

**MIL-STD-627**

**6 September 1962**

**MILITARY STANDARD**

**SPROCKET WHEELS**

**FOR**

**POWER TRANSMISSION**

**AND CONVEYING CHAINS**



**FSC 3020**

MIL-STD-627  
6 SEPTEMBER 1962

DEPARTMENT OF DEFENSE  
WASHINGTON 25, D. C.

Standardization Division

Sprocket Wheels for Power Transmission and Conveying Chains

1. This standard has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force, effective upon issuance.

2. Recommended corrections, additions, or deletions should be addressed to U. S. Army Engineer Research and Development Laboratories, ATTN: SMOFB-KX, Fort Belvoir, Va.

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## FOREWORD

The production of sprockets is widespread throughout the United States among many chain and equipment manufacturers. Due to this widespread production, sprockets are produced in a variety of tooth profiles, body types, materials, and qualities.

Over the years there have been many schools of thought covering sprocket-tooth-profile design. As a result, standardization has been difficult and actually accomplished in only a few areas. It must be recognized that this is quite logical because each type or class of chain as well as application requirements has an effect upon a suitable functional design.

Each class of chain should have its sprocket design requirements separately discussed for proper understanding. Since the American Standards Association Standard B29.1 is one of long standing and widely accepted for cut-tooth sprockets used with Mil-Std-421 and Mil-Std-423, it will be presented first on the following pages. This design is basically applicable to cut-tooth sprockets and usually needs some modifications before it can be used with other methods of manufacture.

The next type of sprocket-tooth profile that has been standardized by the American Standards Association is Standard B29.2 for Mil-Std-425 chains. This standard is presented next after B29.1.

The most recent standardization of sprocket-tooth profiles appears in the American Standards Association Standard B29.10. It specifically applies to Mil-Std-424 chains. It is also applicable to Mil-Std-617, -623, -624, -625, and -626 chains, with some modifications likely when attachments are used with these chains. The attachments often require clearance considerations not present on plain chains.

The tooth-profile design covered by the American Standards Association Standard B29.10 is suitable for all methods of manufacture mentioned above and is adaptable for all classes of chains referenced on page 1 except for Mil-Std-425 chains which require their own unique tooth profile.

Research and development is a continuing program and it is anticipated that further refinements of sprocket-tooth-profile designs will result.

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## MILITARY STANDARD

### SPROCKET WHEELS FOR POWER TRANSMISSION AND CONVEYOR CHAINS

#### 1. SCOPE:

1.1 Coverage - This is a design standard covering the various tooth forms for sprockets used with power transmission and conveyor chains adopted for standardization by the Military.

1.2 Application - The sprockets described by this standard shall be required on all new equipment where such sprockets are applicable. This standard does not apply to equipment already in the military supply system except that insofar as technical characteristics will permit in replacing existing sprockets with sprockets covered by this standard.

#### 2. REFERENCED DOCUMENTS:

The issues of the following documents in effect on the date of invitation for bids form a part of this standard to the extent specified herein:

MIL-STD-421, Chain Roller: Power Transmission and Conveyor, Flat Link Plates, Single Pitch, Single and Multiple Strand: Connecting Links and Attachment Links.

MIL-STD-423, Chain, Roller: Conveyor, Standard and Large Rollers, Flat Link Plates, Double Pitch, Single Strand, Connecting Links and Attachment Links.

MIL-STD-424, Chain, Roller, Power Transmission, Heavy Duty, Offset Sidebars, Single Pitch.

MIL-STD-425, Chain, Silent; 60 Degree Inverted Tooth, Power Transmission.

MIL-STD-617, Chain, Detachable Link; Power Transmission and Conveyor; and Attachments, Steel.

MIL-STD-618, Chain, Leaf and Clevises.

MIL-STD-624, Chain, Pintle, Cast Pearlitic Malleable Iron Links, Power Transmission and Conveying Attachments.

MIL-STD-623, Chain, Hardened Steel Bushings, Roller, Straight Sidebars, Conveying; and Attachments.

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MIL-STD-625, Chain, Combination, Cast Pearlitic Malleable Iron Links, Steel Sidebars, Conveying and Attachments.

MIL-STD-626, Chain, Hardened Steel Bushings, Rollerless, Straight Sidebar, Conveying; and Attachments.

3. DEFINITIONS - ASA Chain numbers referenced herein are based on chains covered by American Standards Associations Standards of the B29. series.

4. GENERAL REQUIREMENTS:

Requirements to insure functional interchangeability shall be as specified on pages 3, 4, 91, and 92.

5. DETAILED REQUIREMENTS:

Requirements and technical characteristics shall be in accordance with requirements and technical characteristics as specified or shown on pages 5 through 90 of this standard.

# 1. SPROCKET WHEEL TYPES

Thus far, the standardization of sprockets has been confined to only the tooth form. The tooth form has been further refined to a tooth form over which standard chains operate. As to overall sprocket design, however, a limited degree of simplification is being obtained by industry by establishing what has become known as types A, B, and C.

Additional simplification is being obtained by sprocket manufacturers' listings and by advocating the use of what is known as stock sprockets. Such listings were compiled based on the type and design of sprockets more commonly used in this country. As to types of sprockets, manufacturers' production and listing of stock sprockets are generally confined to the types shown in Figures 1, 2, 3, 4, and 6. The production of stock sprockets is further confined to a range of number of teeth on the sprocket depending on the length of chain pitch.

Types A, B, and C, the three basic types, are identified by their hub arrangement. Among the various types of special purpose sprockets produced are modified versions of types A, B, and C. Some such types are shown below.

Type A sprockets, sometimes called plate sprockets, do not have hubs. These sprockets are made from bar stock or hot-rolled steel plate and are used for mounting on hubs or flanges. They are furnished solid or split and with or without drilled or tapped holes.



FIGURE 1 - TYPE A

Type B sprockets have a hub on one side only. Small-diameter sprockets are usually furnished as type B. Type B sprockets are made of steel, fabricated either from bar stock, forgings, or hot-rolled plate with welded hub construction. Large diameter sprockets may be finished plate and welded hub construction or machined from gray iron castings.



FIGURE 2 - TYPE B

Type C sprockets have hubs on both sides. The hub projections are usually furnished equidistant from the centerline of the sprocket but may be offset if required. Large diameter sprockets are usually furnished as type C and may be made of gray iron, cast steel or fabricated from hot-rolled plate with a hub welded to both sides. The type C hub arrangement provides stability and assures even stress distribution on shaft and key because the line of action due to chain pull reacts through the center of the hub.

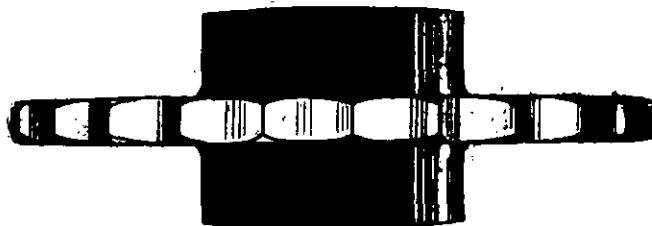


FIGURE 3 - TYPE C

Multiple width sprockets are provided for multiple width chains and have a row of teeth to engage each strand of chain. They are made in the same types as single width sprockets. That is, smaller diameter sprockets are regularly furnished as type B and the larger diameter sprockets are furnished as type C.

