2.55	2.59	2.67	2.75	2.83	2.91	2.96	3.03	3.09	3.15
22	2.38	2.44	2.49	2.59	2.71	2.81	2.84	2.89	2.98	3.07	3.15	3.23	3.31	3.39	3.46	3.53
23	2.63	2.69	2.75	2.87	2.98	3.09	3.14	3.20	3.30	3.40	3.50	3.59	3.68	3.77	3.85	3.92
24	2.89	2.95	3.02	3.15	3.28	3.40	3.46	3.52	3.64	3.75	3.86	3.96	4.06	4.16	4.26	4.35
25	3.16	3.23	3.31	3.45	3.59	3.73	3.80	3.86	3.99	4.12	4.24	4.36	4.47	4.58	4.69	4.79
26	3.44	3.52	3.60	3.76	3.92	4.07	4.14	4.22	4.36	4.50	4.63	4.77	4.89	5.02	5.14	5.26
27	3.73	3.83	3.91	4.09	4.26	4.43	4.51	4.59	4.75	4.90	5.05	5.20	5.34	5.48	5.61	5.74
28	4.04	4.14	4.24	4.43	4.62	4.80	4.89	4.98	5.15	5.32	5.48	5.64	5.80	5.95	6.10	6.25
29	4.36	4.47	4.57	4.78	4.99	5.18	5.28	5.38	5.57	5.75	5.93	6.11	6.28	6.45	6.61	6.77
30	4.69	4.81	4.92	5.15	5.37	5.59	5.69	5.80	6.00	6.21	6.40	6.60	6.78	6.97	7.15	7.32
31	5.04	5.16	5.28	5.53	5.77	6.00	6.12	6.23	6.46	6.67	6.89	7.10	7.30	7.51	7.70	7.89
32	5.39	5.53	5.66	5.92	6.18	6.43	6.56	6.68	6.92	7.16	7.39	7.62	7.84	8.06	8.28	8.48
33	5.76	5.90	6.05	6.33	6.61	6.88	7.01	7.15	7.41	7.66	7.92	8.16	8.40	8.64	8.87	9.10
34	6.14	6.29	6.45	6.75	7.05	7.34	7.48	7.63	7.91	8.19	8.46	8.72	8.98	9.24	9.49	9.73
35	6.53	6.70	6.86	7.18	7.50	7.82	7.97	8.12	8.43	8.72	9.01	9.30	9.58	9.85	10.12	10.39
36	6.93	7.11	7.29	7.63	7.97	8.31	8.47	8.64	8.96	9.28	9.59	9.90	10.20	10.49	10.78	11.06
37	7.35	7.54	7.72	8.09	8.48	8.81	8.99	9.17	9.51	9.85	10.18	10.51	10.83	11.15	11.46	11.76
38	7.78	7.98	8.18	8.57	8.96	9.34	9.52	9.71	10.08	10.44	10.79	11.14	11.49	11.83	12.16	12.48
39	8.22	8.43	8.64	9.06	9.47	9.87	10.07	10.27	10.66	11.05	11.42	11.80	12.16	12.52	12.88	13.23
40	8.67	8.89	9.12	9.56	9.99	10.42	10.63	10.84	11.26	11.67	12.07	12.47	12.86	13.24	13.62	13.99
41	9.13	9.37	9.61	10.07	10.54	10.99	11.21	11.44	11.88	12.31	12.74	13.16	13.57	13.98	14.38	14.77
42	9.61	9.86	10.11	10.60	11.09	11.57	11.81	12.04	12.51	12.97	13.42	13.86	14.30	14.73	15.16	15.58
43	10.10	10.36	10.63	11.15	11.66	12.17	12.42	12.66	13.16	13.64	14.12	14.59	15.05	15.51	15.96	16.40
44	10.60	10.88	11.16	11.73	12.24	12.78	13.04	13.30	13.82	14.33	14.84	15.33	15.82	16.31	16.78	17.25
45	11.11	11.41	11.70	12.27	12.84	13.40	13.68	13.96	14.50	15.04	15.57	16.10	16.61	17.12	17.63	18.12
46	11.64	11.95	12.25	12.86	13.45	14.04	14.34	14.63	15.20	15.77	16.33	16.88	17.42	17.96	18.49	19.01
47	12.17	12.50	12.82	13.45	14.08	14.70	15.01	15.31	15.91	16.51	17.10	17.68	18.25	18.82	19.37	19.92
48	12.72	13.05	13.40	14.06	14.72	15.37	15.69	16.01	16.64	17.27	17.89	18.50	19.10	19.69	20.28	20.86
49	13.29	13.64	13.99	14.69	15.38	16.06	16.39	16.73	17.39	18.05	18.69	19.33	19.97	20.59	21.21	21.81
50	13.86	14.23	14.60	15.32	16.04	16.76	17.11	17.46	18.15	18.84	19.52	20.19	20.85	21.51	22.15	22.79
51	14.44	14.81	15.21	15.98	16.73	17.47	17.84	18.21	18.93	19.65	20.36	21.06	21.76	22.44	23.12	23.79
52	15.04	15.44	15.85	16.64	17.43	18.20	18.59	18.97	19.73	20.48	21.22	21.96	22.68	23.40	24.11	24.81
53	15.65	16.07	16.49	17.32	18.14	18.95	19.35	19.75	20.54	21.33	22.10	22.87	23.63	24.38	25.12	25.85
54	16.27	16.71	17.15	18.01	18.86	19.71	20.13	20.54	21.37	22.19	23.00	23.80	24.59	25.37	26.14	26.91
55	16.91	17.36	17.82	18.71	19.60	20.48	20.92	21.36	22.22	23.07	23.91	24.75	25.57	26.39	27.19	27.99
56	17.55	18.03	18.50	19.43	20.36	21.27	21.73	22.18	23.08	23.97	24.84	25.71	26.57	27.42	28.27	29.00
57	18.21	18.70	19.19	20.17	21.13	22.08	22.55	23.02	23.96	24.88	25.79	26.70	27.59	28.48	29.36	30.22
58	18.89	19.39	19.90	20.91	21.91	22.90	23.39	23.88	24.85	25.81	26.76	27.70	28.63	29.56	30.47	31.37
59	19.56	20.10	20.62	21.67	22.71	23.74	24.25	24.75	25.76	26.76	27.75	28.73	29.69	30.65	31.60	32.54
60	20.26	20.81	21.36	22.44	23.52	24.59	25.12	25.64	26.69	27.72	28.75	29.77	30.77	31.77	32.75	33.73

* 1KIP=1000 POUNDS

Table 7.--Log weights for scaling lengths of 4 to 32 feet: density index = 34 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=34																	
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																
	4	5	8	10	12	14	16	17	18	20	22	24	26	28	30	32	
6	.02	.04	.05	.05	.06	.07	.08	.08	.08	.09	.09	.09	.09	.09	.09	.09	
7	.03	.05	.06	.06	.07	.08	.09	.09	.10	.10	.10	.10	.10	.10	.10	.10	
8	.05	.07	.08	.08	.09	.10	.11	.11	.12	.12	.13	.13	.13	.14	.14	.15	
9	.06	.08	.10	.10	.11	.12	.13	.13	.14	.15	.15	.16	.16	.17	.17	.18	
10	.07	.10	.11	.11	.12	.13	.14	.14	.15	.16	.17	.17	.18	.19	.19	.20	
11	.08	.11	.12	.12	.13	.14	.15	.15	.16	.17	.18	.18	.19	.20	.20	.21	
12	.09	.12	.13	.13	.14	.15	.16	.16	.17	.18	.19	.19	.20	.21	.21	.22	
13	.10	.13	.14	.14	.15	.16	.17	.17	.18	.19	.20	.20	.21	.22	.22	.23	
14	.11	.14	.15	.15	.16	.17	.18	.18	.19	.20	.21	.21	.22	.23	.23	.24	
15	.12	.15	.16	.16	.17	.18	.19	.19	.20	.21	.22	.22	.23	.24	.24	.25	
16	.13	.16	.17	.17	.18	.19	.20	.20	.21	.22	.23	.23	.24	.25	.25	.26	
17	.14	.17	.18	.18	.19	.20	.21	.21	.22	.23	.24	.24	.25	.26	.26	.27	
18	.15	.18	.19	.19	.20	.21	.22	.22	.23	.24	.25	.25	.26	.27	.27	.28	
19	.16	.19	.20	.20	.21	.22	.23	.23	.24	.25	.26	.26	.27	.28	.28	.29	
20	.17	.20	.21	.21	.22	.23	.24	.24	.25	.26	.27	.27	.28	.29	.29	.30	
21	.18	.21	.22	.22	.23	.24	.25	.25	.26	.27	.28	.28	.29	.30	.30	.31	
22	.19	.22	.23	.23	.24	.25	.26	.26	.27	.28	.29	.29	.30	.31	.31	.32	
23	.20	.23	.24	.24	.25	.26	.27	.27	.28	.29	.30	.30	.31	.32	.32	.33	
24	.21	.24	.25	.25	.26	.27	.28	.28	.29	.30	.31	.31	.32	.33	.33	.34	
25	.22	.25	.26	.26	.27	.28	.29	.29	.30	.31	.32	.32	.33	.34	.34	.35	
26	.23	.26	.27	.27	.28	.29	.30	.30	.31	.32	.33	.33	.34	.35	.35	.36	
27	.24	.27	.28	.28	.29	.30	.31	.31	.32	.33	.34	.34	.35	.36	.36	.37	
28	.25	.28	.29	.29	.30	.31	.32	.32	.33	.34	.35	.35	.36	.37	.37	.38	
29	.26	.29	.30	.30	.31	.32	.33	.33	.34	.35	.36	.36	.37	.38	.38	.39	
30	.27	.30	.31	.31	.32	.33	.34	.34	.35	.36	.37	.37	.38	.39	.39	.40	
31	.28	.31	.32	.32	.33	.34	.35	.35	.36	.37	.38	.38	.39	.40	.40	.41	
32	.29	.32	.33	.33	.34	.35	.36	.36	.37	.38	.39	.39	.40	.41	.41	.42	
33	.30	.33	.34	.34	.35	.36	.37	.37	.38	.39	.40	.40	.41	.42	.42	.43	
34	.31	.34	.35	.35	.36	.37	.38	.38	.39	.40	.41	.41	.42	.43	.43	.44	
35	.32	.35	.36	.36	.37	.38	.39	.39	.40	.41	.42	.42	.43	.44	.44	.45	
36	.33	.36	.37	.37	.38	.39	.40	.40	.41	.42	.43	.43	.44	.45	.45	.46	
37	.34	.37	.38	.38	.39	.40	.41	.41	.42	.43	.44	.44	.45	.46	.46	.47	
38	.35	.38	.39	.39	.40	.41	.42	.42	.43	.44	.45	.45	.46	.47	.47	.48	
39	.36	.39	.40	.40	.41	.42	.43	.43	.44	.45	.46	.46	.47	.48	.48	.49	
40	.37	.40	.41	.41	.42	.43	.44	.44	.45	.46	.47	.47	.48	.49	.49	.50	
41	.38	.41	.42	.42	.43	.44	.45	.45	.46	.47	.48	.48	.49	.50	.50	.51	
42	.39	.42	.43	.43	.44	.45	.46	.46	.47	.48	.49	.49	.50	.51	.51	.52	
43	.40	.43	.44	.44	.45	.46	.47	.47	.48	.49	.50	.50	.51	.52	.52	.53	
44	.41	.44	.45	.45	.46	.47	.48	.48	.49	.50	.51	.51	.52	.53	.53	.54	
45	.42	.45	.46	.46	.47	.48	.49	.49	.50	.51	.52	.52	.53	.54	.54	.55	
46	.43	.46	.47	.47	.48	.49	.50	.50	.51	.52	.53	.53	.54	.55	.55	.56	
47	.44	.47	.48	.48	.49	.50	.51	.51	.52	.53	.54	.54	.55	.56	.56	.57	
48	.45	.48	.49	.49	.50	.51	.52	.52	.53	.54	.55	.55	.56	.57	.57	.58	
49	.46	.49	.50	.50	.51	.52	.53	.53	.54	.55	.56	.56	.57	.58	.58	.59	
50	.47	.50	.51	.51	.52	.53	.54	.54	.55	.56	.57	.57	.58	.59	.59	.60	
51	.48	.51	.52	.52	.53	.54	.55	.55	.56	.57	.58	.58	.59	.60	.60	.61	
52	.49	.52	.53	.53	.54	.55	.56	.56	.57	.58	.59	.59	.60	.61	.61	.62	
53	.50	.53	.54	.54	.55	.56	.57	.57	.58	.59	.60	.60	.61	.62	.62	.63	
54	.51	.54	.55	.55	.56	.57	.58	.58	.59	.60	.61	.61	.62	.63	.63	.64	
55	.52	.55	.56	.56	.57	.58	.59	.59	.60	.61	.62	.62	.63	.64	.64	.65	
56	.53	.56	.57	.57	.58	.59	.60	.60	.61	.62	.63	.63	.64	.65	.65	.66	
57	.54	.57	.58	.58	.59	.60	.61	.61	.62	.63	.64	.64	.65	.66	.66	.67	
58	.55	.58	.59	.59	.60	.61	.62	.62	.63	.64	.65	.65	.66	.67	.67	.68	
59	.56	.59	.60	.60	.61	.62	.63	.63	.64	.65	.66	.66	.67	.68	.68	.69	
60	.57	.60	.61	.61	.62	.63	.64	.64	.65	.66	.67	.67	.68	.69	.69	.70	

* 1KIP=1000 POUNDS

Table 8.---Log weights for scaling lengths of 34 to 60 feet: density index = 34 pounds per cubic foot.
[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LCC WEIGHT (KIPS*) FOR DENSITY INDEX=34															
	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.09	.09	.09	.09	.09	.09	.09	.08	.08	.07	.07	.07	.07	.06	.06	.05
7	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
8	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
9	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12
10	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13	.13
11	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14	.14
12	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
13	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16
14	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17
15	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18
16	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19
17	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
18	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21
19	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22	.22
20	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23
21	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24	.24
22	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
23	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26	.26
24	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27
25	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28
26	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
27	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
28	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
29	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32
30	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33	.33
31	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34
32	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35
33	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36	.36
34	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37
35	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38
36	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39
37	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
38	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41
39	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
40	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43
41	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44
42	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45
43	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46	.46
44	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47
45	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48	.48
46	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49	.49
47	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50
48	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51	.51
49	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52
50	.53	.53	.53	.53	.53	.53	.53	.53	.53	.53	.53	.53	.53	.53	.53	.53
51	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54	.54
52	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55	.55
53	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56	.56
54	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57	.57
55	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58
56	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59
57	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60
58	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61
59	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62	.62
60	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63	.63

* 1KIP=1000 POUNDS

Table 9.--Log weights for scaling lengths of 4 to 32 feet: density index = 36 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=36																																
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32																
6	.33	.04	.05	.06	.07	.07	.08	.08	.08	.09	.09	.10	.10	.10	.10	.10	.10															
7	.44	.05	.07	.08	.09	.10	.11	.12	.12	.13	.14	.14	.15	.15	.16	.16	.16															
8	.55	.07	.09	.11	.13	.14	.16	.16	.17	.18	.19	.20	.21	.22	.22	.23	.23															
9	.66	.09	.12	.14	.16	.18	.20	.21	.22	.24	.25	.27	.28	.29	.30	.31	.31															
10	.78	.11	.14	.18	.21	.23	.26	.27	.28	.31	.33	.35	.36	.38	.39	.41	.41															
11	.89	.14	.18	.22	.25	.29	.32	.34	.35	.38	.41	.43	.45	.48	.50	.51	.51															
12	.99	.16	.21	.26	.30	.35	.39	.41	.42	.46	.50	.53	.56	.59	.61	.64	.64															
13	1.13	.19	.25	.31	.36	.41	.46	.49	.51	.55	.59	.63	.67	.71	.74	.77	.77															
14	1.25	.22	.29	.36	.42	.48	.54	.57	.60	.65	.70	.75	.79	.84	.88	.92	.92															
15	1.37	.26	.34	.41	.48	.56	.63	.66	.69	.76	.80	.87	.93	.98	1.03	1.08	1.08															
16	1.47	.29	.38	.47	.56	.64	.72	.76	.80	.87	.94	1.01	1.07	1.13	1.19	1.25	1.25															
17	1.57	.33	.44	.54	.63	.73	.82	.86	.91	.99	1.07	1.15	1.23	1.30	1.37	1.44	1.44															
18	1.65	.37	.49	.60	.71	.82	.92	.97	1.02	1.12	1.21	1.31	1.41	1.50	1.56	1.63	1.63															
19	1.74	.42	.55	.68	.80	.92	1.04	1.09	1.15	1.26	1.37	1.47	1.57	1.66	1.76	1.84	1.84															
20	1.81	.46	.61	.75	.89	1.02	1.16	1.22	1.28	1.41	1.52	1.64	1.75	1.86	1.97	2.07	2.07															
21	1.85	.51	.67	.83	.98	1.13	1.28	1.35	1.42	1.56	1.69	1.82	1.95	2.07	2.19	2.31	2.31															
22	1.88	.56	.74	.91	1.08	1.25	1.41	1.49	1.57	1.72	1.87	2.02	2.16	2.29	2.41	2.55	2.55															
23	1.91	.62	.81	1.00	1.19	1.37	1.55	1.64	1.72	1.89	2.06	2.22	2.37	2.53	2.67	2.82	2.82															
24	1.95	.67	.87	1.06	1.26	1.45	1.63	1.73	1.81	2.00	2.17	2.35	2.52	2.69	2.87	3.03	3.03															
25	1.98	.73	.96	1.19	1.41	1.61	1.80	1.90	2.00	2.20	2.39	2.58	2.77	2.96	3.15	3.34	3.34															
26	2.02	.79	1.04	1.28	1.53	1.77	2.00	2.12	2.23	2.45	2.67	2.88	3.09	3.29	3.49	3.68	3.68															
27	2.07	.85	1.10	1.35	1.60	1.85	2.08	2.22	2.34	2.55	2.76	2.97	3.18	3.39	3.59	3.78	3.78															
28	2.12	.92	1.21	1.50	1.78	2.06	2.33	2.47	2.60	2.86	3.12	3.37	3.62	3.86	4.09	4.32	4.32															
29	2.16	.98	1.30	1.61	1.92	2.22	2.51	2.65	2.80	3.08	3.36	3.63	3.90	4.16	4.41	4.66	4.66															
30	2.21	1.05	1.39	1.73	2.06	2.38	2.69	2.85	3.00	3.31	3.61	3.90	4.19	4.47	4.74	5.01	5.01															
31	2.26	1.13	1.49	1.85	2.20	2.54	2.88	3.05	3.22	3.54	3.86	4.18	4.49	4.79	5.09	5.38	5.38															
32	2.31	1.20	1.59	1.97	2.35	2.72	3.08	3.26	3.43	3.78	4.12	4.47	4.80	5.12	5.44	5.76	5.76															
33	2.36	1.28	1.69	2.10	2.51	2.89	3.28	3.47	3.66	4.03	4.40	4.76	5.12	5.47	5.81	6.15	6.15															
34	2.41	1.36	1.81	2.23	2.66	3.08	3.49	3.69	3.89	4.29	4.69	5.04	5.40	5.82	6.19	6.55	6.55															
35	2.47	1.44	1.91	2.37	2.82	3.26	3.70	3.92	4.13	4.56	4.96	5.30	5.75	6.19	6.58	6.97	6.97															
36	2.52	1.53	2.02	2.51	2.99	3.46	3.92	4.15	4.38	4.83	5.24	5.68	6.15	6.57	6.99	7.40	7.40															
37	2.58	1.61	2.14	2.65	3.16	3.66	4.15	4.40	4.64	5.12	5.50	6.05	6.51	6.96	7.40	7.84	7.84															
38	2.64	1.70	2.25	2.80	3.32	3.86	4.39	4.64	4.90	5.41	5.91	6.40	6.88	7.36	7.82	8.29	8.29															
39	2.69	1.78	2.34	2.95	3.52	4.07	4.63	4.90	5.17	5.70	6.23	6.75	7.27	7.77	8.27	8.76	8.76															
40	2.75	1.89	2.50	3.14	3.73	4.29	4.87	5.16	5.45	6.01	6.57	7.12	7.68	8.20	8.72	9.24	9.24															
41	2.81	1.98	2.63	3.27	3.85	4.51	5.13	5.43	5.73	6.33	6.91	7.49	8.07	8.63	9.19	9.73	9.73															
42	2.87	2.08	2.76	3.43	4.09	4.74	5.39	5.70	6.02	6.65	7.27	7.88	8.49	9.08	9.66	10.24	10.24															
43	2.93	2.18	2.89	3.60	4.29	4.98	5.65	5.99	6.32	6.98	7.63	8.27	8.91	9.53	10.15	10.76	10.76															
44	2.99	2.29	3.03	3.77	4.50	5.21	5.92	6.28	6.63	7.32	8.00	8.69	9.34	10.00	10.65	11.29	11.29															
45	3.05	2.39	3.17	3.94	4.71	5.46	6.20	6.57	6.94	7.66	8.38	9.09	9.79	10.48	11.16	11.84	11.84															
46	3.11	2.50	3.32	4.12	4.92	5.71	6.49	6.87	7.26	8.02	8.77	9.51	10.25	10.97	11.69	12.39	12.39															
47	3.17	2.61	3.47	4.31	5.14	5.97	6.78	7.19	7.59	8.38	9.17	9.95	10.71	11.47	12.22	12.96	12.96															
48	3.23	2.73	3.62	4.50	5.37	6.23	7.08	7.50	7.92	8.75	9.57	10.39	11.19	11.99	12.77	13.55	13.55															
49	3.29	2.84	3.77	4.69	5.60	6.49	7.38	7.82	8.26	9.13	9.99	10.84	11.68	12.51	13.33	14.14	14.14															
50	3.35	2.96	3.93	4.90	5.82	6.77	7.69	8.15	8.61	9.52	10.45	11.30	12.18	13.05	13.90	14.75	14.75															
51	3.41	3.08	4.09	5.08	6.01	6.95	7.91	8.40	8.97	9.91	10.85	11.77	12.69	13.59	14.50	15.37	15.37															
52	3.47	3.20	4.25	5.29	6.24	7.23	8.23	8.87	9.43	10.41	11.29	12.25	13.21	14.15	15.08	16.01	16.01															
53	3.53	3.32	4.42	5.50	6.56	7.62	8.66	9.18	9.70	10.73	11.74	12.74	13.74	14.75	15.80	16.86	16.86															
54	3.59	3.46	4.59	5.71	6.82	7.91	9.00	9.54	10.08	11.14	12.20	13.24	14.28	15.30	16.34	17.32	17.32															
55	3.65	3.59	4.76	5.92	7.07	8.22	9.34	9.91	10.46	11.57	12.67	13.75	14.83	15.89	16.95	17.99	17.99															
56	3.71	3.72	4.94	6.14	7.34	8.52	9.69	10.28	10.86	12.01	13.14	14.27	15.39	16.50	17.59	18.67	18.67															
57	3.77	3.86	5.12	6.37	7.61	8.83	10.05	10.65	11.25	12.45	13.63	14.80	15.96	17.11	18.33	19.37	19.37															
58	3.83	3.99	5.30	6.60	7.88	9.15	10.41	11.04	11.66	12.90	14.12	15.34	16.54	17.73	19.00	20.08	20.08															
59	3.89	4.13	5.49	6.83	8.16	9.47	10.78	11.43	12.08	13.36	14.63	15.89	17.14	18.37	19.60	20.81	20.81															
60	3.95	4.27	5.67	7.06	8.44	9.80	11.16	11.83	12.50	13.82	15.14	16.45	17.74	19.02	20.29	21.55	21.55															

* 1KIP=1000 POUNDS

Table 10.--Log weights for scaling lengths of 34 to 60 feet: density index = 36 pounds per cubic foot
[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPTS*) FOR DENSITY INDEX=36																							
	SCALING LENGTH (FEET)												SCALING LENGTH (FEET)											
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60	34	35	36	38	40	42	43	44
6	.10	.10	.10	.10	.10	.09	.09	.09	.09	.08	.08	.07	.07	.07	.06	.06								
7	.16	.16	.16	.16	.16	.16	.16	.16	.15	.15	.15	.14	.14	.13	.12	.12								
8	.23	.23	.23	.24	.24	.24	.24	.24	.24	.23	.23	.23	.22	.22	.21	.21								
9	.32	.32	.32	.33	.33	.33	.34	.34	.34	.34	.34	.34	.33	.33	.33	.32								
10	.42	.42	.43	.44	.44	.45	.45	.46	.46	.46	.46	.47	.47	.46	.46	.46								
11	.53	.54	.55	.56	.57	.58	.59	.59	.60	.61	.61	.62	.62	.62	.62	.62								
12	.66	.67	.68	.70	.72	.73	.74	.75	.76	.77	.78	.79	.80	.80	.80	.80								
13	.80	.81	.83	.85	.88	.90	.91	.92	.93	.95	.96	.98	.99	1.00	1.01	1.01								
14	.95	.97	.99	1.02	1.05	1.08	1.09	1.10	1.13	1.15	1.17	1.19	1.21	1.22	1.23	1.24								
15	1.12	1.14	1.16	1.20	1.24	1.28	1.29	1.31	1.34	1.37	1.40	1.42	1.45	1.47	1.48	1.50								
16	1.30	1.33	1.35	1.40	1.45	1.49	1.51	1.53	1.57	1.61	1.64	1.68	1.71	1.73	1.76	1.78								
17	1.50	1.53	1.56	1.62	1.67	1.73	1.75	1.78	1.82	1.87	1.91	1.95	1.99	2.02	2.06	2.09								
18	1.71	1.74	1.78	1.85	1.91	1.98	2.01	2.04	2.09	2.15	2.20	2.25	2.29	2.34	2.38	2.42								
19	1.93	1.97	2.01	2.09	2.17	2.24	2.28	2.31	2.38	2.44	2.51	2.56	2.62	2.67	2.72	2.77								
20	2.17	2.21	2.26	2.35	2.44	2.53	2.57	2.61	2.69	2.76	2.83	2.90	2.97	3.03	3.09	3.15								
21	2.42	2.47	2.52	2.63	2.73	2.83	2.87	2.92	3.01	3.10	3.18	3.26	3.34	3.41	3.48	3.55								
22	2.68	2.74	2.80	2.92	3.03	3.14	3.20	3.25	3.35	3.43	3.53	3.64	3.73	3.81	3.89	3.97								
23	2.96	3.03	3.09	3.22	3.35	3.48	3.54	3.60	3.71	3.82	3.93	4.04	4.14	4.24	4.33	4.42								
24	3.25	3.32	3.40	3.55	3.69	3.83	3.89	3.96	4.09	4.22	4.34	4.46	4.57	4.68	4.79	4.89								
25	3.55	3.64	3.72	3.88	4.04	4.19	4.27	4.34	4.49	4.63	4.77	4.90	5.03	5.15	5.27	5.39								
26	3.87	3.96	4.05	4.23	4.41	4.58	4.66	4.74	4.91	5.06	5.21	5.36	5.51	5.65	5.78	5.91								
27	4.20	4.30	4.40	4.60	4.79	4.98	5.07	5.16	5.34	5.51	5.68	5.85	6.01	6.16	6.31	6.46								
28	4.55	4.66	4.77	4.98	5.19	5.40	5.50	5.60	5.79	5.98	6.17	6.35	6.53	6.70	6.86	7.03								
29	4.91	5.03	5.15	5.38	5.61	5.83	5.94	6.05	6.26	6.47	6.68	6.87	7.07	7.26	7.44	7.62								
30	5.28	5.41	5.54	5.79	6.04	6.28	6.40	6.52	6.75	6.98	7.20	7.42	7.63	7.84	8.04	8.24								
31	5.66	5.81	5.94	6.22	6.49	6.75	6.88	7.01	7.26	7.51	7.75	7.99	8.22	8.44	8.66	8.88								
32	6.06	6.22	6.37	6.66	6.95	7.24	7.38	7.52	7.79	8.06	8.32	8.57	8.83	9.07	9.31	9.54								
33	6.48	6.64	6.80	7.12	7.43	7.74	7.89	8.04	8.33	8.62	8.91	9.18	9.45	9.72	9.98	10.23								
34	6.90	7.08	7.25	7.59	7.92	8.25	8.42	8.58	8.90	9.21	9.51	9.81	10.10	10.39	10.67	10.95								
35	7.35	7.53	7.72	8.08	8.44	8.79	8.97	9.14	9.48	9.81	10.14	10.46	10.78	11.09	11.39	11.69								
36	7.80	8.00	8.20	8.59	8.97	9.35	9.53	9.72	10.08	10.44	10.79	11.13	11.47	11.80	12.13	12.45								
37	8.27	8.48	8.69	9.11	9.51	9.92	10.11	10.31	10.70	11.08	11.46	11.82	12.19	12.54	12.89	13.23								
38	8.75	8.97	9.20	9.64	10.07	10.49	10.71	10.92	11.34	11.74	12.14	12.54	12.92	13.30	13.68	14.04								
39	9.24	9.48	9.72	10.19	10.65	11.11	11.33	11.55	11.96	12.33	12.69	13.07	13.45	13.82	14.19	14.55								
40	9.75	10.01	10.26	10.75	11.24	11.73	11.96	12.18	12.67	13.03	13.38	13.75	14.12	14.49	14.85	15.21								
41	10.28	10.54	10.81	11.33	11.85	12.36	12.61	12.86	13.36	13.73	14.09	14.45	14.80	15.17	15.52	15.87								
42	10.81	11.09	11.37	11.93	12.46	13.02	13.28	13.55	14.07	14.50	14.85	15.20	15.55	15.90	16.25	16.60								
43	11.36	11.66	11.95	12.54	13.12	13.69	13.97	14.25	14.80	15.25	15.60	15.95	16.30	16.65	17.00	17.35								
44	11.92	12.24	12.55	13.17	13.77	14.37	14.67	14.97	15.55	16.02	16.37	16.72	17.07	17.42	17.77	18.12								
45	12.50	12.83	13.16	13.81	14.45	15.08	15.39	15.70	16.31	16.78	17.14	17.50	17.85	18.20	18.55	18.90								
46	13.09	13.44	13.78	14.46	15.14	15.80	16.13	16.45	17.07	17.54	17.91	18.27	18.62	18.97	19.32	19.67								
47	13.69	14.06	14.42	15.13	15.84	16.54	16.88	17.22	17.85	18.32	18.69	19.04	19.39	19.74	20.09	20.44								
48	14.31	14.69	15.07	15.82	16.56	17.29	17.65	18.01	18.73	19.20	19.57	19.92	20.27	20.62	20.97	21.32								
49	14.95	15.34	15.74	16.52	17.30	18.06	18.44	18.82	19.57	20.04	20.41	20.76	21.11	21.46	21.81	22.16								
50	15.59	16.01	16.42	17.24	18.05	18.85	19.25	19.64	20.42	20.90	21.27	21.62	21.97	22.32	22.67	23.02								
51	16.25	16.68	17.12	17.97	18.82	19.66	20.07	20.48	21.30	21.78	22.15	22.50	22.85	23.20	23.55	23.90								
52	16.92	17.38	17.83	18.72	19.61	20.48	20.91	21.34	22.20	22.69	23.06	23.41	23.76	24.11	24.46	24.81								
53	17.61	18.08	18.55	19.48	20.40	21.32	21.77	22.22	23.13	23.64	24.02	24.37	24.72	25.07	25.42	25.77								
54	18.31	18.80	19.29	20.26	21.22	22.17	22.64	23.11	24.04	24.56	25.00	25.35	25.70	26.05	26.40	26.75								
55	19.02	19.53	20.04	21.05	22.05	23.04	23.54	24.02	24.99	25.52	25.98	26.33	26.68	27.03	27.38	27.73								
56	19.75	20.28	20.81	21.86	22.90	23.93	24.45	24.95	25.96	26.50	26.97	27.32	27.67	28.02	28.37	28.72								
57	20.49	21.04	21.59	22.69	23.77	24.84	25.37	25.90	26.95	27.50	27.97	28.32	28.67	29.02	29.37	29.72								
58	21.24	21.82	22.39	23.53	24.65	25.76	26.32	26.87	27.96	28.52	28.99	29.34	29.69	30.04	30.39	30.74								
59	22.01	22.61	23.20	24.38	25.55	26.70	27.28	27.85	28.98	29.55	30.03	30.38	30.73	31.08	31.43	31.78								
60	22.79	23.41	24.03	25.25	26.46	27.66	28.26	28.85	30.03	30.62	31.10	31.45	31.80	32.15	32.50	32.85								

* 1KIP=1000 POUNDS

Table 11.--Log weights for scaling lengths of 4 to 32 feet: density index = 38 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=38															
	SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.03	.04	.05	.06	.07	.08	.09	.09	.09	.10	.10	.10	.11	.11	.11	.11
7	.04	.06	.07	.09	.10	.11	.12	.13	.13	.14	.15	.15	.16	.16	.16	.17
8	.05	.07	.09	.11	.13	.15	.16	.17	.18	.19	.20	.21	.22	.23	.24	.24
9	.06	.09	.12	.15	.17	.19	.22	.23	.25	.27	.28	.30	.31	.32	.33	.33
10	.08	.12	.15	.19	.22	.25	.27	.29	.30	.32	.34	.36	.38	.40	.41	.42
11	.10	.14	.19	.23	.27	.30	.34	.35	.37	.40	.43	.46	.48	.50	.52	.54
12	.12	.17	.22	.27	.32	.37	.41	.43	.45	.49	.52	.56	.59	.62	.65	.67
13	.14	.20	.26	.32	.38	.43	.49	.51	.53	.58	.63	.67	.71	.74	.78	.81
14	.16	.24	.31	.38	.44	.51	.57	.60	.63	.69	.74	.79	.84	.88	.92	.97
15	.18	.27	.35	.44	.51	.59	.66	.70	.73	.80	.86	.92	.98	1.03	1.07	1.14
16	.21	.31	.41	.50	.59	.68	.76	.80	.84	.92	.99	1.06	1.13	1.20	1.26	1.32
17	.24	.35	.46	.57	.67	.77	.86	.91	.96	1.05	1.13	1.22	1.29	1.37	1.44	1.51
18	.27	.39	.52	.64	.75	.87	.98	1.03	1.08	1.18	1.28	1.38	1.47	1.56	1.64	1.72
19	.30	.44	.58	.71	.84	.97	1.09	1.15	1.21	1.33	1.44	1.55	1.65	1.76	1.85	1.95
20	.33	.49	.64	.79	.94	1.08	1.22	1.29	1.35	1.48	1.61	1.73	1.85	1.97	2.08	2.18
21	.36	.54	.71	.88	1.04	1.20	1.35	1.43	1.50	1.65	1.79	1.92	2.06	2.19	2.31	2.43
22	.40	.59	.78	.97	1.14	1.32	1.49	1.57	1.66	1.82	1.97	2.13	2.28	2.42	2.56	2.70
23	.44	.65	.86	1.06	1.26	1.45	1.64	1.73	1.82	2.00	2.17	2.34	2.51	2.67	2.82	2.97
24	.48	.71	.93	1.15	1.37	1.58	1.79	1.89	1.99	2.19	2.38	2.56	2.75	2.92	3.10	3.26
25	.52	.77	1.02	1.26	1.49	1.72	1.95	2.06	2.17	2.38	2.59	2.80	3.00	3.19	3.38	3.57
26	.56	.83	1.11	1.36	1.62	1.87	2.11	2.23	2.35	2.59	2.82	3.04	3.26	3.47	3.68	3.89
27	.61	.90	1.19	1.47	1.75	2.02	2.28	2.42	2.55	2.80	3.05	3.29	3.52	3.77	3.98	4.22
28	.65	.97	1.28	1.58	1.88	2.18	2.46	2.61	2.75	3.02	3.29	3.56	3.82	4.07	4.32	4.56
29	.70	1.04	1.37	1.70	2.02	2.34	2.65	2.80	2.95	3.25	3.54	3.83	4.11	4.39	4.66	4.92
30	.75	1.11	1.47	1.82	2.17	2.51	2.84	3.01	3.17	3.49	3.81	4.12	4.42	4.72	5.01	5.29
31	.80	1.19	1.57	1.95	2.32	2.68	3.04	3.22	3.39	3.74	4.08	4.41	4.74	5.06	5.37	5.68
32	.85	1.27	1.68	2.08	2.46	2.87	3.25	3.44	3.62	3.99	4.36	4.71	5.06	5.41	5.75	6.08
33	.91	1.35	1.79	2.20	2.61	3.05	3.46	3.66	3.86	4.26	4.65	5.03	5.40	5.77	6.13	6.49
34	.96	1.43	1.91	2.35	2.80	3.25	3.68	3.90	4.11	4.53	4.95	5.35	5.75	6.15	6.53	6.92
35	1.02	1.52	2.01	2.47	2.94	3.41	3.87	4.10	4.31	4.81	5.25	5.69	6.12	6.54	6.95	7.35
36	1.09	1.61	2.13	2.65	3.15	3.65	4.14	4.38	4.63	5.10	5.57	6.03	6.49	6.93	7.37	7.81
37	1.14	1.70	2.25	2.80	3.33	3.86	4.38	4.64	4.90	5.40	5.90	6.39	6.87	7.35	7.81	8.27
38	1.21	1.80	2.38	2.95	3.52	4.08	4.63	4.90	5.17	5.71	6.23	6.75	7.27	7.77	8.27	8.75
39	1.27	1.89	2.51	3.11	3.71	4.30	4.88	5.17	5.46	6.02	6.58	7.12	7.67	8.20	8.73	9.25
40	1.34	1.99	2.64	3.28	3.91	4.53	5.14	5.45	5.75	6.35	6.92	7.51	8.09	8.65	9.21	9.76
41	1.40	2.09	2.77	3.45	4.11	4.76	5.41	5.73	6.05	6.68	7.30	7.91	8.51	9.11	9.73	10.28
42	1.47	2.20	2.91	3.62	4.33	5.01	5.68	6.02	6.36	7.02	7.67	8.32	8.95	9.58	10.20	10.81
43	1.55	2.31	3.06	3.80	4.55	5.25	5.97	6.32	6.67	7.37	8.05	8.73	9.44	10.06	10.71	11.36
44	1.62	2.42	3.20	3.98	4.77	5.50	6.25	6.62	6.99	7.72	8.45	9.16	9.86	10.56	11.24	11.92
45	1.69	2.53	3.35	4.16	4.97	5.76	6.55	6.94	7.32	8.09	8.85	9.59	10.33	11.06	11.8	12.49
46	1.77	2.64	3.51	4.35	5.19	6.03	6.85	7.26	7.66	8.46	9.26	10.04	10.82	11.58	12.4	13.08
47	1.85	2.76	3.66	4.55	5.43	6.30	7.16	7.58	8.01	8.85	9.68	10.50	11.31	12.11	12.9	13.68
48	1.93	2.88	3.82	4.75	5.66	6.57	7.47	7.92	8.36	9.24	10.11	10.96	11.81	12.65	13.48	14.30
49	2.01	3.00	3.98	4.95	5.91	6.85	7.79	8.26	8.72	9.64	10.54	11.44	12.33	13.21	14.07	14.93
50	2.09	3.13	4.15	5.16	6.15	7.14	8.12	8.61	9.09	10.05	10.99	11.93	12.86	13.77	14.68	15.57
51	2.18	3.25	4.31	5.37	6.41	7.44	8.46	8.96	9.46	10.46	11.45	12.43	13.39	14.35	15.29	16.23
52	2.27	3.38	4.49	5.58	6.67	7.74	8.80	9.32	9.85	10.89	11.92	12.93	13.94	14.94	15.92	16.90
53	2.35	3.51	4.66	5.80	6.92	8.04	9.15	9.69	10.24	11.32	12.39	13.45	14.50	15.54	16.56	17.58
54	2.44	3.65	4.84	6.02	7.21	8.35	9.50	10.07	10.64	11.76	12.88	13.98	15.07	16.15	17.22	18.28
55	2.54	3.79	5.03	6.25	7.47	8.67	9.85	10.46	11.04	12.21	13.37	14.52	15.65	16.78	17.89	18.90
56	2.63	3.93	5.21	6.48	7.75	9.00	10.23	10.85	11.46	12.67	13.87	15.07	16.24	17.41	18.57	19.71
57	2.73	4.07	5.40	6.72	8.03	9.32	10.61	11.25	11.88	13.14	14.39	15.62	16.85	18.06	19.26	20.45
58	2.82	4.21	5.59	6.96	8.32	9.66	10.99	11.65	12.31	13.62	14.91	16.19	17.46	18.72	19.97	21.20
59	2.92	4.36	5.79	7.21	8.61	10.00	11.36	12.05	12.75	14.10	15.44	16.77	18.09	19.39	20.68	21.96
60	3.02	4.51	5.99	7.46	8.91	10.35	11.78	12.48	13.19	14.59	15.98	17.36	18.72	20.08	21.32	22.74

* 1KIP=1000 POUNDS

Table 12.--Log weights for scaling lengths of 34 to 60 feet: density Index = 38 pounds per cubic foot
[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=38																											
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																										
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60											
6	.11	.11	.10	.10	.10	.10	.10	.09	.09	.09	.08	.08	.07	.07	.06	.06											
7	.17	.17	.17	.17	.17	.17	.16	.16	.16	.16	.15	.15	.14	.14	.13	.13											
8	.24	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.23	.23	.22											
9	.34	.34	.34	.35	.35	.35	.36	.36	.36	.36	.36	.36	.35	.35	.34	.34											
10	.44	.45	.45	.46	.47	.48	.48	.49	.49	.49	.49	.49	.49	.49	.49	.48											
11	.56	.57	.58	.59	.61	.62	.62	.63	.64	.64	.65	.65	.65	.65	.65	.64											
12	.74	.74	.74	.74	.76	.77	.78	.79	.80	.81	.82	.83	.84	.84	.85	.85											
13	.84	.86	.87	.90	.92	.95	.96	.97	.99	1.00	1.02	1.03	1.04	1.05	1.06	1.07											
14	1.01	1.03	1.04	1.08	1.11	1.14	1.15	1.17	1.19	1.21	1.24	1.26	1.27	1.29	1.30	1.31											
15	1.18	1.21	1.23	1.27	1.31	1.35	1.37	1.38	1.42	1.45	1.48	1.50	1.53	1.55	1.57	1.58											
16	1.38	1.40	1.43	1.48	1.53	1.58	1.60	1.62	1.66	1.70	1.74	1.77	1.80	1.83	1.86	1.88											
17	1.58	1.61	1.65	1.71	1.77	1.82	1.85	1.88	1.93	1.97	2.02	2.06	2.10	2.14	2.17	2.20											
18	1.80	1.84	1.88	1.95	2.02	2.09	2.12	2.15	2.21	2.27	2.32	2.37	2.42	2.47	2.51	2.55											
19	2.04	2.08	2.13	2.21	2.29	2.37	2.40	2.44	2.51	2.58	2.64	2.71	2.76	2.82	2.87	2.92											
20	2.29	2.34	2.39	2.48	2.58	2.67	2.71	2.75	2.83	2.91	2.99	3.06	3.13	3.20	3.26	3.32											
21	2.55	2.61	2.66	2.77	2.88	2.98	3.03	3.08	3.18	3.27	3.36	3.44	3.52	3.60	3.67	3.74											
22	2.83	2.89	2.96	3.08	3.21	3.32	3.37	3.43	3.54	3.64	3.74	3.84	3.93	4.02	4.11	4.19											
23	3.12	3.19	3.26	3.40	3.54	3.67	3.73	3.80	3.92	4.04	4.15	4.26	4.37	4.47	4.57	4.67											
24	3.43	3.51	3.59	3.74	3.89	4.04	4.11	4.18	4.32	4.45	4.58	4.71	4.83	4.94	5.06	5.17											
25	3.75	3.84	3.93	4.10	4.26	4.43	4.51	4.58	4.74	4.89	5.02	5.17	5.31	5.44	5.57	5.69											
26	4.09	4.18	4.28	4.47	4.65	4.83	4.92	5.01	5.18	5.34	5.50	5.66	5.81	5.96	6.10	6.24											
27	4.44	4.54	4.65	4.86	5.06	5.26	5.35	5.45	5.64	5.82	6.00	6.17	6.34	6.50	6.66	6.82											
28	4.80	4.92	5.03	5.26	5.48	5.70	5.80	5.91	6.11	6.32	6.51	6.70	6.89	7.07	7.25	7.42											
29	5.18	5.31	5.43	5.68	5.92	6.16	6.27	6.39	6.61	6.83	7.05	7.28	7.46	7.66	7.85	8.04											
30	5.57	5.71	5.85	6.11	6.38	6.63	6.76	6.88	7.12	7.37	7.60	7.83	8.06	8.27	8.49	8.71											
31	5.98	6.13	6.28	6.57	6.85	7.13	7.26	7.40	7.67	7.93	8.18	8.43	8.67	8.91	9.15	9.37											
32	6.40	6.56	6.72	7.03	7.34	7.64	7.79	7.93	8.22	8.50	8.78	9.05	9.32	9.57	9.83	10.08											
33	6.84	7.01	7.18	7.52	7.85	8.17	8.33	8.48	8.80	9.10	9.44	9.69	9.98	10.26	10.53	10.80											
34	7.29	7.47	7.66	8.02	8.37	8.72	8.89	9.06	9.39	9.72	10.04	10.36	10.67	10.97	11.27	11.56											
35	7.75	7.95	8.15	8.53	8.91	9.28	9.47	9.65	10.01	10.36	10.70	11.04	11.38	11.70	12.02	12.34											
36	8.23	8.44	8.65	9.06	9.47	9.87	10.06	10.26	10.64	11.02	11.39	11.75	12.11	12.46	12.80	13.14											
37	8.73	8.95	9.17	9.61	10.04	10.47	10.68	10.88	11.29	11.67	12.09	12.49	12.86	13.24	13.61	13.97											
38	9.24	9.47	9.71	10.18	10.63	11.09	11.31	11.53	11.97	12.40	12.82	13.23	13.64	14.04	14.44	14.82											
39	9.76	10.01	10.26	10.76	11.24	11.72	11.98	12.23	12.66	13.12	13.57	14.01	14.44	14.87	15.29	15.73											
40	10.30	10.56	10.83	11.35	11.87	12.38	12.63	12.88	13.37	13.86	14.33	14.80	15.27	15.72	16.17	16.61											
41	10.85	11.13	11.41	11.96	12.51	13.05	13.32	13.58	14.10	14.62	15.13	15.62	16.11	16.60	17.07	17.54											
42	11.41	11.71	12.01	12.59	13.17	13.74	14.02	14.30	14.85	15.40	15.93	16.46	16.98	17.50	18.01	18.52											
43	11.99	12.31	12.62	13.24	13.85	14.45	14.74	15.04	15.62	16.20	16.77	17.32	17.88	18.42	18.95	19.48											
44	12.59	12.92	13.25	13.90	14.54	15.17	15.49	15.80	16.41	17.02	17.62	18.21	18.79	19.36	19.93	20.49											
45	13.20	13.54	13.89	14.57	15.25	15.92	16.25	16.57	17.22	17.86	18.49	19.11	19.73	20.33	20.93	21.52											
46	13.82	14.18	14.55	15.27	15.96	16.68	17.02	17.37	18.05	18.72	19.39	20.04	20.69	21.33	21.96	22.58											
47	14.46	14.84	15.22	15.98	16.72	17.46	17.82	18.18	18.90	19.61	20.30	20.98	21.67	22.34	22.98	23.62											
48	15.11	15.51	15.91	16.70	17.46	18.25	18.63	19.01	19.77	20.51	21.24	21.97	22.68	23.39	24.08	24.77											
49	15.74	16.20	16.61	17.44	18.26	19.07	19.47	19.86	20.65	21.43	22.19	22.96	23.71	24.45	25.18	25.90											
50	16.46	16.90	17.33	18.20	19.05	19.90	20.32	20.73	21.56	22.37	23.18	23.98	24.76	25.54	26.31	27.08											
51	17.15	17.61	18.07	18.97	19.86	20.75	21.19	21.62	22.48	23.32	24.18	25.01	25.84	26.65	27.45	28.25											
52	17.86	18.34	18.82	19.76	20.68	21.62	22.07	22.53	23.43	24.32	25.20	26.07	26.94	27.79	28.63	29.46											
53	18.59	19.09	19.58	20.57	21.54	22.50	22.97	23.45	24.39	25.33	26.25	27.16	28.06	28.95	29.82	30.69											
54	19.32	19.84	20.36	21.39	22.40	23.40	23.90	24.40	25.38	26.35	27.31	28.26	29.20	30.13	31.05	31.95											
55	20.08	20.62	21.16	22.22	23.28	24.33	24.84	25.36	26.38	27.39	28.40	29.39	30.37	31.34	32.29	33.24											
56	20.86	21.41	21.97	23.08	24.14	25.26	25.80	26.34	27.41	28.45	29.50	30.54	31.57	32.57	33.57	34.55											
57	21.65	22.21	22.79	23.95	25.05	26.22	26.78	27.34	28.43	29.49	30.53	31.54	32.57	33.62	34.66	35.69											
58	22.43	23.03	23.63	24.83	26.02	27.19	27.78	28.36	29.51	30.65	31.78	32.85	33.90	35.00	36.08	37.15											
59	23.23	23.86	24.48	25.73	26.97	28.19	28.79	29.40	30.59	31.78	32.93	34.11	35.28	36.40	37.53	38.64											
60	24.06	24.71	25.36	26.65	27.93	29.20	29.83	30.45	31.69	32.92	34.14	35.35	36.55	37.72	38.90	40.05											