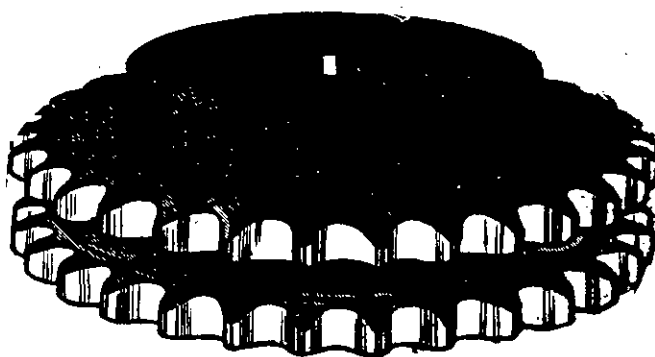


FIGURE 4 - MULTIPLE WIDTH SPROCKET WHEELS

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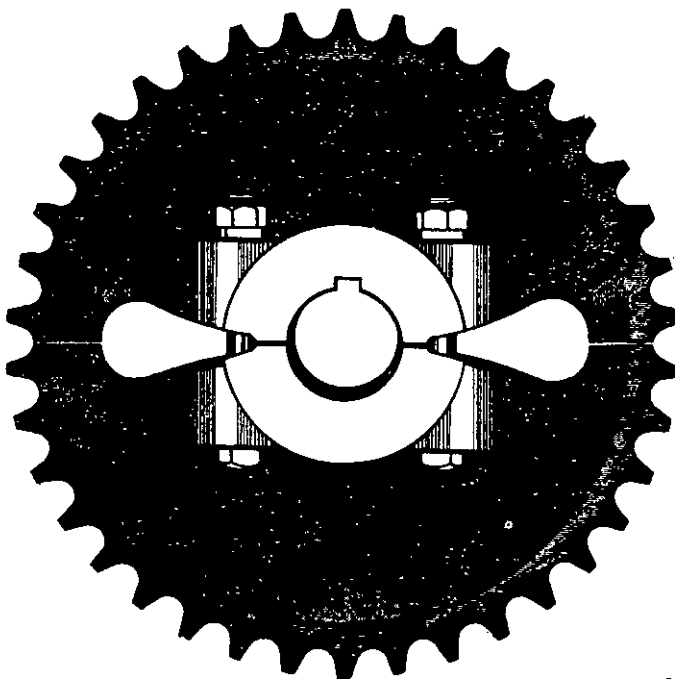


FIGURE 5 - TYPICAL CAST IRON SPLIT WHEEL

Taper lock sprockets are used where a positive, full compression grip on the shaft is desired. These sprockets are provided in a range of sizes for single strand and multiple strand chains. Taper lock bushings are usually stocked in 1/16 inch bore increments, complete with keyseats.

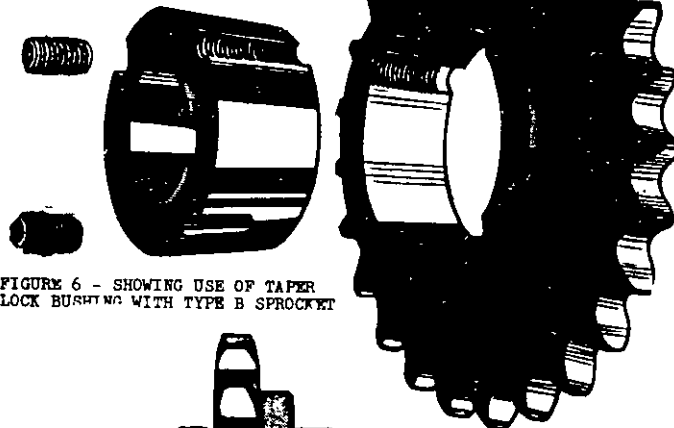


FIGURE 6 - SHOWING USE OF TAPER LOCK BUSHING WITH TYPE B SPROCKET

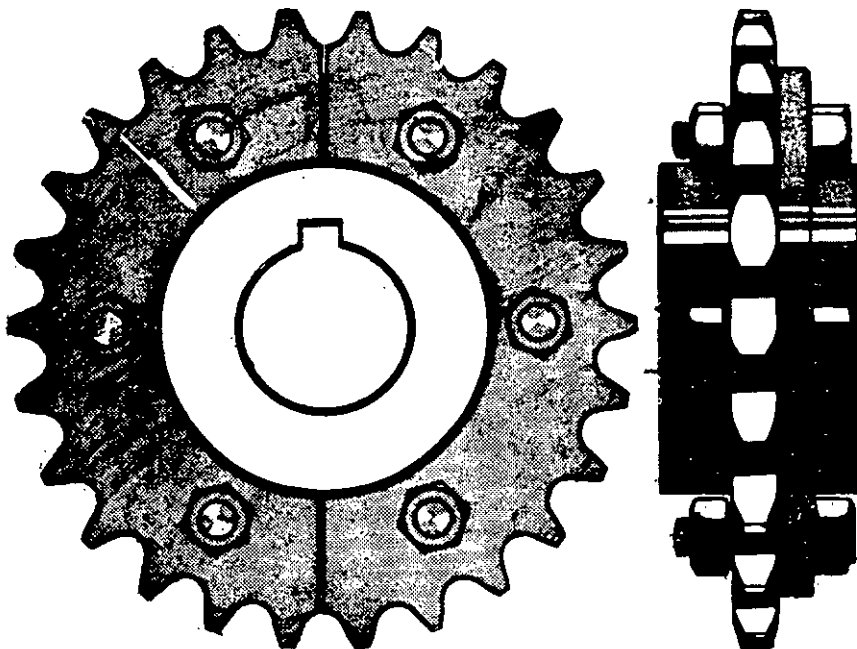


FIGURE 7 - DOUBLE DUTY SPROCKETS

The split type sprocket, Figure 5, is a modified version of the type C sprocket. The sprocket shown in Figure 5 is typical of the split type. Various other designs of this type are produced. The type shown in Figure 5 has a split hub and rim construction designed for bolting the two halves together on the shaft. The split type sprocket lends itself to ease of installation and replacement of sprockets where accessibility is difficult.

A split type sprocket known as a double duty sprocket and frequently referred to as type D, consists of a split plate. Type A, the plate sprocket, is split and drilled for bolting to a hub in two sections. Such sprockets lend themselves to ease of maintenance and permit drive ratio changes if necessary.

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## 2. SPROCKET WHEELS FOR ROLLER CHAINS (ASA B29.1) MIL-STD-421

### a. DIAMETERS

P = Chain Pitch

D = Roller Diameter

PD = Pitch Diameter

N = Number of Teeth

The pitch diameter (PD) is the diameter of the pitch circle that passes through the centers of the link pins as the chain is wrapped on the sprocket. Since the chain pitch is measured on a straight line between centers of adjacent pins, the chain pitch lines form a series of chords of the pitch circle. The PD is computed as follows:

$$PD = \frac{P}{\sin \left( \frac{180^\circ}{N} \right)}$$

The bottom diameter (BD) is the diameter of a circle tangent to the curve (called the seating curve) at the bottom of the tooth gap. To permit the chain roller centers to follow the sprocket pitch circle, the bottom diameter must be

$$BD = PD - D$$

The caliper diameter (CD) is used in quality control methods of manufacturers to check the precision to which the bottom diameter has been cut. For a sprocket with an even number of teeth, the caliper diameter is the distance measured by calipers across the bottoms of seating curves of the two opposite tooth gaps and is equal to bottom diameter, BD.

With an odd number of teeth, no two tooth gaps are diametrically opposite, and the caliper diameter is not a true diameter. However, its value for a given odd-tooth sprocket is computed as follows:

$$CD = PD \left( \cos \frac{90^\circ}{N} \right) - D$$

Tolerances on caliper diameter of sprockets:

plus tolerance = 0.000

minus tolerance =  $0.001P\sqrt{N} + 0.003$

The outside diameter (OD) is the diameter over the tips of the teeth and is computed as follows:

$$OD = P \left( 0.6 + \cot \frac{180^\circ}{N} \right)$$

Maximum hub and groove diameter (MHD) is to insure clearance for link plates and is computed as follows:

$$MHD = P \left( \cot \frac{180^\circ}{N} - 1 \right) - 0.030$$

FOR DETERMINING THE VALUE OF H  
SEE PAGE 7.

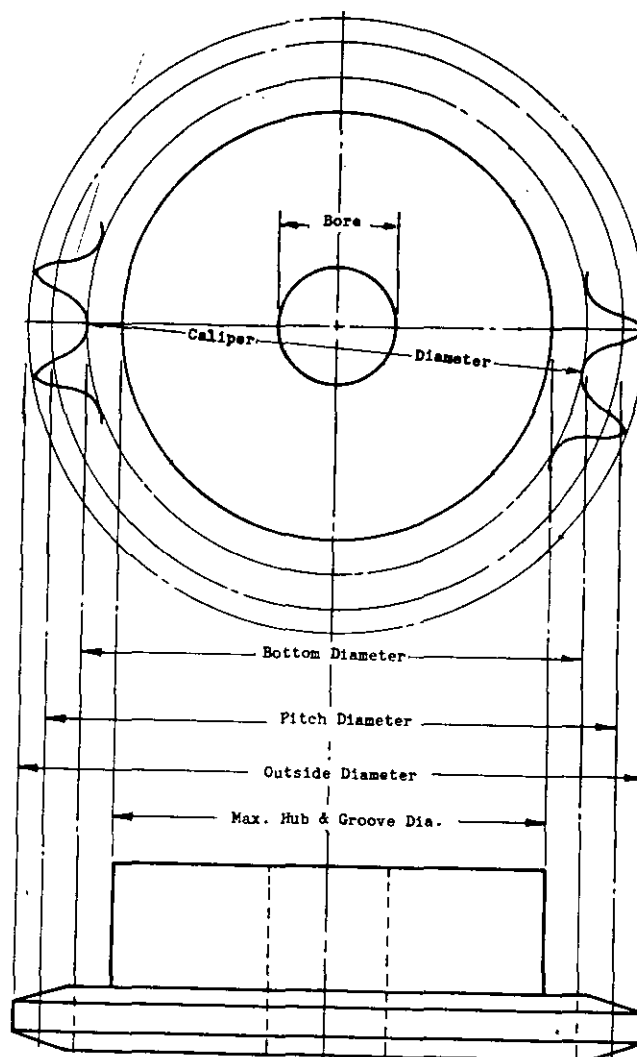


FIGURE 8 - DIAMETERS

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b. TOOTH FORM

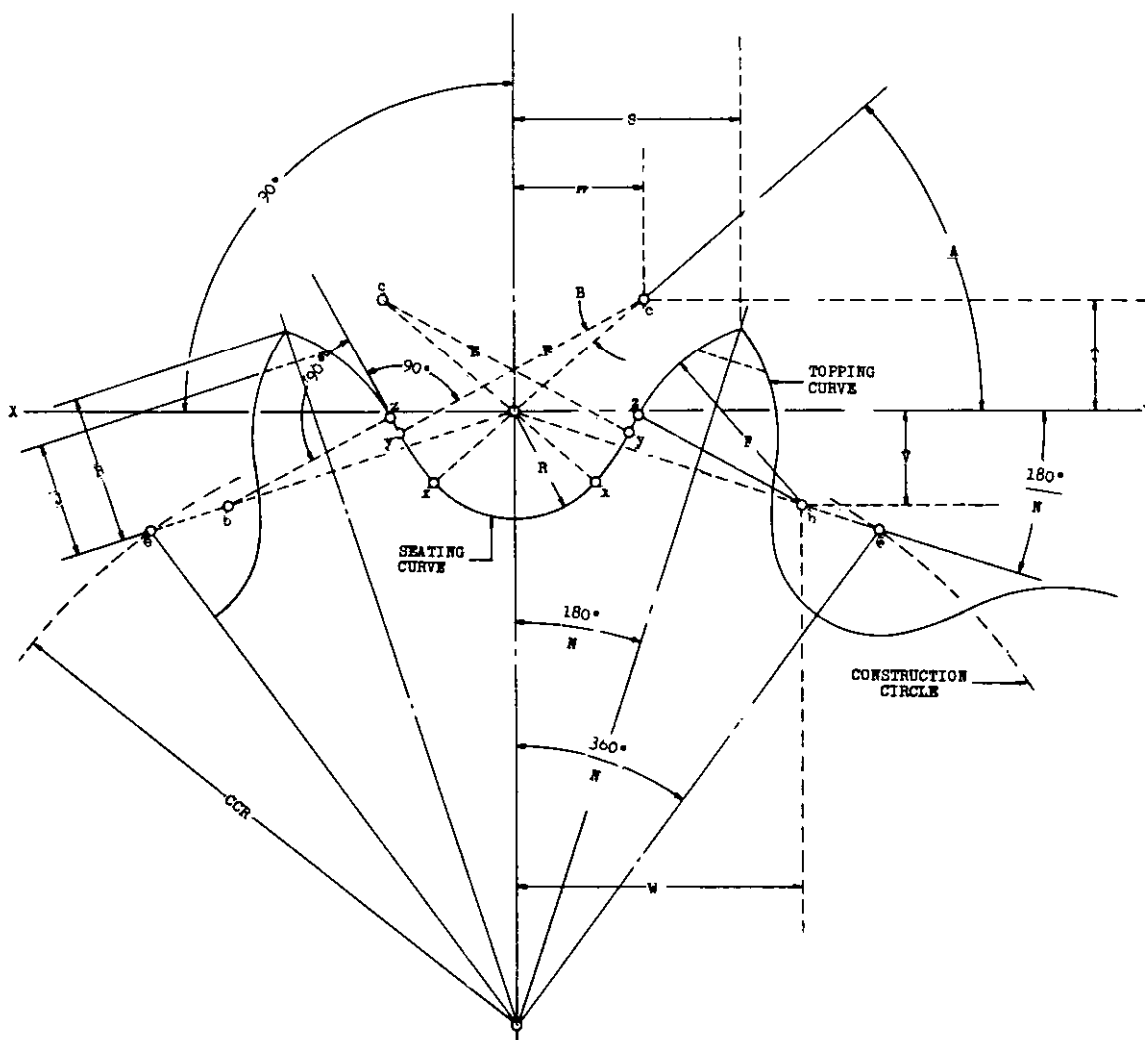


FIGURE 9 - TOOTH FORM

The drawing of the sprocket tooth form shown in Figure 9 is based on the following data and dimensions (inches).

Chain Pitch (P) = 2.00      Roller Diameter (D) = 1.125      Seating Curve Diameter (Ds) = 1.134      R = 0.567  
Pitch Diameter (PD) = 6.472      Pitch Radius (PR) = 3.236      Bottom (Root) Diameter = 5.347      Number of Teeth (N) = 10  
Construction Circle Radius (CCR) =  $3.236 + \frac{(1.134 - 1.125)}{2} = 3.2405$       Angle  $\frac{180^\circ}{10} = 18^\circ$       Angle  $\frac{360^\circ}{10} = 36^\circ$   
Angle A =  $41^\circ$       Angle B =  $12^\circ 24'$       Pressure Angle for a new chain =  $23^\circ$       Minimum Pressure Angle =  $10^\circ 36'$   
Average Pressure Angle =  $16^\circ 48'$   
M = 0.679      T = 0.590      V = 0.487      S = 1.189      W = 1.498      a to c = 0.900      E = c to y = 1.467  
x to y = 0.317      y to z = 0.097      a to b = 1.575      F = 0.960      H = 0.769      J = 0.60  
OD (pointed teeth) = 7.701      OD (truncated teeth) = 7.355

The dimensions and angles shown above for Figure 9 were determined according to the formulae shown on the following page.