Table 13.--Log weights for scaling lengths of 4 to 32 feet: density index = 40 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=40																SCALING LENGTH (FEET)			
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32				
6	.03	.04	.05	.06	.07	.08	.09	.09	.09	.10	.10	.11	.11	.11	.11	.11				
7	.04	.06	.08	.09	.10	.12	.13	.13	.14	.15	.15	.16	.17	.17	.17	.18				
8	.05	.08	.10	.12	.14	.16	.17	.18	.19	.20	.21	.22	.23	.24	.25	.25				
9	.07	.10	.13	.16	.19	.20	.23	.24	.25	.27	.28	.30	.31	.32	.34	.35				
10	.08	.12	.16	.20	.23	.26	.29	.30	.31	.34	.36	.38	.40	.42	.44	.45				
11	.10	.15	.20	.24	.28	.32	.35	.37	.39	.42	.45	.48	.51	.53	.55	.57				
12	.12	.18	.24	.29	.34	.38	.43	.45	.47	.51	.55	.59	.62	.65	.68	.71				
13	.14	.21	.28	.34	.40	.46	.51	.54	.56	.61	.66	.70	.74	.78	.82	.86				
14	.17	.25	.32	.40	.47	.54	.61	.63	.66	.72	.78	.83	.88	.93	.98	1.02				
15	.19	.29	.37	.46	.54	.62	.70	.73	.77	.84	.91	.97	1.03	1.09	1.14	1.20				
16	.22	.33	.43	.53	.62	.71	.80	.84	.88	.97	1.04	1.12	1.19	1.26	1.33	1.39				
17	.25	.37	.49	.60	.70	.81	.91	.96	1.01	1.10	1.19	1.29	1.36	1.44	1.52	1.59				
18	.28	.41	.54	.67	.79	.91	1.03	1.08	1.14	1.25	1.35	1.45	1.55	1.64	1.73	1.81				
19	.31	.46	.61	.75	.89	1.02	1.15	1.22	1.28	1.40	1.52	1.63	1.74	1.85	1.95	2.05				
20	.35	.51	.68	.83	.99	1.14	1.28	1.35	1.42	1.56	1.69	1.82	1.95	2.07	2.19	2.30				
21	.38	.57	.75	.92	1.09	1.26	1.42	1.50	1.58	1.73	1.88	2.03	2.17	2.30	2.43	2.56				
22	.42	.62	.82	1.02	1.21	1.39	1.57	1.66	1.74	1.91	2.08	2.24	2.40	2.55	2.71	2.84				
23	.46	.68	.90	1.11	1.32	1.52	1.72	1.82	1.91	2.10	2.29	2.46	2.64	2.81	2.97	3.13				
24	.50	.73	.98	1.22	1.44	1.66	1.88	1.99	2.09	2.30	2.50	2.70	2.89	3.08	3.26	3.44				
25	.53	.81	1.07	1.32	1.57	1.81	2.05	2.17	2.28	2.51	2.73	2.94	3.15	3.36	3.56	3.76				
26	.56	.84	1.16	1.43	1.70	1.97	2.22	2.35	2.48	2.72	2.96	3.20	3.43	3.66	3.88	4.09				
27	.64	.95	1.25	1.55	1.84	2.13	2.40	2.54	2.68	2.95	3.21	3.47	3.72	3.96	4.20	4.44				
28	.69	1.02	1.35	1.67	1.98	2.29	2.59	2.74	2.89	3.18	3.47	3.74	4.02	4.29	4.55	4.80				
29	.74	1.09	1.45	1.79	2.13	2.46	2.79	2.95	3.11	3.42	3.73	4.03	4.33	4.62	4.90	5.16				
30	.79	1.17	1.55	1.92	2.28	2.64	2.99	3.17	3.34	3.68	4.01	4.33	4.65	4.96	5.27	5.57				
31	.84	1.26	1.66	2.05	2.44	2.83	3.20	3.39	3.57	3.94	4.29	4.64	4.99	5.32	5.65	5.98				
32	.89	1.34	1.77	2.19	2.61	3.02	3.42	3.62	3.82	4.20	4.59	4.96	5.33	5.69	6.05	6.40				
33	.96	1.42	1.88	2.32	2.78	3.21	3.64	3.86	4.07	4.48	4.89	5.29	5.69	6.08	6.46	6.83				
34	1.01	1.51	2.00	2.46	2.95	3.42	3.88	4.10	4.32	4.77	5.21	5.63	6.06	6.47	6.83	7.28				
35	1.06	1.60	2.12	2.53	3.12	3.63	4.11	4.35	4.59	5.07	5.53	5.99	6.44	6.88	7.31	7.74				
36	1.14	1.70	2.24	2.78	3.32	3.84	4.36	4.62	4.87	5.37	5.86	6.35	6.83	7.30	7.76	8.22				
37	1.19	1.79	2.37	2.94	3.51	4.06	4.61	4.88	5.15	5.68	6.21	6.72	7.23	7.73	8.22	8.71				
38	1.27	1.89	2.50	3.11	3.71	4.29	4.87	5.16	5.44	6.01	6.56	7.11	7.65	8.18	8.70	9.21				
39	1.34	1.99	2.64	3.28	3.91	4.53	5.14	5.44	5.74	6.34	6.93	7.50	8.07	8.64	9.19	9.73				
40	1.41	2.10	2.78	3.45	4.11	4.77	5.41	5.73	6.05	6.68	7.30	7.91	8.51	9.11	9.69	10.27				
41	1.48	2.20	2.92	3.63	4.33	5.02	5.70	6.03	6.37	7.03	7.68	8.33	8.96	9.59	10.21	10.82				
42	1.55	2.31	3.07	3.81	4.54	5.27	5.98	6.34	6.69	7.39	8.07	8.75	9.40	10.08	10.74	11.38				
43	1.63	2.43	3.22	4.00	4.77	5.53	6.28	6.65	7.02	7.75	8.48	9.19	9.90	10.59	11.29	11.96				
44	1.70	2.54	3.37	4.19	5.00	5.79	6.58	6.97	7.36	8.13	8.89	9.64	10.38	11.11	11.83	12.55				
45	1.78	2.66	3.53	4.38	5.23	6.07	6.89	7.30	7.71	8.52	9.34	10.10	10.88	11.65	12.40	13.15				
46	1.86	2.78	3.69	4.58	5.47	6.34	7.21	7.64	8.06	8.91	9.74	10.57	11.38	12.19	12.99	13.77				
47	1.95	2.90	3.85	4.79	5.71	6.63	7.53	7.98	8.43	9.31	10.19	11.05	11.90	12.75	13.58	14.40				
48	2.03	3.03	4.02	5.00	5.95	6.92	7.86	8.33	8.80	9.72	10.64	11.54	12.44	13.32	14.19	15.05				
49	2.12	3.16	4.19	5.21	6.22	7.22	8.20	8.69	9.18	10.14	11.10	12.04	12.98	13.90	14.81	15.72				
50	2.23	3.29	4.36	5.43	6.48	7.52	8.55	9.06	9.57	10.57	11.57	12.56	13.53	14.50	15.45	16.39				
51	2.33	3.42	4.54	5.65	6.74	7.83	8.90	9.43	9.96	11.01	12.05	13.08	14.10	15.10	16.10	17.08				
52	2.43	3.56	4.72	5.88	7.02	8.14	9.26	9.81	10.37	11.46	12.54	13.61	14.67	15.72	16.76	17.79				
53	2.48	3.70	4.91	6.11	7.29	8.47	9.63	10.20	10.78	11.92	13.04	14.16	15.26	16.36	17.44	18.51				
54	2.57	3.84	5.10	6.34	7.57	8.79	10.00	10.60	11.20	12.38	13.55	14.71	15.96	17.09	18.13	19.24				
55	2.67	3.94	5.29	6.58	7.86	9.13	10.38	11.01	11.63	12.86	14.07	15.28	16.48	17.66	18.63	19.75				
56	2.72	4.13	5.49	6.83	8.15	9.47	10.77	11.42	12.06	13.34	14.60	15.86	17.10	18.33	19.54	20.75				
57	2.77	4.24	5.69	7.07	8.45	9.82	11.17	11.84	12.51	13.83	15.15	16.45	17.73	19.01	20.27	21.53				
58	2.87	4.43	5.89	7.33	8.75	10.17	11.57	12.26	12.96	14.33	15.69	17.04	18.33	19.71	21.02	22.32				
59	3.07	4.59	6.10	7.59	9.06	10.53	11.98	12.70	13.42	14.84	16.23	17.65	19.04	20.41	21.77	23.12				
60	3.16	4.75	6.31	7.85	9.38	10.89	12.40	13.14	13.88	15.36	16.82	18.27	19.71	21.13	22.54	23.94				

* 1KIP=1000 POUNDS

Table 14.--Log weights for scaling lengths of 34 to 60 feet: density index = 40 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=40																	SCALING LENGTH (FEET)																
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60		
6	.11	.11	.11	.11	.11	.10	.10	.10	.10	.09	.09	.08	.08	.07	.07	.06																		
7	.18	.18	.18	.18	.17	.17	.17	.17	.17	.16	.16	.15	.15	.15	.14	.13																		
8	.26	.26	.26	.26	.26	.26	.26	.26	.26	.25	.25	.25	.25	.24	.24	.23																		
9	.35	.35	.36	.37	.37	.37	.37	.38	.38	.38	.38	.37	.37	.37	.36	.36																		
10	.47	.48	.49	.49	.50	.50	.51	.51	.51	.51	.52	.52	.52	.52	.51	.51																		
11	.59	.60	.61	.62	.64	.65	.65	.66	.67	.67	.68	.68	.69	.69	.69	.69																		
12	.73	.74	.75	.78	.80	.81	.82	.83	.84	.85	.86	.87	.88	.89	.89	.89																		
13	.89	.90	.92	.95	.97	1.00	1.01	1.02	1.04	1.06	1.07	1.09	1.10	1.11	1.12	1.12																		
14	1.08	1.10	1.13	1.17	1.17	1.20	1.21	1.22	1.25	1.28	1.30	1.32	1.34	1.36	1.37	1.38																		
15	1.25	1.27	1.29	1.34	1.38	1.42	1.44	1.46	1.49	1.52	1.55	1.58	1.61	1.63	1.65	1.67																		
16	1.45	1.48	1.51	1.56	1.61	1.66	1.68	1.71	1.75	1.79	1.83	1.86	1.90	1.92	1.95	1.98																		
17	1.67	1.70	1.73	1.80	1.86	1.92	1.95	1.97	2.03	2.08	2.12	2.17	2.21	2.25	2.28	2.32																		
18	1.93	1.94	1.98	2.05	2.13	2.20	2.23	2.26	2.33	2.39	2.44	2.48	2.52	2.56	2.60	2.64																		
19	2.14	2.19	2.24	2.33	2.41	2.49	2.53	2.57	2.64	2.72	2.78	2.85	2.91	2.97	3.02	3.08																		
20	2.41	2.46	2.51	2.61	2.71	2.81	2.85	2.90	2.98	3.07	3.15	3.22	3.30	3.37	3.43	3.49																		
21	2.69	2.75	2.80	2.92	3.03	3.14	3.19	3.24	3.34	3.44	3.53	3.62	3.71	3.79	3.87	3.94																		
22	2.98	3.05	3.11	3.24	3.37	3.49	3.55	3.61	3.72	3.83	3.94	4.04	4.14	4.23	4.32	4.41																		
23	3.29	3.36	3.44	3.58	3.72	3.86	3.93	4.00	4.12	4.25	4.37	4.49	4.60	4.71	4.81	4.91																		
24	3.61	3.69	3.78	3.94	4.10	4.25	4.33	4.45	4.58	4.73	4.85	4.95	5.08	5.20	5.32	5.44																		
25	3.95	4.04	4.13	4.31	4.49	4.66	4.74	4.83	4.96	5.11	5.20	5.34	5.44	5.59	5.73	5.89																		
26	4.30	4.40	4.50	4.70	4.90	5.08	5.18	5.27	5.45	5.62	5.79	5.96	6.12	6.27	6.42	6.57																		
27	4.67	4.78	4.89	5.11	5.32	5.53	5.63	5.74	5.95	6.13	6.31	6.50	6.67	6.84	7.01	7.17																		
28	5.05	5.18	5.30	5.54	5.77	6.00	6.11	6.22	6.44	6.65	6.85	7.06	7.25	7.44	7.63	7.81																		
29	5.45	5.58	5.72	5.98	6.23	6.48	6.60	6.72	6.95	7.19	7.42	7.64	7.85	8.06	8.27	8.47																		
30	5.87	6.01	6.15	6.44	6.71	6.99	7.11	7.25	7.50	7.76	8.00	8.25	8.48	8.71	8.93	9.15																		
31	6.29	6.45	6.61	6.91	7.21	7.50	7.65	7.85	8.07	8.34	8.61	8.87	9.13	9.38	9.63	9.87																		
32	6.74	6.91	7.07	7.40	7.72	8.04	8.20	8.35	8.65	8.95	9.24	9.53	9.81	10.08	10.34	10.61																		
33	7.20	7.38	7.56	7.91	8.26	8.60	8.76	8.93	9.26	9.58	9.90	10.20	10.50	10.80	11.09	11.37																		
34	7.67	7.87	8.06	8.44	8.81	9.18	9.36	9.53	9.89	10.23	10.57	10.90	11.23	11.55	11.86	12.16																		
35	8.16	8.37	8.57	8.96	9.33	9.77	9.96	10.16	10.53	10.89	11.27	11.62	11.97	12.32	12.65	12.98																		
36	8.67	8.89	9.11	9.54	9.97	10.39	10.59	10.80	11.20	11.60	11.99	12.37	12.75	13.11	13.48	13.82																		
37	9.19	9.42	9.66	10.12	10.57	11.02	11.24	11.46	11.89	12.31	12.73	13.14	13.54	13.94	14.32	14.70																		
38	9.72	9.97	10.22	10.71	11.15	11.67	11.90	12.14	12.60	13.05	13.49	13.93	14.36	14.78	15.20	15.60																		
39	10.27	10.54	10.80	11.32	11.75	12.34	12.59	12.84	13.33	13.81	14.29	14.75	15.20	15.65	16.10	16.53																		
40	10.84	11.12	11.40	11.95	12.43	13.04	13.29	13.56	14.07	14.59	15.09	15.58	16.07	16.55	17.02	17.46																		
41	11.42	11.71	12.01	12.59	13.17	13.74	14.01	14.29	14.84	15.39	15.92	16.44	16.96	17.47	17.97	18.46																		
42	12.01	12.33	12.64	13.25	13.85	14.46	14.76	15.05	15.63	16.21	16.77	17.33	17.88	18.42	18.95	19.47																		
43	12.62	12.95	13.28	13.93	14.57	15.21	15.52	15.83	16.44	17.05	17.65	18.24	18.82	19.39	19.95	20.50																		
44	13.25	13.59	13.94	14.62	15.30	15.97	16.29	16.63	17.28	17.89	18.50	19.12	19.72	20.30	20.88	21.45																		
45	13.89	14.26	14.62	15.34	16.05	16.75	17.10	17.45	18.13	18.80	19.47	20.12	20.77	21.40	22.02	22.65																		
46	14.55	14.93	15.31	16.07	16.82	17.56	17.95	18.33	19.05	19.74	20.48	21.19	21.88	22.55	23.17	23.77																		
47	15.22	15.62	16.02	16.82	17.62	18.37	18.76	19.14	19.89	20.64	21.37	22.10	22.81	23.52	24.22	24.91																		
48	15.91	16.33	16.75	17.58	18.41	19.21	19.61	20.01	20.81	21.59	22.36	23.12	23.87	24.62	25.35	26.07																		
49	16.61	17.05	17.49	18.36	19.22	20.07	20.49	20.91	21.75	22.55	23.35	24.12	24.86	25.74	26.51	27.27																		
50	17.32	17.79	18.24	19.16	20.06	20.95	21.39	21.82	22.69	23.55	24.40	25.24	26.07	26.88	27.69	28.49																		
51	18.06	18.54	19.02	19.97	20.91	21.84	22.30	22.74	23.67	24.57	25.45	26.33	27.20	28.05	28.90	29.73																		
52	18.80	19.31	19.81	20.81	21.78	22.75	23.23	23.67	24.66	25.61	26.55	27.45	28.35	29.25	30.13	31.01																		

Table 15.--Log weights for scaling lengths of 4 to 32 feet: density index = 42 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=42																SCALING LENGTH (FEET)																
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	
6	.03	.04	.06	.07	.08	.09	.09	.10	.10	.10	.11	.11	.11	.12	.12	.12																	
7	.04	.06	.08	.09	.11	.12	.13	.14	.14	.15	.16	.17	.17	.18	.18	.18																	
8	.06	.08	.10	.13	.15	.17	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27																	
9	.07	.10	.12	.16	.19	.22	.24	.25	.26	.28	.30	.31	.33	.34	.35	.36																	
10	.09	.13	.17	.20	.24	.27	.30	.32	.33	.36	.38	.40	.42	.44	.46	.47																	
11	.11	.16	.21	.25	.29	.33	.37	.39	.41	.44	.47	.50	.53	.56	.58	.60																	
12	.13	.19	.25	.30	.35	.40	.45	.47	.50	.54	.58	.62	.65	.68	.71	.74																	
13	.15	.22	.29	.36	.42	.48	.54	.56	.59	.64	.69	.74	.78	.82	.86	.90																	
14	.18	.26	.34	.42	.49	.56	.63	.66	.70	.76	.82	.87	.93	.98	1.02	1.07																	
15	.20	.30	.39	.48	.57	.65	.73	.77	.81	.88	.95	1.02	1.08	1.14	1.21	1.26																	
16	.23	.34	.45	.55	.65	.75	.84	.88	.93	1.01	1.10	1.17	1.25	1.32	1.39	1.46																	
17	.26	.39	.51	.63	.74	.85	.96	1.06	1.14	1.26	1.31	1.42	1.52	1.60	1.67	1.72																	
18	.29	.44	.57	.70	.83	.96	1.08	1.19	1.29	1.41	1.52	1.63	1.74	1.82	1.91	1.97																	
19	.33	.49	.64	.79	.93	1.07	1.21	1.29	1.34	1.47	1.59	1.71	1.83	1.94	2.05	2.15																	
20	.36	.54	.71	.88	1.04	1.20	1.35	1.42	1.50	1.64	1.78	1.91	2.05	2.17	2.29	2.41																	
21	.40	.60	.79	1.07	1.18	1.32	1.49	1.58	1.66	1.82	1.98	2.13	2.27	2.42	2.56	2.69																	
22	.44	.66	.86	1.17	1.27	1.46	1.65	1.74	1.82	2.01	2.18	2.35	2.52	2.68	2.82	2.98																	
23	.48	.72	.95	1.28	1.36	1.60	1.81	1.91	2.01	2.21	2.40	2.59	2.77	2.95	3.12	3.29																	
24	.53	.79	1.03	1.38	1.51	1.75	1.98	2.09	2.20	2.42	2.63	2.83	3.03	3.22	3.42	3.61																	
25	.57	.85	1.12	1.50	1.65	1.90	2.13	2.27	2.39	2.62	2.85	3.09	3.31	3.53	3.74	3.94																	
26	.62	.92	1.22	1.63	1.79	2.06	2.30	2.47	2.60	2.86	3.11	3.36	3.60	3.84	4.07	4.30																	
27	.67	.99	1.31	1.75	1.93	2.23	2.52	2.67	2.81	3.09	3.37	3.64	3.90	4.16	4.41	4.64																	
28	.72	1.07	1.41	1.87	2.06	2.41	2.72	2.89	3.03	3.34	3.64	3.92	4.22	4.50	4.77	5.04																	
29	.77	1.15	1.52	1.98	2.18	2.59	2.93	3.10	3.27	3.59	3.92	4.23	4.55	4.85	5.15	5.44																	
30	.83	1.23	1.63	2.12	2.33	2.77	3.14	3.32	3.50	3.86	4.21	4.53	4.87	5.19	5.53	5.85																	
31	.88	1.32	1.74	2.26	2.48	2.97	3.36	3.56	3.75	4.13	4.51	4.87	5.23	5.59	5.93	6.28																	
32	.94	1.40	1.86	2.40	2.64	3.17	3.59	3.80	4.01	4.41	4.82	5.21	5.60	5.98	6.35	6.72																	
33	1.00	1.49	1.97	2.55	2.80	3.37	3.82	4.05	4.27	4.71	5.14	5.56	5.97	6.38	6.78	7.17																	
34	1.07	1.58	2.10	2.70	3.01	3.59	4.07	4.31	4.54	5.01	5.47	5.92	6.34	6.74	7.12	7.50																	
35	1.13	1.68	2.23	2.86	3.19	3.81	4.32	4.57	4.82	5.31	5.79	6.29	6.76	7.22	7.68	8.13																	
36	1.20	1.78	2.35	3.00	3.36	4.03	4.58	4.85	5.11	5.64	6.16	6.67	7.17	7.66	8.15	8.63																	
37	1.26	1.88	2.49	3.09	3.48	4.27	4.84	5.13	5.41	5.97	6.52	7.06	7.59	8.12	8.64	9.14																	
38	1.33	1.99	2.63	3.26	3.68	4.51	5.12	5.42	5.72	6.31	6.89	7.46	8.03	8.59	9.14	9.68																	
39	1.40	2.09	2.77	3.44	3.90	4.75	5.40	5.71	6.03	6.66	7.27	7.88	8.48	9.07	9.65	10.22																	
40	1.48	2.20	2.92	3.62	4.12	5.01	5.68	6.02	6.35	7.01	7.66	8.31	8.94	9.56	10.18	10.78																	
41	1.55	2.31	3.07	3.81	4.34	5.27	5.98	6.33	6.68	7.38	8.07	8.74	9.41	10.07	10.72	11.36																	
42	1.63	2.43	3.22	4.00	4.57	5.53	6.28	6.66	7.02	7.76	8.48	9.19	9.89	10.59	11.27	11.95																	
43	1.71	2.55	3.38	4.20	4.81	5.80	6.59	6.98	7.37	8.14	8.90	9.65	10.39	11.07	11.74	12.45																	
44	1.79	2.67	3.54	4.40	5.05	6.08	6.91	7.32	7.73	8.54	9.33	10.12	10.86	11.57	12.28	13.03																	
45	1.87	2.79	3.70	4.60	5.29	6.37	7.24	7.67	8.09	8.94	9.78	10.60	11.42	12.23	13.02	13.81																	
46	1.96	2.92	3.87	4.81	5.54	6.66	7.57	8.02	8.47	9.35	10.23	11.10	11.95	12.80	13.63	14.46																	
47	2.04	3.05	4.04	5.03	5.80	6.96	7.91	8.38	8.85	9.79	10.70	11.60	12.50	13.39	14.26	15.12																	
48	2.13	3.18	4.22	5.25	6.06	7.26	8.26	8.75	9.24	10.21	11.17	12.12	13.06	13.98	14.90	15.81																	
49	2.22	3.32	4.40	5.47	6.32	7.56	8.61	9.12	9.64	10.65	11.65	12.65	13.63	14.60	15.55	16.50																	
50	2.31	3.45	4.58	5.70	6.60	7.89	8.98	9.51	10.05	11.10	12.15	13.19	14.21	15.22	16.22	17.21																	
51	2.41	3.59	4.77	5.93	6.88	8.22	9.35	9.90	10.46	11.56	12.65	13.73	14.80	15.86	16.90	17.94																	
52	2.50	3.74	4.96	6.17	7.17	8.55	9.72	10.29	10.87	11.99	13.17	14.30	15.41	16.51	17.60	18.68																	
53	2.59	3.88	5.15	6.41	7.45	8.88	10.11	10.71	11.32	12.51	13.70	14.87	16.03	17.17	18.31	19.43																	
54	2.70	4.03	5.35	6.66	7.75	9.22	10.50	11.13	11.76	13.00	14.23	15.45	16.66	17.85	19.03	20.20																	
55	2.81	4.19	5.56	6.91	8.04	9.5																											

Table 16.--Log weights for scaling lengths of 34 to 60 feet: density index = 42 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=42														
	SCALING LENGTH (FEET)														
	34	35	36	40	42	43	44	46	48	50	52	54	56	58	60
6	.12	.12	.11	.11	.11	.11	.10	.10	.10	.09	.08	.08	.07	.07	.07
7	.19	.19	.18	.18	.18	.18	.17	.17	.17	.16	.16	.15	.15	.14	.14
8	.27	.27	.26	.26	.26	.26	.25	.25	.25	.24	.23	.23	.22	.22	.21
9	.37	.37	.36	.36	.36	.35	.34	.34	.34	.33	.32	.31	.30	.29	.28
10	.49	.49	.48	.48	.48	.47	.46	.46	.45	.44	.43	.42	.41	.40	.39
11	.62	.63	.64	.65	.67	.68	.69	.70	.71	.72	.72	.72	.72	.72	.72
12	.77	.79	.81	.83	.85	.86	.87	.88	.89	.91	.92	.92	.93	.93	.94
13	.93	.95	.96	.98	1.02	1.05	1.07	1.09	1.11	1.13	1.14	1.15	1.16	1.17	1.18
14	1.11	1.13	1.15	1.19	1.23	1.27	1.29	1.32	1.34	1.37	1.39	1.41	1.42	1.44	1.45
15	1.31	1.33	1.36	1.41	1.46	1.51	1.53	1.57	1.60	1.63	1.66	1.69	1.71	1.73	1.75
16	1.52	1.55	1.58	1.64	1.69	1.74	1.77	1.84	1.88	1.92	1.96	1.99	2.02	2.03	2.04
17	1.75	1.78	1.82	1.89	1.95	2.01	2.04	2.13	2.18	2.23	2.28	2.32	2.36	2.40	2.43
18	1.99	2.03	2.08	2.16	2.23	2.31	2.34	2.44	2.50	2.56	2.62	2.68	2.73	2.77	2.82
19	2.25	2.30	2.35	2.44	2.53	2.62	2.70	2.79	2.85	2.92	2.99	3.06	3.12	3.17	3.23
20	2.53	2.58	2.64	2.74	2.83	2.93	3.04	3.13	3.22	3.30	3.38	3.46	3.53	3.60	3.67
21	2.82	2.88	2.94	3.07	3.18	3.30	3.41	3.51	3.61	3.71	3.80	3.89	3.98	4.06	4.14
22	3.13	3.20	3.27	3.41	3.54	3.67	3.78	3.91	4.03	4.14	4.24	4.35	4.45	4.54	4.63
23	3.45	3.53	3.61	3.76	3.91	4.06	4.19	4.32	4.46	4.59	4.71	4.83	4.94	5.05	5.16
24	3.79	3.88	3.97	4.14	4.31	4.46	4.59	4.72	4.85	4.97	5.10	5.23	5.34	5.46	5.57
25	4.14	4.24	4.34	4.53	4.71	4.89	5.07	5.24	5.40	5.56	5.72	5.87	6.01	6.15	6.29
26	4.52	4.62	4.73	4.94	5.14	5.34	5.53	5.74	5.91	6.08	6.26	6.42	6.59	6.74	6.90
27	4.90	5.02	5.14	5.37	5.59	5.81	6.02	6.23	6.43	6.62	6.82	7.01	7.19	7.36	7.53
28	5.30	5.43	5.56	5.81	6.04	6.26	6.47	6.68	6.88	7.20	7.41	7.61	7.81	8.01	8.20
29	5.72	5.86	6.00	6.28	6.54	6.80	7.06	7.31	7.55	7.79	8.02	8.25	8.47	8.68	8.89
30	6.16	6.31	6.46	6.76	7.03	7.33	7.61	7.88	8.14	8.40	8.66	8.90	9.15	9.38	9.61
31	6.61	6.77	6.94	7.26	7.57	7.88	8.18	8.47	8.76	9.04	9.32	9.59	9.85	10.11	10.36
32	7.08	7.25	7.43	7.77	8.11	8.44	8.77	9.09	9.40	9.70	10.00	10.28	10.58	10.86	11.14
33	7.56	7.75	7.94	8.31	8.67	9.03	9.38	9.72	10.06	10.39	10.71	11.03	11.34	11.64	11.94
34	8.06	8.25	8.46	8.86	9.21	9.57	9.91	10.25	10.58	10.91	11.23	11.55	11.87	12.17	12.47
35	8.57	8.77	8.99	9.40	9.76	10.12	10.46	10.80	11.13	11.45	11.76	12.07	12.38	12.68	12.97
36	9.10	9.32	9.56	10.02	10.40	10.76	11.10	11.43	11.76	12.08	12.39	12.69	12.99	13.28	13.57
37	9.65	9.89	10.14	10.62	11.00	11.36	11.70	12.03	12.35	12.66	12.96	13.26	13.55	13.84	14.12
38	10.21	10.47	10.73	11.23	11.60	11.96	12.29	12.61	12.92	13.22	13.51	13.80	14.08	14.36	14.64
39	10.79	11.06	11.34	11.89	12.26	12.62	12.94	13.25	13.55	13.84	14.13	14.41	14.69	14.96	15.23
40	11.38	11.67	11.97	12.55	12.92	13.28	13.59	13.89	14.18	14.46	14.74	15.01	15.28	15.54	15.80
41	11.99	12.30	12.61	13.22	13.59	13.96	14.23	14.49	14.74	15.00	15.25	15.50	15.74	15.98	16.22
42	12.61	12.94	13.27	13.92	14.30	14.67	14.93	15.19	15.44	15.68	15.92	16.16	16.40	16.63	16.86
43	13.26	13.60	13.95	14.63	15.01	15.38	15.64	15.90	16.16	16.41	16.65	16.89	17.12	17.35	17.58
44	13.91	14.28	14.64	15.36	15.74	16.11	16.37	16.63	16.88	17.12	17.36	17.59	17.81	18.03	18.25
45	14.59	14.97	15.35	16.11	16.49	16.86	17.12	17.37	17.61	17.85	18.08	18.31	18.53	18.75	18.96
46	15.27	15.68	16.08	16.87	17.24	17.61	17.87	18.11	18.35	18.58	18.81	19.03	19.25	19.46	19.67
47	15.98	16.40	16.82	17.63	18.00	18.36	18.62	18.87	19.11	19.34	19.57	19.79	20.01	20.22	20.43
48	16.70	17.14	17.58	18.46	18.82	19.17	19.42	19.66	19.89	20.11	20.33	20.55	20.76	20.97	21.18
49	17.44	17.90	18.35	19.26	19.61	19.95	20.19	20.42	20.64	20.86	21.07	21.28	21.48	21.68	21.88
50	18.19	18.67	19.16	20.11	20.45	20.79	21.02	21.24	21.45	21.66	21.86	22.06	22.25	22.44	22.63
51	18.96	19.46	19.97	20.97	21.30	21.63	21.85	22.06	22.26	22.46	22.65	22.84	23.03	23.21	23.39
52	19.74	20.27	20.80	21.84	22.17	22.49	22.70	22.90	23.09	23.28	23.46	23.64	23.81	23.98	24.15
53	20.54	21.09	21.64	22.72	23.04	23.35	23.55	23.74	23.92	24.10	24.28	24.45	24.62	24.78	24.94
54	21.36	21.93	22.50	23.64	23.95	24.25	24.44	24.62	24.80	24.97	25.14	25.31	25.47	25.63	25.79
55	22.19	22.79	23.38	24.56	24.86	25.15	25.33	25.51	25.68	25.84	26.00	26.16	26.32	26.47	26.62
56	23.04	23.66	24.28	25.51	25.80	26.08	26.25	26.42	26.58	26.74	26.89	27.04	27.19	27.33	27.47
57	23.90	24.55	25.19	26.47	26.75	27.02	27.18	27.34	27.49	27.64	27.78	27.92	28.06	28.19	28.32
58	24.78	25.45	26.12	27.45	27.72	28.00	28.15	28.30	28.44	28.58	28.71	28.84	28.97	29.10	29.22
59	25.68	26.37	27.07	28.44	28.70	29.00	29.14	29.28	29.41	29.54	29.66	29.78	29.90	30.01	30.12
60	26.59	27.31	28.03	29.44	29.69	30.00	30.13	30.26	30.38	30.50	30.61	30.72	30.83	30.93	31.03

* 1KIP=1000 POUNDS

Table 17.--Log weights for scaling lengths of 4 to 32 feet: density index = 44 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=44																																		
SCALING LENGTH (FEET)																																		
LARGE END DIAMETER (INCHES)	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	LARGE END DIAMETER (INCHES)	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	
6	.03	.05	.06	.07	.08	.09	.10	.10	.10	.11	.11	.12	.12	.12	.12	.12	7	.03	.05	.06	.07	.08	.09	.10	.10	.10	.11	.11	.12	.12	.12	.12	12	
7	.04	.06	.08	.10	.11	.13	.14	.15	.15	.16	.17	.18	.18	.19	.19	.19	13	.04	.06	.08	.10	.11	.13	.14	.15	.15	.16	.17	.18	.18	.19	.19	.19	17
8	.06	.09	.11	.13	.15	.17	.19	.20	.21	.22	.23	.25	.26	.26	.27	.28	14	.06	.09	.11	.13	.15	.17	.19	.20	.21	.22	.23	.25	.26	.27	.28	.28	20
9	.07	.11	.14	.17	.21	.23	.25	.26	.27	.29	.31	.33	.34	.36	.37	.38	15	.07	.11	.14	.17	.21	.23	.25	.26	.27	.29	.31	.33	.34	.36	.37	.38	24
10	.09	.14	.18	.21	.25	.28	.32	.33	.35	.37	.40	.42	.44	.46	.48	.50	16	.09	.14	.18	.21	.25	.28	.32	.33	.35	.37	.40	.42	.44	.46	.48	.50	28
11	.11	.17	.22	.26	.31	.35	.39	.41	.43	.46	.50	.53	.56	.58	.61	.63	17	.11	.17	.22	.26	.31	.35	.39	.41	.43	.46	.50	.53	.56	.58	.61	.63	32
12	.14	.20	.26	.32	.37	.42	.47	.50	.52	.56	.61	.64	.68	.72	.75	.78	18	.14	.20	.26	.32	.37	.42	.47	.50	.52	.56	.61	.64	.68	.72	.75	.78	36
13	.16	.23	.31	.37	.44	.50	.56	.59	.62	.67	.72	.77	.82	.86	.90	.94	19	.16	.23	.31	.37	.44	.50	.56	.59	.62	.67	.72	.77	.82	.86	.90	.94	40
14	.19	.27	.36	.44	.51	.59	.66	.69	.73	.79	.86	.91	.97	1.02	1.07	1.12	20	.19	.27	.36	.44	.51	.59	.66	.69	.73	.79	.86	.91	.97	1.02	1.07	1.12	44
15	.21	.31	.41	.51	.60	.68	.77	.81	.85	.92	1.00	1.07	1.13	1.20	1.26	1.32	21	.21	.31	.41	.51	.60	.68	.77	.81	.85	.92	1.00	1.07	1.13	1.20	1.26	1.32	48
16	.24	.36	.47	.58	.68	.78	.88	.93	.97	1.06	1.15	1.23	1.31	1.39	1.46	1.53	22	.24	.36	.47	.58	.68	.78	.88	.93	.97	1.06	1.15	1.23	1.31	1.39	1.46	1.53	52
17	.27	.41	.53	.66	.77	.89	1.00	1.05	1.11	1.21	1.31	1.41	1.50	1.59	1.67	1.75	23	.27	.41	.53	.66	.77	.89	1.00	1.05	1.11	1.21	1.31	1.41	1.50	1.59	1.67	1.75	56
18	.31	.46	.60	.74	.87	1.00	1.13	1.19	1.25	1.37	1.48	1.59	1.70	1.80	1.90	2.00	24	.31	.46	.60	.74	.87	1.00	1.13	1.19	1.25	1.37	1.48	1.59	1.70	1.80	1.90	2.00	60
19	.34	.51	.67	.83	.98	1.12	1.27	1.34	1.41	1.54	1.67	1.79	1.92	2.03	2.15	2.25	25	.34	.51	.67	.83	.98	1.12	1.27	1.34	1.41	1.54	1.67	1.79	1.92	2.03	2.15	2.25	64
20	.38	.57	.74	.92	1.08	1.25	1.41	1.49	1.57	1.72	1.86	2.01	2.14	2.28	2.40	2.52	26	.38	.57	.74	.92	1.08	1.25	1.41	1.49	1.57	1.72	1.86	2.01	2.14	2.28	2.40	2.52	68
21	.42	.62	.82	1.02	1.20	1.39	1.56	1.65	1.74	1.91	2.07	2.23	2.38	2.53	2.68	2.82	27	.42	.62	.82	1.02	1.20	1.39	1.56	1.65	1.74	1.91	2.07	2.23	2.38	2.53	2.68	2.82	72
22	.46	.69	.91	1.12	1.33	1.53	1.73	1.82	1.92	2.10	2.29	2.46	2.64	2.80	2.97	3.12	28	.46	.69	.91	1.12	1.33	1.53	1.73	1.82	1.92	2.10	2.29	2.46	2.64	2.80	2.97	3.12	76
23	.51	.75	.99	1.23	1.45	1.68	1.89	2.00	2.11	2.31	2.51	2.71	2.90	3.09	3.27	3.44	29	.51	.75	.99	1.23	1.45	1.68	1.89	2.00	2.11	2.31	2.51	2.71	2.90	3.09	3.27	3.44	80
24	.55	.82	1.08	1.34	1.59	1.83	2.07	2.19	2.30	2.53	2.75	2.97	3.18	3.38	3.57	3.76	30	.55	.82	1.08	1.34	1.59	1.83	2.07	2.19	2.30	2.53	2.75	2.97	3.18	3.38	3.57	3.76	84
25	.60	.89	1.18	1.45	1.73	1.99	2.25	2.38	2.51	2.76	3.00	3.24	3.47	3.70	3.92	4.13	31	.60	.89	1.18	1.45	1.73	1.99	2.25	2.38	2.51	2.76	3.00	3.24	3.47	3.70	3.92	4.13	88
26	.65	.96	1.27	1.58	1.87	2.16	2.45	2.59	2.72	3.00	3.26	3.52	3.77	4.02	4.26	4.50	32	.65	.96	1.27	1.58	1.87	2.16	2.45	2.59	2.72	3.00	3.26	3.52	3.77	4.02	4.26	4.50	92
27	.70	1.04	1.38	1.70	2.02	2.34	2.65	2.80	2.95	3.24	3.53	3.81	4.09	4.36	4.63	4.88	33	.70	1.04	1.38	1.70	2.02	2.34	2.65	2.80	2.95	3.24	3.53	3.81	4.09	4.36	4.63	4.88	96
28	.75	1.12	1.48	1.83	2.18	2.52	2.85	3.02	3.18	3.50	3.81	4.12	4.42	4.71	5.00	5.28	34	.75	1.12	1.48	1.83	2.18	2.52	2.85	3.02	3.18	3.50	3.81	4.12	4.42	4.71	5.00	5.28	100
29	.81	1.20	1.59	1.97	2.34	2.71	3.07	3.25	3.42	3.77	4.10	4.44	4.76	5.08	5.39	5.68	35	.81	1.20	1.59	1.97	2.34	2.71	3.07	3.25	3.42	3.77	4.10	4.44	4.76	5.08	5.39	5.68	104
30	.87	1.29	1.70	2.11	2.51	2.91	3.29	3.48	3.67	4.04	4.41	4.77	5.12	5.46	5.80	6.13	36	.87	1.29	1.70	2.11	2.51	2.91	3.29	3.48	3.67	4.04	4.41	4.77	5.12	5.46	5.80	6.13	108
31	.93	1.39	1.82	2.26	2.69	3.11	3.52	3.73	3.92	4.33	4.72	5.11	5.48	5.85	6.22	6.57	37	.93	1.39	1.82	2.26	2.69	3.11	3.52	3.73	3.92	4.33	4.72	5.11	5.48	5.85	6.22	6.57	112
32	.99	1.47	1.94	2.41	2.87	3.32	3.76	3.98	4.20	4.63	5.05	5.46	5.86	6.26	6.65	7.04	38	.99	1.47	1.94	2.41	2.87	3.32	3.76	3.98	4.20	4.63	5.05	5.46	5.86	6.26	6.65	7.04	116
33	1.05	1.56	2.07	2.57	3.05	3.54	4.01	4.24	4.47	4.93	5.38	5.82	6.26	6.68	7.10	7.51	39	1.05	1.56	2.07	2.57	3.05	3.54	4.01	4.24	4.47	4.93	5.38	5.82	6.26	6.68	7.10	7.51	120
34	1.12	1.66	2.20	2.73	3.21	3.76	4.26	4.51	4.74	5.25	5.73	6.20	6.66	7.12	7.57	8.01	40	1.12	1.66	2.20	2.73	3.21	3.76	4.26	4.51	4.74	5.25	5.73	6.20	6.66	7.12	7.57	8.01	124
35	1.18	1.76	2.33	2.89	3.45	3.99	4.52	4.79	5.05	5.57	6.08	6.59	7.08	7.57	8.05	8.52	41	1.18	1.76	2.33	2.89	3.45	3.99	4.52	4.79	5.05	5.57	6.08	6.59	7.08	7.57	8.05	8.52	128
36	1.25	1.86	2.47	3.06	3.65	4.23	4.80	5.08	5.34	5.91	6.45	6.99	7.51	8.03	8.54	9.04	42	1.25	1.86	2.47	3.06	3.65	4.23	4.80	5.08	5.34	5.91	6.45	6.99	7.51	8.03	8.54	9.04	132
37	1.32	1.97	2.61	3.24	3.88	4.47	5.07	5.37	5.67	6.25	6.83	7.40	7.96	8.51	9.05	9.58	43	1.32	1.97	2.61	3.24	3.88	4.47	5.07	5.37	5.67	6.25	6.83	7.40	7.96	8.51	9.05	9.58	136
38	1.40	2.08	2.75	3.42	4.08	4.72	5.36	5.68	5.99	6.61	7.22	7.82	8.41	9.00	9.57	10.14	44	1.40	2.08	2.75	3.42	4.08	4.72	5.36	5.68	5.99	6.61	7.22	7.82	8.41	9.00	9.57	10.14	140
39	1.47	2.19	2.90	3.61	4.30	4.98	5.65	5.99	6.32	6.97	7.62	8.25	8.86	9.50	10.11	10.71	45	1.47	2.19	2.90	3.61	4.30	4.98	5.65	5.99	6.32	6.97	7.62	8.25	8.86	9.50	10.11	10.71	144
40	1.55	2.31	3.06	3.80	4.53	5.25	5.96	6.31	6.66	7.35	8.03	8.70	9.36	10.02	10.66	11.30	46	1.55	2.31	3.06	3.80	4.53	5.25	5.96	6.31	6.66	7.35	8.03	8.70	9.36	10.02	10.66	11.30	148
41	1.63	2.42	3.21	3.99	4.78	5.52	6.27	6.64	7.00	7.73	8.45	9.16	9.86	10.55	11.23	11.90	47	1.63	2.42	3.21	3.99	4.78	5.52	6.27	6.64	7.00	7.73	8.45	9.16	9.86	10.55	11.23		