## b. TOOTH FORM (CONTINUED)

$$D_s = \text{Seating curve diameter} = 1.005D + 0.003; \quad R = \frac{D_s}{2} = 0.5025D + 0.0015.$$

Tolerance on  $D_s$  is all plus and equal to  $0.003D + 0.005$ . Points a and e are located on the construction circle a to e may be assumed to equal pitch of chain. Points a and e are the center of the seating curve radius,  $R$ .

$$\text{Angle A} = 35^\circ + \frac{60^\circ}{N} \quad a \text{ to } c = 0.8D. \quad \text{Angle B} = 18^\circ - \frac{56^\circ}{N} \quad \text{Distance E from c to y} = 1.3025D + 0.0015.$$

$$\text{Chord of arc x to y} = (2.605D + 0.003) \sin \left( 9^\circ - \frac{28^\circ}{N} \right).$$

yz is a straight line tangent to the working curve xy and the topping curve.

$$y \text{ to } z = D \left[ 1.4 \sin \left( 17^\circ - \frac{64^\circ}{N} \right) - 0.8 \sin \left( 18^\circ - \frac{56^\circ}{N} \right) \right]$$

Point b lies on the chordal pitch line (a-e) which makes an angle with the line xy of  $\frac{180^\circ}{N}$ .

a to b =  $1.4D$  Line zb is parallel to line cy.

$$M = 0.8D \cos \left( 35^\circ + \frac{60^\circ}{N} \right) \quad T = 0.8D \sin \left( 35^\circ + \frac{60^\circ}{N} \right) \quad W = 1.4D \cos \frac{180^\circ}{N} \quad V = 1.4D \sin \frac{180^\circ}{N}$$

$$F = D \left[ .8 \cos \left( 18^\circ - \frac{56^\circ}{N} \right) + 1.4 \cos \left( 17^\circ - \frac{64^\circ}{N} \right) - 1.3025 \right] - 0.0015. \quad H = \sqrt{F^2 - \left( 1.4D - \frac{P}{2} \right)^2}$$

$$S = \frac{P}{2} \cos \frac{180^\circ}{N} + H \sin \frac{180^\circ}{N} \quad PR = \frac{\frac{P}{2}}{\sin \left( \frac{180^\circ}{N} \right)} \quad CCR = PR + \frac{D_s - D}{2} \quad J = .3P$$

Approximate outside diameter of sprocket when  $J$  is  $.3P = P \left( 0.6 + \cot \frac{180^\circ}{N} \right)$

Outside diameter of sprocket when tooth is pointed =  $P \cot \frac{180^\circ}{N} + \cos \frac{180^\circ}{N} (D_s - D) + 2H$

Pressure angle for a new chain =  $xab = 35^\circ - \frac{120^\circ}{N}$  The minimum pressure angle =  $xab - B = 17^\circ - \frac{64^\circ}{N}$

The average pressure angle is  $26^\circ - \frac{92^\circ}{N}$

TABLE I - SEATING CURVE DATA

ASA CHAIN NUMBER	CHAIN PITCH P	ROLLER DIA D	MINIMUM SEATING CURVE RADIUS R	MINIMUM SEATING CURVE DIA. $D_s$	PLUS TOLERANCE ON $D_s$ (*)
25	1/4	0.130	0.0670	0.134	0.0055
**35	3/8	0.200	0.1020	0.204	0.0055
**40	1/2	0.312	0.1585	0.317	0.0060
41	1/2	0.306	0.1585	0.317	0.0060
50	5/8	0.400	0.2025	0.405	0.0060
60	3/4	0.469	0.2370	0.474	0.0065
80	1----	0.625	0.3155	0.631	0.0070
100	1-1/4	0.750	0.3785	0.757	0.0070
120	1-1/2	0.875	0.4410	0.882	0.0075
140	1-3/4	1.000	0.5040	1.008	0.0080
160	2----	1.125	0.5670	1.134	0.0085
180	2-1/4	1.406	0.7080	1.416	0.0090
200	2-1/2	1.562	0.7870	1.574	0.0095
240	3----	1.875	0.9435	1.887	0.0105

(\*) Plus only, no minus tolerance.

(\*\*) Without rollers.

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c. TOOTH CROSS-SECTIONAL PROFILE

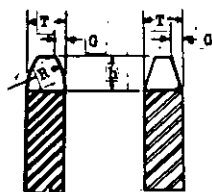


FIGURE 10  
SINGLE HOT ROLLED  
STEEL PLATE

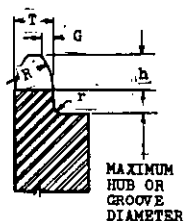


FIGURE 11  
SINGLE WIDTH

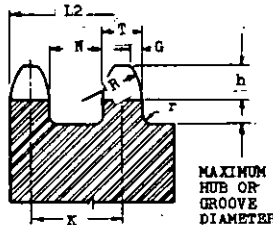


FIGURE 12  
DOUBLE WIDTH

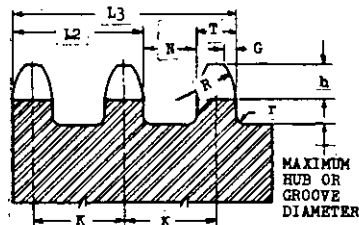


FIGURE 13  
TRIPLE WIDTH

TABLE II - SINGLE WIDTH SPROCKETS

ASA CHAIN NUMBER	CHAIN PITCH INCHES	h	G	R	r	T	Tolerances on Dimension T			
							Fully machined sprocket		Hot rolled steel plate sprocket or unfinished forging	
							INCHES			
25	1/4	.125	1/32	17/64	1/32	.110	+.000	-.007	+.000	-.021
35	3/8	.188	3/64	13/32	1/32	.168	+.000	-.008	+.000	-.027
40	1/2	.250	1/16	17/32	1/32	.284	+.000	-.009	+.000	-.035
41	1/2	.250	1/16	17/32	1/32	.227	+.000	-.009	+.000	-.032
50	5/8	.313	5/64	21/32	1/32	.343	+.000	-.010	+.000	-.036
60	3/4	.375	3/32	25/32	1/32	.459	+.000	-.011	+.000	-.036
80	1	.500	1/8	1 1/16	3/64	.575	+.000	-.012	+.000	-.040
100	1 1/4	.625	5/32	1 21/64	3/64	.692	+.000	-.014	+.000	-.046
120	1 1/2	.750	3/16	1 19/32	1/16	.924	+.000	-.016	+.000	-.057
140	1 3/4	.875	7/32	1 55/64	1/16	.924	+.000	-.016	+.000	-.057
160	2	1.000	1/4	2 1/8	5/64	1.156	+.000	-.019	+.000	-.062
180	2 1/4	1.125	9/32	2 25/64	3/32	1.301	+.000	-.020	+.000	-.068
200	2 1/2	1.250	5/16	2 21/32	3/32	1.389	+.000	-.021	+.000	-.072
240	3	1.500	3/8	3 3/16	1/8	1.738	+.000	-.025	+.000	-.088

TABLE III - DOUBLE AND TRIPLE WIDTH SPROCKETS

ASA CHAIN NUMBER	CHAIN PITCH INCHES	h	G	R	r	T	N	K	L2	L3	Tolerances on T and L dimensions	
											INCHES	
35	3/8	.188	3/64	13/32	1/32	.162	.236	.398	.560	.958	+.000	-.008
40	1/2	.250	1/16	17/32	1/32	.275	.291	.566	.841	1.407	+.000	-.009
50	5/8	.313	5/64	21/32	1/32	.332	.381	.713	1.045	1.758	+.000	-.010
60	3/4	.375	3/32	25/32	1/32	.444	.454	.898	1.342	2.240	+.000	-.011
80	1	.500	1/8	1 1/16	3/64	.557	.595	1.152	1.709	2.861	+.000	-.012
100	1 1/4	.625	5/32	1 21/64	3/64	.669	.739	1.408	2.077	3.485	+.000	-.014
120	1 1/2	.750	3/16	1 19/32	1/16	.894	.895	1.789	2.683	4.472	+.000	-.016
140	1 3/4	.875	7/32	1 55/64	1/16	.894	1.030	1.924	2.818	4.742	+.000	-.016
160	2	1.000	1/4	2 1/8	5/64	1.119	1.186	2.305	3.424	5.729	+.000	-.019
180	2 1/4	1.125	9/32	2 25/64	3/32	1.259	1.333	2.592	3.851	6.443	+.000	-.020
200	2 1/2	1.250	5/16	2 21/32	3/32	1.344	1.473	2.817	4.161	6.978	+.000	-.021
240	3	1.500	3/8	3 3/16	1/8	1.682	1.775	3.457	5.139	8.596	+.000	-.025

\* Flange chamfer may be radial, straight, or anything in between.