Table 18.--Log weights for scaling lengths of 34 to 60 feet: density index = 44 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=44																SCALING LENGTH (FEET)															
	34	35	36	38	40	42	44	46	48	50	52	54	56	58	60	34	35	36	38	40	42	44	46	48	50	52	54	56	58	60		
6	.12	.12	.12	.12	.12	.11	.11	.11	.11	.10	.10	.09	.09	.08	.07	.12	.12	.12	.12	.12	.11	.11	.11	.10	.10	.09	.09	.08	.08	.07		
7	.19	.19	.20	.19	.19	.19	.19	.19	.18	.18	.17	.17	.16	.15	.15	.28	.29	.29	.29	.29	.29	.29	.29	.28	.28	.27	.27	.26	.26	.25		
8	.28	.29	.29	.29	.29	.29	.29	.29	.28	.28	.28	.27	.27	.26	.26	.40	.40	.40	.40	.40	.40	.40	.40	.39	.39	.38	.37	.36	.35	.34		
9	.39	.39	.40	.40	.40	.40	.40	.40	.39	.39	.38	.37	.37	.36	.35	.52	.52	.52	.52	.52	.52	.52	.52	.51	.51	.50	.49	.48	.47	.46		
10	.51	.52	.52	.52	.52	.52	.52	.52	.51	.51	.50	.49	.49	.48	.47	.65	.65	.65	.65	.65	.65	.65	.65	.64	.64	.63	.62	.61	.60	.59		
11	.65	.66	.67	.67	.67	.67	.67	.67	.66	.66	.65	.64	.64	.63	.62	.80	.80	.80	.80	.80	.80	.80	.80	.79	.79	.78	.77	.76	.75	.74		
12	.80	.82	.82	.82	.82	.82	.82	.82	.81	.81	.80	.79	.79	.78	.77	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.96	.95	.94	.93	.92		
13	.98	.99	1.01	1.01	1.01	1.01	1.01	1.01	1.00	1.00	.99	.98	.98	.97	.96	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.12		
14	1.17	1.19	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.37	1.37	1.36	1.35	1.34	1.33	1.32		
15	1.37	1.40	1.42	1.42	1.42	1.42	1.42	1.42	1.41	1.41	1.40	1.39	1.39	1.38	1.37	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57	1.56	1.55	1.54	1.53	1.52		
16	1.59	1.63	1.66	1.66	1.66	1.66	1.66	1.66	1.65	1.65	1.64	1.63	1.63	1.62	1.61	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.81	1.81	1.80	1.79	1.78	1.77	1.76		
17	1.68	1.67	1.66	1.66	1.66	1.66	1.66	1.66	1.65	1.65	1.64	1.63	1.63	1.62	1.61	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.85	1.84	1.83	1.82	1.81		
18	2.09	2.13	2.17	2.17	2.17	2.17	2.17	2.17	2.16	2.16	2.15	2.14	2.14	2.13	2.12	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.33	2.33	2.32	2.31	2.30	2.29	2.28		
19	2.30	2.41	2.46	2.46	2.46	2.46	2.46	2.46	2.45	2.45	2.44	2.43	2.43	2.42	2.41	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.62	2.62	2.61	2.60	2.59	2.58	2.57		
20	2.65	2.71	2.76	2.76	2.76	2.76	2.76	2.76	2.75	2.75	2.74	2.73	2.73	2.72	2.71	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.87	2.87	2.86	2.85	2.84	2.83	2.82		
21	2.92	3.02	3.09	3.09	3.09	3.09	3.09	3.09	3.08	3.08	3.07	3.06	3.06	3.05	3.04	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.23	3.23	3.22	3.21	3.20	3.19	3.18		
22	3.28	3.35	3.42	3.42	3.42	3.42	3.42	3.42	3.41	3.41	3.40	3.39	3.39	3.38	3.37	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.57	3.57	3.56	3.55	3.54	3.53	3.52		
23	3.61	3.70	3.78	3.78	3.78	3.78	3.78	3.78	3.77	3.77	3.76	3.75	3.75	3.74	3.73	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.93	3.93	3.92	3.91	3.90	3.89	3.88		
24	3.97	4.06	4.15	4.15	4.15	4.15	4.15	4.15	4.14	4.14	4.13	4.12	4.12	4.11	4.10	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.31	4.31	4.30	4.29	4.28	4.27	4.26		
25	4.34	4.44	4.55	4.55	4.55	4.55	4.55	4.55	4.54	4.54	4.53	4.52	4.52	4.51	4.50	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.71	4.71	4.70	4.69	4.68	4.67	4.66		
26	4.73	4.84	4.96	4.96	4.96	4.96	4.96	4.96	4.95	4.95	4.94	4.93	4.93	4.92	4.91	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.13	5.13	5.12	5.11	5.10	5.09	5.08		
27	5.14	5.26	5.38	5.38	5.38	5.38	5.38	5.38	5.37	5.37	5.36	5.35	5.35	5.34	5.33	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.55	5.55	5.54	5.53	5.52	5.51	5.50		
28	5.56	5.69	5.83	5.83	5.83	5.83	5.83	5.83	5.82	5.82	5.81	5.80	5.80	5.79	5.78	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.98	5.98	5.97	5.96	5.95	5.94	5.93		
29	6.00	6.14	6.29	6.29	6.29	6.29	6.29	6.29	6.28	6.28	6.27	6.26	6.26	6.25	6.24	6.46	6.46	6.46	6.46	6.46	6.46	6.46	6.46	6.45	6.45	6.44	6.43	6.42	6.41	6.40		
30	6.45	6.61	6.77	6.77	6.77	6.77	6.77	6.77	6.76	6.76	6.75	6.74	6.74	6.73	6.72	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.94	6.93	6.93	6.92	6.91	6.90	6.89	6.88		
31	6.92	7.10	7.27	7.27	7.27	7.27	7.27	7.27	7.26	7.26	7.25	7.24	7.24	7.23	7.22	7.44	7.44	7.44	7.44	7.44	7.44	7.44	7.44	7.43	7.43	7.42	7.41	7.40	7.39	7.38		
32	7.41	7.60	7.78	7.78	7.78	7.78	7.78	7.78	7.77	7.77	7.76	7.75	7.75	7.74	7.73	7.95	7.95	7.95	7.95	7.95	7.95	7.95	7.95	7.94	7.94	7.93	7.92	7.91	7.90	7.89		
33	7.92	8.12	8.31	8.31	8.31	8.31	8.31	8.31	8.30	8.30	8.29	8.28	8.28	8.27	8.26	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.48	8.47	8.47	8.46	8.45	8.44	8.43	8.42		
34	8.44	8.65	8.86	8.86	8.86	8.86	8.86	8.86	8.85	8.85	8.84	8.83	8.83	8.82	8.81	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.02	9.02	9.01	9.00	8.99	8.98	8.97		
35	8.98	9.21	9.43	9.43	9.43	9.43	9.43	9.43	9.42	9.42	9.41	9.40	9.40	9.39	9.38	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.60	9.59	9.59	9.58	9.57	9.56	9.55	9.54		
36	9.53	9.78	10.02	10.02	10.02	10.02	10.02	10.02	10.01	10.01	10.00	9.99	9.99	9.98	9.97	10.19	10.19	10.19	10.19	10.19	10.19	10.19	10.19	10.18	10.18	10.17	10.16	10.15	10.14	10.13		
37	10.11	10.36	10.62	10.62	10.62	10.62	10.62	10.62	10.61	10.61	10.60	10.59	10.59	10.58	10.57	10.79	10.79	10.79	10.79	10.79	10.79	10.79	10.79	10.78	10.78	10.77	10.76	10.75	10.74	10.73		
38	10.69	10.97	11.24	11.24	11.24	11.24	11.24	11.24	11.23	11.23	11.22	11.21	11.21	11.20	11.19	11.41	11.41	11.41	11.41	11.41	11.41	11.41	11.41	11.40	11.40	11.39	11.38	11.37	11.36	11.35		
39	11.33	11.59	11.88	11.88	11.88	11.88	11.88	11.88	11.87	11.87	11.86	11.85	11.85	11.84	11.83	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.05	12.04	12.04	12.03	12.02	12.01	12.00	11.99		
40	11.92	12.23	12.54	12.54	12.54	12.54	12.54	12.54	12.53	12.53	12.52	12.51	12.51	12.50	12.49	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.70	12.70	12.69	12.68	12.67	12.66	12.65		
41	12.56	12.89	13.21	13.21	13.21	13.21	13.21	13.21	13.20	13.20	13.19	13.18	13.18	13.17	13.16	13.38	13.38	13.38	13.38	13.38	13.38	13.38	13.38	13.37	13.37	13.36	13.35	13.34	13.33	13.32		
42	13.21	13.56	13.90	13.90	13.90	13.90	13.90	13.90	13.89	13.89	13.88	13.87	13.87	13.86	13.85	14.07	14.07	14.07	14.07	14.07	14.07	14.07	14.07	14.06	14.06	14.05	14.04	14.03	14.02	14.01		
43	13.89	14.25	14.61	14.61	14.61	14.61	14.61	14.61	14.60	14.60	14.59	14.58	14.58	14.57	14.56	14.78	14.78	14.78	14.78	14.78	14.78	14.78	14.78	14.77	14.77	14.76	14.75					

Table 19.---Log weights for scaling lengths of 4 to 32 feet: density index = 46 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG HEIGHT (KIPS*) FOR DENSITY INDEX=46																											
	SCALING LENGTH (FEET)																											
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32												
6	.03	.05	.06	.07	.08	.09	.10	.11	.11	.11	.12	.12	.13	.13	.13	.13												
7	.05	.07	.09	.10	.12	.13	.15	.15	.16	.17	.18	.18	.19	.19	.19	.19												
8	.06	.09	.11	.14	.16	.18	.20	.21	.22	.23	.25	.26	.27	.28	.28	.29												
9	.08	.11	.15	.18	.21	.24	.26	.27	.28	.31	.33	.34	.36	.37	.38	.40												
10	.10	.14	.18	.22	.26	.30	.33	.35	.36	.39	.42	.44	.46	.48	.50	.52												
11	.12	.17	.23	.27	.32	.37	.41	.43	.45	.48	.52	.55	.58	.61	.63	.66												
12	.14	.21	.27	.33	.39	.44	.49	.52	.54	.59	.63	.67	.71	.75	.78	.81												
13	.17	.24	.32	.39	.46	.53	.59	.62	.65	.70	.76	.81	.86	.90	.94	.98												
14	.19	.28	.37	.46	.54	.62	.69	.73	.76	.83	.89	.96	1.01	1.07	1.12	1.17												
15	.22	.33	.43	.53	.62	.71	.80	.84	.88	.96	1.04	1.12	1.19	1.25	1.32	1.38												
16	.25	.37	.49	.60	.71	.82	.92	.97	1.02	1.11	1.20	1.29	1.37	1.45	1.52	1.60												
17	.29	.42	.56	.69	.81	.93	1.05	1.10	1.16	1.27	1.37	1.47	1.57	1.66	1.75	1.83												
18	.32	.48	.63	.77	.91	1.05	1.18	1.25	1.31	1.43	1.55	1.67	1.78	1.89	2.00													
19	.36	.53	.70	.86	1.02	1.18	1.32	1.40	1.47	1.61	1.74	1.88	2.00	2.12	2.24	2.36												
20	.40	.59	.80	.96	1.14	1.31	1.48	1.56	1.64	1.80	1.95	2.10	2.24	2.38	2.51	2.64												
21	.44	.65	.86	1.06	1.26	1.45	1.64	1.73	1.82	1.99	2.16	2.33	2.49	2.65	2.80	2.95												
22	.48	.72	.95	1.17	1.39	1.60	1.80	1.90	2.00	2.20	2.39	2.58	2.76	2.93	3.10	3.26												
23	.53	.79	1.04	1.28	1.52	1.75	1.98	2.09	2.20	2.42	2.63	2.83	3.03	3.23	3.42	3.60												
24	.58	.86	1.13	1.40	1.66	1.91	2.16	2.29	2.41	2.65	2.88	3.10	3.32	3.54	3.75	3.95												
25	.63	.93	1.23	1.52	1.81	2.08	2.36	2.49	2.62	2.88	3.14	3.39	3.63	3.86	4.07	4.32												
26	.68	1.01	1.33	1.65	1.96	2.26	2.56	2.70	2.85	3.13	3.41	3.68	3.95	4.20	4.46	4.70												
27	.73	1.09	1.44	1.78	2.12	2.44	2.77	2.92	3.08	3.39	3.69	3.99	4.28	4.56	4.84	5.11												
28	.79	1.17	1.55	1.92	2.28	2.63	2.98	3.15	3.32	3.66	3.99	4.31	4.62	4.93	5.23	5.52												
29	.85	1.26	1.65	2.06	2.45	2.83	3.21	3.39	3.58	3.94	4.29	4.64	4.98	5.31	5.64	5.96												
30	.91	1.35	1.78	2.21	2.63	3.04	3.44	3.64	3.84	4.23	4.61	4.98	5.35	5.71	6.06	6.41												
31	.97	1.44	1.90	2.36	2.81	3.25	3.68	3.90	4.11	4.53	4.94	5.34	5.73	6.12	6.50	6.87												
32	1.03	1.54	2.03	2.52	3.00	3.47	3.93	4.16	4.39	4.84	5.27	5.71	6.13	6.55	6.95	7.36												
33	1.10	1.63	2.15	2.68	3.19	3.70	4.19	4.43	4.68	5.16	5.63	6.09	6.54	6.99	7.42	7.85												
34	1.17	1.74	2.30	2.85	3.39	3.93	4.46	4.72	4.98	5.49	5.99	6.48	6.97	7.44	7.91	8.37												
35	1.24	1.84	2.44	3.02	3.60	4.17	4.73	5.01	5.28	5.83	6.36	6.89	7.40	7.91	8.41	8.90												
36	1.31	1.95	2.59	3.20	3.82	4.42	5.01	5.31	5.60	6.18	6.74	7.30	7.85	8.39	8.93	9.45												
37	1.38	2.06	2.73	3.39	4.04	4.67	5.30	5.62	5.93	6.54	7.14	7.73	8.32	8.89	9.46	10.02												
38	1.46	2.17	2.88	3.58	4.26	4.94	5.60	5.93	6.26	6.91	7.55	8.18	8.79	9.40	10.01	10.60												
39	1.54	2.29	3.04	3.77	4.49	5.21	5.91	6.26	6.61	7.29	7.96	8.63	9.25	9.93	10.57	11.19												
40	1.62	2.41	3.20	3.97	4.72	5.48	6.23	6.59	6.96	7.68	8.39	9.10	9.79	10.47	11.15	11.81												
41	1.70	2.54	3.36	4.17	4.98	5.77	6.58	6.98	7.32	8.08	8.83	9.58	10.31	11.03	11.74	12.44												
42	1.79	2.66	3.53	4.38	5.23	6.06	6.88	7.29	7.69	8.50	9.29	10.07	10.84	11.60	12.35	13.09												
43	1.87	2.79	3.70	4.60	5.48	6.36	7.22	7.65	8.07	8.92	9.75	10.57	11.38	12.18	12.97	13.75												
44	1.96	2.92	3.88	4.82	5.74	6.66	7.57	8.02	8.47	9.35	10.22	11.09	11.94	12.78	13.61	14.43												
45	2.05	3.06	4.06	5.04	6.01	6.99	7.93	8.40	8.87	9.79	10.71	11.61	12.51	13.39	14.26	15.12												
46	2.14	3.20	4.24	5.27	6.29	7.32	8.29	8.78	9.27	10.25	11.21	12.16	13.09	14.02	14.93	15.84												
47	2.24	3.34	4.43	5.51	6.57	7.62	8.66	9.18	9.69	10.71	11.71	12.71	13.69	14.66	15.62	16.57												
48	2.34	3.48	4.62	5.75	6.86	7.96	9.04	9.58	10.12	11.18	12.23	13.27	14.30	15.32	16.32	17.31												
49	2.43	3.63	4.82	5.99	7.15	8.30	9.43	10.00	10.56	11.67	12.76	13.85	14.92	15.99	17.04	18.07												
50	2.54	3.78	5.02	6.24	7.45	8.65	9.83	10.42	11.00	12.16	13.31	14.44	15.56	16.67	17.77	18.85												
51	2.64	3.94	5.22	6.50	7.77	9.00	10.24	10.85	11.46	12.66	13.86	15.04	16.21	17.37	18.51	19.64												
52	2.74	4.09	5.43	6.76	8.07	9.37	10.65	11.29	11.92	13.18	14.42	15.66	16.88	18.08	19.27	20.46												
53	2.85	4.25	5.65	7.02	8.39	9.74	11.07	11.73	12.39	13.70	15.00	16.28	17.55	18.81	20.05	21.28												
54	2.96	4.42	5.86	7.29	8.71	10.11	11.50	12.19	12.88	14.24	15.59	16.92	18.24	19.55	20.85	22.13												
55	3.07	4.58	6.08	7.57	9.04	10.50	11.94	12.66	13.37	14.78	16.19	17.57	18.95	20.31	21.65	22.99												
56	3.18	4.75	6.31	7.85	9.38	10.89	12.39	13.13	13.87	15.34	16.80	18.24	19.66	21.08	22.48	23.86												
57	3.30	4.93	6.54	8.14	9.72	11.28	12.84	13.61	14.38	15.91	17.42	18.91	20.39	21.86	23.32	24.75												
58	3.42	5.10	6.77	8.43	10.07	11.69	13.30	14.10	14.90	16.48	18.05	19.60	21.14	22.66	24.17	25.66												
59	3.54	5.28	7.01	8.72	10.48	12.11	13.78	14.60	15.43	17.07	18.69	20.30	21.90	23.47	25.04	26.59												
60	3.66	5.46	7.25	9.03	10.78	12.53	14.25	15.11	15.97	17.66	19.35	21.01	22.67	24.30	25.92	27.53												

* 1KIP=1000 POUNDS

Table 20.--Log weights for scaling lengths of 34 to 60 feet: density index = 46 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=46																SCALING LENGTH (FEET)																
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60	
6	.13	.13	.13	.12	.12	.12	.12	.11	.11	.11	.10	.10	.09	.08	.08	.07																	
7	.20	.20	.20	.20	.20	.20	.20	.20	.19	.19	.19	.18	.17	.17	.16	.15																	
8	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.29	.28	.28	.27	.27																	
9	.41	.41	.41	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.41	.41																	
10	.53	.53	.53	.56	.57	.58	.58	.58	.58	.59	.59	.59	.59	.59	.59	.59																	
11	.69	.69	.70	.72	.73	.74	.75	.76	.77	.77	.78	.79	.79	.79	.79	.79																	
12	.84	.86	.87	.89	.91	.93	.94	.95	.97	.98	.99	1.00	1.01	1.02	1.02	1.03																	
13	1.02	1.04	1.06	1.09	1.12	1.15	1.16	1.17	1.19	1.21	1.23	1.25	1.26	1.27	1.28	1.29																	
14	1.22	1.24	1.26	1.30	1.34	1.38	1.40	1.41	1.44	1.47	1.50	1.52	1.54	1.56	1.58	1.59																	
15	1.43	1.46	1.49	1.54	1.59	1.63	1.65	1.68	1.71	1.75	1.79	1.82	1.85	1.87	1.90	1.92																	
16	1.67	1.70	1.73	1.79	1.85	1.91	1.94	1.96	2.01	2.06	2.10	2.14	2.18	2.21	2.25	2.28																	
17	1.92	1.95	1.99	2.07	2.14	2.21	2.24	2.27	2.32	2.39	2.44	2.49	2.54	2.59	2.63	2.67																	
18	2.18	2.22	2.27	2.36	2.44	2.52	2.56	2.60	2.67	2.74	2.81	2.87	2.92	2.99	3.04	3.09																	
19	2.47	2.52	2.57	2.67	2.77	2.87	2.91	2.95	3.04	3.12	3.20	3.28	3.35	3.41	3.48	3.54																	
20	2.77	2.83	2.89	3.01	3.12	3.23	3.28	3.33	3.43	3.53	3.62	3.71	3.79	3.87	3.95	4.02																	
21	3.09	3.16	3.23	3.36	3.46	3.58	3.67	3.73	3.84	3.96	4.06	4.16	4.26	4.36	4.45	4.53																	
22	3.42	3.50	3.58	3.73	3.87	4.02	4.08	4.15	4.28	4.41	4.53	4.65	4.76	4.87	4.97	5.07																	
23	3.76	3.87	3.95	4.12	4.28	4.44	4.52	4.59	4.74	4.89	5.03	5.16	5.29	5.41	5.53	5.65																	
24	4.15	4.25	4.34	4.53	4.71	4.89	4.98	5.06	5.23	5.39	5.55	5.70	5.84	5.98	6.12	6.25																	
25	4.54	4.65	4.75	4.96	5.16	5.36	5.46	5.55	5.74	5.92	6.09	6.26	6.43	6.58	6.74	6.89																	
26	4.95	5.08	5.18	5.41	5.63	5.85	5.96	6.06	6.27	6.47	6.66	6.85	7.04	7.21	7.39	7.55																	
27	5.37	5.50	5.63	5.86	6.12	6.36	6.48	6.60	6.82	7.04	7.26	7.47	7.67	7.87	8.06	8.25																	
28	5.81	5.95	6.09	6.37	6.63	6.90	7.03	7.15	7.40	7.65	7.88	8.11	8.34	8.56	8.77	8.98																	
29	6.27	6.42	6.57	6.87	7.17	7.45	7.59	7.73	8.00	8.27	8.53	8.79	9.03	9.27	9.51	9.74																	
30	6.74	6.91	7.03	7.40	7.72	8.03	8.18	8.32	8.63	8.92	9.20	9.48	9.75	10.02	10.27	10.52																	
31	7.24	7.42	7.60	7.95	8.29	8.63	8.79	8.96	9.28	9.60	9.90	10.21	10.50	10.79	11.07	11.35																	
32	7.75	7.94	8.13	8.51	8.88	9.25	9.43	9.60	9.95	10.29	10.63	10.96	11.28	11.59	11.90	12.20																	
33	8.28	8.49	8.69	9.10	9.51	9.89	10.18	10.47	10.87	11.27	11.66	12.04	12.42	12.79	13.15	13.50																	
34	8.82	9.05	9.27	9.70	10.12	10.55	10.86	11.17	11.57	11.97	12.36	12.75	13.13	13.50	13.87	14.23																	
35	9.29	9.62	9.86	10.33	10.79	11.24	11.46	11.68	12.11	12.54	12.96	13.37	13.77	14.17	14.55	14.93																	
36	9.97	10.22	10.47	10.97	11.46	11.94	12.18	12.42	12.88	13.34	13.79	14.23	14.66	15.08	15.50	15.91																	
37	10.56	10.84	11.10	11.63	12.16	12.67	12.92	13.18	13.67	14.16	14.64	15.11	15.57	16.03	16.47	16.91																	
38	11.18	11.47	11.75	12.32	12.87	13.42	13.69	13.96	14.49	15.01	15.52	16.02	16.51	17.00	17.48	17.94																	
39	11.81	12.12	12.42	13.02	13.61	14.19	14.48	14.76	15.32	15.88	16.42	16.96	17.48	18.00	18.51	19.01																	
40	12.46	12.79	13.11	13.74	14.37	14.98	15.29	15.59	16.19	16.77	17.35	17.92	18.48	19.03	19.57	20.11																	
41	13.13	13.47	13.81	14.48	15.14	15.80	16.12	16.44	17.07	17.69	18.31	18.91	19.51	20.09	20.67	21.23																	
42	13.82	14.18	14.53	15.24	15.94	16.63	16.97	17.31	17.98	18.64	19.29	19.93	20.56	21.18	21.79	22.39																	
43	14.52	14.90	15.28	16.02	16.76	17.49	17.85	18.20	18.91	19.61	20.30	20.97	21.64	22.30	22.94	23.58																	
44	15.24	15.64	16.04	16.82	17.61	18.37	18.75	19.12	19.87	20.60	21.33	22.04	22.75	23.44	24.12	24.80																	
45	15.97	16.40	16.81	17.64	18.46	19.27	19.67	20.06	20.85	21.62	22.39	23.14	23.88	24.61	25.34	26.05																	
46	16.73	17.17	17.61	18.48	19.34	20.19	20.61	21.02	21.85	22.66	23.43	24.20	25.05	25.82	26.58	27.33																	
47	17.56	17.96	18.43	19.34	20.24	21.13	21.57	22.01	22.88	23.73	24.58	25.41	26.24	27.05	27.85	28.64																	
48	18.29	18.78	19.26	20.22	21.16	22.09	22.56	23.02	23.93	24.82	25.71	26.59	27.45	28.31	29.15	29.98																	
49	19.10	19.61	20.11	21.11	22.01	22.98	23.56	24.05	25.00	25.94	26.87	27.79	28.70	29.60	30.48	31.36																	
50	19.92	20.45	20.98	22.03	23.06	24.09	24.59	25.10	26.10	27.08	28.06	29.02	29.98	30.92	31.84	32.76																	
51	20.78	21.32	21.87	22.95	24.05	25.12	25.65	26.17	27.22	28.25	29.27	30.28	31.28	32.26	33.23	34.19																	
52	21.63	22.20	22.78	23.90	25.05	26.17	26.72	27.27	28.36	29.44	30.51	31.56	32.61	33.64	34.65	35.66																	
53	22.50	23.10	23.70	24.89	26.07	27.24																											

Table 21.--Log weights for scaling lengths of 4 to 32 feet: density index = 48 pounds per cubic foot
[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=48																SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.05	.06	.08	.09	.10	.11	.11	.11	.12	.12	.13	.13	.13	.13	.13																
7	.05	.07	.09	.11	.12	.14	.15	.16	.16	.18	.18	.19	.20	.20	.21	.21																
8	.06	.09	.12	.14	.17	.19	.21	.22	.23	.24	.26	.27	.28	.29	.30	.30																
9	.08	.12	.15	.19	.22	.25	.27	.28	.29	.32	.34	.36	.37	.39	.40	.41																
10	.10	.15	.19	.23	.27	.31	.34	.36	.38	.41	.43	.46	.48	.50	.52	.54																
11	.12	.18	.24	.29	.34	.38	.43	.45	.47	.51	.54	.58	.61	.64	.66	.69																
12	.15	.22	.29	.35	.40	.46	.52	.54	.57	.61	.66	.70	.74	.78	.82	.85																
13	.17	.26	.33	.41	.48	.55	.61	.65	.68	.73	.79	.84	.89	.94	.99	1.03																
14	.20	.30	.39	.48	.56	.64	.72	.76	.79	.87	.93	1.00	1.06	1.12	1.17	1.22																
15	.23	.34	.45	.55	.65	.74	.84	.88	.92	1.01	1.09	1.16	1.24	1.31	1.37	1.44																
16	.27	.39	.51	.63	.74	.85	.96	1.01	1.06	1.16	1.25	1.34	1.43	1.51	1.59	1.67																
17	.30	.44	.58	.72	.85	.97	1.09	1.15	1.21	1.32	1.43	1.53	1.64	1.73	1.82	1.91																
18	.34	.50	.65	.81	.95	1.09	1.23	1.33	1.37	1.49	1.62	1.74	1.86	1.97	2.07	2.18																
19	.38	.56	.73	.90	1.07	1.23	1.38	1.46	1.53	1.68	1.82	1.96	2.09	2.22	2.34	2.46																
20	.42	.62	.81	1.00	1.19	1.37	1.54	1.63	1.71	1.87	2.03	2.19	2.34	2.48	2.62	2.76																
21	.46	.68	.90	1.11	1.31	1.51	1.71	1.80	1.90	2.08	2.26	2.43	2.60	2.76	2.92	3.07																
22	.51	.75	.99	1.22	1.45	1.67	1.88	1.99	2.09	2.30	2.49	2.69	2.88	3.06	3.23	3.41																
23	.55	.82	1.08	1.34	1.59	1.83	2.07	2.18	2.30	2.52	2.74	2.96	3.16	3.37	3.56	3.76																
24	.60	.89	1.18	1.46	1.73	2.00	2.26	2.39	2.51	2.76	3.00	3.24	3.47	3.69	3.91	4.12																
25	.65	.97	1.28	1.59	1.88	2.17	2.46	2.60	2.74	3.01	3.27	3.53	3.79	4.03	4.27	4.51																
26	.71	1.05	1.39	1.72	2.04	2.36	2.67	2.82	2.97	3.27	3.56	3.84	4.12	4.39	4.65	4.91																
27	.76	1.14	1.50	1.86	2.21	2.55	2.89	3.05	3.21	3.54	3.85	4.16	4.46	4.76	5.05	5.32																
28	.82	1.22	1.62	2.00	2.38	2.75	3.11	3.29	3.47	3.82	4.16	4.49	4.82	5.14	5.46	5.76																
29	.88	1.31	1.74	2.15	2.56	2.96	3.35	3.54	3.73	4.11	4.48	4.84	5.19	5.54	5.88	6.22																
30	.95	1.41	1.86	2.30	2.74	3.17	3.59	3.80	4.00	4.41	4.81	5.20	5.58	5.96	6.32	6.68																
31	1.01	1.50	1.99	2.46	2.93	3.39	3.84	4.07	4.29	4.72	5.15	5.57	5.98	6.39	6.78	7.17																
32	1.08	1.60	2.12	2.63	3.13	3.62	4.10	4.34	4.58	5.03	5.50	5.95	6.40	6.83	7.26	7.68																
33	1.15	1.71	2.26	2.80	3.33	3.86	4.37	4.63	4.88	5.38	5.87	6.35	6.83	7.29	7.75	8.20																
34	1.22	1.81	2.40	2.97	3.54	4.10	4.65	4.92	5.19	5.72	6.25	6.76	7.27	7.77	8.25	8.73																
35	1.29	1.92	2.54	3.16	3.76	4.35	4.90	5.17	5.44	6.00	6.54	7.04	7.52	8.02	8.49	8.99																
36	1.37	2.03	2.69	3.34	3.98	4.61	5.17	5.44	5.71	6.29	6.84	7.34	7.82	8.32	8.79	9.29																
37	1.44	2.15	2.85	3.53	4.21	4.88	5.45	5.72	5.99	6.59	7.14	7.64	8.13	8.63	9.10	9.58																
38	1.52	2.27	3.00	3.73	4.45	5.15	5.85	6.12	6.39	7.01	7.57	8.07	8.57	9.07	9.54	10.06																
39	1.60	2.39	3.17	3.93	4.69	5.43	6.17	6.44	6.71	7.35	7.92	8.42	8.92	9.42	9.89	10.41																
40	1.69	2.52	3.33	4.14	4.94	5.72	6.48	6.75	7.02	7.68	8.26	8.76	9.26	9.76	10.26	10.78																
41	1.77	2.65	3.51	4.35	5.19	6.02	6.82	7.09	7.36	8.04	8.62	9.12	9.62	10.12	10.62	11.14																
42	1.86	2.78	3.68	4.57	5.45	6.32	7.18	7.45	7.71	8.40	8.98	9.48	9.98	10.48	10.98	11.50																
43	1.95	2.91	3.86	4.80	5.72	6.63	7.54	7.81	8.07	8.78	9.36	9.86	10.36	10.86	11.36	11.88																
44	2.05	3.05	4.04	5.03	5.95	6.88	7.80	8.07	8.33	9.06	9.64	10.14	10.64	11.14	11.64	12.16																
45	2.14	3.19	4.23	5.26	6.28	7.29	8.27	8.54	8.80	9.54	10.12	10.62	11.12	11.62	12.12	12.64																
46	2.24	3.34	4.42	5.50	6.56	7.61	8.65	8.92	9.18	9.94	10.52	11.02	11.52	12.02	12.52	13.04																
47	2.34	3.48	4.62	5.74	6.86	7.95	8.99	9.26	9.52	10.28	10.86	11.36	11.86	12.36	12.86	13.38																
48	2.44	3.69	4.82	5.93	7.04	8.16	9.20	9.47	9.73	10.50	11.08	11.58	12.08	12.58	13.08	13.60																
49	2.54	3.79	5.03	6.25	7.46	8.66	9.70	9.97	10.23	11.02	11.60	12.10	12.60	13.10	13.60	14.12																
50	2.65	3.95	5.24	6.51	7.77	9.02	10.26	10.53	10.79	11.58	12.16	12.66	13.16	13.66	14.16	14.68																
51	2.75	4.11	5.45	6.78	8.09	9.39	10.64	10.91	11.17	11.96	12.54	13.04	13.54	14.04	14.54	15.06																
52	2.86	4.27	5.67	7.05	8.42	9.79	11.04	11.31	11.57	12.36	12.94	13.44	13.94	14.44	14.94	15.46																
53	2.97	4.44	5.89	7.33	8.75	10.16	11.41	11.68	11.94	12.74	13.32	13.82	14.32	14.82	15.32	15.84																
54	3.09	4.61	6.12	7.61	9.09	10.55	11.80	12.07	12.33	13.14	13.72	14.22	14.72	15.22	15.72	16.24																
55																																

Table 22.--Log weights for scaling lengths of 34 to 60 feet: density index = 48 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=48															
	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	44	46	48	50	52	54	56	58	60	
6	.13	.13	.13	.13	.13	.12	.12	.12	.11	.11	.10	.09	.09	.08	.08	
7	.21	.21	.21	.21	.21	.21	.21	.20	.20	.19	.19	.18	.18	.17	.16	
8	.31	.31	.31	.32	.32	.32	.32	.32	.31	.31	.30	.30	.29	.29	.28	
9	.42	.43	.43	.44	.44	.45	.45	.45	.45	.45	.45	.44	.44	.43	.42	
10	.56	.56	.57	.58	.58	.59	.61	.61	.62	.62	.62	.62	.62	.62	.61	
11	.71	.72	.73	.75	.76	.78	.79	.80	.81	.82	.82	.82	.83	.83	.82	
12	.88	.89	.91	.93	.95	.98	.99	1.01	1.02	1.04	1.05	1.06	1.06	1.07	1.07	
13	1.07	1.08	1.10	1.14	1.17	1.20	1.22	1.25	1.27	1.29	1.30	1.32	1.33	1.34	1.35	
14	1.27	1.30	1.32	1.36	1.40	1.44	1.46	1.47	1.51	1.53	1.55	1.59	1.61	1.63	1.66	
15	1.50	1.52	1.55	1.61	1.66	1.70	1.73	1.75	1.79	1.83	1.86	1.90	1.93	1.95	1.98	
16	1.74	1.77	1.81	1.87	1.92	1.99	2.02	2.05	2.10	2.15	2.19	2.24	2.27	2.31	2.34	
17	2.00	2.04	2.08	2.16	2.23	2.30	2.34	2.37	2.43	2.49	2.55	2.60	2.65	2.70	2.74	
18	2.28	2.33	2.37	2.46	2.53	2.63	2.67	2.71	2.79	2.86	2.93	3.00	3.06	3.12	3.17	
19	2.57	2.63	2.70	2.80	2.89	2.99	3.04	3.08	3.17	3.26	3.34	3.42	3.49	3.56	3.63	
20	2.89	2.95	3.02	3.14	3.25	3.37	3.42	3.48	3.58	3.68	3.78	3.87	3.96	4.04	4.12	
21	3.22	3.29	3.37	3.50	3.64	3.77	3.83	3.90	4.01	4.13	4.24	4.35	4.45	4.55	4.64	
22	3.57	3.65	3.74	3.89	4.04	4.19	4.26	4.33	4.47	4.60	4.73	4.85	4.97	5.08	5.19	
23	3.94	4.03	4.12	4.30	4.47	4.63	4.72	4.79	4.95	5.10	5.24	5.38	5.52	5.65	5.77	
24	4.74	4.85	4.96	5.18	5.35	5.59	5.69	5.78	5.99	6.17	6.36	6.53	6.71	6.87	7.03	
25	5.16	5.28	5.41	5.64	5.88	6.10	6.22	6.33	6.54	6.75	6.95	7.15	7.34	7.53	7.71	
26	5.60	5.74	5.87	6.13	6.39	6.64	6.76	6.88	7.12	7.35	7.58	7.79	8.01	8.21	8.41	
27	6.06	6.21	6.36	6.64	6.92	7.20	7.33	7.46	7.72	7.98	8.23	8.47	8.70	8.93	9.15	
28	6.54	6.70	6.86	7.17	7.46	7.78	7.92	8.07	8.35	8.63	8.90	9.17	9.42	9.68	9.92	
29	7.04	7.21	7.38	7.72	8.05	8.38	8.54	8.70	9.01	9.31	9.59	9.89	10.14	10.45	10.72	
30	7.55	7.74	7.93	8.29	8.65	9.00	9.18	9.35	9.68	10.01	10.33	10.65	10.96	11.26	11.55	
31	8.09	8.29	8.49	8.88	9.27	9.65	9.84	10.02	10.36	10.74	11.09	11.43	11.77	12.09	12.41	
32	8.64	8.85	9.07	9.49	9.91	10.32	10.52	10.72	11.11	11.50	11.87	12.24	12.61	12.96	13.31	
33	9.21	9.44	9.67	10.13	10.57	11.01	11.23	11.44	11.86	12.28	12.68	13.08	13.47	13.86	14.23	
34	9.79	10.04	10.29	10.78	11.26	11.73	11.96	12.19	12.64	13.08	13.52	13.94	14.37	14.78	15.19	
35	10.42	10.67	10.93	11.45	11.96	12.46	12.71	12.96	13.44	13.92	14.38	14.84	15.29	15.74	16.17	
36	11.02	11.31	11.59	12.14	12.65	13.22	13.49	13.75	14.27	14.77	15.27	15.77	16.25	16.72	17.19	
37	11.67	11.97	12.26	12.85	13.43	14.00	14.28	14.56	15.12	15.66	16.19	16.72	17.23	17.74	18.24	
38	12.33	12.64	12.96	13.59	14.20	14.81	15.11	15.40	15.99	16.57	17.14	17.69	18.24	18.78	19.31	
39	13.00	13.34	13.68	14.34	14.99	15.63	15.95	16.27	16.89	17.50	18.11	18.70	19.28	19.86	20.42	
40	13.70	14.06	14.41	15.11	15.80	16.48	16.82	17.15	17.81	18.46	19.10	19.73	20.35	20.96	21.57	
41	14.42	14.79	15.17	15.91	16.64	17.35	17.71	18.06	18.76	19.45	20.13	20.79	21.45	22.11	22.74	
42	15.15	15.55	15.94	16.72	17.49	18.25	18.62	18.96	19.73	20.46	21.18	21.88	22.58	23.26	23.94	
43	15.90	16.32	16.73	17.55	18.36	19.16	19.56	19.95	20.73	21.50	22.25	23.00	23.74	24.46	25.17	
44	16.67	17.11	17.54	18.41	19.26	20.10	20.52	20.93	21.75	22.56	23.36	24.15	24.92	25.69	26.44	
45	17.46	17.92	18.38	19.28	20.16	21.06	21.50	21.94	22.80	23.65	24.49	25.32	26.13	26.94	27.73	
46	18.26	18.75	19.23	20.18	21.12	22.05	22.51	22.97	23.87	24.76	25.65	26.52	27.38	28.22	29.06	
47	19.09	19.59	20.10	21.09	22.06	23.05	23.54	24.02	24.97	25.90	26.83	27.75	28.65	29.54	30.42	
48	19.93	20.46	21.00	22.03	23.06	24.08	24.59	25.09	26.09	27.07	28.04	29.00	29.95	30.88	31.81	
49	20.79	21.34	21.89	22.99	24.07	25.13	25.66	26.19	27.23	28.26	29.28	30.29	31.28	32.26	33.23	
50	21.67	22.25	22.82	23.96	25.09	26.21	26.76	27.31	28.40	29.48	30.54	31.60	32.64	33.66	34.68	
51	22.56	23.17	23.77	24.96	26.14	27.30	27.88	28.46	29.62	30.78	31.94	33.09	34.24	35.38	36.51	
52	23.48	24.11	24.73	25.98	27.21	28.42	29.03	29.63	30.81	31.99	33.15	34.30	35.44	36.58	37.72	
53	24.41	25.07	25.72	27.01	28.30	29.56	30.19	30.82	32.06	33.28	34.50	35.70	36.88	38.06	39.22	
54	25.36	26.04	26.72	28.07	29.41	30.73	31.38	32.03	33.33	34.60	35.87	37.12	38.36	39.58	40.79	
55	26.33	27.04	27.75	29.15	30.54	31.91	32.59	33.27	34.62	35.95	37.27	38.57	39.86	41.14	42.40	
56	27.32	28.06	28.79	30.25	31.69	33.12	33.83	34.53	35.93	37.32	38.69	40.05	41.39	42.72	44.03	
57	28.32	29.10	29.85	31.37	32.85	34.35	35.09	35.82	37.28	38.66	40.04	41.41	42.78	44.14	45.49	
58	29.35	30.14	30.93	32.51	34.06	35.60	36.39	37.13	38.54	39.92	41.32	42.71	44.10	45.48	46.85	
59	30.39	31.21	32.03	33.67	35.26	36.88	37.67	38.46	40.03	41.59	43.13	44.65	46.16	47.65	49.13	
60																

* 1KIP=1000 POUNDS

Table 24.--Log weights for scaling lengths of 34 to 60 feet: density index = 50 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=50															
	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	1.14	1.14	1.14	1.14	1.13	1.13	1.13	1.12	1.12	1.12	1.11	1.10	1.10	1.09	1.09	1.08
7	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.20	1.20	1.19	1.18	1.18	1.17
8	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31	1.31	1.30
9	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.43	1.43	1.43	1.43	1.43	1.43	1.42
10	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58	1.57
11	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.73	1.73	1.73	1.73	1.73	1.73	1.72
12	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.89
13	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.10	2.10	2.09
14	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.31	2.31	2.31	2.31	2.31	2.31	2.30
15	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.55	2.55	2.55	2.55	2.55	2.55	2.54
16	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.80	2.80	2.80	2.80	2.80	2.80	2.79
17	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.07	3.07	3.07	3.07	3.07	3.07	3.06
18	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.36	3.36	3.36	3.36	3.36	3.36	3.35
19	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.67	3.67	3.67	3.67	3.67	3.67	3.66
20	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.00	4.00	4.00	4.00	4.00	4.00	3.99
21	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.35	4.35	4.35	4.35	4.35	4.35	4.34
22	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.72	4.72	4.72	4.72	4.72	4.72	4.71
23	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.10	5.10	5.10	5.10	5.10	5.10	5.09
24	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.50	5.50	5.50	5.50	5.50	5.50	5.49
25	5.93	5.93	5.93	5.93	5.93	5.93	5.93	5.93	5.93	5.92	5.92	5.92	5.92	5.92	5.92	5.91
26	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.36	6.36	6.36	6.36	6.36	6.36	6.35
27	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.83	6.83	6.83	6.83	6.83	6.83	6.82
28	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.32	7.32	7.32	7.32	7.32	7.32	7.31
29	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.83	7.83	7.83	7.83	7.83	7.83	7.82
30	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.37	8.36	8.36	8.36	8.36	8.36	8.36	8.35
31	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.92	8.91	8.91	8.91	8.91	8.91	8.91	8.90
32	9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.48	9.48	9.48	9.48	9.48	9.48	9.47
33	10.08	10.08	10.08	10.08	10.08	10.08	10.08	10.08	10.08	10.07	10.07	10.07	10.07	10.07	10.07	10.06
34	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.69	10.68	10.68	10.68	10.68	10.68	10.68	10.67
35	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.31	11.31	11.31	11.31	11.31	11.31	11.30
36	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.96	11.96	11.96	11.96	11.96	11.96	11.95
37	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.63	12.63	12.63	12.63	12.63	12.63	12.62
38	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.33	13.32	13.32	13.32	13.32	13.32	13.32	13.31
39	14.04	14.04	14.04	14.04	14.04	14.04	14.04	14.04	14.04	14.03	14.03	14.03	14.03	14.03	14.03	14.02
40	14.77	14.77	14.77	14.77	14.77	14.77	14.77	14.77	14.77	14.76	14.76	14.76	14.76	14.76	14.76	14.75
41	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.51	15.51	15.51	15.51	15.51	15.51	15.50
42	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.28	16.28	16.28	16.28	16.28	16.28	16.27
43	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.07	17.07	17.07	17.07	17.07	17.07	17.06
44	17.89	17.89	17.89	17.89	17.89	17.89	17.89	17.89	17.89	17.88	17.88	17.88	17.88	17.88	17.88	17.87
45	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.71	18.71	18.71	18.71	18.71	18.71	18.70
46	19.57	19.57	19.57	19.57	19.57	19.57	19.57	19.57	19.57	19.56	19.56	19.56	19.56	19.56	19.56	19.55
47	20.44	20.44	20.44	20.44	20.44	20.44	20.44	20.44	20.44	20.43	20.43	20.43	20.43	20.43	20.43	20.42
48	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.32	21.32	21.32	21.32	21.32	21.32	21.31
49	22.24	22.24	22.24	22.24	22.24	22.24	22.24	22.24	22.24	22.23	22.23	22.23	22.23	22.23	22.23	22.22
50	23.17	23.17	23.17	23.17	23.17	23.17	23.17	23.17	23.17	23.16	23.16	23.16	23.16	23.16	23.16	23.15
51	24.12	24.12	24.12	24.12	24.12	24.12	24.12	24.12	24.12	24.11	24.11	24.11	24.11	24.11	24.11	24.10
52	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.08	25.08	25.08	25.08	25.08	25.08	25.07
53	26.08	26.08	26.08	26.08	26.08	26.08	26.08	26.08	26.08	26.07	26.07	26.07	26.07	26.07	26.07	26.06
54	27.09	27.09	27.09	27.09	27.09	27.09	27.09	27.09	27.09	27.08	27.08	27.08	27.08	27.08	27.08	27.07
55	28.12	28.12	28.12	28.12	28.12	28.12	28.12	28.12	28.12	28.11	28.11	28.11	28.11	28.11	28.11	28.10
56	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.17	29.16	29.16	29.16	29.16	29.16	29.16	29.15
57	30.24	30.24	30.24	30.24	30.24	30.24	30.24	30.24	30.24	30.23	30.23	30.23	30.23	30.23	30.23	30.22
58	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.32	31.32	31.32	31.32	31.32	31.32	31.31
59	32.44	32.44	32.44	32.44	32.44	32.44	32.44	32.44	32.44	32.43	32.43	32.43	32.43	32.43	32.43	32.42
60	33.57	33.57	33.57	33.57	33.57	33.57	33.57	33.57	33.57	33.56	33.56	33.56	33.56	33.56	33.56	33.55