## c. TOOTH CROSS-SECTIONAL PROFILE (CONTINUED)

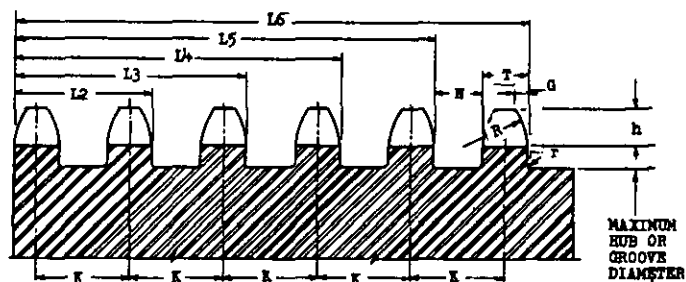


FIGURE 14 - SEXTUPLE WIDTH

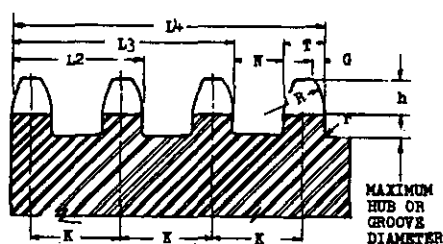


FIGURE 15 - QUADUPLE WIDTH

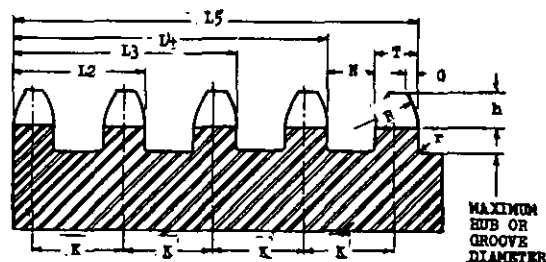


FIGURE 16 - QUINTUPLE WIDTH

TABLE IV - QUADUPLE, QUINTUPLE, AND SEXTUPLE WIDTH SPROCKETS

ASA CHAIN NUMBER	CHAIN PITCH INCHES	h	G	R	r	N	K
		INCHES					
35	3/8	.188	3/64	13/32	1/32	.249	.398
40	1/2	.250	1/16	17/32	1/32	.310	.566
50	5/8	.313	5/64	21/32	1/32	.402	.713
60	3/4	.375	3/32	25/32	1/32	.480	.898
80	1	.500	1/8	1 1/16	3/64	.626	1.152
100	1 1/4	.625	5/32	1 21/64	3/64	.775	1.408
120	1 1/2	.750	3/16	1 19/32	1/16	.941	1.789
140	1 3/4	.875	7/32	1 55/64	1/16	1.076	1.924
160	2	1.000	1/4	2 1/8	5/64	1.242	2.305
180	2 1/4	1.125	9/32	2 25/64	3/32	1.389	2.592
200	2 1/2	1.250	5/16	2 21/32	3/32	1.539	2.817
240	3	1.500	3/8	3 3/16	1/8	1.856	3.457

TABLE V - QUADUPLE, QUINTUPLE, AND SEXTUPLE WIDTH SPROCKETS

ASA CHAIN NUMBER	CHAIN PITCH INCHES	T	L2	L3	L4	L5	L6	Tolerances on T and L dimensions	
		INCHES							
35	3/8	.149	.547	.945	1.343	1.741	2.139	+.000	-.008
40	1/2	.256	.822	1.388	1.954	2.520	3.086	+.000	-.009
50	5/8	.311	1.024	1.737	2.450	3.163	3.876	+.000	-.010
60	3/4	.418	1.316	2.214	3.112	4.010	4.908	+.000	-.011
80	1	.526	1.678	2.810	3.982	5.134	6.286	+.000	-.012
100	1 1/4	.633	2.041	3.449	4.857	6.265	7.673	+.000	-.014
120	1 1/2	.848	2.637	4.426	6.215	8.004	9.793	+.000	-.016
140	1 3/4	.848	2.772	4.696	6.620	8.544	10.468	+.000	-.016
160	2	1.063	3.368	5.673	7.978	10.283	12.588	+.000	-.019
180	2 1/4	1.197	3.789	6.381	8.973	11.565	14.157	+.000	-.020
200	2 1/2	1.278	4.095	6.912	9.729	12.546	15.363	+.000	-.021
240	3	1.601	5.058	8.515	11.972	15.429	18.886	+.000	-.025

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TABLE VI - TECHNICAL CHARACTERISTICS FOR SPROCKET WHEELS FOR ROLLER CHAINS(ASA B29.1) MIL-STD-421

P	D	N	PD	BD	OD	MHD	CD
.250	.130	8.	.653	.523	.754	.324	.5230
.250	.130	9.	.731	.601	.837	.407	.5899
.250	.130	10.	.809	.679	.919	.489	.6790
.250	.130	11.	.887	.757	1.003	.571	.7480
.250	.130	12.	.966	.836	1.083	.653	.8360
.250	.130	13.	1.045	.915	1.164	.734	.9074
.250	.130	14.	1.123	.993	1.245	.815	.9930
.250	.130	15.	1.202	1.072	1.326	.896	1.0854
.250	.130	16.	1.281	1.151	1.407	.977	1.1510
.250	.130	17.	1.361	1.231	1.487	1.057	1.2252
.250	.130	18.	1.440	1.310	1.568	1.138	1.3100
.250	.130	19.	1.519	1.389	1.648	1.218	1.3838
.250	.130	20.	1.598	1.468	1.728	1.298	1.4680
.250	.130	21.	1.677	1.547	1.809	1.379	1.5423
.250	.130	22.	1.757	1.627	1.889	1.459	1.6270
.250	.130	23.	1.836	1.706	1.969	1.539	1.7017
.250	.130	24.	1.915	1.785	2.049	1.619	1.7850
.250	.130	25.	1.995	1.865	2.129	1.699	1.8611
.250	.130	26.	2.074	1.944	2.209	1.779	1.9440
.250	.130	27.	2.153	2.023	2.289	1.859	2.0194
.250	.130	28.	2.233	2.103	2.369	1.939	2.1030
.250	.130	29.	2.312	2.182	2.449	2.019	2.1786
.250	.130	30.	2.392	2.262	2.529	2.099	2.2620
.250	.130	31.	2.471	2.341	2.608	2.178	2.3378
.250	.130	32.	2.551	2.421	2.688	2.258	2.4210
.250	.130	33.	2.630	2.500	2.768	2.338	2.4970
.250	.130	34.	2.709	2.579	2.848	2.418	2.5790
.250	.130	35.	2.789	2.659	2.928	2.498	2.6562
.250	.130	36.	2.868	2.738	3.008	2.578	2.7380
.250	.130	37.	2.948	2.818	3.087	2.657	2.8153
.250	.130	38.	3.027	2.897	3.167	2.737	2.8970
.250	.130	39.	3.107	2.977	3.247	2.817	2.9745
.250	.130	40.	3.186	3.056	3.327	2.897	3.0560
.250	.130	41.	3.266	3.136	3.406	2.976	3.1336
.250	.130	42.	3.345	3.215	3.486	3.056	3.2150
.250	.130	43.	3.425	3.295	3.566	3.136	3.2927
.250	.130	44.	3.504	3.374	3.645	3.215	3.3740
.250	.130	45.	3.584	3.454	3.725	3.295	3.4518
.250	.130	46.	3.663	3.533	3.805	3.375	3.5330
.250	.130	47.	3.743	3.613	3.885	3.455	3.6109
.250	.130	48.	3.822	3.692	3.964	3.534	3.6920
.250	.130	49.	3.902	3.772	4.044	3.614	3.7700
.250	.130	50.	3.981	3.851	4.124	3.694	3.8510
.250	.130	51.	4.061	3.931	4.203	3.773	3.9291
.250	.130	52.	4.141	4.011	4.283	3.853	4.0110
.250	.130	53.	4.220	4.090	4.363	3.933	4.0881
.250	.130	54.	4.300	4.170	4.442	4.012	4.1700
.250	.130	55.	4.379	4.249	4.522	4.092	4.2472
.250	.130	56.	4.459	4.329	4.602	4.172	4.3290
.250	.130	57.	4.538	4.408	4.681	4.251	4.4063
.250	.130	58.	4.618	4.488	4.761	4.331	4.4880
.250	.130	59.	4.697	4.567	4.841	4.411	4.5653
.250	.130	60.	4.777	4.647	4.920	4.490	4.6470
.250	.130	61.	4.856	4.726	5.000	4.570	4.7244