* 1KIP=1000 POUNDS

Table 25.--Log weights for scaling lengths of 4 to 32 feet: density index = 52 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=52										SCALING LENGTH (FEET)									
	4	5	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	34	36	38
6	.04	.05	.07	.08	.10	.11	.11	.11	.12	.12	.13	.13	.14	.14	.14	.15	.15	.15	.15	.15
7	.05	.08	.10	.12	.14	.15	.15	.17	.17	.18	.19	.20	.21	.21	.22	.22	.23	.23	.23	.23
8	.07	.10	.13	.16	.18	.20	.20	.23	.24	.24	.26	.28	.29	.30	.31	.32	.32	.32	.32	.32
9	.09	.13	.17	.20	.24	.27	.27	.29	.31	.32	.35	.37	.39	.41	.42	.44	.45	.45	.45	.45
10	.11	.16	.21	.25	.30	.34	.34	.37	.39	.41	.44	.47	.50	.52	.55	.57	.59	.59	.59	.59
11	.13	.20	.25	.31	.36	.41	.41	.46	.48	.51	.55	.59	.62	.66	.69	.72	.74	.74	.74	.74
12	.16	.23	.31	.37	.44	.50	.50	.56	.59	.61	.67	.72	.76	.81	.85	.88	.92	.92	.92	.92
13	.19	.28	.36	.44	.52	.59	.59	.66	.70	.73	.80	.86	.91	.97	1.02	1.07	1.11	1.11	1.11	1.11
14	.22	.32	.42	.52	.61	.70	.70	.78	.82	.86	.94	1.01	1.08	1.15	1.21	1.27	1.32	1.32	1.32	1.32
15	.25	.37	.49	.60	.71	.81	.81	.91	.95	1.00	1.08	1.18	1.26	1.34	1.42	1.49	1.56	1.56	1.56	1.56
16	.29	.42	.56	.68	.81	.93	.93	1.04	1.09	1.15	1.26	1.36	1.45	1.55	1.64	1.72	1.81	1.81	1.81	1.81
17	.32	.48	.63	.78	.92	1.05	1.05	1.18	1.25	1.31	1.43	1.55	1.66	1.77	1.88	1.98	2.07	2.07	2.07	2.07
18	.36	.54	.71	.87	1.03	1.19	1.19	1.34	1.41	1.48	1.62	1.75	1.88	2.01	2.13	2.25	2.36	2.36	2.36	2.36
19	.41	.60	.79	.98	1.18	1.33	1.33	1.50	1.58	1.66	1.82	1.97	2.12	2.26	2.40	2.54	2.66	2.66	2.66	2.66
20	.45	.67	.88	1.09	1.29	1.48	1.48	1.67	1.76	1.85	2.03	2.20	2.37	2.53	2.69	2.84	2.99	2.99	2.99	2.99
21	.50	.74	.97	1.20	1.42	1.64	1.64	1.85	1.95	2.05	2.25	2.45	2.63	2.82	2.99	3.16	3.33	3.33	3.33	3.33
22	.55	.81	1.07	1.32	1.57	1.81	1.81	2.04	2.15	2.27	2.49	2.70	2.91	3.11	3.31	3.50	3.69	3.69	3.69	3.69
23	.60	.89	1.17	1.45	1.72	1.98	1.98	2.24	2.36	2.49	2.73	2.97	3.20	3.43	3.65	3.86	4.07	4.07	4.07	4.07
24	.65	.97	1.28	1.58	1.88	2.16	2.16	2.45	2.58	2.72	2.99	3.25	3.51	3.76	4.00	4.24	4.47	4.47	4.47	4.47
25	.71	1.05	1.39	1.72	2.04	2.36	2.36	2.66	2.82	2.96	3.26	3.55	3.83	4.10	4.37	4.63	4.88	4.88	4.88	4.88
26	.77	1.14	1.50	1.86	2.21	2.56	2.56	2.89	3.06	3.22	3.54	3.85	4.16	4.46	4.75	5.04	5.32	5.32	5.32	5.32
27	.83	1.23	1.63	2.01	2.36	2.76	2.76	3.13	3.31	3.48	3.83	4.17	4.51	4.83	5.15	5.47	5.77	5.77	5.77	5.77
28	.89	1.32	1.75	2.17	2.58	2.98	2.98	3.37	3.57	3.76	4.14	4.51	4.87	5.22	5.57	5.91	6.24	6.24	6.24	6.24
29	.96	1.42	1.88	2.33	2.77	3.20	3.20	3.63	3.84	4.04	4.45	4.85	5.24	5.63	6.00	6.37	6.73	6.73	6.73	6.73
30	1.02	1.52	2.01	2.50	2.97	3.43	3.43	3.89	4.12	4.34	4.79	5.21	5.63	6.05	6.45	6.85	7.24	7.24	7.24	7.24
31	1.09	1.63	2.15	2.67	3.18	3.67	3.67	4.16	4.40	4.64	5.12	5.58	6.03	6.46	6.92	7.35	7.77	7.77	7.77	7.77
32	1.17	1.74	2.30	2.85	3.39	3.92	3.92	4.45	4.70	4.96	5.47	5.96	6.45	6.93	7.40	7.86	8.32	8.32	8.32	8.32
33	1.24	1.85	2.44	3.03	3.61	4.18	4.18	4.74	5.01	5.29	5.82	6.36	6.88	7.39	7.90	8.39	8.86	8.86	8.86	8.86
34	1.32	1.96	2.60	3.22	3.84	4.44	4.44	5.04	5.33	5.62	6.20	6.77	7.33	7.87	8.41	8.94	9.46	9.46	9.46	9.46
35	1.40	2.08	2.76	3.42	4.07	4.72	4.72	5.35	5.66	5.97	6.59	7.19	7.78	8.37	8.94	9.51	10.06	10.06	10.06	10.06
36	1.48	2.20	2.92	3.62	4.31	5.00	5.00	5.67	6.00	6.33	6.98	7.62	8.26	8.90	9.49	10.09	10.69	10.69	10.69	10.69
37	1.56	2.33	3.08	3.83	4.56	5.28	5.28	6.00	6.35	6.70	7.39	8.07	8.74	9.40	10.05	10.69	11.32	11.32	11.32	11.32
38	1.65	2.46	3.26	4.04	4.82	5.58	5.58	6.33	6.71	7.08	7.81	8.53	9.24	9.94	10.63	11.31	11.98	11.98	11.98	11.98
39	1.74	2.59	3.43	4.26	5.08	5.89	5.89	6.68	7.09	7.47	8.24	9.00	9.76	10.50	11.23	11.95	12.65	12.65	12.65	12.65
40	1.83	2.73	3.61	4.49	5.35	6.20	6.20	7.04	7.45	7.87	8.68	9.49	10.28	11.07	11.84	12.60	13.35	13.35	13.35	13.35
41	1.92	2.87	3.80	4.72	5.62	6.52	6.52	7.40	7.84	8.28	9.14	9.99	10.82	11.65	12.47	13.27	14.06	14.06	14.06	14.06
42	2.02	3.01	3.99	4.95	5.91	6.85	6.85	7.78	8.24	8.70	9.60	10.50	11.38	12.25	13.11	13.97	14.79	14.79	14.79	14.79
43	2.12	3.16	4.19	5.20	6.20	7.19	7.19	8.16	8.65	9.13	10.08	11.02	11.95	12.87	13.77	14.66	15.54	15.54	15.54	15.54
44	2.22	3.30	4.38	5.44	6.45	7.53	7.53	8.56	9.06	9.57	10.57	11.56	12.53	13.50	14.45	15.38	16.31	16.31	16.31	16.31
45	2.32	3.46	4.59	5.70	6.80	7.89	7.89	8.96	9.49	10.02	11.07	12.11	13.13	14.14	15.14	16.12	17.10	17.10	17.10	17.10
46	2.42	3.61	4.79	5.96	7.11	8.25	8.25	9.37	9.93	10.48	11.58	12.67	13.74	14.80	15.85	16.89	17.90	17.90	17.90	17.90
47	2.53	3.78	5.01	6.22	7.43	8.62	8.62	9.79	10.38	10.96	12.11	13.24	14.37	15.48	16.57	17.66	18.73	18.73	18.73	18.73
48	2.64	3.94	5.22	6.49	7.75	8.99	8.99	10.22	10.83	11.44	12.64	13.83	15.00	16.17	17.31	18.45	19.57	19.57	19.57	19.57
49	2.75	4.11	5.45	6.77	8.06	9.38	9.38	10.66	11.30	11.93	13.19	14.43	15.68	16.97	18.07	19.26	20.43	20.43	20.43	20.43
50	2.87	4.28	5.67	7.05	8.42	9.77	9.77	11.11	11.78	12.44	13.75	15.04	16.32	17.59	18.84	20.08	21.31	21.31	21.31	21.31
51	2.98	4.45	5.94	7.34	8.77	10.18	10.18	11.57	12.26	12.95	14.32	15.67	17.00	18.33	19.63	20.93	22.21	22.21	22.21	22.21
52	3.10	4.63	6.14	7.64	9.12	10.59	10.59	12.04	12.76	13.48	14.90	16.31	17.70	19.08	20.44	21.79	23.12	23.12	23.12	23.12
53	3.22	4.81	6.33	7.94	9.48	11.01	11.01	12.52	13.27	14.01	15.49	16.96	18.41	19.84	21.26	22.67	24.06	24.06	24.06	24.06
54	3.35	4.99	6.53	8.24	9.86	11.44	11.44	13.00	13.78	14.56	16.09	17.62	19.13	20.62	22.10	23.56	25.01	25.01	25.01	25.01
55	3.47	5.18	6.88	8.56	10.22	11.87	11.87	13.50	14.31	15.11	16.61	18.17	19.67	21.17	22.66	24.14	25.68	25.68	25.68	25.68
56	3.60	5.37	7.13	8.87	10.60	12.31	12.31	14.00	14.84	15.68	17.24	18.99	20.62	22.23	23.83	25.41	26.97	26.97	26.97	26.97
57	3.73	5.57	7.39	9.20	10.95	12.76	12.76	14.52	15.39	16.26	17.84	19.69	21.38	23.05	24.71	26.36	27.98	27.98	27.98	27.98
58	3.86	5.77	7.65	9.53	11.38	13.22	13.22	15.04	15.94	16.84	18.48	20.40	22.16	23.95	25.72	27.52	29.31	29.31	29.31	29.31
59	4.00	5.97	7.92	9.86	11.78	13.69	13.69	15.57	16.51	17.44	19.18	21.32	22.95	24.75	26.54	28.31	30.06	30.06	30.06	30.06
60	4.13	6.17	8.20	10.20	12.19	14.16	14.16	16.11	17.09	18.05	19.97	21.87	23.75	25.62	27.47	29.31	31.12	31.12	31.12	31.12

* 1KIP=1000 POUNDS

Table 26.--Log weights for scaling lengths of 34 to 60 feet: density index = 52 pounds per cubic foot [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)		SCALING LENGTH (FEET)															
		34	35	36	38	40	42	44	46	48	50	52	54	56	58	60	
6	14	14	14	14	14	13	13	13	13	12	11	11	10	10	09	08	
7	23	23	23	23	23	23	23	22	22	22	21	20	20	19	18	17	
8	33	34	34	34	34	34	34	34	33	33	33	33	32	32	31	30	
9	46	47	48	48	49	49	49	49	49	49	49	49	48	48	47	46	
10	61	62	63	64	65	66	66	66	66	67	67	67	67	67	67	66	
11	79	81	81	83	84	85	86	87	88	88	89	89	89	89	89	89	
12	99	101	101	103	106	107	108	109	111	112	113	113	114	115	116	116	
13	115	117	119	122	126	129	131	132	135	137	139	141	143	144	145	146	
14	136	140	143	147	152	156	158	160	163	166	169	172	174	176	178	180	
15	160	165	168	174	179	185	187	189	194	198	202	205	209	212	214	217	
16	186	192	196	203	210	216	220	222	227	233	238	242	246	250	254	257	
17	217	221	225	234	242	249	253	257	263	270	276	282	287	292	297	301	
18	247	252	257	267	276	285	290	294	302	310	318	325	331	337	343	349	
19	279	285	291	302	313	324	329	334	344	353	362	370	378	386	393	400	
20	313	320	327	340	353	365	371	377	388	399	409	419	428	438	446	454	
21	349	357	365	380	394	408	415	422	435	447	459	471	482	492	503	512	
22	387	396	405	422	438	454	462	469	484	498	512	525	538	551	562	574	
23	427	437	447	466	484	502	511	519	536	552	568	583	598	612	625	639	
24	469	480	491	512	532	553	563	572	591	609	627	644	661	677	692	707	
25	513	525	537	561	584	606	617	627	648	669	689	708	726	744	762	779	
26	559	572	586	611	637	661	673	685	709	731	753	775	795	815	835	854	
27	607	622	636	664	692	719	733	746	771	796	821	844	867	890	912	933	
28	657	673	689	720	750	780	794	809	837	864	891	917	943	967	992	1015	
29	709	726	743	777	808	842	858	874	905	935	964	993	1021	1048	1075	1101	
30	762	781	800	837	872	908	925	942	976	1008	1041	1072	1102	1132	1161	1190	
31	818	838	859	898	937	975	994	1013	1049	1085	1120	1154	1187	1220	1251	1283	
32	876	898	920	962	1004	1045	1065	1086	1125	1164	1202	1239	1275	1310	1345	1379	
33	936	959	983	1029	1074	1118	1140	1161	1204	1245	1286	1326	1360	1404	1442	1478	
34	997	1023	1048	1097	1145	1193	1216	1239	1280	1320	1374	1417	1450	1501	1542	1581	
35	1061	1088	1115	1167	1215	1270	1295	1320	1369	1418	1465	1511	1557	1601	1645	1688	
36	1127	1155	1184	1240	1296	1350	1377	1404	1456	1508	1558	1608	1657	1705	1752	1798	
37	1194	1225	1255	1315	1374	1432	1461	1489	1545	1601	1655	1708	1760	1812	1862	1912	
38	1264	1296	1329	1392	1455	1517	1548	1578	1638	1696	1754	1811	1867	1922	1976	2028	
39	1335	1370	1404	1472	1538	1604	1637	1669	1732	1791	1856	1917	1976	2035	2092	2149	
40	1409	1445	1482	1553	1624	1694	1728	1762	1830	1896	1961	2026	2089	2151	2213	2273	
41	1484	1523	1561	1637	1712	1786	1822	1858	1930	2000	2070	2138	2205	2271	2336	2400	
42	1562	1602	1643	1722	1802	1880	1919	1957	2032	2107	2180	2253	2324	2394	2463	2531	
43	1641	1684	1727	1811	1895	1977	2019	2058	2138	2217	2294	2371	2446	2520	2594	2666	
44	1722	1768	1813	1902	1990	2076	2120	2162	2246	2329	2411	2488	2571	2650	2727	2803	
45	1806	1853	1901	1994	2087	2178	2223	2268	2357	2444	2531	2616	2700	2783	2864	2945	
46	1891	1941	1991	2089	2186	2282	2329	2377	2470	2562	2653	2738	2831	2919	3005	3089	
47	1978	2031	2083	2186	2288	2389	2439	2488	2586	2683	2778	2873	2966	3058	3148	3238	
48	2068	2123	2177	2285	2392	2498	2550	2602	2705	2806	2907	3006	3104	3200	3295	3389	
49	2159	2216	2273	2387	2498	2609	2664	2718	2826	2933	3038	3132	3244	3346	3446	3545	
50	2252	2312	2372	2491	2607	2723	2780	2837	2950	3062	3172	3281	3388	3495	3600	3703	
51	2347	2410	2472	2596	2718	2839	2899	2959	3077	3194	3309	3424	3536	3647	3757	3865	
52	2444	2510	2575	2704	2832	2958	3021	3083	3206	3328	3449	3568	3686	3802	3917	4031	
53	2543	2612	2680	2814	2947	3079	3144	3209	3338	3466	3592	3716	3836	3951	4081	4200	
54	2644	2716	2786	2927	3065	3203	3274	3349	3483	3617	3747	3877	3999	4123	4249	4373	
55	2749	2824	2895	3043	3186	3329	3404	3479	3618	3754	3886	4011	4135	4268	4401	4549	
56	2852	2929	2999	3156	3303	3451	3531	3604	3749	3890	4023	4148	4271	4406	4545	4728	
57	2959	3039	3119	3287	3439	3593	3678	3751	3893	4034	4167	4293	4421	4568	4719	4911	
58	3069	3151	3234	3408	3565	3723	3812	3881	4028	4169	4309	4449	4582	4735	4895	5098	
59	3179	3265	3351	3529	3690	3852	3945	4017	4169	4315	4459	4602	4748	4915	5091	5328	
60	3292	3383	3473	3656	3821	3988	4085	4161	4319	4469	4617	4764	4925	5105	5302	5541	

* 1KIP=1000 POUNDS

Table 27.--Log weights for scaling lengths of 4 to 32 feet: density index = 54 pounds per cubic foot [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)		SCALING LENGTH (FEET)																LCC WEIGHT (KIPS*) FOR DENSITY INDEX=54			
		4	5	6	8	10	12	14	16	17	18	20	22	24	26	28	30				
6	.04		.06	.07	.09	.10	.11	.12	.12	.13	.13	.14	.14	.15	.15	.15	.15	.15			
7	.05		.08	.10	.12	.15	.16	.17	.18	.19	.20	.21	.22	.22	.23	.23	.23	.24			
8	.07	.10	.13	.16	.20	.23	.24	.25	.27	.27	.29	.30	.31	.31	.33	.33	.33	.34			
9	.09	.13	.17	.21	.26	.31	.32	.33	.36	.36	.38	.40	.42	.44	.45	.45	.45	.47			
10	.11	.17	.22	.26	.31	.35	.39	.41	.42	.44	.46	.48	.52	.54	.57	.59	.61	.64			
11	.14	.21	.26	.32	.38	.43	.48	.50	.53	.57	.59	.61	.65	.68	.71	.74	.77	.81			
12	.17	.24	.32	.39	.46	.52	.58	.61	.64	.69	.74	.76	.79	.84	.88	.91	.95	.99			
13	.20	.29	.38	.46	.54	.62	.69	.73	.76	.83	.89	.91	.95	1.01	1.06	1.11	1.16	1.21			
14	.23	.33	.44	.54	.64	.74	.81	.85	.89	.97	1.05	1.12	1.19	1.26	1.32	1.38	1.43	1.48			
15	.26	.39	.50	.62	.73	.84	.94	.99	1.04	1.12	1.22	1.31	1.39	1.47	1.54	1.62	1.67	1.72			
16	.30	.44	.58	.71	.86	.96	1.08	1.14	1.14	1.19	1.30	1.41	1.51	1.61	1.70	1.79	1.87	1.94			
17	.34	.50	.65	.80	.95	1.09	1.23	1.39	1.46	1.49	1.61	1.81	1.93	1.84	1.95	2.05	2.15	2.24			
18	.38	.56	.74	.91	1.07	1.23	1.39	1.62	1.66	1.54	1.68	1.82	1.96	2.09	2.21	2.32	2.45	2.54			
19	.42	.63	.82	1.01	1.20	1.38	1.56	1.64	1.72	1.61	1.89	2.05	2.20	2.35	2.49	2.63	2.77	2.87			
20	.47	.69	.91	1.13	1.33	1.53	1.73	1.83	1.92	1.81	2.11	2.29	2.46	2.63	2.79	2.95	3.10	3.20			
21	.52	.77	1.01	1.25	1.48	1.70	1.92	2.03	2.13	2.04	2.34	2.54	2.74	2.92	3.11	3.29	3.46	3.56			
22	.57	.84	1.11	1.37	1.63	1.88	2.12	2.24	2.35	2.25	2.58	2.81	3.02	3.23	3.44	3.64	3.83	3.93			
23	.62	.92	1.22	1.50	1.78	2.06	2.32	2.45	2.58	2.48	2.84	3.09	3.33	3.56	3.79	4.01	4.23	4.33			
24	.68	1.01	1.33	1.64	1.95	2.25	2.54	2.68	2.83	2.73	3.11	3.38	3.64	3.90	4.15	4.40	4.64	4.74			
25	.74	1.09	1.44	1.78	2.12	2.45	2.77	2.92	3.08	3.08	3.48	3.68	3.97	4.26	4.54	4.81	5.07	5.17			
26	.80	1.18	1.56	1.93	2.30	2.65	3.00	3.17	3.34	3.34	3.68	4.00	4.32	4.63	4.94	5.23	5.52	5.62			
27	.86	1.23	1.69	2.09	2.48	2.87	3.25	3.43	3.62	3.59	4.02	4.33	4.68	5.02	5.35	5.68	5.99	6.09			
28	.93	1.34	1.82	2.25	2.68	3.09	3.50	3.70	3.90	4.29	4.68	5.04	5.46	5.84	6.14	6.48	6.78	6.88			
29	.99	1.43	1.95	2.42	2.88	3.33	3.77	3.98	4.20	4.62	5.04	5.44	5.85	6.28	6.70	7.12	7.52	7.62			
30	1.06	1.58	2.09	2.59	3.08	3.57	4.04	4.27	4.50	4.96	5.41	5.85	6.28	6.70	7.12	7.52	7.92	8.02			
31	1.14	1.69	2.24	2.77	3.30	3.82	4.32	4.57	4.82	5.31	5.79	6.27	6.73	7.18	7.63	8.07	8.47	8.57			
32	1.21	1.80	2.39	2.96	3.52	4.07	4.62	4.89	5.15	5.60	6.19	6.70	7.20	7.68	8.16	8.63	9.03	9.13			
33	1.29	1.92	2.54	3.15	3.75	4.34	4.92	5.21	5.49	6.05	6.60	7.15	7.68	8.20	8.72	9.22	9.62	9.72			
34	1.37	2.04	2.70	3.35	3.99	4.61	5.23	5.54	5.84	6.44	7.03	7.61	8.18	8.74	9.29	9.83	10.23	10.33			
35	1.45	2.16	2.86	3.55	4.22	4.87	5.55	5.88	6.20	6.84	7.47	8.08	8.69	9.29	9.85	10.48	11.09	11.19			
36	1.54	2.29	3.03	3.76	4.48	5.19	5.89	6.23	6.57	7.25	7.87	8.57	9.22	9.85	10.48	11.09	11.69	11.79			
37	1.62	2.42	3.20	3.98	4.74	5.49	6.23	6.59	6.96	7.67	8.36	9.08	9.76	10.44	11.10	11.76	12.34	12.44			
38	1.71	2.55	3.38	4.20	5.00	5.80	6.58	6.97	7.35	8.11	8.86	9.63	10.33	11.04	11.75	12.44	13.08	13.18			
39	1.81	2.69	3.56	4.42	5.27	6.11	6.94	7.35	7.75	8.56	9.35	10.13	10.90	11.66	12.41	13.14	13.78	13.88			
40	1.90	2.83	3.75	4.66	5.55	6.44	7.31	7.74	8.17	9.02	9.85	10.68	11.49	12.29	13.08	13.86	14.50	14.60			
41	2.00	2.98	3.94	4.90	5.84	6.77	7.69	8.14	8.59	9.49	10.37	11.24	12.10	12.95	13.78	14.60	15.23	15.33			
42	2.10	3.12	4.14	5.14	6.13	7.11	8.08	8.56	9.03	9.97	10.90	11.82	12.72	13.61	14.49	15.36	16.04	16.14			
43	2.20	3.28	4.34	5.40	6.44	7.46	8.48	8.98	9.48	10.47	11.44	12.40	13.31	14.20	15.08	15.94	16.74	16.84			
44	2.30	3.47	4.55	5.65	6.74	7.82	8.89	9.41	9.94	10.98	12.00	13.01	14.01	15.00	15.98	16.94	17.74	17.84			
45	2.41	3.59	4.76	5.92	7.06	8.19	9.30	9.86	10.41	11.50	12.57	13.63	14.67	15.72	16.74	17.76	18.59	18.69			
46	2.52	3.75	4.98	6.19	7.38	8.56	9.73	10.33	10.89	12.03	13.16	14.27	15.37	16.46	17.53	18.59	19.45	19.55			
47	2.63	3.92	5.20	6.46	7.71	8.95	10.17	10.78	11.38	12.57	13.75	14.92	16.07	17.21	18.33	19.45	20.32	20.42			
48	2.74	4.09	5.42	6.74	8.05	9.34	10.62	11.25	11.88	13.13	14.36	15.58	16.79	17.98	19.16	20.32	21.22	21.32			
49	2.86	4.26	5.65	7.03	8.39	9.74	11.07	11.73	12.39	13.70	14.98	16.26	17.52	18.77	20.00	21.22	22.13	22.23			
50	2.98	4.44	5.89	7.33	8.75	10.15	11.54	12.23	12.92	14.28	15.52	16.95	18.27	19.57	20.86	22.13	23.06	23.16			
51	3.10	4.62	6.13	7.63	9.10	10.57	12.02	12.75	13.45	14.87	16.27	17.66	19.03	20.39	21.73	23.06	24.01	24.11			
52	3.22	4.81	6.38	7.93	9.47	10.99	12.50	13.25	13.99	15.47	16.93	18.38	19.81	21.23	22.63	24.01	25.00	25.10			
53	3.35	4.99	6.53	8.24	9.84	11.43	13.00	13.78	14.55	16.09	17.61	19.12	20.61	22.08	23.54	25.00	26.00	26.10			
54	3.47	5.19	6.88	8.56	10.22	11.87	13.50	14.31	15.12	16.72	18.30	19.87	21.42	22.95	24.47	25.97	27.00	27.10			
55	3.60	5.38	7.14	8.89	10.61	12.32	14.02	14.86	15.69	17.36	19.00	20.63	22.24	23.84	25.42	26.98	28.00	28.10			
56	3.73	5.58	7.41	9.22	11.11	12.78	14.54	15.41	16.28	18.01	19.72	21.41	23.08	24.74	26.39	27.91	29.00	29.10			
57	3.87	5.79	7.63	9.55	11.41	13.25	15.07	15.98	16.88	18.67	20.45	22.20	23.94	25.66	27.37	29.06	30.10	30.20			
58	4.01	5.99	7.95	9.89	11.82	13.73	15.62	16.56	17.49	19.35	21.19	23.01	24.81	26.60	28.37	30.13	31.21	31.31			
59	4.15	6.20	8.23	10.24	12.24	14.21	16.17	17.14	18.11	20.04	21.94	23.83	25.70	27.56	29.39	31.21	32.31	32.41			
60	4.29	6.41	8.51	10.59	12.56	14.71	16.73	17.74	18.74	20.74	22.71	24.67	26.66	28.53	30.43	32.32	33.42	33.52			

* 1KIP=1000 POUNDS

Table 28.--Log weights for scaling lengths of 34 to 60 feet: density index = 54 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOC WEIGHT (KIPS*) FOR DENSITY INDEX=54										SCALING LENGTH (FEET)									
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60				
6	.15	.15	.15	.15	.14	.14	.14	.13	.13	.12	.12	.11	.11	.10	.09	.09				
7	.24	.24	.24	.24	.24	.24	.23	.23	.23	.22	.22	.21	.21	.20	.19	.18				
8	.35	.35	.35	.36	.36	.36	.36	.36	.35	.35	.35	.34	.34	.33	.32	.31				
9	.49	.48	.49	.49	.50	.50	.51	.51	.51	.51	.51	.50	.50	.50	.49	.48				
10	.63	.63	.64	.66	.67	.68	.68	.68	.69	.69	.70	.70	.70	.70	.69	.68				
11	.80	.81	.82	.84	.86	.87	.88	.89	.90	.91	.92	.92	.93	.93	.93	.93				
12	.99	1.00	1.02	1.05	1.07	1.10	1.11	1.12	1.14	1.15	1.17	1.18	1.19	1.20	1.20	1.20				
13	1.20	1.22	1.24	1.28	1.31	1.34	1.36	1.37	1.40	1.43	1.45	1.47	1.48	1.50	1.51	1.52				
14	1.43	1.46	1.48	1.53	1.56	1.62	1.64	1.66	1.69	1.73	1.76	1.78	1.81	1.82	1.85	1.87				
15	1.68	1.72	1.75	1.81	1.86	1.92	1.94	1.97	2.01	2.06	2.10	2.13	2.17	2.20	2.23	2.26				
16	1.96	1.99	2.03	2.11	2.17	2.24	2.27	2.30	2.36	2.42	2.47	2.51	2.56	2.60	2.64	2.67				
17	2.25	2.29	2.34	2.43	2.51	2.59	2.63	2.66	2.74	2.80	2.87	2.93	2.98	3.04	3.08	3.13				
18	2.56	2.62	2.67	2.77	2.87	2.96	3.01	3.05	3.14	3.22	3.30	3.37	3.44	3.50	3.57	3.62				
19	2.90	2.96	3.02	3.14	3.25	3.36	3.42	3.47	3.57	3.67	3.76	3.85	3.93	4.01	4.08	4.15				
20	3.25	3.32	3.39	3.53	3.66	3.79	3.85	3.91	4.03	4.14	4.25	4.35	4.45	4.54	4.63	4.72				
21	3.62	3.71	3.79	3.94	4.09	4.24	4.31	4.38	4.51	4.64	4.77	4.89	5.00	5.11	5.22	5.32				
22	4.02	4.11	4.20	4.38	4.55	4.71	4.79	4.87	5.03	5.18	5.32	5.46	5.59	5.72	5.84	5.96				
23	4.44	4.54	4.64	4.84	5.03	5.21	5.30	5.39	5.57	5.74	5.90	6.06	6.21	6.35	6.50	6.63				
24	4.87	4.99	5.10	5.32	5.57	5.74	5.84	5.94	6.14	6.33	6.51	6.69	6.86	7.03	7.19	7.34				
25	5.33	5.45	5.58	5.82	6.06	6.29	6.40	6.52	6.73	6.95	7.15	7.35	7.54	7.73	7.91	8.09				
26	5.81	5.94	6.08	6.35	6.61	6.87	6.99	7.12	7.36	7.59	7.82	8.04	8.26	8.47	8.67	8.87				
27	6.30	6.45	6.61	6.90	7.19	7.47	7.61	7.74	8.01	8.27	8.52	8.77	9.01	9.24	9.47	9.69				
28	6.82	6.99	7.15	7.47	7.79	8.10	8.25	8.40	8.69	8.97	9.25	9.52	9.79	10.05	10.30	10.54				
29	7.36	7.54	7.72	8.07	8.41	8.75	8.91	9.08	9.40	9.71	10.01	10.31	10.60	10.89	11.16	11.43				
30	7.92	8.11	8.31	8.69	9.06	9.43	9.60	9.78	10.13	10.47	10.81	11.13	11.45	11.76	12.06	12.36				
31	8.50	8.71	8.92	9.33	9.73	10.13	10.32	10.51	10.89	11.26	11.63	11.98	12.33	12.67	13.00	13.32				
32	9.10	9.32	9.55	9.99	10.42	10.86	11.07	11.27	11.68	12.08	12.48	12.86	13.24	13.61	13.97	14.32				
33	9.72	9.96	10.20	10.68	11.15	11.61	11.84	12.06	12.50	12.93	13.36	13.77	14.18	14.58	14.97	15.35				
34	10.36	10.62	10.88	11.39	11.89	12.39	12.63	12.87	13.35	13.81	14.27	14.72	15.16	15.59	16.01	16.42				
35	11.02	11.30	11.58	12.12	12.66	13.19	13.45	13.71	14.22	14.72	15.22	15.66	16.10	16.53	17.00	17.53				
36	11.72	12.00	12.29	12.88	13.45	14.02	14.30	14.59	15.12	15.66	16.18	16.70	17.21	17.70	18.19	18.67				
37	12.40	12.72	13.04	13.66	14.27	14.87	15.17	15.47	16.05	16.62	17.18	17.74	18.28	18.81	19.34	19.85				
38	13.12	13.46	13.80	14.46	15.11	15.75	16.07	16.38	17.01	17.62	18.22	18.81	19.39	19.96	20.52	21.07				
39	13.87	14.23	14.58	15.28	15.98	16.66	16.99	17.33	17.99	18.64	19.28	19.91	20.52	21.13	21.73	22.32				
40	14.63	15.01	15.39	16.13	16.87	17.59	17.95	18.30	19.00	19.69	20.37	21.04	21.69	22.34	22.98	23.60				
41	15.41	15.81	16.21	17.00	17.78	18.54	18.92	19.30	20.04	20.77	21.49	22.20	22.90	23.59	24.28	24.93				
42	16.22	16.64	17.06	17.89	18.71	19.52	19.92	20.32	21.11	21.88	22.64	23.39	24.13	24.86	25.58	26.29				
43	17.04	17.49	17.93	18.81	19.68	20.53	20.95	21.37	22.20	23.02	23.82	24.62	25.40	26.17	26.93	27.68				
44	17.89	18.36	18.82	19.75	20.58	21.56	22.01	22.45	23.32	24.19	25.04	25.88	26.70	27.52	28.32	29.11				
45	18.75	19.25	19.74	20.71	21.67	22.65	23.19	23.65	24.55	25.45	26.31	27.16	28.00	28.80	29.58	30.38				
46	19.64	20.16	20.67	21.69	22.70	23.70	24.29	24.69	25.65	26.61	27.55	28.48	29.40	30.31	31.16	32.00				
47	20.55	21.09	21.63	22.70	23.76	24.80	25.32	25.84	26.85	27.86	28.85	29.83	30.80	31.75	32.69	33.62				
48	21.47	22.04	22.61	23.73	24.84	25.94	26.48	27.02	28.09	29.14	30.19	31.19	32.23	33.23	34.23	35.20				
49	22.42	23.02	23.61	24.78	25.95	27.09	27.66	28.23	29.35	30.45	31.55	32.63	33.69	34.75	35.78	36.81				
50	23.39	24.01	24.63	25.86	27.08	28.28	28.87	29.46	30.64	31.79	32.94	34.07	35.19	36.29	37.38	38.46				
51	24.37	25.03	25.67	26.96	28.23	29.48	30.11	30.72	31.95	33.16	34.36	35.55	36.72	37.87	39.01	40.14				
52	25.38	26.06	26.74	28.08	29.41	30.72	31.37	32.01	33.30	34.56	35.81	37.05	38.28	39.49	40.68	41.86				
53	26.41	27.12	27.83	29.22	30.61	31.93	32.65	33.33	34.67	35.99	37.30	38.59	39.87	41.13	42.38	43.62				
54	27.46	28.20	28.93	30.39	31.82	33.26	33.97	34.67	36.06	37.44	38.81	40.16	41.49	42.81	44.12	45.41				
55	28.53	29.30	30.06	31.58	33.08	34.57	35.30	36.04	37.49	38.93	40.35	41.76	43.15	44.53	45.89	47.24				
56	29.62	30.42	31.22	32.79	34.36	35.90	36.67	37.43	38.95	40.43	41.93	43.39	44.84	46.28	47.71	49.10				
57	30.73	31.56	32.39	34.03	35.65	37.26	38.06	38.85	40.43	41.99	43.52	45.05	46.57	48.06	49.54	51.00				
58	31.86	32.73	33.58	35.29	36.97	38.63	39.47	40.20	41.94	43.56	45.16	46.75	48.32	49.88	51.42	52.94				
59	33.02	33.91	34.80	36.57	38.32	40.05	40.92	41.77	43.47	45.16	46.82	48.47	50.11	51.73	53.33	54.91				
60	34.19	35.12	36.04	37.87	39.65	41.49	42.38	43.27	45.04	46.79	48.52	50.23	51.93	53.61	55.27	56.93				

* 1KIP=1000 POUNDS

Table 29.---Log weights for scaling lengths of 4 to 32 feet: density index = 56 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=56																																
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																															
	4	5	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32															
6	.04	.06	.08	.09	.10	.11	.12	.13	.13	.14	.14	.15	.15	.15	.16	.16	.16															
7	.06	.09	.11	.13	.15	.16	.18	.19	.19	.20	.21	.21	.22	.23	.24	.24	.25															
8	.07	.11	.14	.17	.20	.22	.24	.25	.25	.26	.28	.29	.31	.33	.34	.35	.35															
9	.10	.14	.18	.22	.25	.29	.32	.33	.33	.35	.37	.40	.42	.44	.45	.47	.48															
10	.12	.17	.22	.27	.32	.36	.40	.42	.44	.47	.50	.54	.55	.56	.59	.61	.63															
11	.14	.21	.27	.33	.39	.45	.50	.52	.54	.59	.63	.67	.71	.74	.77	.80	.81															
12	.17	.25	.33	.40	.47	.54	.60	.62	.66	.72	.77	.82	.87	.91	.95	.99	.99															
13	.20	.30	.39	.48	.56	.64	.72	.75	.79	.86	.92	.98	1.04	1.10	1.15	1.20	1.20															
14	.24	.35	.45	.56	.66	.75	.84	.88	.93	1.01	1.09	1.16	1.23	1.30	1.36	1.43	1.43															
15	.27	.40	.52	.64	.76	.87	.97	1.07	1.13	1.24	1.35	1.46	1.57	1.67	1.76	1.86	1.86															
16	.31	.46	.60	.74	.87	1.00	1.12	1.18	1.24	1.35	1.46	1.57	1.67	1.76	1.86	1.96	1.96															
17	.35	.52	.68	.83	.99	1.13	1.27	1.34	1.41	1.54	1.67	1.79	1.91	2.02	2.13	2.23	2.23															
18	.39	.58	.76	.94	1.11	1.28	1.44	1.52	1.59	1.74	1.89	2.03	2.14	2.26	2.39	2.52	2.52															
19	.44	.65	.85	1.05	1.24	1.43	1.61	1.70	1.79	1.96	2.12	2.28	2.44	2.59	2.73	2.87	2.87															
20	.49	.72	.95	1.17	1.38	1.59	1.80	1.90	1.99	2.19	2.37	2.55	2.73	2.90	3.06	3.22	3.22															
21	.54	.80	1.05	1.29	1.53	1.76	1.99	2.10	2.21	2.43	2.63	2.84	3.03	3.22	3.41	3.59	3.59															
22	.59	.87	1.15	1.42	1.69	1.94	2.20	2.32	2.44	2.68	2.91	3.14	3.35	3.57	3.77	3.97	3.97															
23	.65	.96	1.26	1.56	1.85	2.13	2.41	2.55	2.68	2.94	3.20	3.45	3.69	3.93	4.16	4.38	4.38															
24	.70	1.04	1.38	1.70	2.02	2.32	2.62	2.78	2.93	3.22	3.50	3.78	4.05	4.31	4.58	4.81	4.81															
25	.76	1.13	1.50	1.85	2.20	2.54	2.87	3.03	3.19	3.51	3.82	4.12	4.42	4.70	4.99	5.26	5.26															
26	.83	1.23	1.62	2.01	2.38	2.75	3.11	3.29	3.47	3.81	4.13	4.48	4.80	5.12	5.43	5.73	5.73															
27	.89	1.33	1.75	2.17	2.58	2.98	3.37	3.56	3.75	4.13	4.49	4.85	5.21	5.55	5.89	6.22	6.22															
28	.96	1.43	1.88	2.32	2.76	3.21	3.63	3.84	4.05	4.45	4.85	5.24	5.62	6.00	6.37	6.72	6.72															
29	1.03	1.53	2.02	2.51	2.98	3.45	3.91	4.13	4.35	4.79	5.21	5.65	6.06	6.47	6.86	7.25	7.25															
30	1.10	1.64	2.17	2.69	3.20	3.70	4.19	4.43	4.67	5.15	5.61	6.06	6.51	6.95	7.38	7.82	7.82															
31	1.18	1.75	2.32	2.87	3.42	3.96	4.48	4.74	5.00	5.51	6.01	6.50	6.94	7.39	7.81	8.37	8.37															
32	1.26	1.87	2.47	3.07	3.65	4.22	4.79	5.07	5.34	5.89	6.42	6.95	7.46	7.97	8.49	9.05	9.05															
33	1.34	1.99	2.63	3.27	3.89	4.50	5.10	5.40	5.69	6.28	6.85	7.41	7.96	8.51	9.04	9.56	9.56															
34	1.42	2.11	2.80	3.47	4.13	4.74	5.34	5.74	6.06	6.68	7.29	7.89	8.48	9.06	9.63	10.19	10.19															
35	1.51	2.24	2.97	3.68	4.39	5.08	5.76	6.17	6.43	7.09	7.74	8.38	9.01	9.63	10.24	10.84	10.84															
36	1.59	2.37	3.14	3.90	4.64	5.38	6.10	6.46	6.82	7.52	8.21	8.89	9.56	10.22	10.87	11.51	11.51															
37	1.68	2.51	3.32	4.12	4.91	5.69	6.46	6.84	7.21	7.96	8.69	9.41	10.13	10.83	11.51	12.19	12.19															
38	1.78	2.65	3.51	4.35	5.16	5.91	6.61	6.82	7.22	7.62	8.41	9.19	9.95	10.71	11.45	12.18	12.18															
39	1.87	2.79	3.70	4.59	5.47	6.34	7.20	7.52	8.04	8.87	9.70	10.51	11.30	12.09	12.87	13.63	13.63															
40	1.97	2.94	3.89	4.83	5.75	6.68	7.58	8.03	8.47	9.35	10.22	11.07	11.92	12.75	13.57	14.38	14.38															
41	2.07	3.09	4.09	5.08	6.06	7.02	7.97	8.44	8.91	9.84	10.75	11.66	12.55	13.42	14.29	15.14	15.14															
42	2.17	3.24	4.29	5.33	6.36	7.38	8.38	8.87	9.37	10.34	11.30	12.26	13.19	14.12	15.03	15.93	15.93															
43	2.28	3.40	4.50	5.60	6.67	7.74	8.79	9.31	9.83	10.86	11.87	12.87	13.86	14.83	15.79	16.74	16.74															
44	2.39	3.56	4.72	5.86	6.99	8.11	9.22	9.76	10.31	11.38	12.45	13.50	14.53	15.56	16.57	17.57	17.57															
45	2.50	3.72	4.94	6.14	7.32	8.49	9.65	10.29	10.79	11.92	13.04	14.14	15.23	16.30	17.36	18.41	18.41															
46	2.61	3.89	5.16	6.42	7.66	8.88	10.09	10.69	11.49	12.47	13.64	14.80	15.94	17.07	18.18	19.28	19.28															
47	2.73	4.07	5.39	6.70	8.00	9.28	10.55	11.17	11.80	13.04	14.29	15.47	16.67	17.85	19.01	20.17	20.17															
48	2.84	4.24	5.63	6.99	8.35	9.60	11.01	11.67	12.32	13.61	14.89	16.16	17.41	18.65	19.87	21.07	21.07															
49	2.96	4.42	5.86	7.29	8.71	10.10	11.48	11.67	12.85	14.20	15.54	16.86	18.17	19.46	20.74	22.00	22.00															
50	3.09	4.61	6.11	7.60	9.07	10.53	11.97	12.68	13.79	15.10	16.40	17.70	18.94	20.29	21.63	22.95	22.95															
51	3.21	4.79	6.36	7.91	9.44	10.96	12.46	13.21	13.95	15.42	16.87	18.31	19.74	21.14	22.54	23.92	23.92															
52	3.34	4.98	6.61	8.23	9.82	11.40	12.97	13.74	14.51	16.04	17.56	19.06	20.54	22.01	23.47	24.90	24.90															
53	3.47	5.18	6.87	8.55	10.21	11.88	13.49	14.29	15.09	16.68	18.26	19.82	21.37	22.90	24.41	25.91	25.91															
54	3.60	5.38	7.14	8.98	10.81	12.51	14.10	14.84	15.68	17.33	18.98	20.60	22.21	23.80	25.38	26.94	26.94															
55	3.74	5.58	7.41	9.31	11.14	12.78	14.54	15.14	15.98	18.00	19.70	21.39	23.07	24.72	26.36	27.98	27.98															
56	3.88	5.79	7.68	9.56	11.41	13.26	15.08	15.94	16.89	19.19	20.95	22.69	24.42	26.14	27.85	29.55	29.55															
57	4.02	6.00	7.96	9.90	11.83	13.74	15.63	16.57	17.51	19.86	21.70	23.52	25.33	27.13	28.93	30.74	30.74															
58	4.16	6.21	8.24	10.26	12.26	14.24	16.20	17.17	18.14	20.68	22.67	24.66	26.65	28.63	30.62	32.64	32.64															
59	4.30	6.43	8.53	10.62	12.56	14.74	16.77	17.78	18.78	21.40	23.49	25.58	27.67	29.75	31.84	33.94	33.94															
60	4.45	6.65	8.83	10.99	13.13	15.25	17.35	18.40	19.44	21.50	23.55	25.59	27.59	29.59	31.56	33.52	33.52															