P	D	N	PD	BD	OD	MHD	CD
.250	.130	62.	4.936	4.806	5.080	4.650	4.8060
.250	.130	63.	5.015	4.885	5.159	4.729	4.8834
.250	.130	64.	5.095	4.965	5.239	4.809	4.9650
.250	.130	65.	5.175	5.045	5.319	4.889	5.0435
.250	.130	66.	5.254	5.124	5.398	4.968	5.1240
.250	.130	67.	5.334	5.204	5.478	5.048	5.2025
.250	.130	68.	5.413	5.283	5.557	5.127	5.2830
.250	.130	69.	5.493	5.363	5.637	5.207	5.3616
.250	.130	70.	5.572	5.442	5.717	5.287	5.4420
.250	.130	71.	5.652	5.522	5.796	5.366	5.5206
.250	.130	72.	5.731	5.601	5.876	5.446	5.6010
.250	.130	73.	5.811	5.681	5.956	5.526	5.6797
.250	.130	74.	5.891	5.761	6.035	5.605	5.7610
.250	.130	75.	5.970	5.840	6.115	5.685	5.8387
.250	.130	76.	6.050	5.920	6.194	5.764	5.9200
.250	.130	77.	6.129	5.999	6.274	5.844	5.9977
.250	.130	78.	6.209	6.079	6.354	5.924	6.0790
.250	.130	79.	6.288	6.158	6.433	6.003	6.1568
.250	.130	80.	6.368	6.238	6.513	6.083	6.2380
.250	.130	81.	6.447	6.317	6.593	6.163	6.3158
.250	.130	82.	6.527	6.397	6.672	6.242	6.3970
.250	.130	83.	6.607	6.477	6.752	6.322	6.4758
.250	.130	84.	6.686	6.556	6.831	6.401	6.5560
.250	.130	85.	6.766	6.636	6.911	6.481	6.6348
.250	.130	86.	6.845	6.715	6.991	6.561	6.7150
.250	.130	87.	6.925	6.795	7.070	6.640	6.7939
.250	.130	88.	7.004	6.874	7.150	6.720	6.8740
.250	.130	89.	7.084	6.954	7.229	6.799	6.9529
.250	.130	90.	7.163	7.033	7.309	6.879	7.0330
.250	.130	91.	7.243	7.113	7.389	6.959	7.1119
.250	.130	92.	7.323	7.193	7.468	7.038	7.1930
.250	.130	93.	7.402	7.272	7.548	7.118	7.2709
.250	.130	94.	7.482	7.352	7.627	7.197	7.3520
.250	.130	95.	7.561	7.431	7.707	7.277	7.4300
.250	.130	96.	7.641	7.511	7.787	7.357	7.5110
.250	.130	97.	7.720	7.590	7.866	7.436	7.5890
.250	.130	98.	7.800	7.670	7.946	7.516	7.6700
.250	.130	99.	7.879	7.749	8.026	7.596	7.7480
.250	.130	100.	7.959	7.829	8.105	7.675	7.8290
.250	.130	101.	8.039	7.909	8.185	7.755	7.9080
.250	.130	102.	8.118	7.988	8.264	7.834	7.9880
.250	.130	103.	8.198	8.068	8.344	7.914	8.0670
.250	.130	104.	8.277	8.147	8.424	7.994	8.1470
.250	.130	105.	8.357	8.227	8.503	8.073	8.2261
.250	.130	106.	8.436	8.306	8.583	8.153	8.3060
.250	.130	107.	8.516	8.386	8.662	8.232	8.3851
.250	.130	108.	8.596	8.466	8.742	8.312	8.4660
.250	.130	109.	8.675	8.545	8.822	8.392	8.5441
.250	.130	110.	8.755	8.625	8.901	8.471	8.6250
.250	.130	111.	8.834	8.704	8.981	8.551	8.7031
.250	.130	112.	8.914	8.784	9.060	8.630	8.7840
.250	.130	113.	8.993	8.863	9.140	8.710	8.8621
.250	.130	114.	9.073	8.943	9.220	8.790	8.9430
.250	.130	115.	9.153	9.023	9.299	8.869	9.0221
.250	.130	116.	9.232	9.102	9.379	8.949	9.1020