Table 30.--Log weights for scaling lengths of 34 to 60 feet: density index = 56 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIIPS*) FOR DENSITY INDEX=56																												
LARGE END DIAMETER (INCHES)		SCALING LENGTH (FEET)																										
		34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
6	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
7	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
8	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
9	49	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
10	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92
11	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110
12	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152	154	156
13	124	127	129	133	136	139	141	144	147	150	153	156	159	162	165	168	171	174	177	180	183	186	189	192	195	198	201	204
14	148	151	154	158	161	164	167	170	173	176	179	182	185	188	191	194	197	200	203	206	209	212	215	218	221	224	227	230
15	175	178	181	184	187	190	193	196	199	202	205	208	211	214	217	220	223	226	229	232	235	238	241	244	247	250	253	256
16	203	206	209	212	215	218	221	224	227	230	233	236	239	242	245	248	251	254	257	260	263	266	269	272	275	278	281	284
17	233	236	239	242	245	248	251	254	257	260	263	266	269	272	275	278	281	284	287	290	293	296	299	302	305	308	311	314
18	266	271	277	283	289	295	301	307	313	319	325	331	337	343	349	355	361	367	373	379	385	391	397	403	409	415	421	427
19	300	307	313	320	326	332	338	344	350	356	362	368	374	380	386	392	398	404	410	416	422	428	434	440	446	452	458	464
20	337	344	352	360	367	375	382	390	397	405	412	420	427	435	442	450	457	465	472	480	487	495	502	510	517	525	532	540
21	376	384	393	401	409	417	425	433	441	449	457	465	473	481	489	497	505	513	521	529	537	545	553	561	569	577	585	593
22	417	426	436	445	454	462	471	480	488	496	505	513	521	529	537	545	553	561	569	577	585	593	601	609	617	625	633	641
23	460	471	481	491	502	511	521	530	539	548	557	566	575	584	593	602	611	620	629	638	647	656	665	674	683	692	701	710
24	505	517	529	542	554	566	578	590	602	614	626	638	650	662	674	686	698	710	722	734	746	758	770	782	794	806	818	830
25	553	566	579	594	608	622	636	650	664	678	692	706	720	734	748	762	776	790	804	818	832	846	860	874	888	902	916	930
26	602	616	631	647	663	678	693	709	725	740	755	770	785	800	815	830	845	860	875	890	905	920	935	950	965	980	995	1010
27	654	669	685	701	716	732	747	763	778	793	808	823	838	853	868	883	898	913	928	943	958	973	988	1003	1018	1033	1048	1063
28	707	723	740	756	772	788	804	820	836	852	867	883	898	914	929	944	959	974	989	1004	1019	1034	1049	1064	1079	1094	1109	1124
29	763	782	800	818	837	857	876	895	914	933	952	971	990	1009	1028	1047	1066	1085	1104	1123	1142	1161	1180	1199	1218	1237	1256	1275
30	821	841	861	881	901	921	941	961	981	1001	1021	1041	1061	1081	1101	1121	1141	1161	1181	1201	1221	1241	1261	1281	1301	1321	1341	1361
31	881	903	925	947	969	991	1013	1035	1057	1079	1101	1123	1145	1167	1189	1211	1233	1255	1277	1299	1321	1343	1365	1387	1409	1431	1453	1475
32	943	967	990	1013	1036	1059	1082	1105	1128	1151	1174	1197	1220	1243	1266	1289	1312	1335	1358	1381	1404	1427	1450	1473	1496	1519	1542	1565
33	1008	1033	1058	1083	1108	1133	1158	1183	1208	1233	1258	1283	1308	1333	1358	1383	1408	1433	1458	1483	1508	1533	1558	1583	1608	1633	1658	1683
34	1074	1101	1128	1155	1181	1208	1235	1261	1288	1314	1341	1368	1394	1421	1447	1474	1501	1527	1554	1581	1607	1634	1661	1687	1714	1741	1768	1794
35	1143	1172	1200	1227	1255	1283	1310	1338	1365	1393	1420	1448	1475	1503	1530	1558	1585	1613	1640	1668	1695	1723	1750	1778	1805	1833	1860	1888
36	1213	1244	1275	1305	1336	1367	1398	1429	1460	1491	1522	1553	1584	1615	1646	1677	1708	1739	1770	1801	1832	1863	1894	1925	1956	1987	2018	2049
37	1286	1319	1352	1385	1416	1448	1480	1512	1544	1576	1608	1640	1672	1704	1736	1768	1800	1832	1864	1896	1928	1960	1992	2024	2056	2088	2120	2152
38	1361	1396	1431	1465	1500	1534	1568	1602	1636	1670	1704	1738	1772	1806	1840	1874	1908	1942	1976	2010	2044	2078	2112	2146	2180	2214	2248	2282
39	1438	1475	1512	1549	1585	1621	1657	1693	1729	1765	1801	1837	1873	1909	1945	1981	2017	2053	2089	2125	2161	2197	2233	2269	2305	2341	2377	2413
40	1517	1557	1596	1637	1677	1717	1757	1797	1837	1877	1917	1957	1997	2037	2077	2117	2157	2197	2237	2277	2317	2357	2397	2437	2477	2517	2557	2597
41	1598	1640	1681	1723	1764	1805	1846	1887	1928	1969	2010	2051	2092	2133	2174	2215	2256	2297	2338	2379	2420	2461	2502	2543	2584	2625	2666	2707
42	1682	1726	1769	1811	1853	1895	1937	1979	2021	2063	2105	2147	2189	2231	2273	2315	2357	2399	2441	2483	2525	2567	2609	2651	2693	2735	2777	2819
43	1767	1814	1860	1905	1950	1995	2040	2085	2130	2175	2220	2265	2310	2355	2400	2445	2490	2535	2580	2625	2670	2715	2760	2805	2850	2895	2940	2985
44	1855	1904	1952	2000	2048	2096	2144	2192	2240	2288	2336	2384	2432	2480	2528	2576	2624	2672	2720	2768	2816	2864	2912	2960	3008	3056	3104	3152
45	1945	1996	2047	2098	2149	2200	2251	2302	2353	2404	2455	2506	2557	2608	2659	2710	2761	2812	2863	2914	2965	3016	3067	3118	3169	3220	3271	3322
46	2037	2091	2144	2197	2250	2303	2356	2409	2462	2515	2568	2621	2674	2727	2780	2833	2886	2939	2992	3045	3098	3151	3204	3257	3310	3363	3416	3469
47	2131	2187	2242	2297	2352	2407	2462	2517	2572	2627	2682	2737	2792	2847	2902	2957	3012	3067	3122	3177	3232	3287	3342	3397	3452	3507	3562	3617
48	2227	2286	2345	2404	2463	2522	2581	2640	2699	2758	2817	2876	2935	2994	3053	3112	3171	3230	3289	3348	3407	3466	3525	3584	3643	3702	3761	3820
49	2325	2387	2448	2509	2570	2631	2692	2753	2814	2875	2936	2997	3058	3119	3180	3241	3302	3363	3424	3485	3546	3607	3668	3729	3790	3851	3912	3973
50	2425	2490	2554	2619	2683	2748	2812	2877	2941	3006	3070	3134	3198	3262	3326	3390	3454	3518	3582	3646	3710	3774	3838	3902	3966	4030	4094	4158
51	2528	2595	2662	2729	2796	2863	2930	2997	3064	3131	3198	3265	3332	3399	3466	3533	3600	3667	3734	3801	3868	3935	4002	4069	4136	4203	4270	4337
52	2632	2703	2773	2843	2912	2982	3052	3122	3192	3262	3332	3402	3472	3542	3612	3682	3752	3822	3892	3962	4032	4102	4172	4242	4312	4382	4452	4522
53	2739	2813	2886	2959	3031	3104	3177	3250	3323	3396	3469	3542	3615	3688	3761	3834	3907	3980	4053	4126	4199	4272	4345	4418	4491	4564	4637	4710
54	2848	2924	3001	3078	3155	3232	3309	3386	3463	3540	3617	3694	3771	3848	3925	4002	4079	4156	4233	4310	4387	4464	4541	4618	4695	4772	4849	4926
55	2959	3039	3118	3197	3276																							

* 1KIP=1000 POUNDS

Table 31.--Log weights for scaling lengths of 4 to 32 feet: density index = 58 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=58																
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.04	.06	.08	.10	.11	.12	.13	.13	.14	.14	.15	.15	.16	.16	.16	.16
7	.06	.08	.11	.13	.15	.17	.18	.19	.20	.21	.22	.23	.24	.25	.25	.25
8	.08	.11	.14	.18	.20	.23	.25	.26	.27	.29	.31	.32	.34	.35	.35	.37
9	.10	.14	.19	.23	.26	.30	.32	.34	.36	.39	.41	.43	.45	.47	.49	.50
10	.12	.18	.23	.28	.33	.37	.42	.44	.46	.49	.53	.56	.58	.61	.63	.65
11	.15	.22	.28	.35	.41	.46	.51	.54	.56	.61	.65	.69	.73	.77	.80	.83
12	.18	.26	.34	.42	.48	.55	.62	.65	.68	.74	.80	.85	.90	.94	.99	1.02
13	.21	.31	.40	.49	.58	.66	.74	.78	.82	.89	.96	1.02	1.08	1.14	1.19	1.24
14	.24	.36	.47	.58	.68	.78	.87	.92	.96	1.05	1.13	1.20	1.28	1.35	1.42	1.48
15	.28	.41	.54	.67	.79	.93	1.04	1.06	1.12	1.22	1.31	1.41	1.49	1.58	1.66	1.74
16	.32	.47	.62	.76	.90	1.03	1.16	1.22	1.28	1.40	1.51	1.62	1.73	1.83	1.92	2.01
17	.36	.54	.70	.86	1.02	1.17	1.32	1.39	1.46	1.60	1.73	1.85	1.98	2.09	2.20	2.31
18	.41	.60	.79	.97	1.15	1.32	1.49	1.57	1.65	1.81	1.96	2.10	2.24	2.38	2.51	2.63
19	.45	.67	.88	1.09	1.29	1.48	1.67	1.76	1.85	2.03	2.20	2.37	2.52	2.68	2.83	2.97
20	.50	.75	.98	1.24	1.43	1.65	1.86	1.96	2.07	2.26	2.46	2.64	2.82	3.00	3.17	3.33
21	.56	.82	1.08	1.34	1.56	1.83	2.06	2.18	2.29	2.51	2.73	2.94	3.14	3.34	3.53	3.71
22	.61	.91	1.19	1.47	1.75	2.01	2.27	2.40	2.53	2.77	3.01	3.25	3.47	3.69	3.91	4.12
23	.67	.99	1.31	1.61	1.92	2.21	2.50	2.64	2.78	3.05	3.31	3.57	3.82	4.07	4.31	4.56
24	.73	1.08	1.43	1.76	2.09	2.41	2.73	2.88	3.04	3.34	3.63	3.91	4.19	4.46	4.73	4.98
25	.79	1.17	1.55	1.92	2.28	2.63	2.97	3.14	3.31	3.64	3.96	4.27	4.57	4.87	5.16	5.45
26	.86	1.27	1.68	2.08	2.47	2.85	3.22	3.41	3.59	3.95	4.30	4.64	4.97	5.30	5.62	5.93
27	.92	1.37	1.81	2.24	2.67	3.08	3.49	3.69	3.88	4.27	4.65	5.03	5.39	5.75	6.10	6.44
28	.99	1.48	1.95	2.42	2.87	3.32	3.76	3.98	4.19	4.61	5.01	5.43	5.83	6.21	6.59	6.96
29	1.07	1.59	2.10	2.60	3.06	3.57	4.04	4.28	4.51	4.96	5.41	5.85	6.28	6.70	7.11	7.51
30	1.14	1.70	2.25	2.78	3.31	3.83	4.34	4.59	4.84	5.31	5.81	6.28	6.74	7.20	7.64	8.08
31	1.22	1.82	2.40	2.98	3.54	4.10	4.64	4.91	5.18	5.71	6.22	6.73	7.23	7.72	8.20	8.67
32	1.30	1.94	2.56	3.18	3.78	4.37	4.96	5.25	5.53	6.10	6.65	7.19	7.73	8.25	8.77	9.27
33	1.39	2.06	2.73	3.38	4.02	4.68	5.28	5.59	5.86	6.50	7.09	7.68	8.25	8.81	9.36	9.90
34	1.47	2.19	2.90	3.59	4.28	4.96	5.62	5.95	6.27	6.92	7.55	8.17	8.78	9.38	9.97	10.55
35	1.56	2.32	3.07	3.81	4.54	5.26	5.97	6.31	6.66	7.35	8.02	8.69	9.33	9.97	10.61	11.23
36	1.65	2.45	3.25	4.04	4.81	5.57	6.32	6.69	7.06	7.79	8.50	9.21	9.90	10.58	11.26	11.92
37	1.74	2.60	3.44	4.27	5.05	5.89	6.69	7.08	7.47	8.24	9.00	9.75	10.49	11.21	11.93	12.63
38	1.84	2.74	3.63	4.51	5.37	6.23	7.07	7.48	7.89	8.71	9.51	10.31	11.09	11.86	12.62	13.36
39	1.94	2.89	3.83	4.75	5.66	6.57	7.45	7.89	8.33	9.19	10.04	10.88	11.71	12.52	13.32	14.12
40	2.04	3.04	4.03	5.00	5.97	6.91	7.85	8.31	8.77	9.69	10.58	11.47	12.34	13.20	14.05	14.89
41	2.14	3.20	4.24	5.25	6.27	7.27	8.26	8.75	9.23	10.19	11.14	12.07	12.94	13.80	14.65	15.49
42	2.25	3.35	4.45	5.52	6.59	7.64	8.68	9.19	9.70	10.71	11.71	12.69	13.66	14.62	15.57	16.51
43	2.36	3.52	4.66	5.80	6.91	8.02	9.11	9.65	10.18	11.24	12.29	13.33	14.35	15.36	16.35	17.34
44	2.47	3.69	4.89	6.07	7.24	8.40	9.54	10.11	10.67	11.79	12.89	13.98	15.05	16.11	17.16	18.19
45	2.59	3.86	5.11	6.36	7.59	8.80	9.99	10.59	11.18	12.35	13.50	14.64	15.77	16.89	17.98	19.07
46	2.70	4.02	5.35	6.64	7.92	9.20	10.45	11.09	11.69	12.92	14.13	15.33	16.51	17.68	18.83	19.97
47	2.82	4.21	5.59	6.94	8.28	9.61	10.82	11.57	12.22	13.50	14.77	16.02	17.26	18.48	19.69	20.89
48	2.94	4.39	5.82	7.24	8.65	10.02	11.40	12.08	12.76	14.10	15.43	16.74	18.02	19.31	20.58	21.83
49	3.07	4.53	6.07	7.55	9.02	10.46	11.89	12.60	13.31	14.71	16.09	17.46	18.82	20.15	21.48	22.80
50	3.20	4.77	6.33	7.87	9.35	10.80	12.30	13.04	13.81	15.33	16.78	18.21	19.62	21.02	22.48	23.91
51	3.33	4.95	6.53	8.19	9.76	11.31	12.84	13.68	14.45	16.07	17.54	19.07	20.48	21.90	23.34	24.77
52	3.46	5.16	6.85	8.52	10.17	11.81	13.43	14.23	15.03	16.62	18.19	19.74	21.28	22.80	24.32	25.79
53	3.59	5.36	7.13	8.85	10.57	12.26	13.96	14.80	15.63	17.33	19.01	20.53	22.17	23.72	25.28	26.83
54	3.73	5.57	7.39	9.25	10.98	12.75	14.56	15.47	16.26	18.09	19.85	21.53	23.31	25.08	26.84	28.60
55	3.87	5.76	7.67	9.54	11.40	13.24	15.06	15.96	16.86	18.79	20.64	22.48	24.44	26.39	28.34	30.09
56	4.01	5.99	7.95	9.90	11.83	13.77	15.67	16.56	17.46	19.53	21.48	23.49	25.69	27.58	29.44	31.11
57	4.15	6.21	8.24	10.25	12.25	14.23	16.19	17.16	18.13	20.36	22.36	24.45	26.57	28.57	30.47	32.36
58	4.31	6.43	8.54	10.63	12.69	14.74	16.77	17.78	18.79	21.19	23.28	25.41	27.51	29.57	31.47	33.36
59	4.46	6.66	8.86	10.94	13.14	15.26	17.37	18.41	19.45	21.92	24.09	26.30	28.51	30.61	32.61	34.71

Table 32.--Log weights for scaling lengths of 34 to 60 feet: density index = 58 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	34	35	36	38	41	42	43	44	46	48	50	52	54	56	58	60
6	.16	.15	.15	.16	.15	.15	.15	.14	.14	.13	.13	.12	.11	.11	.10	.09
7	.26	.26	.26	.26	.26	.25	.25	.25	.25	.24	.23	.23	.22	.21	.20	.19
8	.37	.36	.36	.36	.36	.36	.36	.35	.35	.34	.33	.33	.32	.31	.30	.29
9	.51	.52	.52	.52	.54	.54	.54	.54	.55	.55	.54	.54	.54	.53	.52	.51
10	.68	.69	.69	.70	.72	.72	.72	.74	.74	.75	.75	.75	.75	.74	.73	.72
11	.86	.87	.89	.90	.92	.94	.95	.95	.97	.98	.98	.99	1.00	1.00	1.00	1.00
12	1.06	1.08	1.09	1.13	1.15	1.18	1.19	1.20	1.22	1.24	1.25	1.27	1.28	1.29	1.29	1.29
13	1.29	1.31	1.33	1.37	1.41	1.44	1.46	1.48	1.50	1.53	1.55	1.57	1.59	1.61	1.62	1.63
14	1.54	1.56	1.59	1.64	1.69	1.74	1.76	1.78	1.82	1.85	1.89	1.92	1.94	1.97	1.99	2.00
15	1.84	1.84	1.88	1.94	2.00	2.06	2.09	2.11	2.16	2.21	2.25	2.29	2.33	2.36	2.39	2.42
16	2.10	2.14	2.18	2.26	2.34	2.41	2.44	2.47	2.54	2.59	2.65	2.70	2.75	2.79	2.83	2.87
17	2.41	2.46	2.51	2.61	2.71	2.78	2.82	2.86	2.94	3.01	3.08	3.14	3.20	3.26	3.31	3.36
18	2.75	2.81	2.87	2.98	3.08	3.18	3.23	3.28	3.37	3.46	3.54	3.62	3.69	3.76	3.83	3.89
19	3.11	3.16	3.24	3.37	3.45	3.61	3.67	3.73	3.83	3.94	4.04	4.13	4.22	4.30	4.38	4.46
20	3.49	3.57	3.64	3.79	3.93	4.07	4.14	4.20	4.33	4.45	4.56	4.67	4.78	4.88	4.98	5.07
21	3.89	3.98	4.07	4.23	4.40	4.55	4.63	4.70	4.85	4.99	5.12	5.25	5.37	5.49	5.61	5.71
22	4.32	4.42	4.51	4.70	4.89	5.06	5.15	5.23	5.40	5.56	5.71	5.86	6.00	6.14	6.27	6.40
23	4.76	4.87	4.98	5.20	5.40	5.60	5.70	5.79	5.98	6.16	6.34	6.51	6.67	6.83	6.98	7.12
24	5.23	5.36	5.48	5.71	5.94	6.17	6.27	6.38	6.59	6.80	6.99	7.18	7.37	7.55	7.72	7.88
25	5.72	5.86	5.99	6.25	6.51	6.76	6.88	7.00	7.23	7.46	7.68	7.89	8.10	8.30	8.50	8.69
26	6.24	6.38	6.53	6.82	7.12	7.38	7.51	7.64	7.90	8.16	8.40	8.64	8.87	9.10	9.31	9.53
27	6.77	6.93	7.09	7.41	7.72	8.02	8.17	8.32	8.60	8.89	9.15	9.42	9.68	9.93	10.17	10.40
28	7.33	7.50	7.68	8.03	8.37	8.70	8.86	9.02	9.33	9.64	9.94	10.23	10.51	10.79	11.06	11.32
29	7.90	8.10	8.29	8.67	9.04	9.40	9.57	9.75	10.09	10.43	10.76	11.08	11.39	11.69	11.99	12.28
30	8.50	8.71	8.93	9.33	9.73	10.12	10.32	10.51	10.88	11.25	11.61	11.96	12.30	12.63	12.95	13.27
31	9.13	9.35	9.58	10.02	10.45	10.88	11.09	11.29	11.70	12.10	12.49	12.87	13.24	13.60	13.95	14.31
32	9.77	10.01	10.26	10.73	11.20	11.66	11.89	12.11	12.55	12.98	13.40	13.81	14.22	14.61	15.00	15.38
33	10.44	10.70	10.96	11.47	11.98	12.47	12.71	12.95	13.43	13.89	14.35	14.79	15.23	15.66	16.08	16.49
34	11.12	11.41	11.69	12.23	12.77	13.30	13.57	13.83	14.34	14.84	15.33	15.81	16.28	16.74	17.20	17.64
35	11.83	12.14	12.43	13.02	13.60	14.17	14.45	14.73	15.27	15.81	16.34	16.86	17.36	17.86	18.35	18.83
36	12.57	12.89	13.21	13.83	14.45	15.06	15.36	15.65	16.24	16.82	17.38	17.94	18.48	19.02	19.54	20.05
37	13.32	13.66	14.00	14.67	15.33	15.98	16.30	16.61	17.24	17.85	18.46	19.05	19.63	20.21	20.77	21.32
38	14.10	14.45	14.83	15.53	16.23	16.92	17.26	17.60	18.26	18.92	19.57	20.20	20.82	21.43	22.04	22.63
39	14.90	15.28	15.65	16.42	17.16	17.89	18.25	18.61	19.32	20.02	20.71	21.38	22.04	22.70	23.34	23.97
40	15.71	16.12	16.53	17.33	18.11	18.89	19.27	19.65	20.41	21.15	21.88	22.60	23.30	24.00	24.68	25.35
41	16.56	16.99	17.41	18.26	19.09	19.92	20.32	20.73	21.52	22.31	23.08	23.84	24.59	25.33	26.06	26.77
42	17.42	17.87	18.33	19.22	20.10	20.97	21.40	21.83	22.67	23.50	24.32	25.13	25.92	26.70	27.47	28.23
43	18.30	18.78	19.28	20.20	21.13	22.05	22.50	22.95	23.85	24.72	25.59	26.44	27.28	28.11	28.93	29.73
44	19.21	19.72	20.26	21.21	22.15	23.16	23.64	24.11	25.05	25.98	26.89	27.79	28.68	29.56	30.42	31.27
45	20.14	20.67	21.23	22.24	23.27	24.29	24.80	25.30	26.29	27.26	28.23	29.18	30.11	31.04	31.95	32.84
46	21.09	21.65	22.23	23.30	24.38	25.45	25.98	26.51	27.55	28.59	29.59	30.59	31.56	32.53	33.46	34.46
47	22.07	22.65	23.23	24.38	25.52	26.64	27.20	27.75	28.84	29.92	30.99	32.04	33.08	34.12	35.16	36.11
48	23.08	23.67	24.28	25.49	26.68	27.85	28.43	29.02	30.17	31.30	32.42	33.50	34.62	35.69	36.76	37.81
49	24.12	24.73	25.36	26.62	27.87	29.10	29.71	30.32	31.52	32.71	33.88	35.04	36.19	37.32	38.43	39.54
50	25.18	25.81	26.45	27.76	29.08	30.37	31.01	31.65	32.91	34.15	35.38	36.59	37.79	38.98	40.15	41.31
51	26.26	26.90	27.59	28.96	30.32	31.67	32.34	33.00	34.32	35.62	36.91	38.18	39.44	40.68	41.90	43.11
52	27.36	28.02	28.72	30.16	31.58	32.99	33.69	34.38	35.76	37.12	38.47	39.80	41.11	42.41	43.69	44.96
53	28.47	29.13	29.83	31.33	32.87	34.34	35.07	35.80	37.23	38.65	40.06	41.45	42.82	44.18	45.52	46.85
54	29.59	30.29	31.03	32.64	34.10	35.72	36.46	37.24	38.74	40.22	41.68	43.13	44.57	45.99	47.39	48.77
55	30.73	31.47	32.23	33.92	35.52	37.13	37.92	38.71	40.27	41.81	43.34	44.85	46.35	47.83	49.29	50.74
56	31.88	32.67	33.43	35.22	36.90	38.56	39.38	40.20	41.83	43.44	45.03	46.61	48.16	49.71	51.23	52.74
57	33.04	33.89	34.73	36.55	38.29	40.02	40.88	41.73	43.52	45.10	46.75	48.39	50.01	51.62	53.21	54.78
58	34.22	35.15	36.07	37.99	39.71	41.51	42.40	43.29	45.04	46.78	48.51	50.21	51.90	53.57	55.23	56.86
59	35.46	36.42	37.38	39.38	41.12	43.02	43.95	44.88	46.69	48.50	50.29	52.05	53.82	55.56	57.29	59.01
60	36.72	37.72	38.71	40.68	42.61	44.56	45.52	46.48	48.37	50.25	52.11	53.95	55.78	57.58	59.37	61.14

* 1KIP=1000 POUNDS

Table 33.--Log weights for scaling lengths of 4 to 32 feet: density index = 60 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=60																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Table 34.---Log weights for scaling lengths of 34 to 60 feet: density index = 60 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=60															
	SCALING LENGTH (FEET)															
	34	35	36	40	42	43	44	46	48	50	52	54	56	58	60	
6	.17	.17	.16	.16	.15	.15	.15	.14	.14	.13	.12	.12	.11	.10	.09	
7	.27	.27	.27	.26	.26	.26	.26	.25	.25	.24	.24	.23	.22	.21	.20	
8	.39	.39	.39	.40	.40	.40	.40	.39	.39	.38	.37	.37	.36	.35	.34	
9	.53	.54	.55	.56	.56	.56	.56	.57	.57	.56	.55	.55	.54	.53	.52	
10	.70	.71	.73	.74	.75	.76	.76	.77	.77	.76	.75	.74	.73	.72	.71	
11	.89	.90	.91	.93	.95	.98	.99	1.00	1.01	1.02	1.03	1.03	1.03	1.03	1.03	
12	1.10	1.12	1.13	1.16	1.19	1.22	1.24	1.26	1.28	1.31	1.32	1.33	1.33	1.33	1.34	
13	1.33	1.36	1.38	1.42	1.46	1.49	1.51	1.53	1.56	1.58	1.61	1.63	1.65	1.66	1.69	
14	1.59	1.62	1.65	1.70	1.75	1.80	1.84	1.88	1.92	1.95	1.98	2.01	2.03	2.06	2.07	
15	1.87	1.91	1.94	2.02	2.13	2.16	2.19	2.24	2.29	2.33	2.37	2.41	2.44	2.47	2.50	
16	2.17	2.22	2.26	2.34	2.42	2.45	2.56	2.62	2.68	2.74	2.79	2.84	2.89	2.93	2.97	
17	2.50	2.55	2.60	2.70	2.79	2.88	2.92	3.04	3.11	3.19	3.25	3.31	3.37	3.43	3.48	
18	2.85	2.91	2.97	3.08	3.19	3.29	3.39	3.49	3.58	3.66	3.74	3.82	3.89	3.96	4.03	
19	3.22	3.29	3.36	3.49	3.62	3.74	3.80	3.95	4.07	4.18	4.27	4.36	4.45	4.54	4.61	
20	3.61	3.69	3.77	3.92	4.07	4.21	4.34	4.48	4.60	4.72	4.83	4.94	5.05	5.15	5.24	
21	4.03	4.12	4.21	4.38	4.55	4.71	4.79	4.86	5.02	5.16	5.30	5.43	5.56	5.68	5.81	
22	4.47	4.57	4.67	4.86	5.05	5.24	5.31	5.59	5.75	5.91	6.06	6.21	6.35	6.49	6.62	
24	5.41	5.54	5.66	5.91	6.15	6.38	6.49	6.82	7.03	7.23	7.43	7.62	7.81	7.98	8.16	
25	5.92	6.06	6.20	6.47	6.73	6.99	7.12	7.54	7.84	8.17	8.49	8.79	9.09	9.38	9.68	
26	6.45	6.60	6.76	7.06	7.35	7.63	7.77	8.31	8.64	8.94	9.24	9.54	9.84	10.14	10.44	
27	7.00	7.17	7.34	7.67	7.99	8.30	8.45	9.00	9.37	9.67	9.94	10.21	10.47	10.72	10.96	
28	7.58	7.76	7.95	8.30	8.65	9.00	9.16	9.73	10.13	10.48	10.78	11.08	11.36	11.64	11.91	
29	8.18	8.38	8.58	8.97	9.35	9.72	9.90	10.50	10.90	11.26	11.56	11.86	12.16	12.46	12.76	
30	8.80	9.01	9.23	9.65	10.07	10.47	10.67	11.28	11.64	11.94	12.24	12.54	12.84	13.14	13.44	
31	9.44	9.68	9.91	10.37	10.81	11.25	11.47	12.10	12.52	12.82	13.12	13.42	13.72	14.02	14.32	
32	10.11	10.36	10.61	11.10	11.59	12.06	12.30	12.94	13.43	13.86	14.19	14.49	14.79	15.09	15.39	
33	10.80	11.07	11.34	11.87	12.39	12.90	13.15	13.80	14.37	14.84	15.30	15.76	16.20	16.63	17.06	
34	11.51	11.80	12.09	12.66	13.22	13.76	14.01	14.66	15.23	15.86	16.35	16.84	17.32	17.79	18.25	
35	12.24	12.55	12.86	13.47	14.07	14.66	14.95	15.60	16.36	16.96	17.44	17.96	18.48	18.98	19.46	
36	13.00	13.32	13.66	14.31	14.95	15.58	15.89	16.59	17.40	17.98	18.55	19.12	19.67	20.21	20.75	
37	13.78	14.13	14.48	15.18	15.86	16.56	16.86	17.59	18.47	19.09	19.71	20.31	20.90	21.48	22.06	
38	14.58	14.96	15.33	16.07	16.79	17.50	17.80	18.56	19.57	20.24	20.90	21.54	22.17	22.79	23.41	
39	15.41	15.81	16.20	16.98	17.75	18.51	18.86	19.65	20.71	21.42	22.12	22.80	23.48	24.14	24.80	
40	16.26	16.68	17.10	17.92	18.74	19.54	19.94	20.73	21.88	22.63	23.37	24.11	24.82	25.53	26.22	
41	17.13	17.57	18.01	18.89	19.75	20.60	21.02	21.84	23.08	23.88	24.67	25.44	26.21	26.96	27.70	
42	18.02	18.49	18.96	19.86	20.76	21.69	22.14	22.98	24.36	25.16	25.99	26.82	27.62	28.42	29.21	
43	18.94	19.43	19.92	20.90	21.86	22.81	23.28	24.15	25.58	26.47	27.35	28.22	29.08	29.93	30.76	
44	19.87	20.40	20.92	21.94	22.96	23.95	24.45	25.34	26.87	27.82	28.75	29.67	30.57	31.47	32.35	
45	20.84	21.39	21.93	22.99	24.08	25.13	25.65	26.57	28.19	29.20	30.18	31.15	32.11	33.05	33.98	
46	21.82	22.41	22.97	24.08	25.19	26.28	26.82	28.00	29.66	30.64	31.65	32.67	33.68	34.67	35.65	
47	22.83	23.44	24.03	25.19	26.34	27.48	28.04	29.36	31.06	32.06	33.15	34.22	35.28	36.33	37.36	
48	23.86	24.49	25.12	26.37	27.60	28.82	29.42	30.81	32.58	33.65	34.81	35.91	37.02	38.12	39.11	
49	24.91	25.57	26.23	27.54	28.82	30.10	30.74	32.21	34.05	35.05	36.25	37.44	38.61	39.76	40.90	
50	25.99	26.68	27.37	28.73	30.08	31.42	32.08	33.64	35.53	36.60	37.86	39.10	40.32	41.53	42.73	
51	27.08	27.81	28.53	30.05	31.36	32.75	33.45	35.04	36.98	38.08	39.39	40.68	42.00	43.25	44.50	
52	28.19	28.96	29.71	31.29	32.67	34.15	34.88	36.50	38.49	39.64	41.07	42.50	43.87	45.20	46.51	
53	29.35	30.13	30.92	32.57	34.01	35.53	36.28	37.93	39.99	41.21	42.68	44.10	45.47	46.84	48.16	
54	30.51	31.31	32.15	33.77	35.17	36.75	37.54	39.24	41.36	42.74	44.21	45.62	47.00	48.39	49.76	
55	31.70	32.56	33.40	35.09	36.54	38.17	38.99	40.74	42.92	44.34	45.84	47.31	48.77	50.19	51.60	
56	32.91	33.83	34.68	36.44	38.01	39.69	40.54	42.34	44.65	46.11	47.56	49.00	50.48	51.93	53.36	
57	34.15	35.07	35.99	37.81	39.41	41.14	42.02	43.87	46.25	47.76	49.25	50.72	52.18	53.64	55.09	
58	35.40	36.36	37.32	39.21	40.88	42.66	43.58	45.48	47.94	49.49	51.00	52.50	53.98	55.47	56.94	
59	36.68	37.68	38.67	40.63	42.35	44.18	45.14	47.09	49.61	51.21	52.78	54.33	55.88	57.47	59.02	
60	37.99	39.02	40.04	42.10	43.86	45.74	46.74	48.74	51.33	53.00	54.64	56.27	57.90	59.51	61.11	

Table 35.--Log weights for scaling lengths of 4 to 32 feet: density index = 62 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOC WEIGHT (MIPS) FOR DENSITY INDEX=62																	
LARGE END DIAMETER (INCHES)		SCALING LENGTH (FEET)															
		4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.08	.07	.10	.11	.13	.14	.14	.15	.15	.16	.17	.17	.17	.17	.17	.17	.17
7	.09	.09	.10	.11	.12	.13	.14	.14	.15	.16	.17	.17	.17	.17	.17	.17	.17
8	.12	.12	.13	.14	.15	.16	.17	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27
9	.15	.15	.16	.17	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30
10	.18	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33
11	.21	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.36
12	.24	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.36	.37	.38	.39
13	.27	.27	.28	.29	.30	.31	.32	.33	.34	.35	.36	.37	.38	.39	.40	.41	.42
14	.30	.30	.31	.32	.33	.34	.35	.36	.37	.38	.39	.40	.41	.42	.43	.44	.45
15	.33	.33	.34	.35	.36	.37	.38	.39	.40	.41	.42	.43	.44	.45	.46	.47	.48
16	.36	.36	.37	.38	.39	.40	.41	.42	.43	.44	.45	.46	.47	.48	.49	.50	.51
17	.39	.39	.40	.41	.42	.43	.44	.45	.46	.47	.48	.49	.50	.51	.52	.53	.54
18	.42	.42	.43	.44	.45	.46	.47	.48	.49	.50	.51	.52	.53	.54	.55	.56	.57
19	.45	.45	.46	.47	.48	.49	.50	.51	.52	.53	.54	.55	.56	.57	.58	.59	.60
20	.48	.48	.49	.50	.51	.52	.53	.54	.55	.56	.57	.58	.59	.60	.61	.62	.63
21	.51	.51	.52	.53	.54	.55	.56	.57	.58	.59	.60	.61	.62	.63	.64	.65	.66
22	.54	.54	.55	.56	.57	.58	.59	.60	.61	.62	.63	.64	.65	.66	.67	.68	.69
23	.57	.57	.58	.59	.60	.61	.62	.63	.64	.65	.66	.67	.68	.69	.70	.71	.72
24	.60	.60	.61	.62	.63	.64	.65	.66	.67	.68	.69	.70	.71	.72	.73	.74	.75
25	.63	.63	.64	.65	.66	.67	.68	.69	.70	.71	.72	.73	.74	.75	.76	.77	.78
26	.66	.66	.67	.68	.69	.70	.71	.72	.73	.74	.75	.76	.77	.78	.79	.80	.81
27	.69	.69	.70	.71	.72	.73	.74	.75	.76	.77	.78	.79	.80	.81	.82	.83	.84
28	.72	.72	.73	.74	.75	.76	.77	.78	.79	.80	.81	.82	.83	.84	.85	.86	.87
29	.75	.75	.76	.77	.78	.79	.80	.81	.82	.83	.84	.85	.86	.87	.88	.89	.90
30	.78	.78	.79	.80	.81	.82	.83	.84	.85	.86	.87	.88	.89	.90	.91	.92	.93
31	.81	.81	.82	.83	.84	.85	.86	.87	.88	.89	.90	.91	.92	.93	.94	.95	.96
32	.84	.84	.85	.86	.87	.88	.89	.90	.91	.92	.93	.94	.95	.96	.97	.98	.99
33	.87	.87	.88	.89	.90	.91	.92	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02
34	.90	.90	.91	.92	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05
35	.93	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08
36	.96	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11
37	.99	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14
38	1.02	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17
39	1.05	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20
40	1.08	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23
41	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26
42	1.14	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29
43	1.17	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32
44	1.20	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35
45	1.23	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38
46	1.26	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41
47	1.29	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44
48	1.32	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47
49	1.35	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50
50	1.38	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53
51	1.41	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56
52	1.44	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59
53	1.47	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62
54	1.50	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65
55	1.53	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68
56	1.56	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71
57	1.59	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74
58	1.62	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77
59	1.65	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80
60	1.68	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81	1.82	1.83

Table 36.--Log weights for scaling lengths of 34 to 60 feet: density index = 62 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (WIPSS*) FOR DENSITY INDEX=62																
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)															
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60
6	.17	.17	.17	.17	.16	.16	.16	.15	.15	.14	.14	.13	.12	.11	.11	.10
7	.27	.27	.27	.27	.27	.27	.27	.27	.26	.26	.25	.24	.24	.23	.23	.21
8	.40	.40	.40	.41	.41	.41	.41	.41	.41	.40	.40	.39	.39	.38	.37	.36
9	.55	.55	.56	.57	.57	.58	.58	.58	.58	.58	.58	.58	.58	.57	.56	.55
10	.73	.73	.74	.75	.77	.78	.78	.79	.79	.80	.80	.80	.80	.80	.79	.79
11	.92	.93	.94	.96	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.07	1.07	1.07
12	1.13	1.15	1.17	1.20	1.23	1.26	1.27	1.28	1.30	1.32	1.34	1.35	1.36	1.37	1.38	1.38
13	1.38	1.40	1.42	1.47	1.51	1.54	1.56	1.58	1.61	1.64	1.66	1.68	1.70	1.72	1.73	1.74
14	1.64	1.67	1.70	1.76	1.81	1.86	1.88	1.90	1.94	1.98	2.02	2.05	2.08	2.10	2.12	2.14
15	1.93	1.97	2.01	2.07	2.14	2.20	2.23	2.26	2.31	2.36	2.41	2.45	2.49	2.52	2.56	2.59
16	2.25	2.29	2.33	2.42	2.50	2.57	2.61	2.66	2.71	2.77	2.83	2.89	2.94	2.99	3.03	3.07
17	2.58	2.63	2.69	2.79	2.88	2.97	3.02	3.06	3.14	3.22	3.29	3.36	3.42	3.49	3.54	3.59
18	2.94	3.00	3.06	3.18	3.30	3.40	3.46	3.51	3.60	3.70	3.79	3.87	3.95	4.02	4.09	4.16
19	3.32	3.40	3.47	3.60	3.74	3.86	3.92	3.98	4.10	4.21	4.31	4.41	4.51	4.60	4.69	4.77
20	3.73	3.81	3.89	4.03	4.20	4.35	4.42	4.49	4.62	4.75	4.88	5.00	5.11	5.22	5.32	5.42
21	4.16	4.26	4.35	4.53	4.70	4.87	4.95	5.03	5.18	5.33	5.47	5.61	5.74	5.87	5.99	6.11
22	4.62	4.72	4.82	5.03	5.22	5.41	5.50	5.59	5.77	5.94	6.11	6.27	6.42	6.56	6.70	6.84
23	5.09	5.21	5.33	5.55	5.77	5.98	6.09	6.19	6.39	6.59	6.77	6.95	7.13	7.30	7.46	7.61
24	5.59	5.72	5.85	6.11	6.35	6.59	6.71	6.82	7.05	7.26	7.47	7.68	7.88	8.07	8.25	8.43
25	6.12	6.26	6.41	6.69	6.94	7.22	7.35	7.48	7.73	7.97	8.21	8.44	8.66	8.88	9.08	9.28
26	6.67	6.82	6.98	7.29	7.59	7.88	8.03	8.17	8.45	8.72	8.98	9.24	9.48	9.72	9.96	10.18
27	7.24	7.41	7.58	7.92	8.25	8.58	8.73	8.89	9.20	9.49	9.78	10.07	10.34	10.61	10.87	11.12
28	7.83	8.02	8.21	8.58	8.94	9.30	9.47	9.64	9.98	10.30	10.62	10.94	11.24	11.53	11.82	12.10
29	8.45	8.66	8.86	9.26	9.66	10.04	10.23	10.42	10.79	11.15	11.50	11.84	12.17	12.50	12.82	13.12
30	9.09	9.32	9.54	9.97	10.40	10.82	11.03	11.23	11.63	12.02	12.41	12.78	13.14	13.50	13.85	14.19
31	9.76	10.00	10.24	10.71	11.17	11.63	11.85	12.07	12.51	12.93	13.35	13.76	14.15	14.54	14.92	15.29
32	10.44	10.71	10.96	11.47	11.97	12.46	12.71	12.94	13.41	13.84	14.33	14.77	15.20	15.62	16.03	16.44
33	11.16	11.44	11.71	12.26	12.80	13.33	13.59	13.85	14.35	14.85	15.34	15.82	16.28	16.74	17.19	17.63
34	11.89	12.19	12.49	13.08	13.66	14.22	14.50	14.78	15.32	15.86	16.38	16.90	17.40	17.90	18.38	18.86
35	12.65	12.97	13.29	13.92	14.54	15.15	15.44	15.74	16.33	16.90	17.46	18.01	18.56	19.09	19.61	20.13
36	13.43	13.78	14.12	14.79	15.45	16.10	16.42	16.73	17.36	17.98	18.58	19.17	19.76	20.33	20.89	21.44
37	14.24	14.60	14.97	15.68	16.39	17.08	17.42	17.76	18.43	19.08	19.73	20.36	20.99	21.60	22.20	22.79
38	15.07	15.46	15.84	16.60	17.35	18.09	18.45	18.81	19.52	20.23	20.91	21.59	22.26	22.91	23.55	24.19
39	15.92	16.33	16.74	17.55	18.34	19.13	19.51	19.90	20.65	21.40	22.13	22.86	23.56	24.26	24.95	25.62
40	16.80	17.23	17.67	18.52	19.36	20.19	20.60	21.01	21.82	22.61	23.39	24.15	24.91	25.65	26.38	27.10
41	17.70	18.16	18.62	19.52	20.41	21.29	21.72	22.16	23.01	23.85	24.67	25.49	26.29	27.08	27.86	28.62
42	18.62	19.11	19.59	20.55	21.45	22.42	22.88	23.33	24.23	25.12	26.00	26.86	27.71	28.55	29.37	30.18
43	19.57	20.08	20.59	21.60	22.59	23.57	24.06	24.54	25.49	26.43	27.35	28.27	29.17	30.05	30.92	31.78
44	20.54	21.08	21.61	22.67	23.72	24.75	25.27	25.77	26.78	27.77	28.75	29.71	30.66	31.59	32.52	33.42
45	21.53	22.10	22.66	23.78	24.88	25.97	26.51	27.04	28.10	29.14	30.17	31.19	32.19	33.18	34.15	35.11
46	22.55	23.14	23.74	24.91	26.07	27.21	27.77	28.34	29.45	30.55	31.63	32.70	33.76	34.80	35.82	36.84
47	23.59	24.21	24.83	26.06	27.28	28.48	29.07	29.66	30.83	31.99	33.13	34.25	35.36	36.46	37.54	38.60
48	24.65	25.31	25.96	27.25	28.52	29.78	30.40	31.02	32.25	33.46	34.66	35.84	37.00	38.16	39.29	40.41
49	25.74	26.43	27.11	28.46	29.78	31.11	31.76	32.41	33.70	34.97	36.22	37.46	38.68	39.89	41.09	42.26
50	26.85	27.57	28.28	29.69	31.09	32.47	33.15	33.83	35.17	36.51	37.82	39.12	40.39	41.67	42.92	44.16
51	27.99	28.73	29.48	30.95	32.41	33.85	34.57	35.28	36.69	38.08	39.45	40.81	42.16	43.48	44.79	46.09
52	29.14	29.92	30.70	32.24	33.76	35.27	36.01	36.76	38.23	39.68	41.12	42.54	43.95	45.34	46.71	48.06
53	30.33	31.14	31.95	33.55	35.14	36.71	37.49	38.24	39.80	41.32	42.82	44.31	45.78	47.23	48.66	50.08
54	31.53	32.38	33.22	34.89	36.55	38.19	39.00	39.81	41.41	42.99	44.56	46.11	47.54	49.16	50.66	52.14
55	32.76	33.64	34.52	36.26	37.98	39.69	40.53	41.38	43.05	44.70	46.33	47.95	49.55	51.13	52.69	54.24
56	34.01	34.93	35.84	37.65	39.45	41.22	42.10	42.98	44.71	46.43	48.14	49.84	51.49	53.13	54.76	56.38
57	35.29	36.24	37.19	39.07	40.94	42.78	43.70	44.61	46.42	48.21	49.98	51.73	53.46	55.18	56.86	58.56
58	36.58	37.57	38.56	40.52	42.45	44.37	45.32	46.27	48.15	50.01	51.85	53.67	55.48	57.27	59.03	60.78
59	37.91	38.93	39.96	41.99	44.00	45.99	46.98	47.96	49.91	51.85	53.76	55.66	57.53	59.39	61.23	63.05
60	39.25	40.32	41.38	43.48	45.57	47.64	48.66	49.68	51.71	53.72	55.70	57.67	59.62	61.55	63.46	65.35