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TABLE VI CONTINUED

P	D	N	PD	BD	OD	MHD	CD
.250	.130	117.	9.312	9.182	9.458	9.038	9.1812
.250	.130	118.	9.391	9.261	9.538	9.108	9.2610
.250	.130	119.	9.471	9.341	9.618	9.188	9.3402
.250	.130	120.	9.550	9.420	9.697	9.267	9.4200
.250	.130	121.	9.630	9.500	9.777	9.347	9.4992
.250	.130	122.	9.710	9.580	9.856	9.426	9.5800
.250	.130	123.	9.789	9.659	9.936	9.506	9.6582
.250	.130	124.	9.869	9.739	10.015	9.585	9.7390
.250	.130	125.	9.948	9.818	10.095	9.665	9.8172
.250	.130	126.	10.028	9.898	10.175	9.745	9.8980
.250	.130	127.	10.107	9.977	10.254	9.824	9.9762
.250	.130	128.	10.187	10.057	10.334	9.904	10.0570
.250	.130	129.	10.267	10.137	10.413	9.983	10.1362
.250	.130	130.	10.346	10.216	10.493	10.063	10.2160
.250	.130	131.	10.426	10.296	10.573	10.143	10.2953
.250	.130	132.	10.505	10.375	10.652	10.223	10.3750
.250	.130	133.	10.585	10.455	10.732	10.302	10.4543
.250	.130	134.	10.664	10.534	10.811	10.381	10.5340
.250	.130	135.	10.744	10.614	10.891	10.461	10.6133
.250	.130	136.	10.823	10.693	10.971	10.541	10.6930
.250	.130	137.	10.903	10.773	11.050	10.620	10.7723
.250	.130	138.	10.983	10.853	11.130	10.700	10.8530
.250	.130	139.	11.062	10.932	11.209	10.779	10.9313
.250	.130	140.	11.142	11.012	11.289	10.859	11.0120
.250	.130	141.	11.221	11.091	11.369	10.939	11.0903
.250	.130	142.	11.301	11.171	11.448	11.018	11.1710
.250	.130	143.	11.380	11.250	11.528	11.098	11.2493
.250	.130	144.	11.460	11.330	11.607	11.177	11.3300
.250	.130	145.	11.540	11.410	11.687	11.257	11.4093
.250	.130	146.	11.619	11.489	11.767	11.337	11.4890
.250	.130	147.	11.699	11.569	11.846	11.416	11.5683
.250	.130	148.	11.778	11.648	11.926	11.496	11.6480
.250	.130	149.	11.858	11.728	12.005	11.575	11.7273
.250	.130	150.	11.937	11.807	12.085	11.655	11.8070
.375	.200	8.	.580	.780	1.130	.500	.7800
.375	.200	9.	1.096	.896	1.255	.625	.8963
.375	.200	10.	1.214	1.014	1.379	.749	1.0140
.375	.200	11.	1.331	1.131	1.502	.872	1.1175
.375	.200	12.	1.449	1.249	1.625	.995	1.2490
.375	.200	13.	1.567	1.367	1.746	1.116	1.3556
.375	.200	14.	1.685	1.485	1.868	1.238	1.4850
.375	.200	15.	1.804	1.604	1.989	1.359	1.5941
.375	.200	16.	1.922	1.722	2.110	1.480	1.7220
.375	.200	17.	2.041	1.841	2.231	1.601	1.8323
.375	.200	18.	2.160	1.960	2.352	1.722	1.9600
.375	.200	19.	2.278	2.078	2.472	1.842	2.0702
.375	.200	20.	2.397	2.197	2.593	1.963	2.1970
.375	.200	21.	2.516	2.316	2.713	2.083	2.3090
.375	.200	22.	2.635	2.435	2.833	2.203	2.4350
.375	.200	23.	2.754	2.554	2.953	2.323	2.5546
.375	.200	24.	2.873	2.673	3.073	2.443	2.6730
.375	.200	25.	2.992	2.792	3.193	2.563	2.7921
.375	.200	26.	3.111	2.911	3.313	2.683	2.9110
.375	.200	27.	3.230	3.030	3.433	2.803	3.0245
.375	.200	28.	3.349	3.149	3.553	2.923	3.1490
.375	.200	29.	3.468	3.268	3.673	3.043	3.2680
.375	.200	30.	3.587	3.387	3.793	3.163	3.3870
.375	.200	31.	3.706	3.506	3.913	3.283	3.5060
.375	.200	32.	3.825	3.625	4.033	3.403	3.6250
.375	.200	33.	3.944	3.744	4.153	3.523	3.7440
.375	.200	34.	4.063	3.863	4.273	3.643	3.8630
.375	.200	35.	4.182	3.982	4.393	3.763	3.9820
.375	.200	36.	4.301	4.101	4.513	3.883	4.1010
.375	.200	37.	4.420	4.220	4.633	4.003	4.2200
.375	.200	38.	4.539	4.339	4.753	4.123	4.3390
.375	.200	39.	4.658	4.458	4.873	4.243	4.4580
.375	.200	40.	4.777	4.577	4.993	4.363	4.5770
.375	.200	41.	4.896	4.696	5.113	4.483	4.6960
.375	.200	42.	5.015	4.815	5.233	4.603	4.8150
.375	.200	43.	5.134	4.934	5.353	4.723	4.9340
.375	.200	44.	5.253	5.053	5.473	4.843	5.0530
.375	.200	45.	5.372	5.172	5.593	4.963	5.1720
.375	.200	46.	5.491	5.291	5.713	5.083	5.2910
.375	.200	47.	5.610	5.410	5.833	5.203	5.4100
.375	.200	48.	5.729	5.529	5.953	5.323	5.5290
.375	.200	49.	5.848	5.648	6.073	5.443	5.6480
.375	.200	50.	5.967	5.767	6.193	5.563	5.7670
.375	.200	51.	6.086	5.886	6.313	5.683	5.8860
.375	.200	52.	6.205	6.005	6.433	5.803	6.0050
.375	.200	53.	6.324	6.124	6.553	5.923	6.1240
.375	.200	54.	6.443	6.243	6.673	6.043	6.2430
.375	.200	55.	6.562	6.362	6.793	6.163	6.3620
.375	.200	56.	6.681	6.481	6.913	6.283	6.4810
.375	.200	57.	6.800	6.600	7.033	6.403	6.6000
.375	.200	58.	6.919	6.719	7.153	6.523	6.7190
.375	.200	59.	7.038	6.838	7.273	6.643	6.8380
.375	.200	60.	7.157	6.957	7.393	6.763	6.9570
.375	.200	61.	7.276	7.076	7.513	6.883	7.0760
.375	.200	62.	7.395	7.195	7.633	7.003	7.1950
.375	.200	63.	7.514	7.314	7.753	7.123	7.3140
.375	.200	64.	7.633	7.433	7.873	7.243	7.4330
.375	.200	65.	7.752	7.552	7.993	7.363	7.5520
.375	.200	66.	7.871	7.671	8.113	7.483	7.6710
.375	.200	67.	7.990	7.790	8.233	7.603	7.7900
.375	.200	68.	8.109	7.909	8.353	7.723	7.9090
.375	.200	69.	8.228	8.028	8.473	7.843	8.0280
.375	.200	70.	8.347	8.147	8.593	7.963	8.1470
.375	.200	71.	8.466	8.266	8.713	8.083	8.2660
.375	.200	72.	8.585	8.385	8.833	8.203	8.3850
.375	.200	73.	8.704	8.504	8.953	8.323	8.5040
.375	.200	74.	8.823	8.623	9.073	8.443	8.6230
.375	.200	75.	8.942	8.742	9.193	8.563	8.7420
.375	.200	76.	9.061	8.861	9.313	8.683	8.8610
.375	.200	77.	9.180	8.980	9.433	8.803	8.9800
.375	.200	78.	9.299	9.099	9.553	8.923	9.0990
.375	.200	79.	9.418	9.218	9.673	9.043	9.2180
.375	.200	80.	9.537	9.337	9.793	9.163	9.3370
.375	.200	81.	9.656	9.456	9.913	9.283	9.4560
.375	.200	82.	9.775	9.575	10.033	9.403	9.5750
.375	.200	83.	9.894	9.694	10.153	9.523	9.6940
.375	.200	84.	10.013	9.813	10.273	9.643	9.8130
.375	.200	85.	10.132	9.932	10.393	9.763	9.9320
.375	.200	86.	10.251	10.051	10.513	9.883	10.0510
.375	.200	87.	10.370	10.170	10.633	10.003	10.1700
.375	.200	88.	10.489	10.289	10.753	10.123	10.2890
.375	.200	89.	10.608	10.408	10.873	10.243	10.4080
.375	.200	90.	10.727	10.527	10.993	10.363	10.5270
.375	.200	91.	10.846	10.646	11.113	10.483	10.6460
.375	.200	92.	10.965	10.765	11.233	10.603	10.7650
.375	.200	93.	11.084	10.884	11.353	10.723	10.8840
.375	.200	94.	11.203	11.003	11.473	10.843	11.0030
.375	.200	95.	11.322	11.122	11.593	10.963	11.1220
.375	.200	96.	11.441	11.241	11.713	11.083	11.2410
.375	.200	97.	11.560	11.360	11.833	11.203	11.3600
.375	.200	98.	11.679	11.479	11.953	11.323	11.4790
.375	.200	99.	11.798	11.598	12.073	11.443	11.5980
.375	.200	100.	11.917	11.717	12.193	11.563	11.7170
.375	.200	101.	12.036	11.836	12.313	11.683	11.8360
.375	.200	102.	12.155	11.955	12.433	11.803	11.9550
.375	.200	103.	12.274	12.074	12.553	11.923	12.0740
.375	.200	104.	12.393	12.193	12.673	12.043	12.1930
.375	.200	105.	12.512	12.312	12.793	12.163	12.3120
.375	.200	106.	12.631	12.431	12.913	12.283	12.4310
.375	.200	107.	12.750	12.550	13.033	12.403	12.5500
.375	.200	108.	12.869	12.669	13.153	12.523	12.6690
.375	.200	109.	12.988	12.788	13.273	12.643	12.7880
.375	.200	110.	13.107	12.907	13.393	12.763	12.9070
.375	.200	111.	13.226	13.026	13.513	12.883	13.0260
.375	.200	112.	13.345	13.145	13.633	13.003	13.1450
.375	.200	113.	13.464	13.264	13.753	13.123	13.2640
.375	.200	114.	13.583	13.383	13.873	13.243	13.3830
.375	.200	115.	13.702	13.502	13.993	13.363	13.5020
.375	.200	116.	13.821	13.621	14.113	13.483	13.6210
.375	.200	117.	13.940	13.740	14.233	13.603	13.7400
.375	.200	118.	14.059	13.859	14.353	13.723	13.8590
.375	.200	119.	14.178	13.978	14.473	13.843	13.9780
.375	.200	120.	14.297	14.097	14.593	13.963	14.0970
.375	.200	121.	14.416	14.216	14.713	14.083	14.2160
.375	.200	122.	14.535	14.335	14.833	14.203	14.3350
.375	.200	123.	14.654	14.454	14.953	14.323	