* 1KIP=1000 POUNDS

Table 37.--Log weights for scaling lengths of 4 to 32 feet: density index = 64 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=64																	
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	
6	.05	.07	.09	.10	.12	.13	.14	.15	.15	.16	.17	.17	.17	.18	.18	.18	
7	.06	.09	.12	.14	.17	.19	.20	.21	.22	.23	.25	.26	.26	.27	.28	.28	
8	.09	.12	.16	.19	.23	.26	.28	.29	.30	.32	.34	.36	.37	.39	.40	.40	
9	.11	.16	.21	.25	.30	.33	.36	.38	.40	.43	.45	.48	.50	.52	.54	.55	
10	.14	.20	.26	.31	.36	.41	.46	.48	.50	.54	.58	.61	.64	.67	.71	.72	
11	.16	.24	.31	.38	.45	.51	.57	.60	.62	.67	.72	.77	.81	.85	.88	.92	
12	.20	.29	.38	.46	.54	.62	.69	.72	.76	.82	.88	.94	.99	1.04	1.09	1.13	
13	.23	.34	.44	.54	.64	.73	.82	.86	.90	.98	1.05	1.12	1.19	1.25	1.31	1.37	
14	.27	.40	.52	.64	.75	.86	.96	1.01	1.06	1.15	1.24	1.33	1.41	1.49	1.56	1.63	
15	.31	.46	.60	.74	.87	.99	1.11	1.17	1.23	1.34	1.43	1.53	1.65	1.74	1.83	1.91	
16	.35	.52	.68	.84	.99	1.14	1.28	1.35	1.41	1.55	1.67	1.79	1.91	2.02	2.12	2.22	
17	.40	.59	.78	.95	1.13	1.29	1.46	1.53	1.61	1.76	1.91	2.05	2.18	2.31	2.43	2.55	
18	.45	.66	.87	1.07	1.27	1.46	1.64	1.73	1.82	1.99	2.16	2.32	2.47	2.62	2.77	2.90	
19	.50	.74	.97	1.21	1.42	1.64	1.84	1.94	2.04	2.24	2.43	2.61	2.79	2.96	3.12	3.28	
20	.56	.82	1.08	1.34	1.58	1.82	2.05	2.17	2.28	2.50	2.71	2.92	3.12	3.31	3.50	3.68	
21	.61	.91	1.20	1.48	1.75	2.02	2.28	2.40	2.53	2.77	3.01	3.24	3.47	3.68	3.89	4.10	
22	.67	1.00	1.32	1.63	1.97	2.22	2.51	2.65	2.79	3.06	3.33	3.58	3.83	4.08	4.31	4.54	
23	.74	1.09	1.44	1.78	2.11	2.44	2.75	2.91	3.06	3.36	3.66	3.94	4.22	4.49	4.75	5.01	
24	.81	1.19	1.57	1.94	2.31	2.66	3.01	3.18	3.35	3.68	4.00	4.32	4.62	4.92	5.21	5.50	
25	.87	1.30	1.71	2.11	2.51	2.90	3.28	3.46	3.65	4.01	4.36	4.71	5.05	5.38	5.71	6.01	
26	.94	1.41	1.85	2.29	2.72	3.14	3.56	3.76	3.96	4.36	4.74	5.12	5.49	5.85	6.20	6.55	
27	1.02	1.51	2.00	2.46	2.94	3.40	3.85	4.07	4.29	4.72	5.14	5.55	5.95	6.34	6.73	7.10	
28	1.10	1.63	2.15	2.67	3.17	3.67	4.15	4.39	4.62	5.09	5.55	5.99	6.43	6.86	7.27	7.68	
29	1.18	1.75	2.31	2.87	3.41	3.94	4.46	4.72	4.98	5.48	5.97	6.45	6.93	7.39	7.84	8.29	
30	1.26	1.88	2.48	3.07	3.65	4.23	4.79	5.06	5.34	5.88	6.41	6.93	7.44	7.94	8.43	8.91	
31	1.35	2.00	2.65	3.28	3.91	4.52	5.12	5.42	5.72	6.30	6.87	7.43	7.98	8.52	9.04	9.56	
32	1.44	2.14	2.83	3.50	4.17	4.83	5.47	5.79	6.11	6.73	7.34	7.94	8.53	9.11	9.68	10.23	
33	1.53	2.27	3.01	3.73	4.44	5.14	5.82	6.17	6.51	7.17	7.83	8.47	9.10	9.72	10.33	10.93	
34	1.62	2.42	3.20	3.97	4.72	5.47	6.20	6.56	6.92	7.63	8.33	9.02	9.69	10.35	11.01	11.65	
35	1.72	2.56	3.39	4.21	5.01	5.80	6.58	6.97	7.35	8.11	8.85	9.58	10.30	11.01	11.70	12.39	
36	1.82	2.71	3.59	4.46	5.31	6.15	6.98	7.38	7.79	8.59	9.38	10.16	10.93	11.68	12.42	13.15	
37	1.92	2.87	3.80	4.71	5.61	6.50	7.38	7.81	8.24	9.08	9.93	10.76	11.57	12.37	13.16	13.94	
38	2.03	3.03	4.01	4.97	5.93	6.87	7.80	8.26	8.71	9.61	10.50	11.37	12.24	13.08	13.92	14.74	
39	2.14	3.19	4.22	5.24	6.25	7.24	8.22	8.71	9.19	10.14	11.08	12.01	12.92	13.82	14.71	15.58	
40	2.25	3.36	4.45	5.52	6.58	7.63	8.66	9.17	9.68	10.68	11.68	12.66	13.62	14.57	15.51	16.43	
41	2.37	3.53	4.67	5.81	6.92	8.02	9.11	9.65	10.19	11.25	12.29	13.32	14.34	15.34	16.33	17.31	
42	2.48	3.73	4.91	6.10	7.27	8.43	9.57	10.14	10.70	11.82	12.92	14.01	15.08	16.13	17.18	18.21	
43	2.59	3.89	5.15	6.39	7.63	8.84	10.05	10.64	11.23	12.41	13.56	14.71	15.83	16.95	18.05	19.13	
44	2.70	4.07	5.39	6.70	7.99	9.27	10.53	11.16	11.78	13.11	14.22	15.42	16.61	17.78	18.93	20.07	
45	2.85	4.26	5.64	7.01	8.37	9.71	11.03	11.68	12.33	13.62	14.90	16.16	17.40	18.53	19.65	21.04	
46	2.98	4.45	5.90	7.33	8.75	10.15	11.53	12.22	12.90	14.36	15.99	16.91	18.22	19.53	20.78	22.03	
47	3.11	4.63	6.16	7.66	9.14	10.61	12.05	12.77	13.48	15.00	16.80	17.68	19.05	20.40	21.73	23.05	
48	3.25	4.85	6.43	7.99	9.54	11.07	12.58	13.33	14.08	15.66	17.62	18.47	19.90	21.31	22.70	24.08	
49	3.39	5.05	6.73	8.33	9.95	11.55	13.12	13.91	14.68	16.33	18.37	19.27	20.76	22.24	23.71	25.14	
50	3.53	5.26	6.98	8.68	10.37	12.03	13.68	14.49	15.29	17.00	19.19	20.14	21.69	23.19	24.72	26.23	
51	3.67	5.49	7.27	9.04	10.79	12.53	14.24	15.09	15.94	17.72	19.98	20.93	22.56	24.17	25.76	27.33	
52	3.82	5.73	7.56	9.40	11.22	13.03	14.82	15.70	16.59	18.43	20.77	21.78	23.48	25.16	26.82	28.46	
53	3.97	5.92	7.85	9.77	11.67	13.54	15.40	16.33	17.24	19.17	21.59	22.65	24.42	26.17	27.90	29.61	
54	4.12	6.15	8.15	10.15	12.12	14.07	16.00	16.96	17.92	19.91	22.41	23.54	25.43	27.20	29.00	30.78	
55	4.27	6.38	8.46	10.53	12.58	15.15	17.23	18.27	19.30	21.37	24.05	25.37	27.36	29.32	31.27	33.20	
56	4.42	6.65	8.78	10.92	13.02	15.70	17.87	18.94	20.01	22.13	24.87	26.31	28.37	30.42	32.44	34.44	
57	4.57	6.95	9.10	11.32	13.52	16.27	18.51	19.62	20.73	22.93	25.74	27.27	29.41				
58	4.72	7.13	9.42	11.72	14.01	16.27	18.51	19.62	20.73	22.93	25.74	27.27	29.41	31.53	33.63	35.71	
59	4.87	7.35	9.75	12.14	14.50	17.43	19.74	20.82	21.93	24.15	26.92	28.54	30.81	33.07	35.34	37.60	
60	5.02	7.60	10.09	12.56	15.00	17.87	20.22	21.33	22.47	24.75	27.62	29.24	31.51	33.84	36.19	38.59	

Table 38.--Log weights for scaling lengths of 34 to 60 feet: density index = 64 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=64										SCALING LENGTH (FEET)									
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60				
6	.18	.19	.18	.17	.17	.16	.16	.15	.15	.14	.14	.13	.12	.12	.11	.10				
7	.28	.28	.28	.28	.28	.28	.28	.27	.27	.26	.26	.25	.24	.23	.22	.22				
8	.41	.41	.42	.42	.42	.42	.42	.42	.42	.41	.41	.41	.40	.39	.38	.37				
9	.57	.57	.58	.58	.58	.58	.58	.58	.58	.58	.58	.58	.57	.56	.55	.54				
10	.74	.74	.75	.76	.76	.76	.76	.76	.76	.76	.76	.76	.75	.74	.73	.72				
11	.94	.96	.97	1.00	1.02	1.04	1.04	1.05	1.07	1.08	1.09	1.09	1.10	1.10	1.10	1.10				
12	1.17	1.19	1.21	1.24	1.27	1.30	1.31	1.32	1.35	1.37	1.38	1.40	1.41	1.42	1.42	1.43				
13	1.42	1.45	1.47	1.51	1.56	1.59	1.61	1.63	1.66	1.69	1.71	1.74	1.76	1.77	1.79	1.80				
14	1.76	1.78	1.79	1.82	1.86	1.90	1.92	1.94	1.98	2.01	2.04	2.08	2.11	2.14	2.18	2.21				
15	1.99	2.03	2.07	2.14	2.21	2.27	2.30	2.34	2.39	2.44	2.48	2.53	2.57	2.61	2.64	2.67				
16	2.32	2.36	2.41	2.50	2.58	2.66	2.69	2.73	2.80	2.86	2.92	2.98	3.03	3.08	3.12	3.17				
17	2.66	2.72	2.77	2.98	3.07	3.11	3.16	3.24	3.32	3.40	3.47	3.54	3.60	3.66	3.71	3.76				
18	3.04	3.10	3.16	3.28	3.40	3.51	3.57	3.62	3.72	3.82	3.91	3.99	4.08	4.15	4.23	4.29				
19	3.43	3.51	3.58	3.72	3.86	3.99	4.05	4.11	4.23	4.34	4.45	4.56	4.66	4.75	4.84	4.92				
20	3.85	3.94	4.02	4.18	4.34	4.49	4.56	4.63	4.77	4.91	5.03	5.16	5.27	5.38	5.49	5.59				
21	4.30	4.39	4.49	4.67	4.85	5.02	5.11	5.19	5.35	5.50	5.65	5.79	5.93	6.06	6.19	6.30				
22	4.78	4.87	4.98	5.19	5.39	5.59	5.68	5.76	5.96	6.13	6.30	6.47	6.62	6.78	6.92	7.06				
23	5.26	5.38	5.50	5.73	5.96	6.18	6.29	6.39	6.60	6.80	6.99	7.18	7.36	7.53	7.70	7.86				
24	5.77	5.91	6.04	6.30	6.56	6.80	6.92	7.04	7.27	7.50	7.72	7.93	8.13	8.33	8.52	8.70				
25	6.32	6.46	6.61	6.90	7.18	7.46	7.59	7.72	7.98	8.23	8.47	8.71	8.94	9.16	9.38	9.58				
26	6.88	7.04	7.21	7.53	7.84	8.14	8.29	8.43	8.72	9.00	9.27	9.53	9.79	10.04	10.28	10.51				
27	7.47	7.65	7.83	8.18	8.52	8.85	9.02	9.18	9.49	9.80	10.10	10.39	10.68	10.95	11.22	11.48				
28	8.08	8.28	8.47	8.86	9.22	9.56	9.77	9.95	10.30	10.64	10.97	11.29	11.60	11.91	12.20	12.49				
29	8.72	8.94	9.15	9.56	9.97	10.37	10.56	10.76	11.14	11.51	11.87	12.22	12.57	12.90	13.23	13.55				
30	9.38	9.62	9.85	10.30	10.74	11.17	11.38	11.59	12.01	12.41	12.81	13.19	13.57	13.94	14.30	14.64				
31	10.07	10.32	10.57	11.06	11.54	12.00	12.23	12.46	12.91	13.35	13.78	14.20	14.61	15.01	15.40	15.79				
32	10.78	11.05	11.32	11.84	12.34	12.87	13.12	13.36	13.85	14.32	14.76	15.24	15.69	16.13	16.55	16.97				
33	11.52	11.81	12.09	12.66	13.21	13.76	14.03	14.28	14.82	15.33	15.83	16.33	16.81	17.28	17.74	18.19				
34	12.28	12.59	12.89	13.50	14.10	14.68	14.97	15.26	15.82	16.37	16.91	17.44	17.96	18.47	18.97	19.46				
35	13.06	13.39	13.72	14.37	15.01	15.63	15.94	16.25	16.85	17.45	18.03	18.60	19.16	19.71	20.25	20.77				
36	13.87	14.22	14.57	15.26	15.95	16.62	16.95	17.27	17.92	18.56	19.18	19.79	20.39	20.98	21.56	22.13				
37	14.70	15.08	15.45	16.19	16.91	17.63	17.98	18.33	19.02	19.70	20.37	21.02	21.67	22.30	22.92	23.53				
38	15.55	15.95	16.35	17.14	17.91	18.67	19.05	19.42	20.15	20.88	21.59	22.29	22.98	23.65	24.31	24.97				
39	16.43	16.86	17.28	18.11	18.94	19.74	20.14	20.54	21.32	22.09	22.85	23.59	24.32	25.05	25.75	26.45				
40	17.34	17.79	18.24	19.12	19.95	20.85	21.27	21.69	22.52	23.34	24.14	24.93	25.71	26.49	27.23	27.97				
41	18.27	18.74	19.22	20.15	21.07	21.98	22.43	22.87	23.75	24.52	25.47	26.31	27.14	27.95	28.75	29.54				
42	19.22	19.72	20.22	21.21	22.18	23.14	23.61	24.08	25.01	25.93	26.84	27.73	28.60	29.47	30.32	31.15				
43	20.20	20.73	21.25	22.32	23.32	24.33	24.83	25.33	26.31	27.28	28.24	29.18	30.11	31.02	31.92	32.81				
44	21.20	21.76	22.31	23.41	24.49	25.55	26.08	26.60	27.64	28.66	29.67	30.67	31.65	32.61	33.57	34.50				
45	22.23	22.81	23.39	24.55	25.69	26.80	27.36	27.91	29.00	30.08	31.15	32.19	33.23	34.25	35.25	36.24				
46	23.28	23.89	24.50	25.71	26.91	28.09	28.67	29.25	30.40	31.53	32.65	33.76	34.85	35.92	36.98	38.02				
47	24.35	24.99	25.64	26.91	28.16	29.40	30.01	30.62	31.83	33.02	34.20	35.36	36.50	37.63	38.75	39.85				
48	25.45	26.12	26.80	28.13	29.44	30.74	31.38	32.02	33.28	34.58	35.78	36.99	38.20	39.39	40.56	41.72				
49	26.57	27.28	27.98	29.37	30.71	32.01	32.79	33.48	34.78	36.09	37.39	38.67	39.93	41.18	42.41	43.63				
50	27.72	28.46	29.19	30.65	32.05	33.45	34.22	34.92	36.21	37.58	38.94	40.38	41.74	43.01	44.30	45.58				
51	28.89	29.66	30.43	31.95	33.46	34.94	35.68	36.41	37.77	39.13	40.73	42.17	43.52	44.89	46.24	47.58				
52	30.08	30.89	31.69	33.28	34.85	36.41	37.18	37.94	39.46	40.96	42.45	43.91	45.36	46.80	48.21	49.61				
53	31.30	32.14	32.98	34.64	36.28	37.90	38.70	39.50	41.05	42.58	44.00	45.74	47.25	48.75	50.23	51.69				
54	32.55	33.42	34.29	36.02	37.73	39.42	40.26	41.09	42.64	44.18	45.60	47.60	49.18	50.74	52.29	53.82				
55	33.82	34.73	35.63	37.43	39.21	40.97	41.84	42.71	44.36	46.01	47.83	49.49	51.14	52.78	54.39	55.99				
56	35.11	36.05	37.00	38.87	40.72	42.55	43.46	44.36	46.16	47.97	49.69	51.43	53.15	54.85	56.53	58.20				
57	36.42	37.41	38.39	40.33	42.26	44.16	45.11	46.05	47.91	49.76	51.59	53.40	55.19	56.96	58.71	60.45				
58	37.76	38.79	39.80	41.82	43.82	45.80	46.80	47.79	49.70	51.62	53.52	55.41	57.29	59.16	61.02	62.74				
59	39.13	40.18	41.25	43.34	45.42	47.47	48.49	49.51	51.52	53.52	55.50	57.45	59.39	61.30	63.20	65.08				
60	40.52	41.62	42.71	44.99	47.04	49.17	50.23	51.29	53.38	55.45	57.50	59.53	61.55	63.54	65.51	67.46				

* 1KIP=1000 POUNDS

Table 39.--Log weights for scaling lengths of 4 to 32 feet: density index = 66 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=66																															
SCALING LENGTH (FEET)																															
LARGE END DIAMETER (INCHES)																															
4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.05	.07	.09	.11	.12	.13	.15	.15	.16	.16	.17	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18
7	.07	.10	.12	.15	.17	.19	.21	.22	.23	.24	.25	.26	.27	.28	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
8	.09	.13	.16	.20	.23	.26	.30	.33	.34	.35	.36	.37	.38	.40	.41	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42
9	.11	.16	.21	.26	.31	.36	.42	.47	.50	.52	.54	.56	.58	.61	.63	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64
10	.14	.20	.26	.32	.38	.44	.51	.57	.62	.66	.70	.74	.78	.83	.87	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90
11	.17	.25	.32	.39	.46	.53	.59	.64	.69	.74	.79	.83	.87	.91	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94
12	.20	.30	.39	.47	.56	.63	.71	.74	.78	.85	.91	.97	1.02	1.07	1.12	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
13	.24	.35	.46	.56	.66	.75	.84	.89	.93	1.01	1.09	1.16	1.23	1.29	1.35	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
14	.28	.41	.53	.66	.77	.88	.99	1.04	1.09	1.19	1.28	1.37	1.46	1.53	1.61	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
15	.32	.47	.62	.76	.89	1.02	1.15	1.21	1.27	1.38	1.49	1.60	1.70	1.80	1.89	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97
16	.36	.54	.71	.87	1.02	1.17	1.32	1.39	1.46	1.59	1.72	1.85	1.97	2.08	2.19	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29
17	.41	.61	.80	.98	1.16	1.33	1.50	1.68	1.85	1.99	2.11	2.25	2.38	2.51	2.63	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
18	.46	.68	.90	1.11	1.31	1.51	1.70	1.89	2.06	2.23	2.39	2.55	2.70	2.83	2.95	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
19	.52	.76	1.01	1.24	1.47	1.69	1.90	2.11	2.31	2.50	2.69	2.87	3.05	3.22	3.38	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45
20	.57	.85	1.12	1.38	1.63	1.88	2.12	2.34	2.55	2.74	2.92	3.10	3.28	3.44	3.59	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66
21	.63	.94	1.23	1.52	1.81	2.08	2.35	2.61	2.86	3.10	3.34	3.57	3.80	4.02	4.23	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
22	.70	1.03	1.36	1.68	1.99	2.29	2.59	2.86	3.13	3.38	3.62	3.85	4.08	4.29	4.48	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55
23	.76	1.13	1.49	1.84	2.18	2.51	2.84	3.09	3.36	3.61	3.84	4.06	4.28	4.49	4.68	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75
24	.83	1.23	1.62	2.01	2.38	2.75	3.10	3.38	3.65	3.90	4.13	4.35	4.57	4.78	4.97	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04	5.04
25	.90	1.34	1.76	2.18	2.59	2.99	3.38	3.67	3.94	4.19	4.42	4.64	4.85	5.05	5.23	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30
26	.97	1.45	1.91	2.36	2.81	3.24	3.62	3.88	4.13	4.37	4.59	4.80	5.00	5.19	5.36	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43
27	1.05	1.56	2.06	2.55	3.02	3.51	3.97	4.28	4.53	4.76	4.97	5.17	5.36	5.54	5.71	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
28	1.13	1.68	2.22	2.75	3.27	3.78	4.28	4.59	4.84	5.07	5.28	5.47	5.65	5.83	6.00	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07	6.07
29	1.21	1.81	2.39	2.96	3.52	4.06	4.60	4.92	5.17	5.40	5.61	5.81	6.00	6.18	6.35	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42
30	1.30	1.93	2.56	3.17	3.77	4.36	4.94	5.22	5.51	5.79	6.00	6.19	6.37	6.54	6.71	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78
31	1.39	2.07	2.73	3.39	4.03	4.66	5.28	5.59	5.89	6.19	6.40	6.59	6.77	6.94	7.11	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
32	1.48	2.20	2.92	3.61	4.30	4.98	5.64	5.97	6.29	6.59	6.80	6.99	7.17	7.34	7.51	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58
33	1.58	2.35	3.10	3.85	4.58	5.30	6.01	6.36	6.71	7.00	7.21	7.39	7.57	7.74	7.91	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98
34	1.67	2.49	3.30	4.09	4.87	5.64	6.39	6.77	7.14	7.47	7.70	7.87	8.04	8.21	8.37	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44
35	1.77	2.64	3.50	4.34	5.17	5.98	6.79	7.19	7.52	7.80	8.03	8.20	8.37	8.54	8.70	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77
36	1.88	2.80	3.70	4.60	5.47	6.34	7.19	7.62	8.02	8.36	8.60	8.76	8.92	9.08	9.24	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31
37	1.98	2.96	3.91	4.86	5.79	6.71	7.61	8.06	8.50	8.84	9.09	9.25	9.41	9.57	9.73	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
38	2.09	3.12	4.13	5.13	6.11	7.08	8.04	8.51	8.98	9.34	9.60	9.76	9.92	10.08	10.24	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31
39	2.21	3.29	4.36	5.41	6.45	7.47	8.48	8.99	9.48	9.84	10.10	10.26	10.42	10.58	10.74	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81
40	2.32	3.46	4.58	5.69	6.76	7.87	8.93	9.46	9.96	10.32	10.58	10.74	10.90	11.06	11.22	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29
41	2.44	3.64	4.82	5.99	7.14	8.28	9.40	9.96	10.50	10.92	11.18	11.34	11.50	11.66	11.82	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89	11.89
42	2.56	3.82	5.05	6.29	7.51	8.69	9.87	10.46	11.04	11.46	11.72	11.88	12.04	12.20	12.36	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43	12.43
43	2.69	4.00	5.31	6.59	7.87	9.12	10.36	10.98	11.59	12.01	12.27	12.43																			

Table 40.--Log weights for scaling lengths of 34 to 60 feet: density index = 66 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=66										SCALING LENGTH (FEET)									
	34	35	36	38	40	42	44	46	48	50	52	54	56	58	60					
6	.18	.13	.13	.18	.17	.17	.17	.16	.15	.15	.14	.13	.12	.11	.10					
7	.29	.23	.29	.29	.29	.29	.28	.28	.27	.27	.26	.25	.24	.23	.22					
8	.42	.43	.43	.44	.44	.44	.44	.43	.43	.43	.42	.41	.40	.39	.38					
9	.58	.59	.59	.60	.61	.62	.62	.62	.62	.62	.62	.61	.61	.60	.59					
10	.77	.78	.78	.80	.82	.83	.84	.84	.85	.85	.85	.85	.85	.85	.84					
11	.97	.99	1.00	1.03	1.05	1.07	1.09	1.10	1.11	1.12	1.13	1.13	1.14	1.14	1.13					
12	1.21	1.23	1.25	1.28	1.31	1.34	1.37	1.39	1.41	1.43	1.44	1.45	1.46	1.47	1.47					
13	1.47	1.49	1.52	1.56	1.60	1.64	1.66	1.68	1.71	1.74	1.77	1.79	1.81	1.83	1.85					
14	1.75	1.78	1.81	1.87	1.92	1.98	2.00	2.03	2.07	2.11	2.15	2.18	2.21	2.24	2.26					
15	2.06	2.10	2.13	2.21	2.28	2.34	2.37	2.40	2.46	2.51	2.56	2.61	2.69	2.76	2.75					
16	2.36	2.44	2.48	2.57	2.66	2.74	2.78	2.81	2.89	2.95	3.02	3.07	3.13	3.18	3.22					
17	2.75	2.80	2.86	2.97	3.07	3.17	3.21	3.26	3.34	3.43	3.50	3.58	3.71	3.77	3.83					
18	3.13	3.20	3.26	3.39	3.51	3.62	3.68	3.73	3.84	4.03	4.12	4.20	4.28	4.36	4.43					
19	3.54	3.62	3.69	3.84	3.98	4.11	4.18	4.24	4.36	4.68	4.79	4.80	4.90	4.99	5.08					
20	3.97	4.06	4.15	4.31	4.47	4.63	4.71	4.78	4.92	5.36	5.49	5.52	5.64	5.75	5.86					
21	4.43	4.53	4.63	4.82	5.00	5.18	5.27	5.35	5.52	5.98	6.14	6.25	6.38	6.50	6.57					
22	4.91	5.03	5.14	5.35	5.56	5.76	5.86	5.96	6.14	6.73	6.90	7.14	7.28	7.41	7.48					
23	5.42	5.55	5.67	5.91	6.15	6.37	6.48	6.59	6.81	7.51	7.70	7.94	8.10	8.24	8.37					
24	5.95	6.09	6.23	6.50	6.78	7.02	7.14	7.26	7.50	8.31	8.59	8.97	9.27	9.57	9.88					
25	6.51	6.67	6.82	7.12	7.41	7.69	7.83	7.96	8.23	9.24	9.58	9.98	10.38	10.78	11.18					
26	7.10	7.27	7.43	7.76	8.08	8.39	8.55	8.70	8.99	10.20	10.60	11.00	11.40	11.80	12.20					
27	7.71	7.89	8.07	8.43	8.79	9.13	9.30	9.46	9.79	11.20	11.70	12.20	12.70	13.20	13.70					
28	8.34	8.54	8.74	9.13	9.52	9.89	10.08	10.26	10.62	12.20	12.80	13.40	14.00	14.60	15.20					
29	8.99	9.21	9.43	9.86	10.28	10.69	10.89	11.09	11.48	13.20	13.90	14.60	15.30	16.00	16.70					
30	9.68	9.92	10.15	10.62	11.07	11.52	11.74	11.96	12.38	14.20	15.00	15.80	16.60	17.40	18.20					
31	10.39	10.64	10.90	11.40	11.90	12.40	12.62	12.85	13.31	15.20	16.10	17.00	17.90	18.80	19.70					
32	11.12	11.40	11.67	12.21	12.75	13.27	13.53	13.78	14.28	16.30	17.30	18.30	19.30	20.30	21.30					
33	11.88	12.17	12.47	13.05	13.63	14.19	14.47	14.74	15.28	17.40	18.50	19.60	20.70	21.80	22.90					
34	12.66	12.98	13.30	13.92	14.54	15.14	15.44	15.73	16.31	18.60	19.80	21.00	22.20	23.40	24.60					
35	13.47	13.81	14.15	14.82	15.48	16.12	16.44	16.76	17.38	19.80	21.10	22.40	23.70	25.00	26.30					
36	14.30	14.66	15.03	15.74	16.44	17.14	17.48	17.81	18.48	21.00	22.40	23.80	25.20	26.60	28.00					
37	15.16	15.55	15.93	16.69	17.44	18.18	18.54	18.90	19.62	22.30	23.80	25.30	26.80	28.30	29.80					
38	16.04	16.45	16.86	17.67	18.47	19.25	19.64	20.03	20.78	23.60	25.20	26.80	28.40	30.00	31.60					
39	16.95	17.39	17.82	18.68	19.53	20.36	20.77	21.18	21.99	25.00	26.70	28.40	30.10	31.80	33.50					
40	17.88	18.34	18.81	19.72	20.61	21.50	21.93	22.37	23.22	26.40	28.20	30.00	31.80	33.60	35.40					
41	18.84	19.33	19.82	20.78	21.73	22.66	23.13	23.59	24.49	27.80	29.70	31.60	33.50	35.40	37.30					
42	19.82	20.36	20.85	21.87	22.87	23.86	24.35	24.84	25.80	29.30	31.30	33.30	35.30	37.30	39.30					
43	20.83	21.38	21.92	22.99	24.05	25.09	25.61	26.12	27.13	30.80	32.90	35.00	37.10	39.20	41.30					
44	21.86	22.44	23.01	24.14	25.25	26.35	26.90	27.44	28.51	32.30	34.50	36.70	38.90	41.10	43.30					
45	22.92	23.52	24.12	25.31	26.48	27.64	28.22	28.78	29.91	33.80	36.10	38.40	40.70	43.00	45.30					
46	24.00	24.64	25.27	26.52	27.75	28.96	29.57	30.16	31.35	35.40	37.80	40.20	42.60	45.00	47.40					
47	25.11	25.78	26.44	27.75	29.04	30.32	30.95	31.58	32.82	37.00	39.50	42.00	44.50	47.00	49.50					
48	26.24	26.94	27.63	29.01	30.38	31.70	32.36	33.02	34.32	38.60	41.20	43.80	46.40	49.00	51.60					
49	27.40	28.13	28.85	30.29	31.71	33.11	33.81	34.50	35.87	40.30	43.00	45.70	48.40	51.10	53.80					
50	28.58	29.35	30.10	31.61	33.06	34.55	35.29	36.01	37.44	42.00	44.80	47.60	50.40	53.20	56.00					
51	29.79	30.59	31.38	32.95	34.50	36.04	36.80	37.55	39.05	43.80	46.70	49.60	52.50	55.40	58.30					
52	31.02	31.85	32.68	34.32	35.94	37.54	38.34	39.13	40.69	45.60	48.60	51.60	54.60	57.60	60.60					
53	32.28	33.15	34.01	35.72	37.41	39.08	39.91	40.73	42.37	47.40	50.50	53.60	56.70	59.80	62.90					
54	33.56	34.47	35.36	37.14	38.91	40.68	41.51	42.37	44.08	49.20	52.40	55.60	58.80	62.00	65.20					
55	34.87	35.81	36.75	38.60	40.43	42.25	43.15	44.05	45.82	51.10	54.40	57.70	61.00	64.30	67.60					
56	36.20	37.18	38.15	40.08	41.99	43.88	44.82	45.75	47.60	53.00	56.40	59.80	63.20	66.60	70.00					
57	37.56	38.58	39.59	41.59	43.58	45.54	46.52	47.49	49.41	54.90	58.40	61.90	65.40	68.90	72.40					
58	38.94	40.00	41.05	43.13	45.19	47.23	48.25	49.25	51.26	56.80	60.40	64.00	67.60	71.20	74.80					
59	40.35	41.45	42.53	44.70	46.84	48.96	50.00	51.06	53.13	58.80	62.50	66.20	69.90	73.60	77.30					
60	41.79	42.92	44.05	46.29	48.51	50.71	51.80	52.89	55.00	60.80	64.60	68.40	72.20	76.00	79.80					

* 1KIP=1000 POUNDS

Table 41.--Log weights for scaling lengths of 4 to 32 feet: density index = 68 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)		LOG WEIGHT (KIPS*) FOR DENSITY INDEX=68																SCALING LENGTH (FEET)															
		4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32
6	.05	.07	.09	.11	.12	.14	.15	.16	.16	.17	.18	.18	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19	.19
7	.07	.10	.13	.15	.18	.20	.22	.23	.23	.25	.26	.27	.28	.29	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
8	.09	.13	.17	.21	.24	.27	.30	.31	.32	.34	.36	.38	.40	.41	.42	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43
9	.12	.17	.22	.26	.31	.35	.39	.40	.42	.45	.48	.51	.53	.55	.57	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59
10	.14	.21	.27	.33	.39	.44	.49	.51	.53	.58	.62	.65	.68	.72	.74	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77	.77
11	.17	.26	.33	.41	.48	.54	.60	.63	.66	.72	.77	.81	.86	.90	.94	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97
12	.21	.31	.40	.49	.57	.65	.73	.77	.80	.87	.94	1.00	1.05	1.11	1.16	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
13	.25	.36	.47	.58	.68	.78	.87	.91	.96	1.04	1.12	1.20	1.27	1.33	1.40	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
14	.29	.42	.55	.68	.80	.91	1.02	1.07	1.13	1.23	1.32	1.41	1.50	1.58	1.66	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
15	.33	.49	.64	.78	.92	1.05	1.18	1.25	1.31	1.43	1.54	1.65	1.75	1.85	1.95	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03
16	.38	.55	.73	.89	1.05	1.21	1.36	1.43	1.50	1.64	1.77	1.90	2.02	2.14	2.25	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
17	.42	.63	.82	1.01	1.20	1.38	1.55	1.63	1.71	1.87	2.03	2.17	2.32	2.45	2.58	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71
18	.48	.71	.93	1.14	1.35	1.55	1.75	1.84	1.94	2.12	2.29	2.46	2.63	2.79	2.94	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08
19	.53	.79	1.04	1.28	1.51	1.74	1.96	2.07	2.17	2.38	2.58	2.77	2.96	3.14	3.32	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
20	.59	.87	1.15	1.42	1.68	1.94	2.18	2.30	2.42	2.65	2.84	3.10	3.31	3.52	3.72	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91
21	.65	.97	1.27	1.57	1.86	2.14	2.42	2.55	2.69	2.95	3.20	3.44	3.68	3.91	4.14	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35
22	.72	1.06	1.40	1.73	2.05	2.36	2.67	2.82	2.96	3.25	3.57	3.88	4.19	4.47	4.77	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98
23	.78	1.16	1.53	1.89	2.25	2.59	2.93	3.09	3.25	3.57	3.88	4.19	4.47	4.77	5.05	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32
24	.85	1.27	1.67	2.07	2.45	2.83	3.20	3.38	3.56	3.91	4.25	4.59	4.91	5.23	5.54	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84
25	.93	1.38	1.82	2.25	2.67	3.08	3.48	3.68	3.88	4.26	4.64	5.00	5.36	5.71	6.05	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39	6.39
26	1.00	1.49	1.97	2.44	2.89	3.34	3.78	4.00	4.21	4.63	5.04	5.44	5.83	6.22	6.59	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
27	1.08	1.61	2.13	2.63	3.13	3.61	4.09	4.32	4.55	5.01	5.46	5.89	6.32	6.74	7.15	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55
28	1.17	1.73	2.29	2.83	3.37	3.89	4.41	4.66	4.91	5.41	5.89	6.37	6.83	7.28	7.73	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16	8.16
29	1.25	1.86	2.46	3.05	3.62	4.19	4.74	5.02	5.29	5.82	6.34	6.86	7.36	7.85	8.33	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70	8.70
30	1.34	1.99	2.63	3.26	3.88	4.49	5.09	5.38	5.67	6.25	6.81	7.36	7.91	8.44	8.96	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47
31	1.43	2.13	2.82	3.49	4.15	4.80	5.44	5.76	6.07	6.69	7.30	7.89	8.47	9.05	9.61	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16
32	1.53	2.27	3.00	3.72	4.43	5.13	5.81	6.15	6.49	7.15	7.80	8.44	9.06	9.68	10.28	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87	10.87
33	1.62	2.42	3.24	3.97	4.72	5.46	6.20	6.56	6.91	7.62	8.32	9.00	9.67	10.33	10.98	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61	11.61
34	1.72	2.57	3.40	4.21	5.02	5.81	6.59	6.97	7.35	8.11	8.85	9.58	10.30	11.00	11.65	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37	12.37
35	1.83	2.72	3.60	4.47	5.32	6.17	6.99	7.40	7.81	8.61	9.40	10.18	10.94	11.69	12.43	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16	13.16
36	1.93	2.88	3.81	4.73	5.64	6.53	7.41	7.85	8.28	9.13	9.97	10.80	11.61	12.41	13.20	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97
37	2.04	3.05	4.03	5.01	5.97	6.91	7.84	8.30	8.76	9.66	10.55	11.43	12.29	13.15	13.98	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81
38	2.16	3.21	4.26	5.29	6.30	7.30	8.28	8.77	9.25	10.21	11.16	12.08	13.00	13.90	14.79	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67	15.67
39	2.27	3.39	4.49	5.57	6.64	7.70	8.74	9.25	9.76	10.78	11.77	12.76	13.73	14.68	15.62	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55
40	2.39	3.57	4.72	5.87	6.99	8.11	9.20	9.75	10.29	11.35	12.41	13.45	14.47	15.48	16.48	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46
41	2.51	3.75	4.97	6.17	7.35	8.53	9.68	10.25	10.79	11.85	12.91	13.95	14.95	15.98	17.03	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06
42	2.64	3.93	5.21	6.48	7.72	8.96	10.17	10.77	11.37	12.56	13.73	14.88	16.02	17.14	18.25	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34	19.34
43	2.77	4.13	5.47	6.79	8.10	9.40	10.68	11.31	11.94	13.18	14.41	15.63	16.82	18.01	19.17	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32	20.32
44	2.90	4.32	5.73	7.12	8.49	9.85	11.19	11.85	12.51	13.82	15.11	16.39	17.65	18.89	20.12	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33	21.33
45	3.03	4.52	6.00	7.45	8.86	10.31	11.72	12.41	13.10	14.48	15.83	17.17	18.49	19.80	21.09	22.36	22.36	22.36	22.36	22.36	22.36	22.36	22.36	22.36	22.36	2							

Table 42.--Log weights for scaling lengths of 34 to 60 feet: density index = 68 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=68																SCALING LENGTH (FEET)			
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60				
6	1.19	1.19	1.19	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.12	1.12	1.11				
7	1.30	1.30	1.30	1.29	1.29	1.29	1.28	1.28	1.27	1.27	1.26	1.25	1.24	1.23	1.23	1.22				
8	1.44	1.44	1.44	1.43	1.43	1.43	1.42	1.42	1.41	1.41	1.40	1.39	1.38	1.37	1.37	1.36				
9	1.60	1.61	1.61	1.60	1.60	1.60	1.59	1.59	1.58	1.58	1.57	1.56	1.55	1.54	1.54	1.53				
10	1.79	1.80	1.81	1.80	1.80	1.80	1.79	1.79	1.78	1.78	1.77	1.76	1.75	1.74	1.74	1.73				
11	1.99	2.00	2.01	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.97	1.96	1.95	1.94	1.94	1.93				
12	2.21	2.22	2.23	2.22	2.22	2.22	2.21	2.21	2.20	2.20	2.19	2.18	2.17	2.16	2.16	2.15				
13	2.44	2.45	2.46	2.45	2.45	2.45	2.44	2.44	2.43	2.43	2.42	2.41	2.40	2.39	2.39	2.38				
14	2.68	2.69	2.70	2.69	2.69	2.69	2.68	2.68	2.67	2.67	2.66	2.65	2.64	2.63	2.63	2.62				
15	2.93	2.94	2.95	2.94	2.94	2.94	2.93	2.93	2.92	2.92	2.91	2.90	2.89	2.88	2.88	2.87				
16	3.19	3.20	3.21	3.20	3.20	3.20	3.19	3.19	3.18	3.18	3.17	3.16	3.15	3.14	3.14	3.13				
17	3.46	3.47	3.48	3.47	3.47	3.47	3.46	3.46	3.45	3.45	3.44	3.43	3.42	3.41	3.41	3.40				
18	3.74	3.75	3.76	3.75	3.75	3.75	3.74	3.74	3.73	3.73	3.72	3.71	3.70	3.69	3.69	3.68				
19	4.03	4.04	4.05	4.04	4.04	4.04	4.03	4.03	4.02	4.02	4.01	4.00	3.99	3.98	3.98	3.97				
20	4.33	4.34	4.35	4.34	4.34	4.34	4.33	4.33	4.32	4.32	4.31	4.30	4.29	4.28	4.28	4.27				
21	4.64	4.65	4.66	4.65	4.65	4.65	4.64	4.64	4.63	4.63	4.62	4.61	4.60	4.59	4.59	4.58				
22	4.96	4.97	4.98	4.97	4.97	4.97	4.96	4.96	4.95	4.95	4.94	4.93	4.92	4.91	4.91	4.90				
23	5.29	5.30	5.31	5.30	5.30	5.30	5.29	5.29	5.28	5.28	5.27	5.26	5.25	5.24	5.24	5.23				
24	5.63	5.64	5.65	5.64	5.64	5.64	5.63	5.63	5.62	5.62	5.61	5.60	5.59	5.58	5.58	5.57				
25	5.98	5.99	6.00	5.99	5.99	5.99	5.98	5.98	5.97	5.97	5.96	5.95	5.94	5.93	5.93	5.92				
26	6.34	6.35	6.36	6.35	6.35	6.35	6.34	6.34	6.33	6.33	6.32	6.31	6.30	6.29	6.29	6.28				
27	6.71	6.72	6.73	6.72	6.72	6.72	6.71	6.71	6.70	6.70	6.69	6.68	6.67	6.66	6.66	6.65				
28	7.09	7.10	7.11	7.10	7.10	7.10	7.09	7.09	7.08	7.08	7.07	7.06	7.05	7.04	7.04	7.03				
29	7.48	7.49	7.50	7.49	7.49	7.49	7.48	7.48	7.47	7.47	7.46	7.45	7.44	7.43	7.43	7.42				
30	7.88	7.89	7.90	7.88	7.88	7.88	7.87	7.87	7.86	7.86	7.85	7.84	7.83	7.82	7.82	7.81				
31	8.29	8.30	8.31	8.29	8.29	8.29	8.28	8.28	8.27	8.27	8.26	8.25	8.24	8.23	8.23	8.22				
32	8.71	8.72	8.73	8.71	8.71	8.71	8.70	8.70	8.69	8.69	8.68	8.67	8.66	8.65	8.65	8.64				
33	9.14	9.15	9.16	9.13	9.13	9.13	9.12	9.12	9.11	9.11	9.10	9.09	9.08	9.07	9.07	9.06				
34	9.58	9.59	9.60	9.57	9.57	9.57	9.56	9.56	9.55	9.55	9.54	9.53	9.52	9.51	9.51	9.50				
35	10.03	10.04	10.05	10.02	10.02	10.02	10.01	10.01	10.00	10.00	9.99	9.98	9.97	9.96	9.96	9.95				
36	10.49	10.50	10.51	10.47	10.47	10.47	10.46	10.46	10.45	10.45	10.44	10.43	10.42	10.41	10.41	10.40				
37	10.96	10.97	10.98	10.94	10.94	10.94	10.93	10.93	10.92	10.92	10.91	10.90	10.89	10.88	10.88	10.87				
38	11.44	11.45	11.46	11.41	11.41	11.41	11.40	11.40	11.39	11.39	11.38	11.37	11.36	11.35	11.35	11.34				
39	11.93	11.94	11.95	11.89	11.89	11.89	11.88	11.88	11.87	11.87	11.86	11.85	11.84	11.83	11.83	11.82				
40	12.43	12.44	12.45	12.38	12.38	12.38	12.37	12.37	12.36	12.36	12.35	12.34	12.33	12.32	12.32	12.31				
41	12.94	12.95	12.96	12.88	12.88	12.88	12.87	12.87	12.86	12.86	12.85	12.84	12.83	12.82	12.82	12.81				
42	13.46	13.47	13.48	13.40	13.40	13.40	13.39	13.39	13.38	13.38	13.37	13.36	13.35	13.34	13.34	13.33				
43	13.99	14.00	14.01	13.91	13.91	13.91	13.90	13.90	13.89	13.89	13.88	13.87	13.86	13.85	13.85	13.84				
44	14.53	14.54	14.55	14.44	14.44	14.44	14.43	14.43	14.42	14.42	14.41	14.40	14.39	14.38	14.38	14.37				
45	15.08	15.09	15.10	14.98	14.98	14.98	14.97	14.97	14.96	14.96	14.95	14.94	14.93	14.92	14.92	14.91				
46	15.64	15.65	15.66	15.53	15.53	15.53	15.52	15.52	15.51	15.51	15.50	15.49	15.48	15.47	15.47	15.46				
47	16.21	16.22	16.23	16.09	16.09	16.09	16.08	16.08	16.07	16.07	16.06	16.05	16.04	16.03	16.03	16.02				
48	16.79	16.80	16.81	16.65	16.65	16.65	16.64	16.64	16.63	16.63	16.62	16.61	16.60	16.59	16.59	16.58				
49	17.38	17.39	17.40	17.21	17.21	17.21	17.20	17.20	17.19	17.19	17.18	17.17	17.16	17.15	17.15	17.14				
50	17.98	17.99	18.00	17.78	17.78	17.78	17.77	17.77	17.76	17.76	17.75	17.74	17.73	17.72	17.72	17.71				
51	18.59	18.60	18.61	18.37	18.37	18.37	18.36	18.36	18.35	18.35	18.34	18.33	18.32	18.31	18.31	18.30				
52	19.21	19.22	19.23	18.96	18.96	18.96	18.95	18.95	18.94	18.94	18.93	18.92	18.91	18.90	18.90	18.89				
53	19.84	19.85	19.86	19.56	19.56	19.56	19.55	19.55	19.54	19.54	19.53	19.52	19.51	19.50	19.50	19.49				
54	20.48	20.49	20.50	20.18	20.18	20.18	20.17	20.17	20.16	20.16	20.15	20.14	20.13	20.12	20.12	20.11				
55	21.13	21.14	21.15	20.80	20.80	20.80	20.79	20.79	20.78	20.78	20.77	20.76	20.75	20.74	20.74	20.73				
56	21.79	21.80	21.81	21.42	21.42	21.42	21.41	21.41	21.40	21.40	21.39	21.38	21.37	21.36	21.36	21.35				
57	22.46	22.47	22.48	22.05	22.05	22.05	22.04	22.04	22.03	22.03	22.02	22.01	22.00	21.99	21.99	21.98				
58	23.14	23.15	23.16	22.70	22.70	22.70	22.69	22.69	22.68	22.68	22.67	22.66	22.65	22.64	22.64	22.63				
59	23.83	23.84	23.85	23.36	23.36	23.36	23.35	23.35	23.34	23.34	23.33	23.32	23.31	23.30	23.30	23.29				
60	24.53	24.54	24.55	24.04	24.04	24.04	24.03	24.03	24.02	24.02	24.01	24.00	23.99	23.98	23.98	23.97				

* 1KIP=1000 POUNDS

Table 43.---Log weights for scaling lengths of 4 to 32 feet: density index = 70 pounds per cubic foot

[Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LOG WEIGHT (KIPS*) FOR DENSITY INDEX=70																																	
LARGE END DIAMETER (INCHES)	SCALING LENGTH (FEET)																																
	4	6	8	10	12	14	16	17	18	20	22	24	26	28	30	32																	
6	.05	.07	.09	.11	.13	.14	.15	.16	.17	.17	.18	.19	.19	.19	.20	.20																	
7	.07	.10	.13	.16	.18	.20	.22	.23	.24	.26	.27	.28	.29	.29	.30	.31																	
8	.09	.14	.17	.21	.24	.28	.30	.32	.33	.35	.37	.39	.41	.42	.43	.44																	
9	.12	.17	.22	.27	.32	.36	.40	.42	.43	.47	.49	.52	.55	.57	.59	.60																	
10	.15	.22	.28	.34	.40	.45	.50	.53	.55	.59	.63	.67	.71	.74	.76	.79																	
11	.18	.26	.34	.42	.49	.56	.62	.65	.68	.74	.79	.84	.88	.93	.97	1.00																	
12	.22	.32	.41	.50	.59	.67	.75	.79	.83	.90	.96	1.03	1.08	1.14	1.19	1.24																	
13	.25	.37	.49	.60	.70	.80	.89	.94	.99	1.07	1.15	1.23	1.30	1.37	1.44	1.50																	
14	.29	.43	.57	.70	.82	.94	1.05	1.11	1.16	1.26	1.36	1.45	1.54	1.63	1.71	1.78																	
15	.34	.50	.65	.80	.95	1.09	1.22	1.28	1.35	1.47	1.59	1.70	1.80	1.91	2.00	2.09																	
16	.39	.57	.75	.92	1.08	1.25	1.40	1.47	1.55	1.69	1.83	1.96	2.08	2.20	2.32	2.43																	
17	.44	.65	.85	1.04	1.23	1.42	1.59	1.68	1.76	1.93	2.09	2.24	2.38	2.53	2.66	2.79																	
18	.49	.73	.93	1.17	1.36	1.60	1.80	1.90	1.99	2.18	2.36	2.54	2.71	2.87	3.03	3.18																	
19	.55	.81	1.07	1.31	1.56	1.79	2.02	2.13	2.24	2.45	2.65	2.85	3.05	3.23	3.41	3.59																	
20	.61	.90	1.18	1.46	1.73	1.99	2.25	2.37	2.49	2.73	2.97	3.19	3.41	3.62	3.82	4.02																	
21	.67	.99	1.31	1.62	1.91	2.21	2.49	2.63	2.76	3.03	3.29	3.55	3.79	4.03	4.26	4.48																	
22	.74	1.09	1.44	1.78	2.11	2.43	2.74	2.90	3.05	3.35	3.64	3.92	4.19	4.46	4.72	4.97																	
23	.81	1.20	1.58	1.95	2.31	2.67	3.01	3.18	3.35	3.68	4.00	4.31	4.62	4.91	5.20	5.48																	
24	.88	1.30	1.72	2.13	2.52	2.91	3.29	3.48	3.66	4.03	4.38	4.72	5.06	5.38	5.70	6.01																	
25	.95	1.42	1.87	2.31	2.75	3.17	3.59	3.79	3.99	4.39	4.77	5.13	5.52	5.88	6.23	6.57																	
26	1.03	1.53	2.03	2.51	2.98	3.44	3.89	4.11	4.33	4.76	5.19	5.60	6.00	6.40	6.78	7.16																	
27	1.12	1.65	2.19	2.71	3.22	3.72	4.21	4.45	4.69	5.16	5.62	6.07	6.51	6.94	7.36	7.77																	
28	1.20	1.78	2.36	2.92	3.47	4.01	4.54	4.80	5.06	5.57	6.07	6.55	7.03	7.50	7.96	8.40																	
29	1.29	1.92	2.53	3.14	3.72	4.31	4.88	5.16	5.44	5.99	6.53	7.06	7.58	8.08	8.58	9.06																	
30	1.38	2.05	2.71	3.36	4.01	4.62	5.24	5.54	5.84	6.43	7.01	7.58	8.14	8.69	9.22	9.75																	
31	1.47	2.19	2.90	3.59	4.28	4.95	5.60	5.93	6.25	6.89	7.51	8.12	8.72	9.31	9.85	10.46																	
32	1.57	2.34	3.09	3.83	4.56	5.28	5.98	6.33	6.68	7.36	8.03	8.68	9.33	9.96	10.58	11.19																	
33	1.67	2.49	3.29	4.08	4.86	5.62	6.38	6.75	7.12	7.84	8.56	9.26	9.95	10.63	11.30	11.95																	
34	1.78	2.64	3.50	4.34	5.17	5.98	6.78	7.15	7.57	8.35	9.11	9.86	10.60	11.32	12.04	12.74																	
35	1.88	2.80	3.71	4.60	5.48	6.35	7.20	7.62	8.04	8.87	9.68	10.48	11.26	12.04	12.80	13.55																	
36	1.99	2.97	3.93	4.87	5.81	6.72	7.63	8.08	8.52	9.40	10.26	11.11	11.95	12.77	13.58	14.38																	
37	2.10	3.14	4.15	5.15	6.14	7.11	8.07	8.55	9.02	9.95	10.86	11.77	12.66	13.53	14.39	15.24																	
38	2.22	3.31	4.38	5.44	6.48	7.51	8.53	9.03	9.52	10.51	11.48	12.44	13.38	14.31	15.23	16.13																	
39	2.34	3.49	4.62	5.74	6.84	7.92	8.99	9.52	10.05	11.09	12.12	13.13	14.13	15.11	16.08	17.04																	
40	2.46	3.67	4.86	6.04	7.20	8.34	9.47	10.03	10.59	11.69	12.77	13.84	14.90	15.94	16.96	17.97																	
41	2.59	3.86	5.11	6.35	7.57	8.78	9.97	10.56	11.14	12.30	13.44	14.57	15.68	16.78	17.86	18.93																	
42	2.72	4.05	5.37	6.67	7.95	9.22	10.47	11.09	11.71	12.93	14.13	15.32	16.49	17.65	18.79	19.91																	
43	2.85	4.25	5.63	6.99	8.34	9.67	10.99	11.64	12.29	13.57	14.84	16.09	17.32	18.54	19.74	20.92																	
44	2.98	4.45	5.90	7.33	8.74	10.14	11.52	12.20	12.88	14.23	15.56	16.87	18.17	19.45	20.71	21.96																	
45	3.12	4.66	6.17	7.67	9.15	10.61	12.06	12.78	13.49	14.90	16.30	17.67	19.04	20.38	21.71	23.02																	
46	3.26	4.87	6.45	8.02	9.57	11.10	12.62	13.37	14.11	15.59	17.05	18.50	19.92	21.33	22.72	24.10																	
47	3.41	5.08	6.74	8.38	10.00	11.60	13.18	13.97	14.75	16.30	17.83	19.34	20.83	22.31	23.77	25.21																	
48	3.55	5.30	7.03	8.74	10.48	12.11	13.76	14.58	15.40	17.02	18.62	20.20	21.76	23.31	24.83	26.34																	
49	3.70	5.53	7.33	9.12	10.88	12.63	14.36	15.21	16.06	17.75	19.42	21.08	22.71	24.33	25.92	27.50																	
50	3.86	5.76	7.64	9.50	11.34	13.16	14.96	15.85	16.74	18.51	20.25	21.97	23.68	25.37	27.04	28.69																	
51	4.01	5.99	7.95	9.89	11.80	13.70	15.58	16.51	17.43	19.27	21.09	22.90	24.67	26.43	28.17	29.89																	
52	4.17	6.23	8.27	10.28	12.28	14.25	16.21	17.18	18.14	20.06	21.95	23.83	25.68	27.52	29.33	31.13																	
53	4.34	6.47	8.59	10.69	12.76	14.81	16.85	17.86	18.86	20.85	22.83	24.78	26.71	28.62	30.51	32.39									</								

Table 44. --Log weights for scaling lengths of 34 to 60 feet: density index = 70 pounds per cubic foot
 [Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet]

LARGE END DIAMETER (INCHES)	LOG WEIGHT (KIPS*) FOR DENSITY INDEX=70																SCALING LENGTH (FEET)																
	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60	34	35	36	38	40	42	43	44	46	48	50	52	54	56	58	60	
6	.19	.19	.19	.19	.19	.18	.18	.17	.17	.16	.15	.15	.14	.13	.12	.11																	
7	.31	.31	.31	.31	.31	.30	.30	.30	.30	.29	.28	.27	.27	.26	.25	.24																	
8	.45	.45	.46	.46	.46	.46	.46	.46	.46	.46	.45	.44	.44	.43	.42	.41																	
9	.62	.62	.63	.64	.65	.65	.66	.66	.66	.66	.66	.65	.65	.64	.63	.63																	
10	.81	.82	.83	.85	.86	.88	.88	.89	.89	.89	.89	.89	.89	.89	.89	.89																	
11	1.03	1.05	1.06	1.09	1.11	1.13	1.14	1.15	1.17	1.18	1.19	1.20	1.20	1.20	1.20	1.20																	
12	1.28	1.30	1.32	1.36	1.39	1.42	1.44	1.45	1.47	1.49	1.51	1.53	1.54	1.55	1.56	1.56																	
13	1.55	1.58	1.61	1.66	1.70	1.74	1.76	1.78	1.82	1.85	1.88	1.90	1.92	1.94	1.95	1.97																	
14	1.85	1.89	1.92	1.98	2.04	2.10	2.12	2.15	2.20	2.24	2.28	2.31	2.34	2.37	2.40	2.42																	
15	2.18	2.22	2.26	2.34	2.42	2.48	2.52	2.55	2.61	2.67	2.72	2.77	2.81	2.85	2.89	2.92																	
16	2.53	2.59	2.63	2.73	2.82	2.90	2.95	2.98	3.06	3.13	3.20	3.26	3.32	3.37	3.42	3.46																	
17	2.91	2.97	3.03	3.15	3.25	3.36	3.41	3.45	3.55	3.63	3.72	3.79	3.87	3.93	4.00	4.06																	
18	3.32	3.39	3.46	3.59	3.72	3.84	3.90	3.96	4.07	4.17	4.27	4.37	4.46	4.54	4.62	4.70																	
19	3.75	3.83	3.91	4.07	4.22	4.36	4.43	4.50	4.63	4.75	4.87	4.98	5.09	5.19	5.29	5.38																	
20	4.21	4.31	4.40	4.57	4.75	4.91	4.99	5.07	5.22	5.37	5.51	5.64	5.77	5.89	6.01	6.12																	
21	4.70	4.80	4.91	5.11	5.31	5.49	5.59	5.68	5.85	6.02	6.18	6.34	6.49	6.63	6.77	6.90																	
22	5.21	5.33	5.45	5.68	5.91	6.11	6.21	6.32	6.45	6.61	6.79	6.94	7.07	7.25	7.41	7.57																	
23	5.75	5.88	6.01	6.27	6.52	6.76	6.88	6.99	7.22	7.44	7.65	7.85	8.05	8.24	8.42	8.60																	
24	6.32	6.46	6.61	6.89	7.17	7.44	7.57	7.70	7.95	8.20	8.44	8.67	8.89	9.11	9.31	9.52																	
25	6.91	7.07	7.23	7.55	7.86	8.16	8.30	8.45	8.73	9.00	9.27	9.53	9.78	10.02	10.26	10.48																	
26	7.53	7.71	7.88	8.23	8.57	8.90	9.06	9.22	9.54	9.84	10.14	10.43	10.74	10.99	11.24	11.50																	
27	8.17	8.37	8.56	8.94	9.32	9.68	9.86	10.04	10.38	10.72	11.05	11.37	11.68	11.98	12.27	12.56																	
28	8.84	9.06	9.27	9.69	10.10	10.49	10.69	10.88	11.26	11.63	11.99	12.35	12.69	13.02	13.35	13.66																	
29	9.54	9.77	10.00	10.46	10.90	11.34	11.55	11.77	12.18	12.59	12.98	13.37	13.74	14.11	14.47	14.82																	
30	10.26	10.52	10.77	11.26	11.71	12.22	12.45	12.68	13.13	13.57	14.01	14.43	14.84	15.24	15.64	16.02																	
31	11.01	11.29	11.56	12.09	12.62	13.13	13.38	13.63	14.12	14.60	15.07	15.53	15.98	16.42	16.85	17.27																	
32	11.79	12.09	12.38	12.95	13.52	14.07	14.34	14.61	15.15	15.67	16.17	16.67	17.16	17.64	18.10	18.56																	
33	12.60	12.91	13.23	13.85	14.45	15.05	15.34	15.63	16.21	16.77	17.32	17.86	18.38	18.90	19.41	19.90																	
34	13.43	13.77	14.10	14.77	15.42	16.06	16.37	16.69	17.30	17.91	18.50	19.08	19.65	20.21	20.75	21.29																	
35	14.28	14.65	15.01	15.72	16.41	17.10	17.44	17.77	18.43	19.08	19.72	20.34	20.96	21.56	22.15	22.72																	
36	15.17	15.55	15.94	16.70	17.44	18.17	18.54	18.89	19.60	20.30	20.98	21.65	22.30	22.95	23.58	24.20																	
37	16.08	16.49	16.90	17.71	18.50	19.28	19.67	20.05	20.80	21.55	22.28	22.99	23.70	24.39	25.07	25.73																	
38	17.01	17.45	17.89	18.74	19.56	20.42	20.82	21.24	22.04	22.84	23.61	24.38	25.13	25.87	26.59	27.31																	
39	17.98	18.44	18.90	19.81	20.71	21.59	22.03	22.46	23.32	24.16	24.99	25.80	26.61	27.39	28.17	28.93																	
40	18.96	19.46	19.95	20.91	21.86	22.80	23.26	23.72	24.63	25.52	26.40	27.27	28.12	28.96	29.79	30.61																	
41	19.98	20.50	21.02	22.04	23.05	24.04	24.53	25.01	25.98	26.93	27.86	28.78	29.68	30.57	31.45	32.31																	
42	21.02	21.57	22.12	23.20	24.26	25.31	25.83	26.34	27.36	28.36	29.35	30.33	31.28	32.23	33.16	34.07																	
43	22.09	22.67	23.25	24.38	25.51	26.61	27.16	27.70	28.78	29.84	30.88	31.91	32.93	33.93	34.91	35.88																	
44	23.19	23.80	24.40	25.60	26.78	27.95	28.53	29.10	30.23	31.35	32.45	33.54	34.61	35.67	36.71	37.74																	
45	24.31	24.95	25.59	26.85	28.09	29.32	29.93	30.53	31.72	32.90	34.07	35.21	36.34	37.46	38.56	39.64																	
46	25.46	26.13	26.80	28.12	29.47	30.72	31.36	31.99	33.25	34.49	35.71	36.92	38.11	39.29	40.45	41.59																	
47	26.63	27.34	28.04	29.43	30.80	32.15	32.82	33.49	34.81	36.12	37.40	38.67	39.92	41.16	42.38	43.58																	
48	27.83	28.57	29.31	30.76	32.20	33.62	34.33	35.02	36.34	37.68	39.03	40.33	41.61	42.88	44.16	45.43																	
49	29.06	29.83	30.60	32.13	33.63	35.12	35.86	36.59	37.94	39.30	40.68	42.09	43.48	44.84	46.19	47.53																	
50	30.32	31.12	31.93	33.52	35.11	36.65	37.41	38.19	39.71	41.22	42.70	44.17	45.61	47.04	48.46	49.85																	
51	31.60	32.44	33.28	34.95	36.59	38.22	39.03	39.83	41.42	42.99	44.54	46.08	47.59	49.09	50.57	52.04																	
52																																	

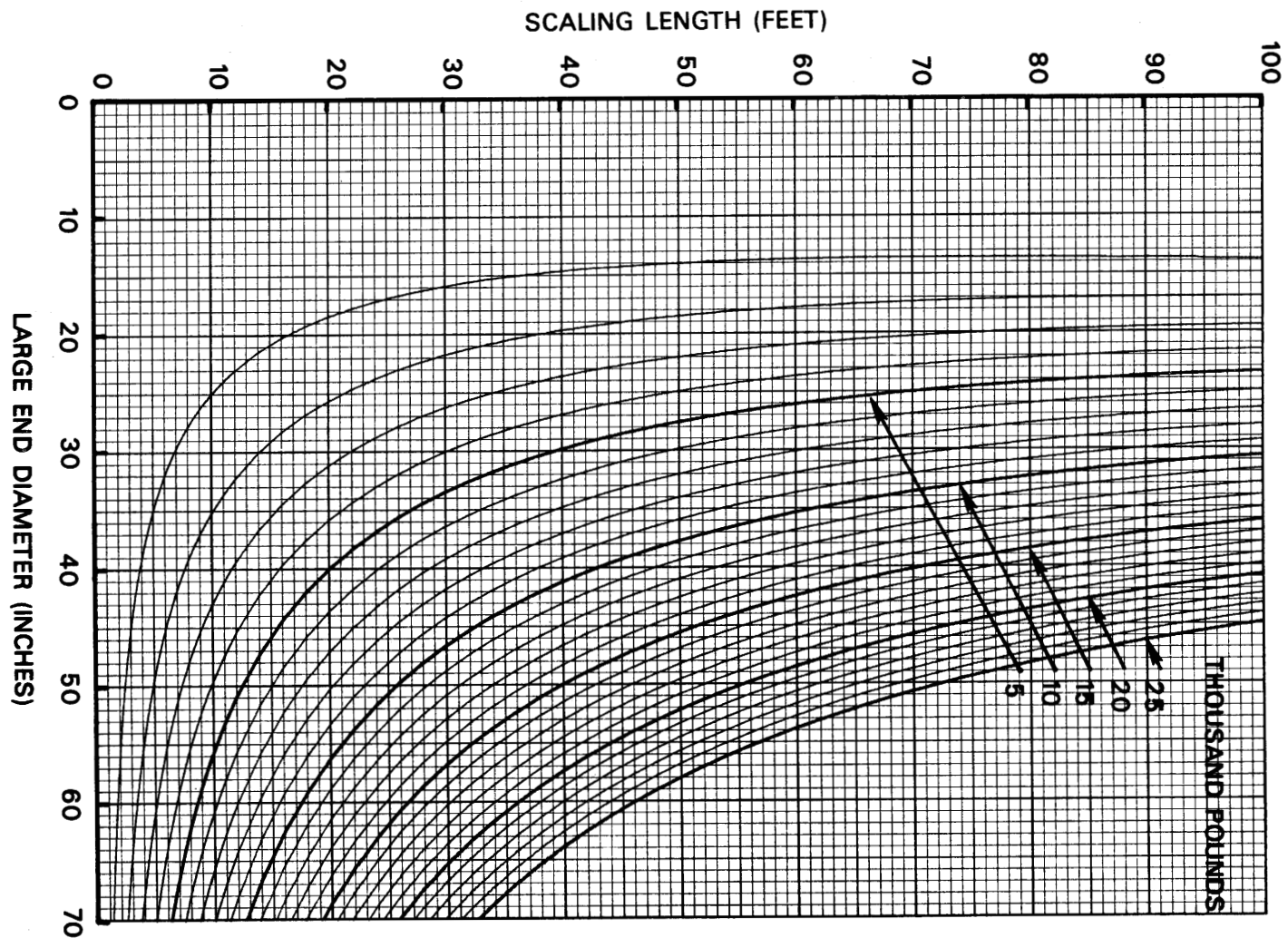


Figure 5.—Scaling length versus large end diameter for various log weights. Density index = 30 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

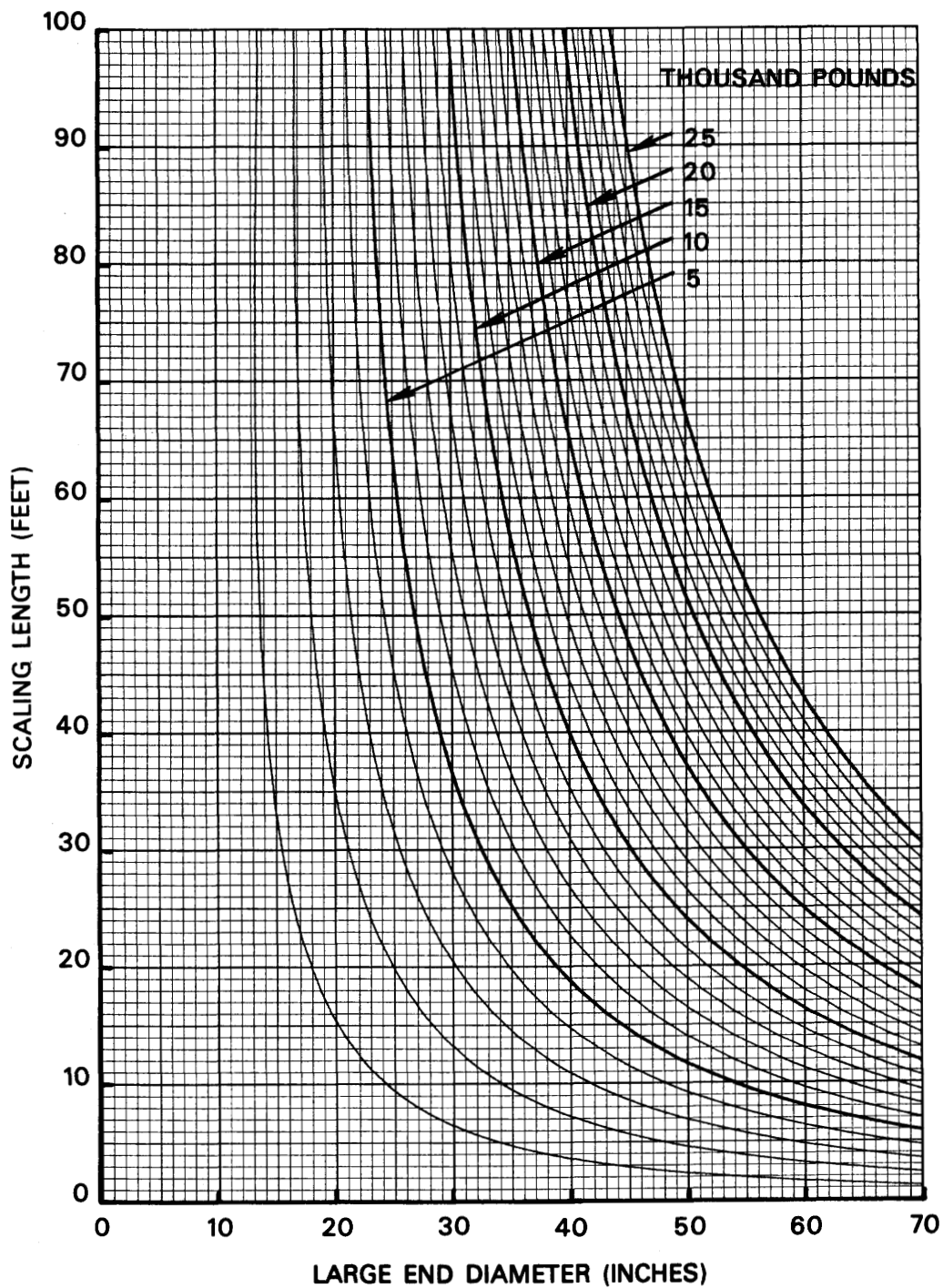


Figure 6.—Scaling length versus large end diameter for various log weights. Density index = 32 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

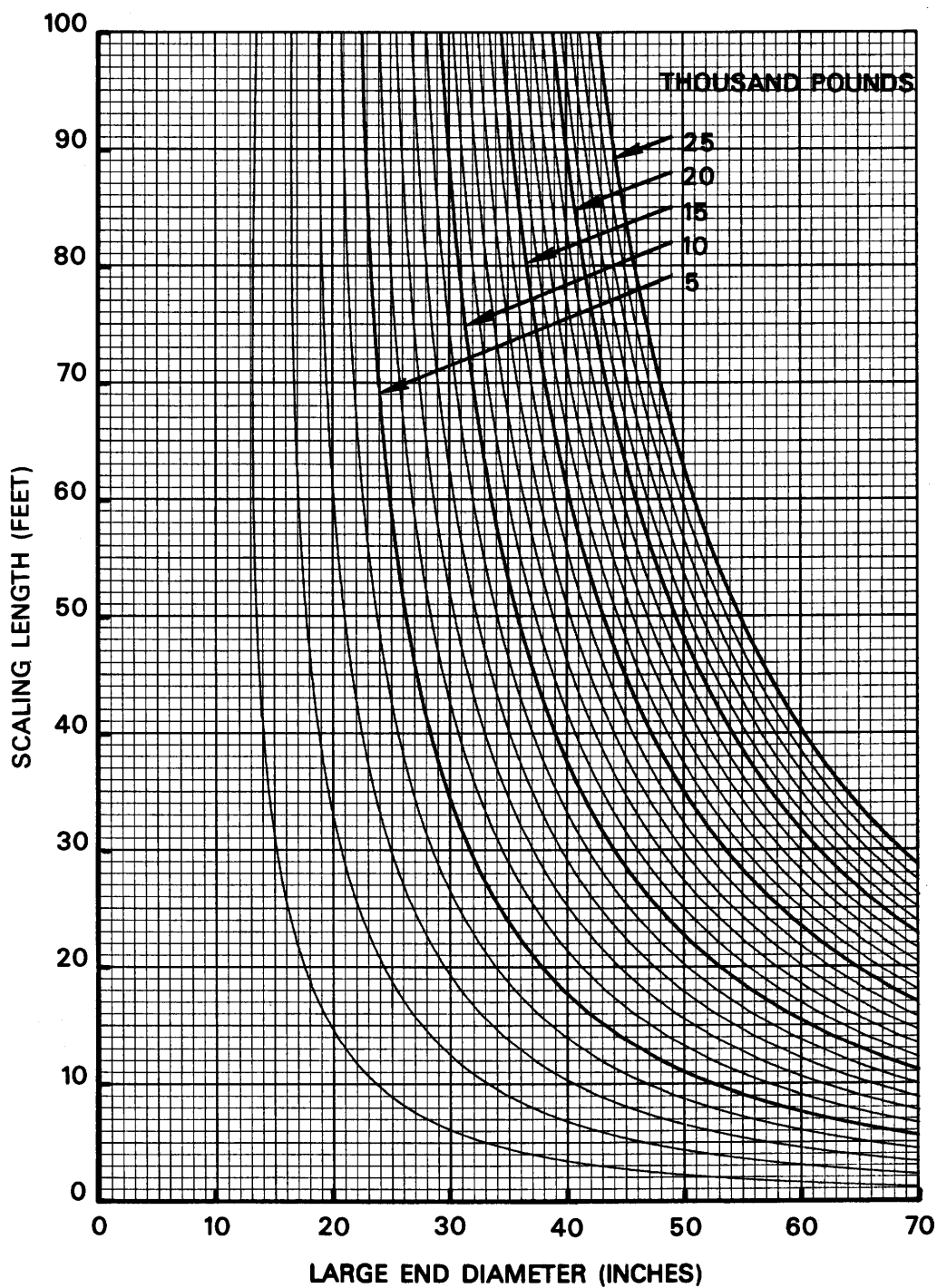


Figure 7.—Scaling length versus large end diameter for various log weights. Density index = 34 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

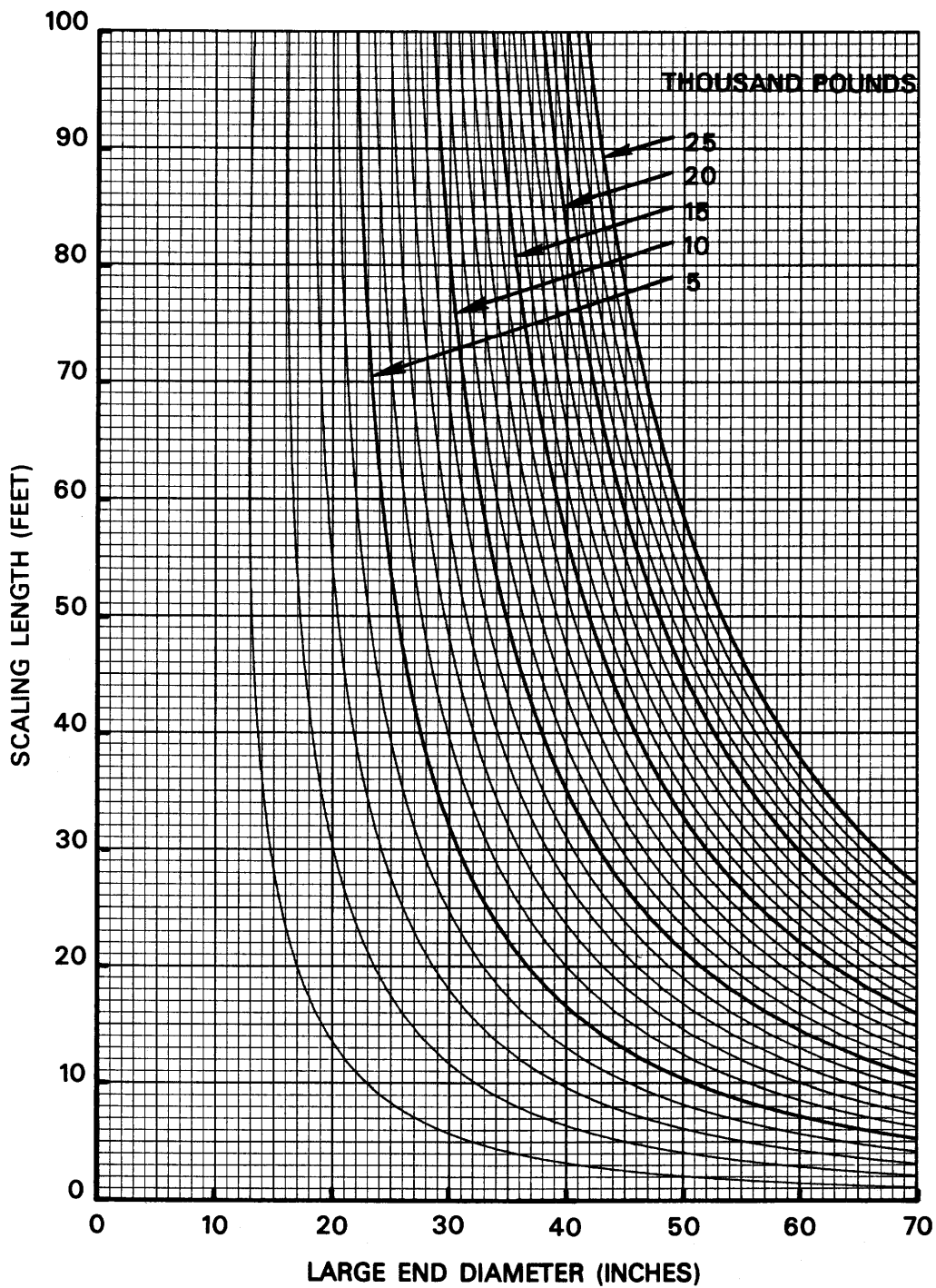


Figure 8.—Scaling length versus large end diameter for various log weights. Density index = 36 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

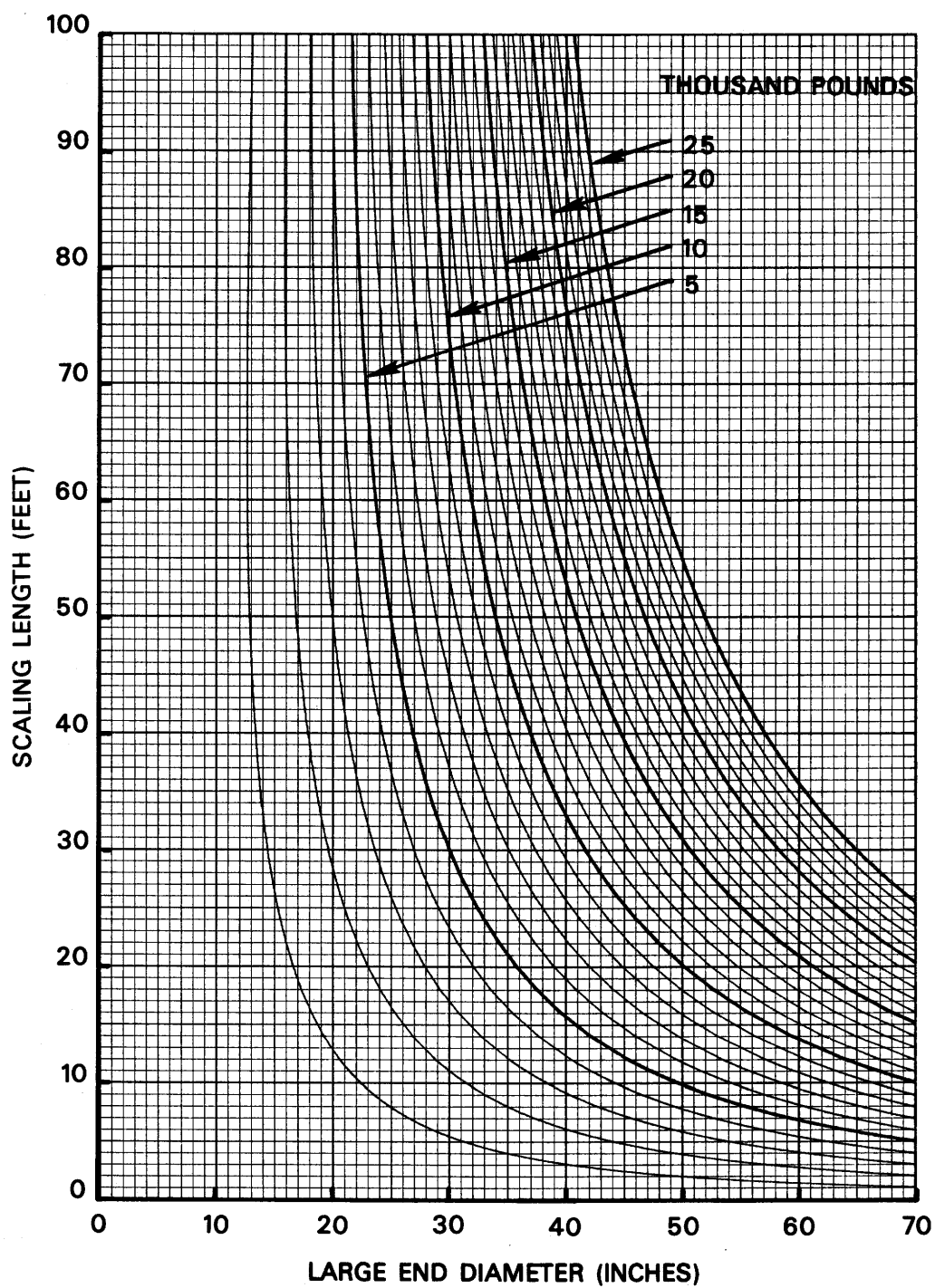


Figure 9.—Scaling length versus large end diameter for various log weights. Density index = 38 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

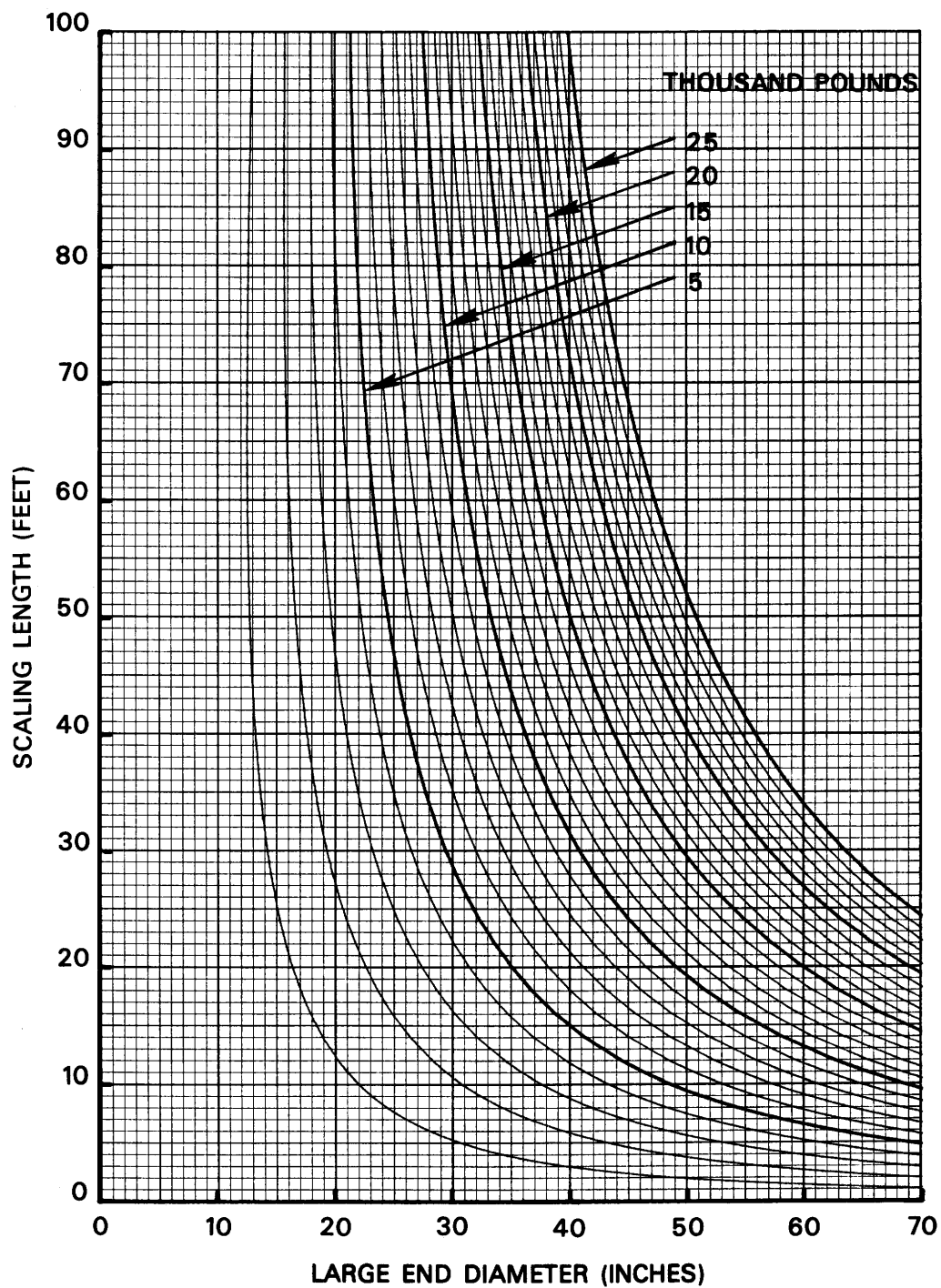


Figure 10.—Scaling length versus large end diameter for various log weights. Density index = 40 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

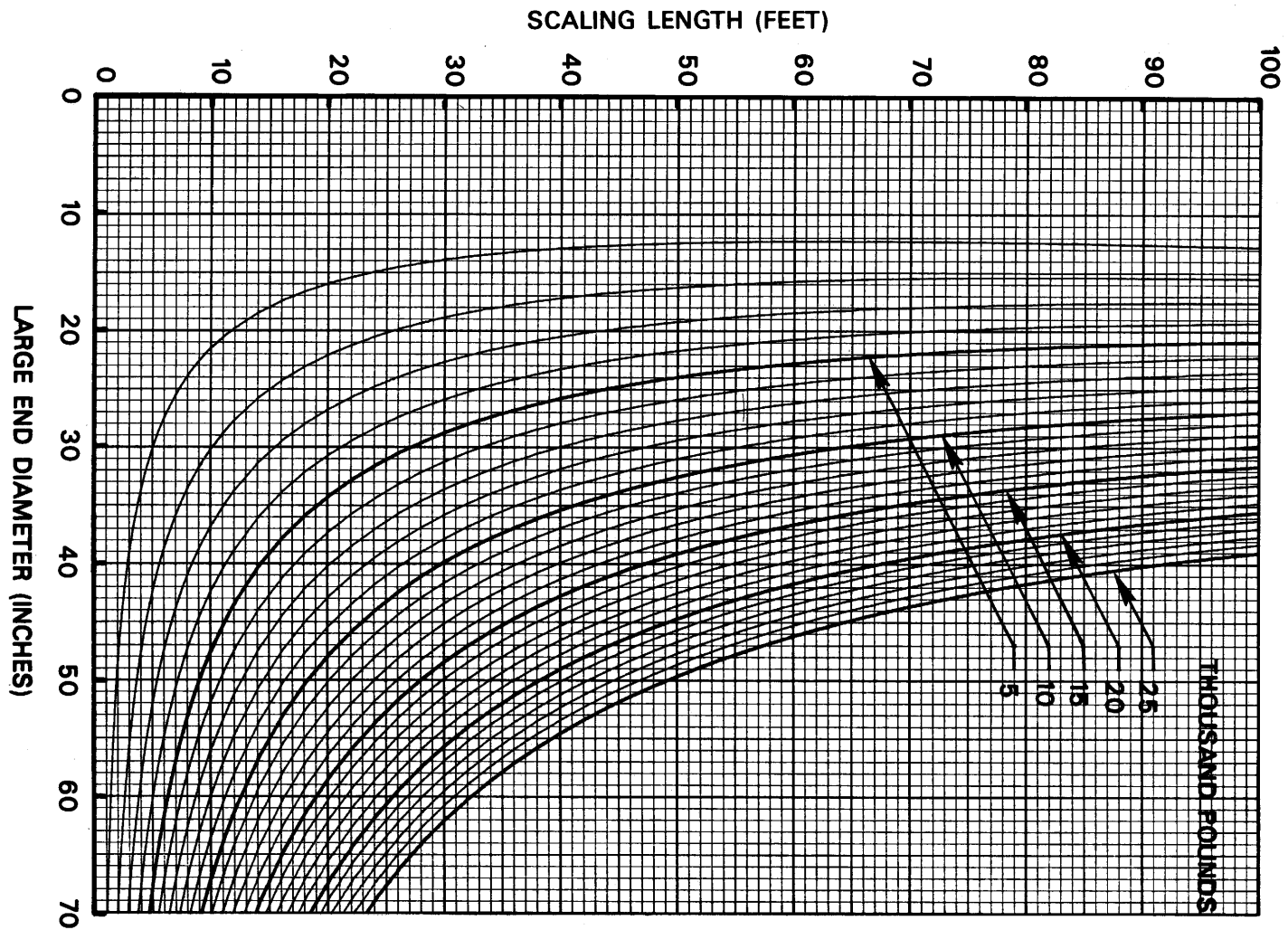


Figure 11.—Scaling length versus large end diameter for various log weights. Density index = 42 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

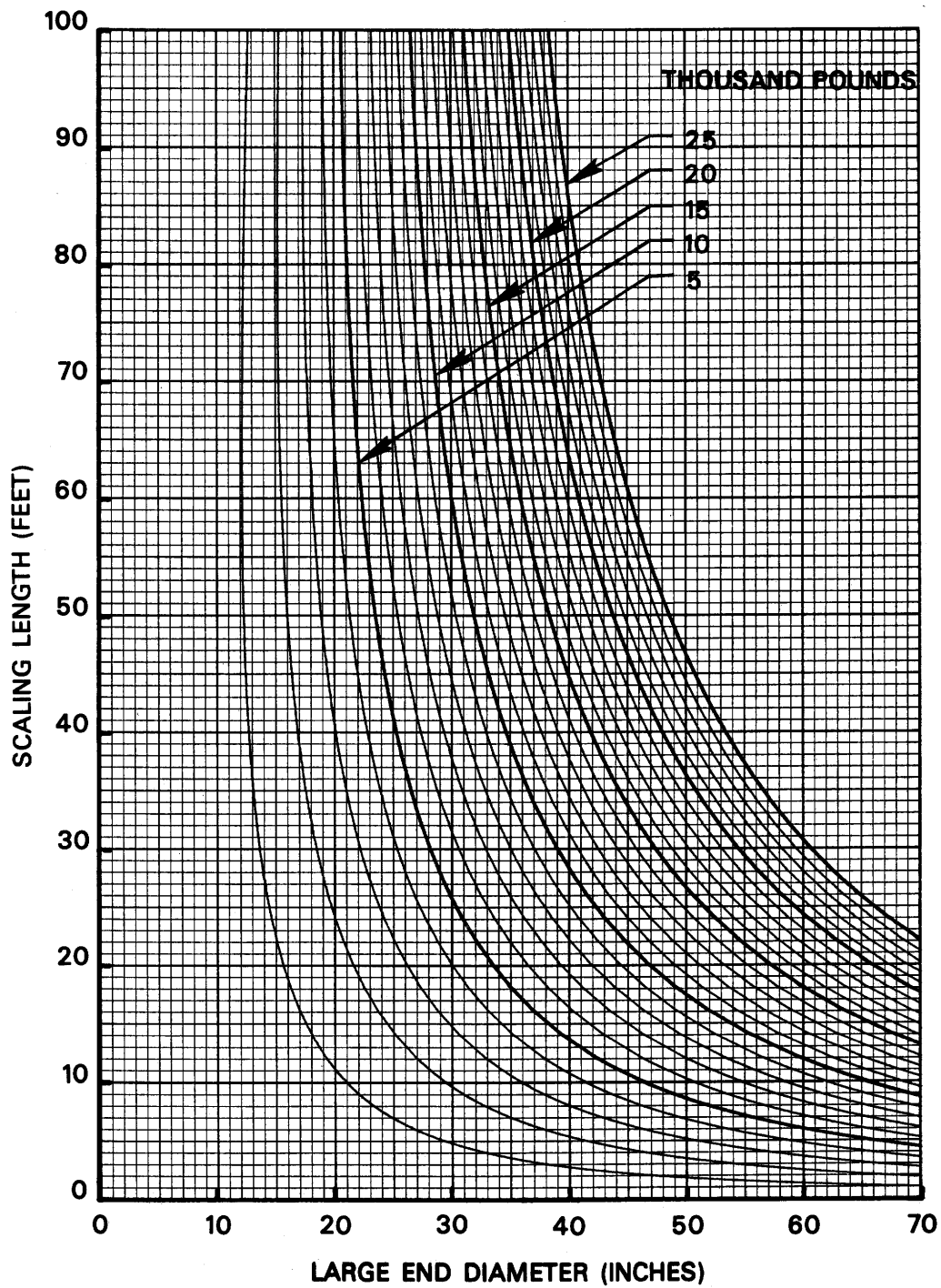


Figure 12.—Scaling length versus large end diameter for various log weights. Density index = 44 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

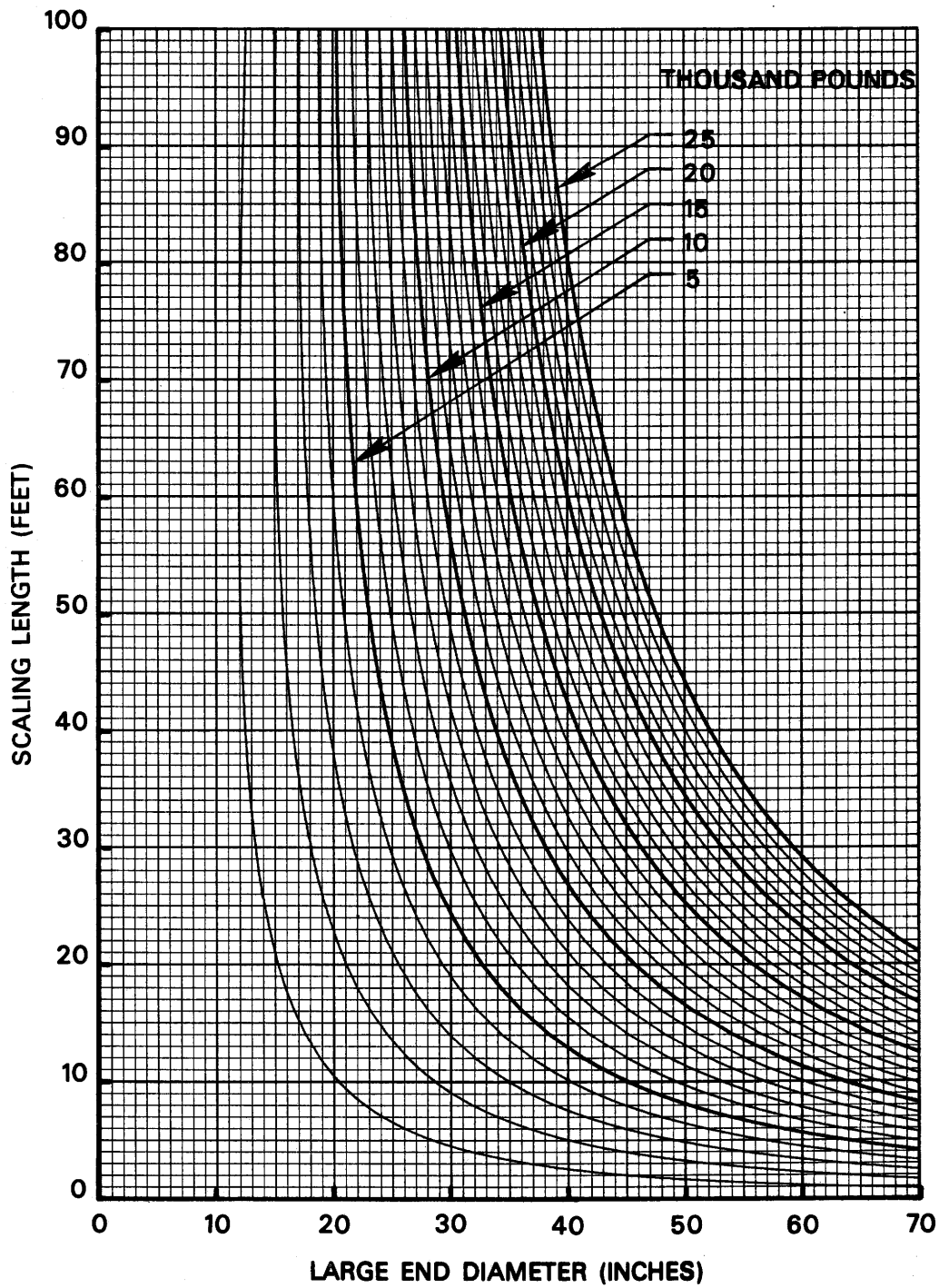


Figure 13.—Scaling length versus large end diameter for various log weights. Density index = 46 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

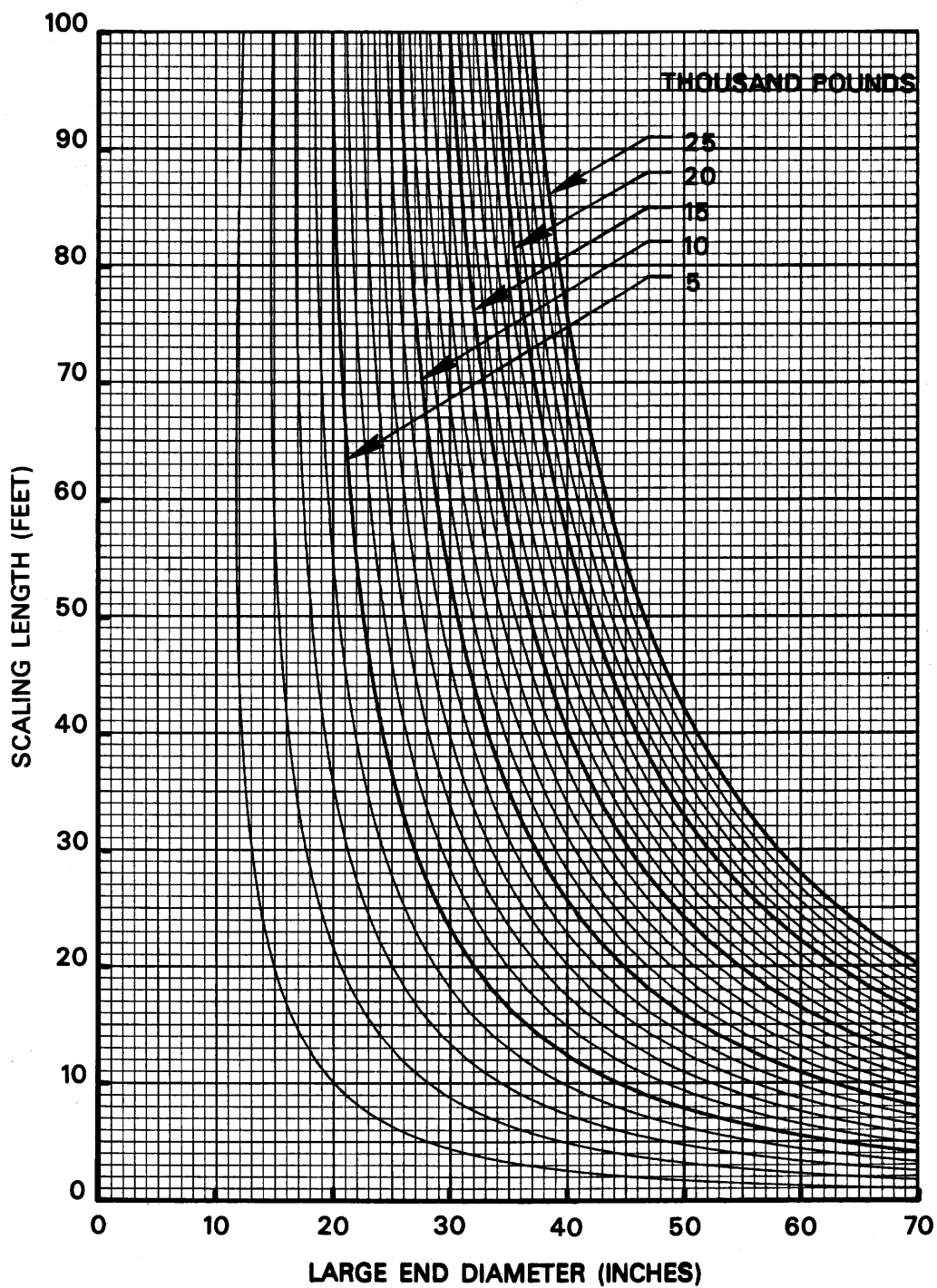


Figure 14.—Scaling length versus large end diameter for various log weights. Density index = 48 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

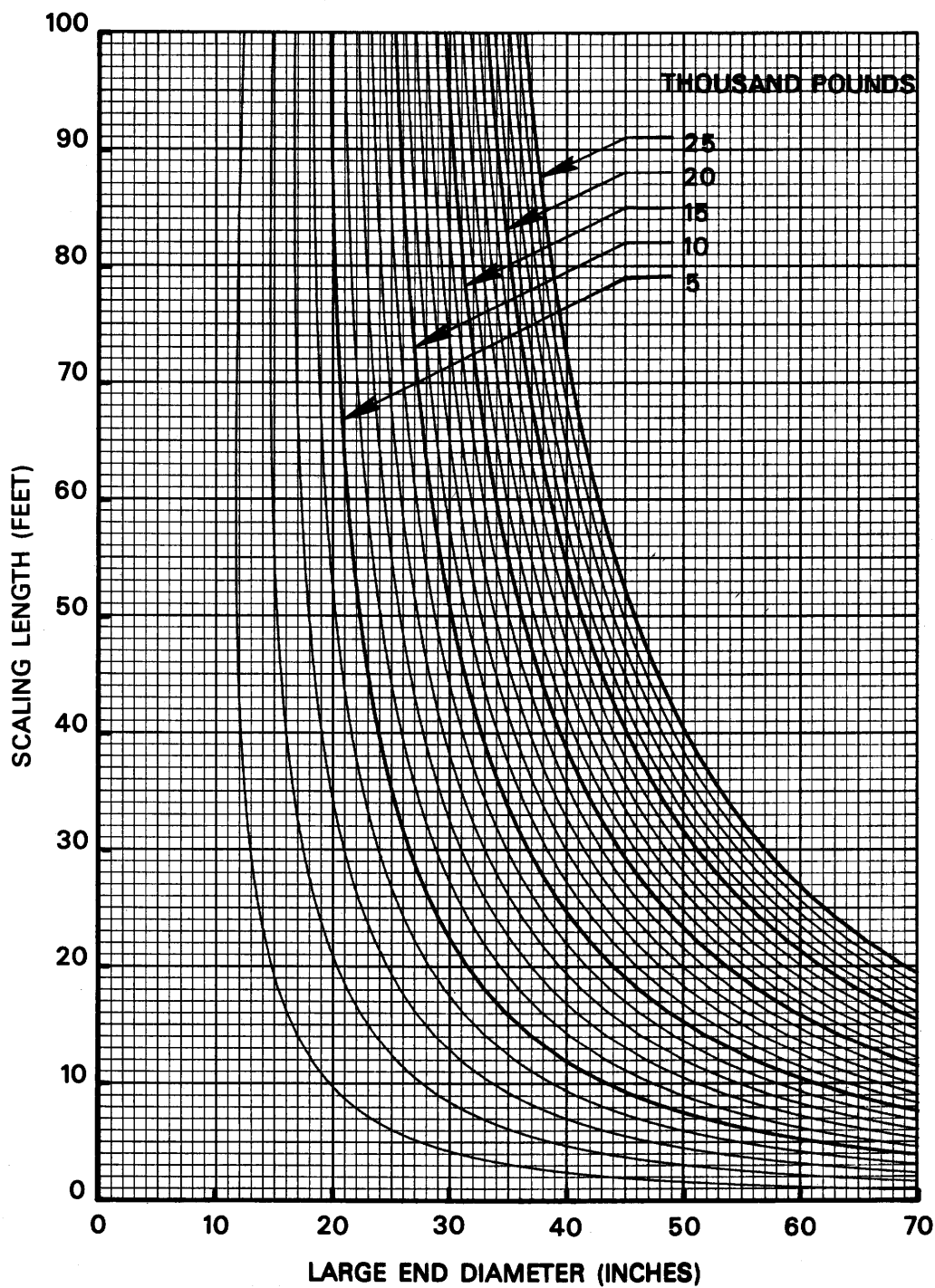


Figure 15.—Scaling length versus large end diameter for various log weights. Density index = 50 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

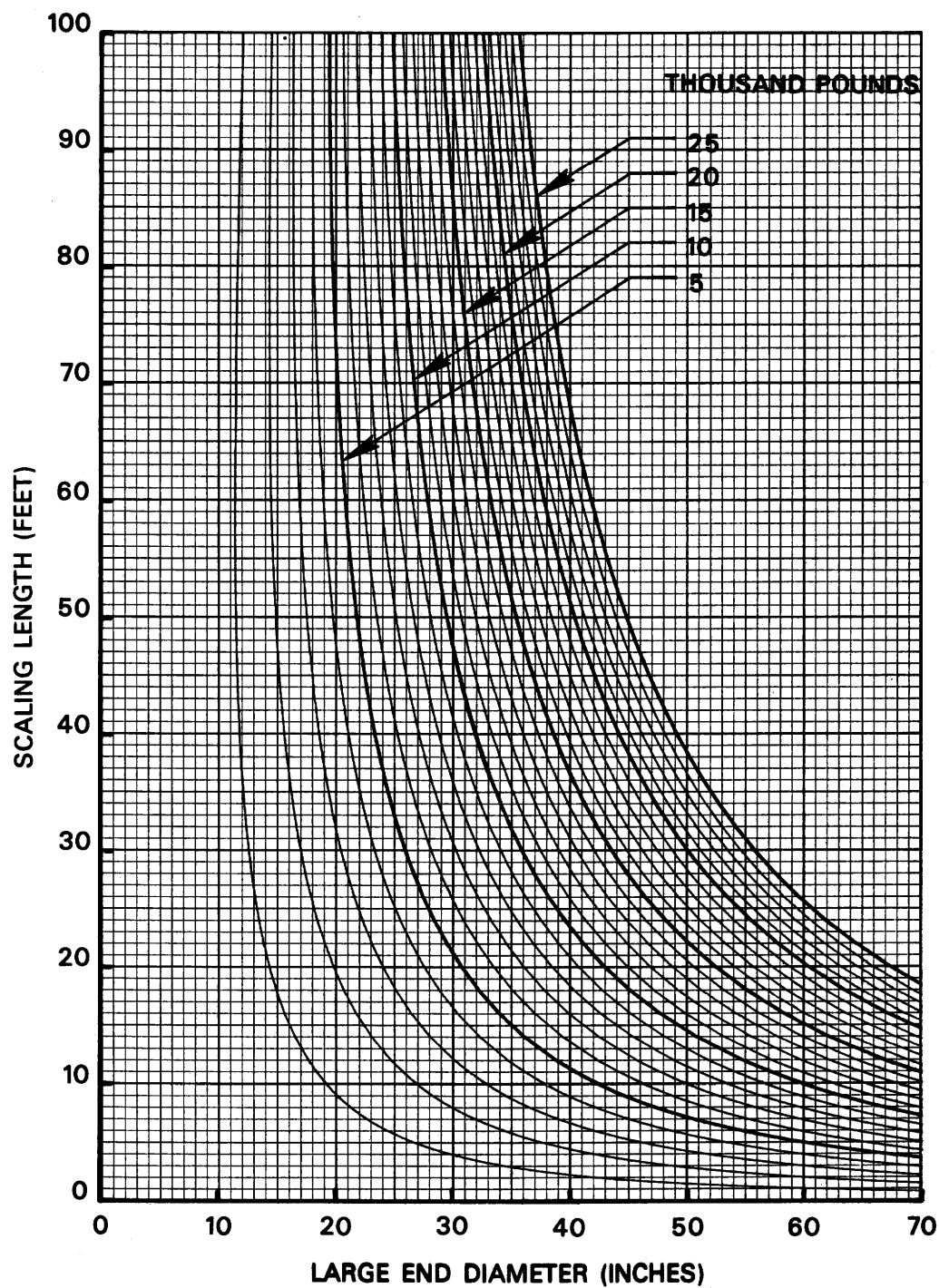


Figure 16.—Scaling length versus large end diameter for various log weights Density index = 52 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

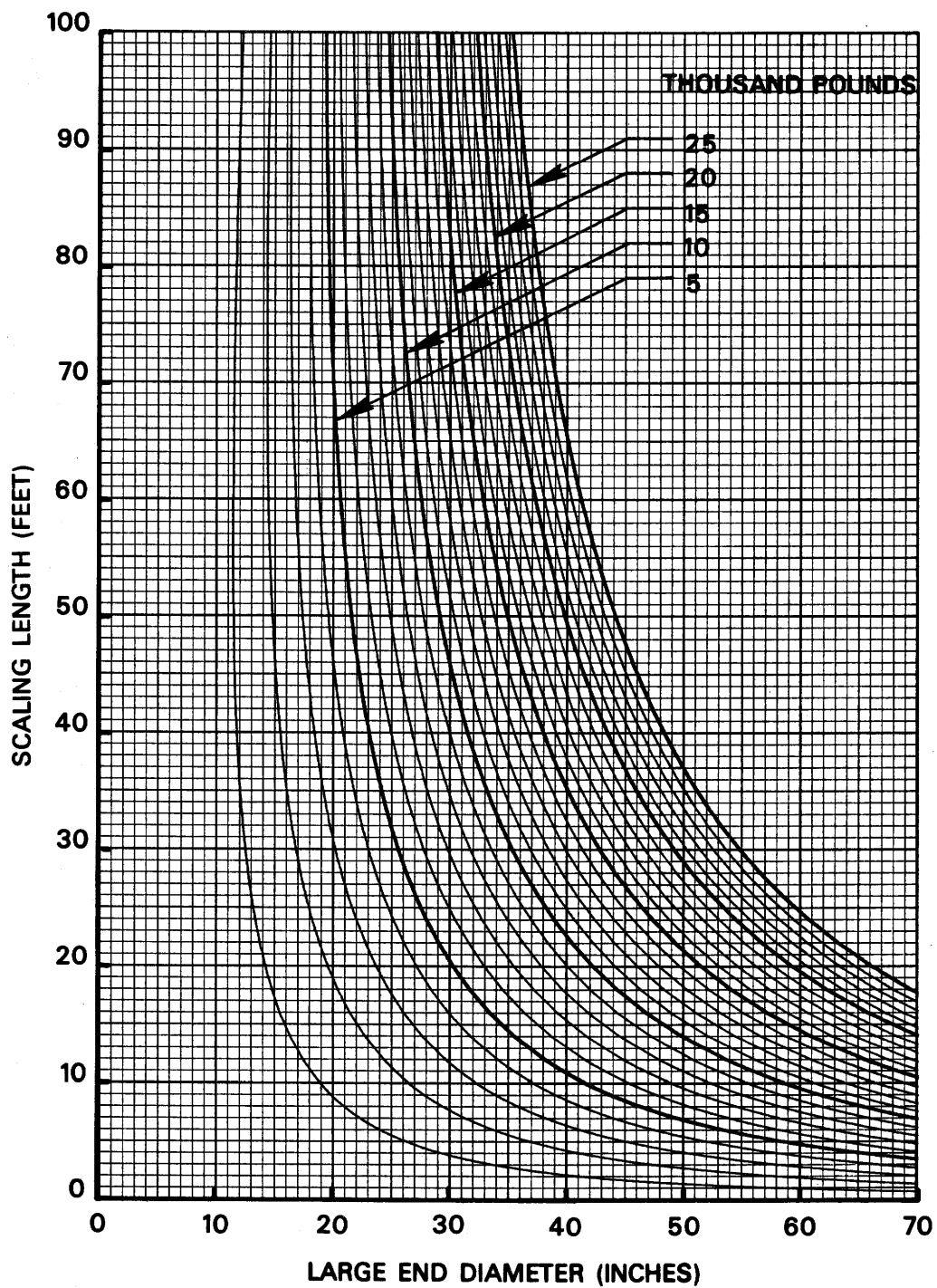


Figure 17.—Scaling length versus large end diameter for various log weights. Density index = 54 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

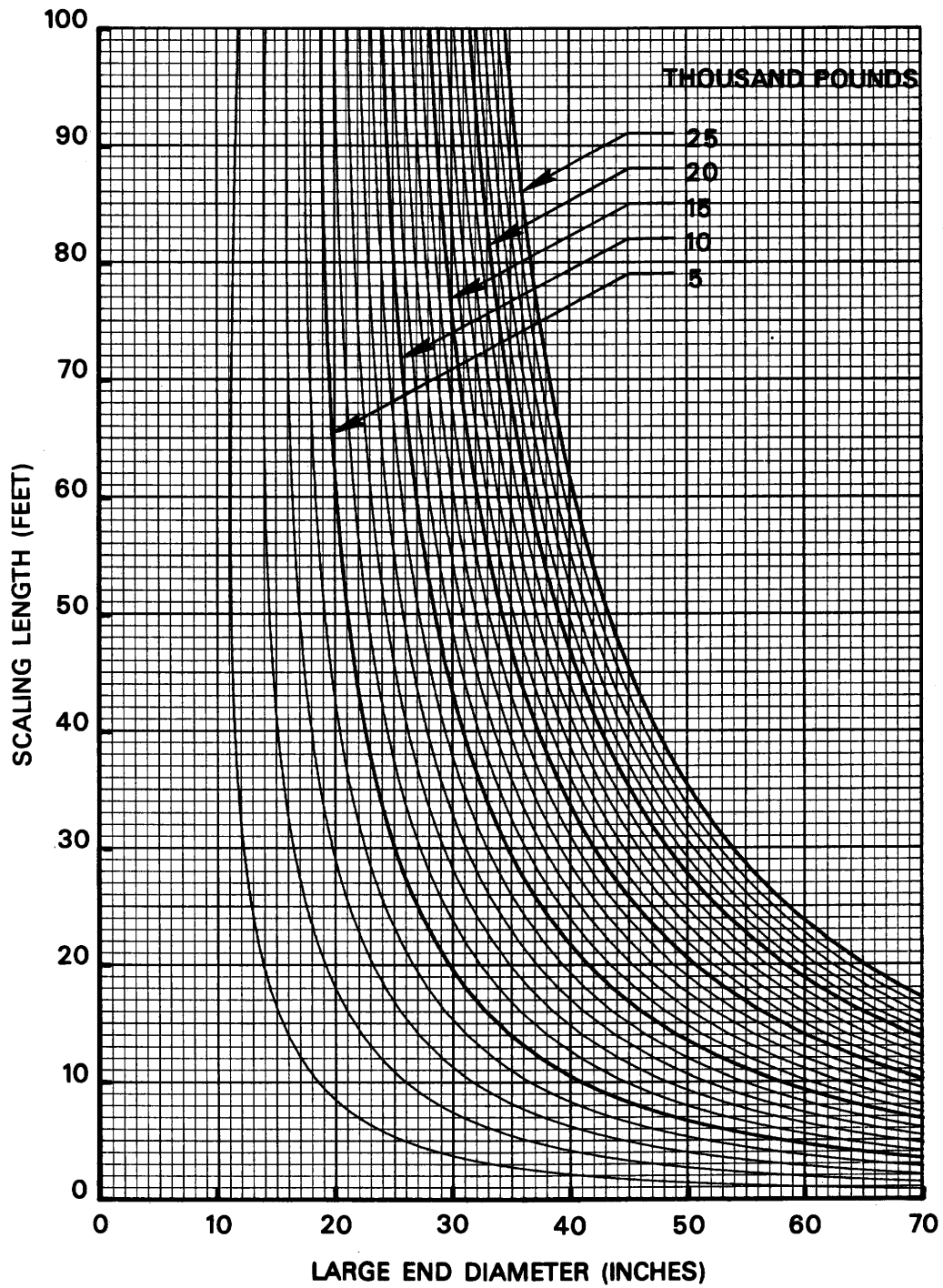


Figure 18.—Scaling length versus large end diameter for various log weights. Density index = 56 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

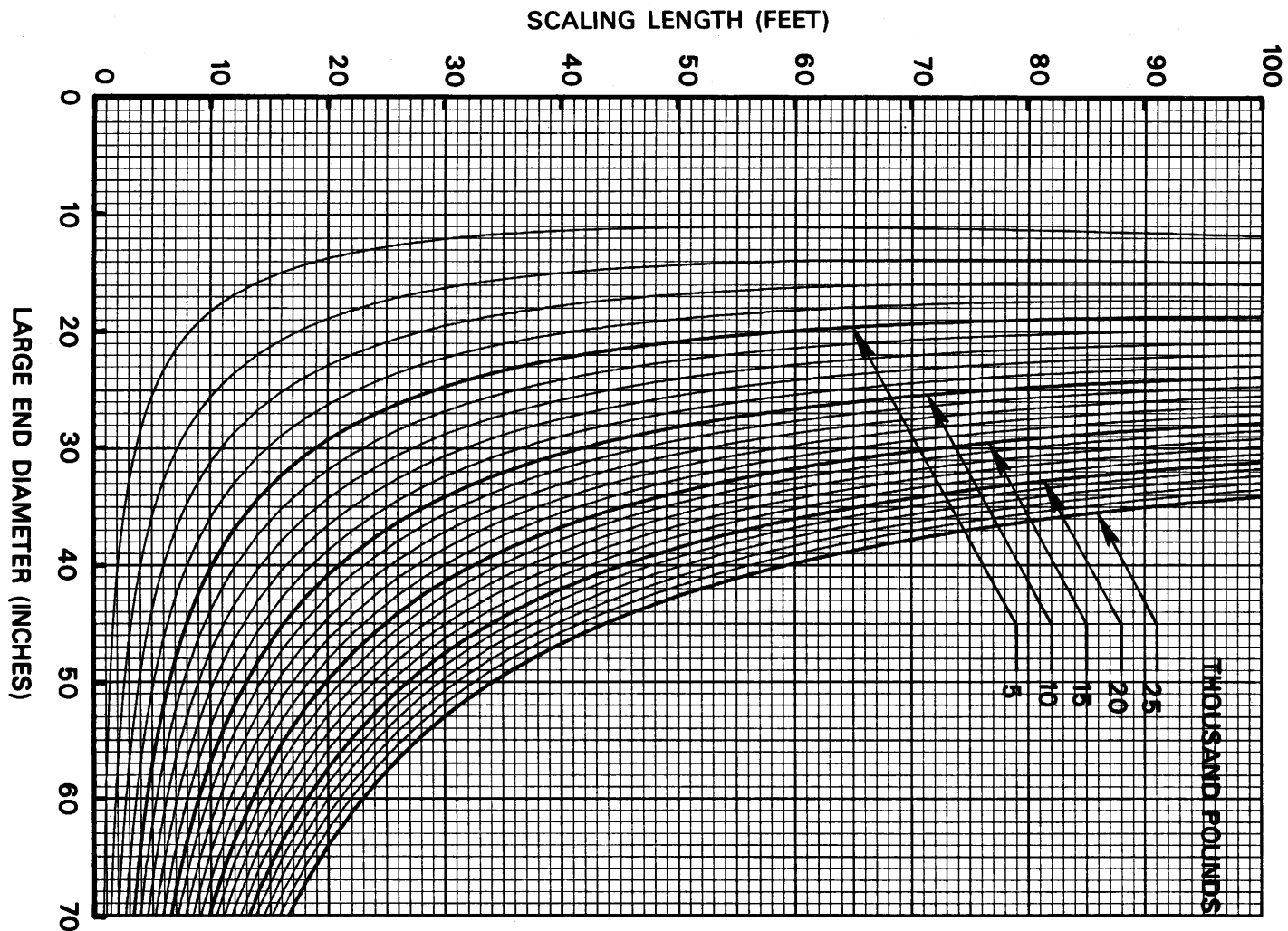


Figure 19.—Scaling length versus large end diameter for various log weights. Density index = 58 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

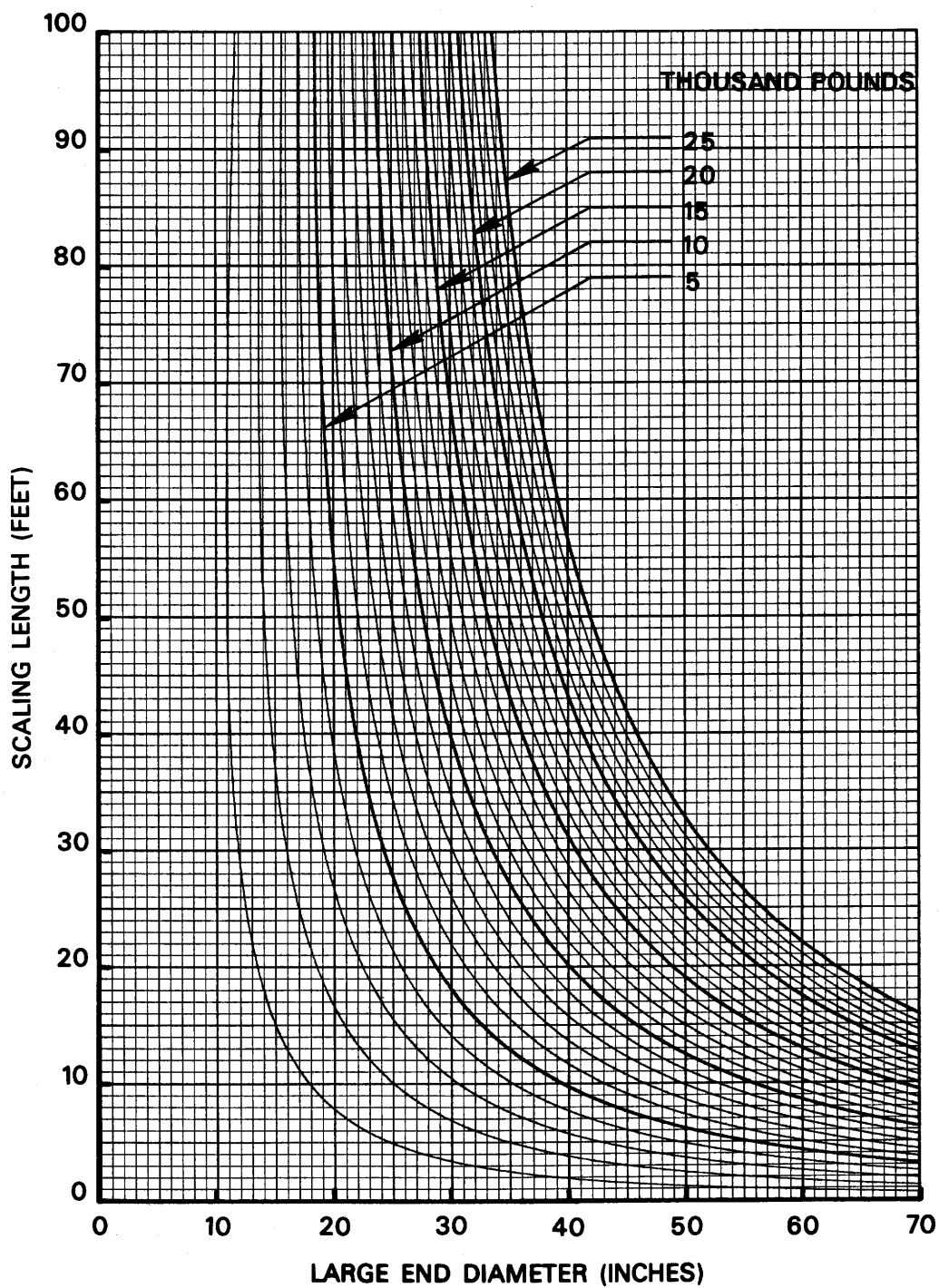


Figure 20.—Scaling length versus large end diameter for various log weights. Density index = 60 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

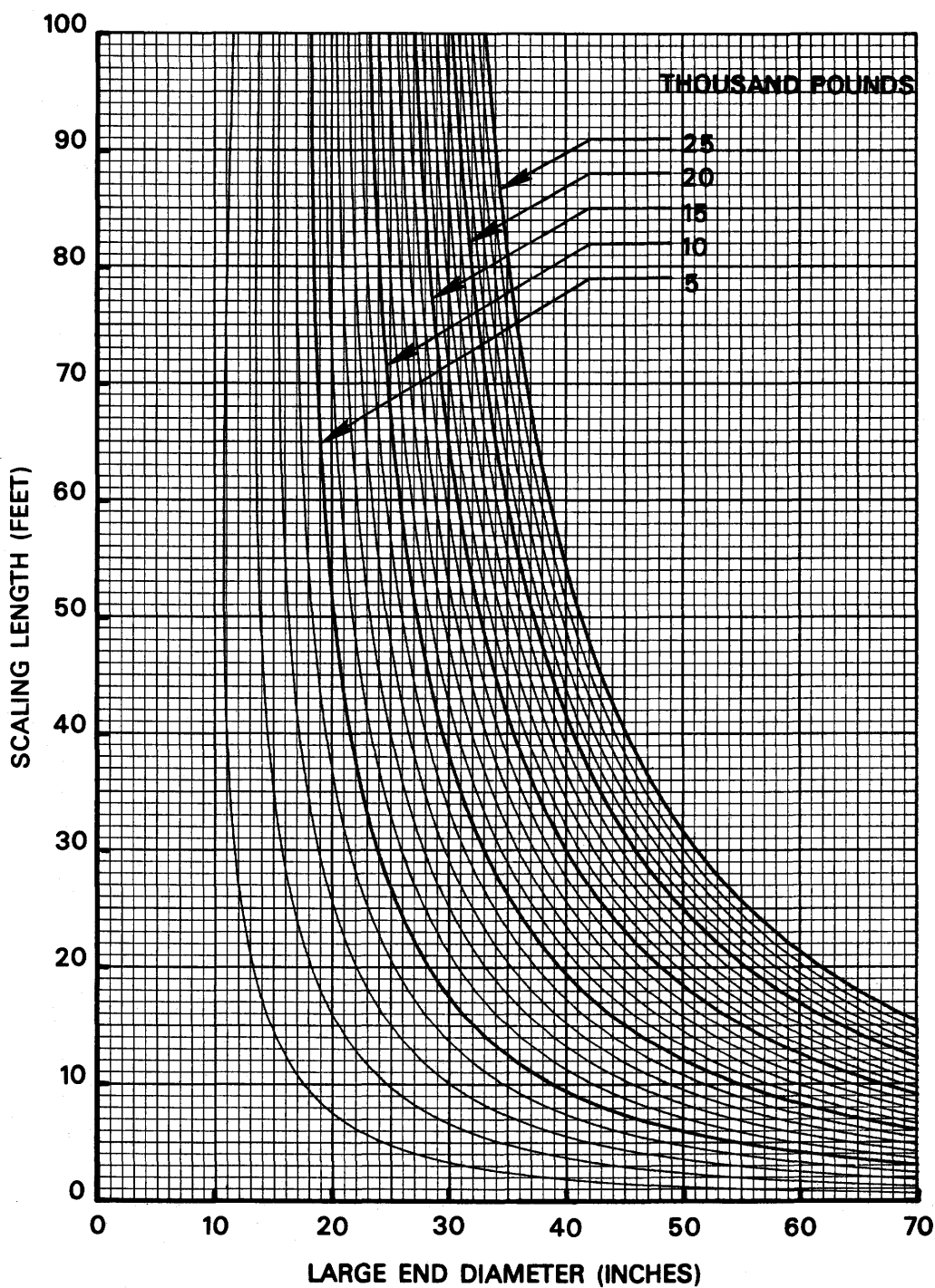


Figure 21.—Scaling length versus large end diameter for various log weights. Density index = 62 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

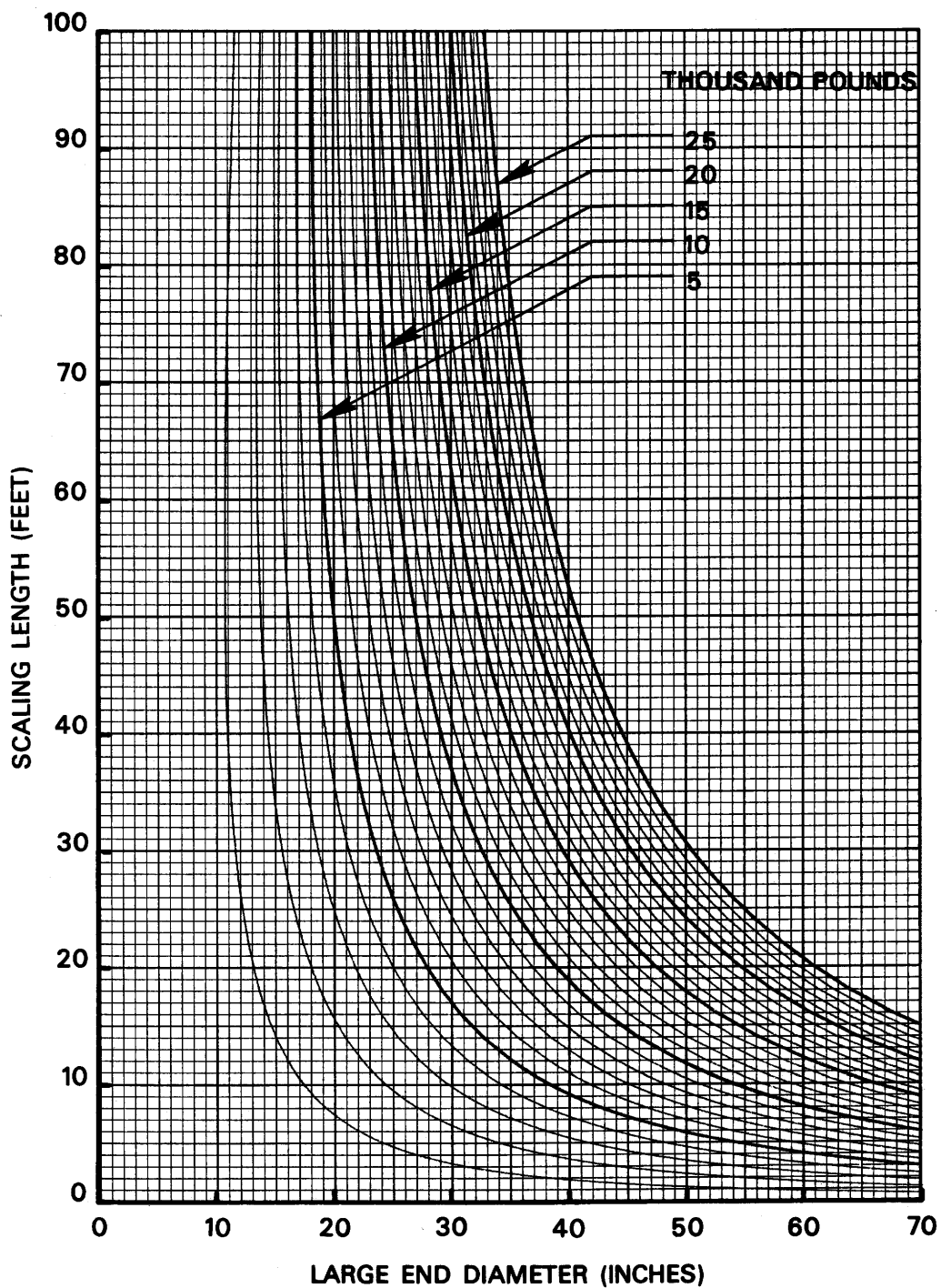


Figure 22.—Scaling length versus large end diameter for various log weights. Density index = 64 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

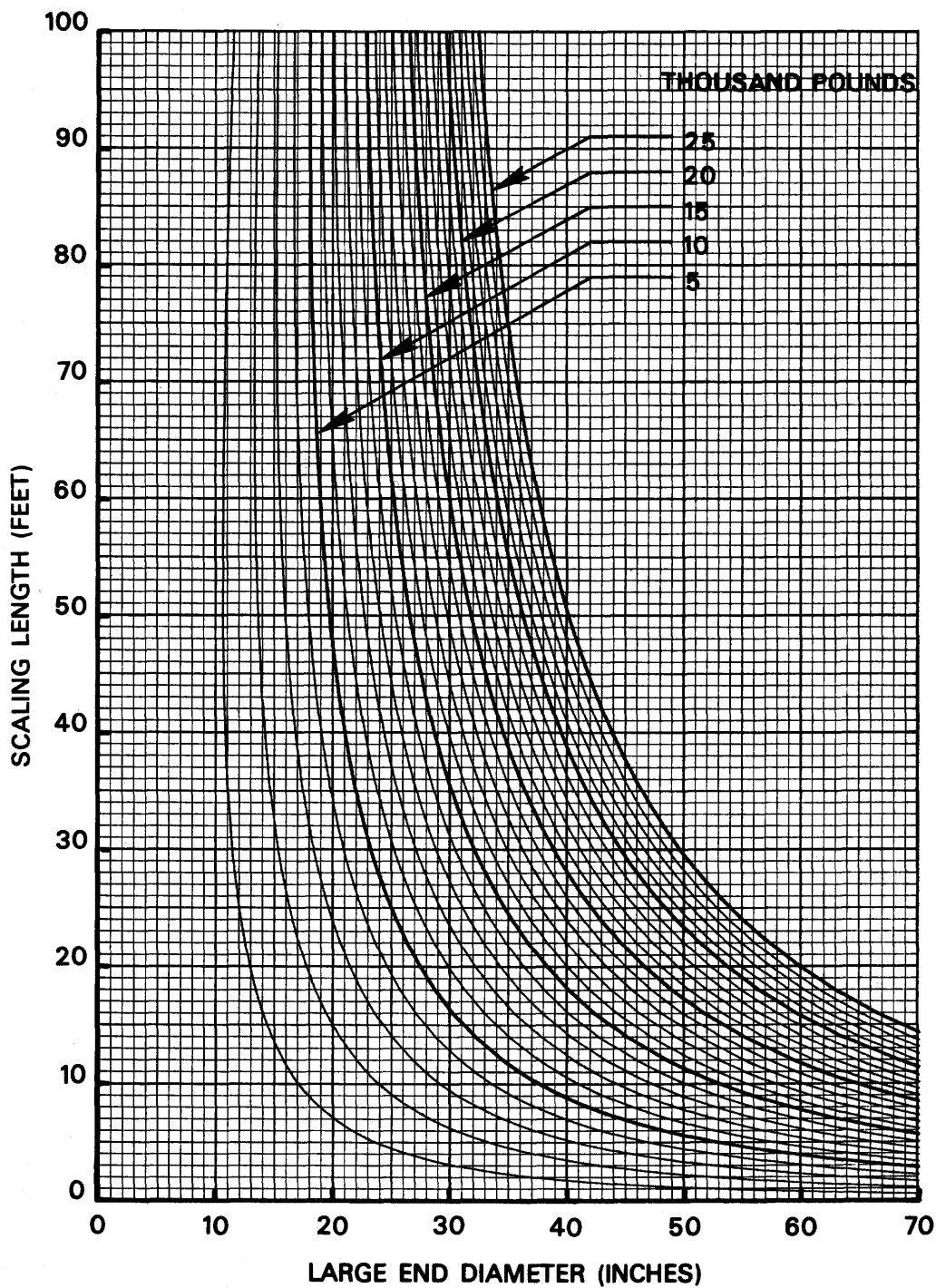


Figure 23.—Scaling length versus large end diameter for various log weights. Density index = 66 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

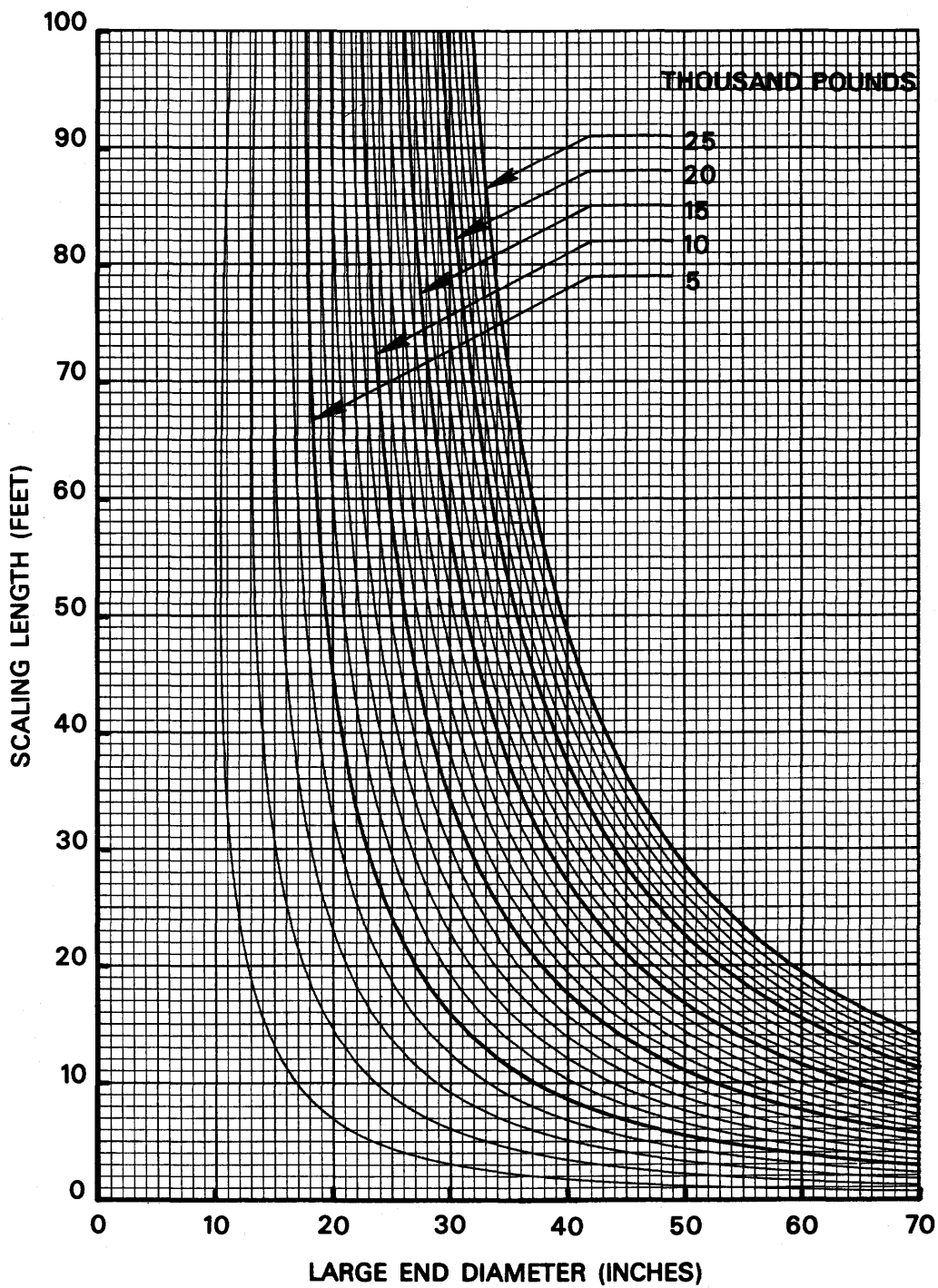


Figure 24.—Scaling length versus large end diameter for various log weights. Density index = 68 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

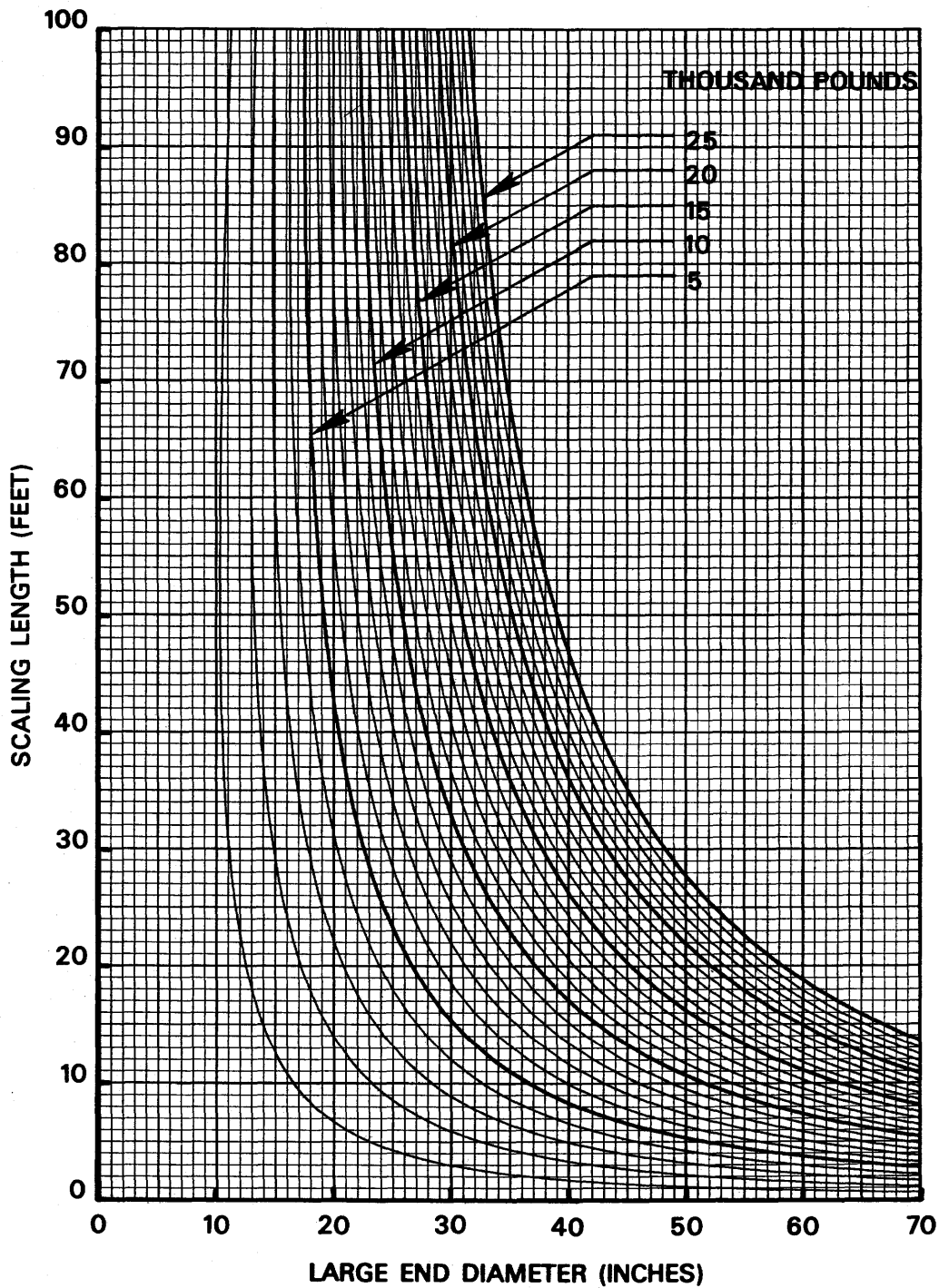


Figure 25.—Scaling length versus large end diameter for various log weights. Density index = 70 pounds per cubic foot. (Assumed taper of 1 inch per 8 feet, trim allowance of 1 inch per 4 feet.)

[illegible]

- 1/ Use local scaling practices.
- 2/ Tables 1 and 2.

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Keywords: Logs, weights, logging.

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The mission of the **PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION** is to provide the knowledge, technology, and alternatives for present and future protection, management, and use of forest, range, and related environments.

Within this overall mission, the Station conducts and stimulates research to facilitate and to accelerate progress toward the following goals:

1. Providing safe and efficient technology for inventory, protection, and use of resources.
2. Development and evaluation of alternative methods and levels of resource management.
3. Achievement of optimum sustained resource productivity consistent with maintaining a high quality forest environment.

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