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P	D	N	PD	BD	OD	MHD	CD
.375	.200	84	10.029	9.829	10.247	9.617	9.8290
.375	.200	85	10.148	9.948	10.367	9.737	9.9483
.375	.200	86	10.268	10.068	10.486	9.856	10.0680
.375	.200	87	10.387	10.187	10.605	9.975	10.1873
.375	.200	88	10.506	10.306	10.725	10.095	10.3060
.375	.200	89	10.626	10.426	10.844	10.214	10.4263
.375	.200	90	10.745	10.545	10.964	10.334	10.5450
.375	.200	91	10.864	10.664	11.083	10.453	10.6643
.375	.200	92	10.984	10.784	11.202	10.572	10.7840
.375	.200	93	11.103	10.903	11.322	10.692	10.9030
.375	.200	94	11.223	11.023	11.441	10.811	11.0230
.375	.200	95	11.342	11.142	11.561	10.931	11.1420
.375	.200	96	11.461	11.261	11.680	11.050	11.2610
.375	.200	97	11.581	11.381	11.799	11.169	11.3795
.375	.200	98	11.700	11.500	11.919	11.289	11.5000
.375	.200	99	11.819	11.619	12.038	11.408	11.6175
.375	.200	100	11.939	11.739	12.158	11.528	11.7390
.375	.200	101	12.058	11.858	12.277	11.647	11.8565
.375	.200	102	12.177	11.977	12.397	11.767	11.9775
.375	.200	103	12.297	12.097	12.516	11.886	12.0956
.375	.200	104	12.416	12.216	12.635	12.005	12.2160
.375	.200	105	12.535	12.335	12.755	12.125	12.3336
.375	.200	106	12.655	12.455	12.874	12.244	12.4550
.375	.200	107	12.774	12.574	12.994	12.364	12.5726
.375	.200	108	12.893	12.693	13.113	12.483	12.6930
.375	.200	109	13.013	12.813	13.232	12.602	12.8116
.375	.200	110	13.132	12.932	13.352	12.722	12.9320
.375	.200	111	13.251	13.051	13.471	12.841	13.0527
.375	.200	112	13.371	13.171	13.591	12.961	13.1710
.375	.200	113	13.490	13.290	13.710	13.080	13.2887
.375	.200	114	13.609	13.409	13.829	13.199	13.4090
.375	.200	115	13.729	13.529	13.949	13.319	13.5277
.375	.200	116	13.848	13.648	14.068	13.438	13.6480
.375	.200	117	13.968	13.768	14.187	13.557	13.7667
.375	.200	118	14.087	13.887	14.307	13.677	13.8870
.375	.200	119	14.206	14.006	14.426	13.796	14.0048
.375	.200	120	14.326	14.126	14.546	13.916	14.1260
.375	.200	121	14.445	14.245	14.665	14.035	14.2438
.375	.200	122	14.564	14.364	14.784	14.154	14.3640
.375	.200	123	14.684	14.484	14.904	14.274	14.4828
.375	.200	124	14.803	14.603	15.023	14.393	14.6030
.375	.200	125	14.922	14.722	15.143	14.513	14.7208
.375	.200	126	15.042	14.842	15.262	14.632	14.8420
.375	.200	127	15.161	14.961	15.381	14.751	14.9598
.375	.200	128	15.280	15.080	15.501	14.871	15.0800
.375	.200	129	15.400	15.200	15.620	14.990	15.1989
.375	.200	130	15.519	15.319	15.740	15.110	15.3190
.375	.200	131	15.638	15.438	15.859	15.229	15.4369
.375	.200	132	15.758	15.558	15.978	15.348	15.5580
.375	.200	133	15.877	15.677	16.098	15.468	15.6759
.375	.200	134	15.997	15.797	16.217	15.587	15.7970
.375	.200	135	16.116	15.916	16.337	15.707	15.9149
.375	.200	136	16.235	16.035	16.456	15.826	16.0350
.375	.200	137	16.355	16.155	16.575	15.945	16.1539
.375	.200	138	16.474	16.274	16.695	16.065	16.2740
.375	.200	139	16.593	16.393	16.814	16.184	16.3919
.375	.200	140	16.713	16.513	16.933	16.303	16.5130
.375	.200	141	16.832	16.632	17.053	16.423	16.6310
.375	.200	142	16.951	16.751	17.172	16.542	16.7510
.375	.200	143	17.071	16.871	17.292	16.662	16.8700
.375	.200	144	17.190	16.990	17.411	16.781	16.9900
.375	.200	145	17.309	17.109	17.530	16.901	17.1080
.375	.200	146	17.429	17.229	17.650	17.020	17.2290
.375	.200	147	17.548	17.348	17.769	17.139	17.3470
.375	.200	148	17.668	17.468	17.889	17.259	17.4680
.375	.200	149	17.787	17.587	18.008	17.378	17.5860
.375	.200	150	17.906	17.706	18.127	17.497	17.7060
.500	.312	8	1.307	1.507	1.507	.877	.9950
.500	.312	9	1.462	1.150	1.674	.844	1.1278
.500	.312	10	1.618	1.306	1.839	1.009	1.3060
.500	.312	11	1.775	1.463	2.003	1.173	1.4449
.500	.312	12	1.932	1.620	2.166	1.336	1.6200
.500	.312	13	2.089	1.777	2.329	1.499	1.7618
.500	.312	14	2.247	1.935	2.491	1.661	1.9350
.500	.312	15	2.405	2.093	2.652	1.822	2.0798
.500	.312	16	2.563	2.251	2.814	1.984	2.2510
.500	.312	17	2.721	2.409	2.975	2.145	2.3974
.500	.312	18	2.879	2.567	3.136	2.306	2.5670
.500	.312	19	3.038	2.726	3.296	2.466	2.7156
.500	.312	20	3.196	2.884	3.457	2.627	2.8843
.500	.312	21	3.355	3.043	3.617	2.787	3.0336
.500	.312	22	3.513	3.201	3.778	2.948	3.2010
.500	.312	23	3.672	3.360	3.938	3.108	3.3514
.500	.312	24	3.831	3.519	4.098	3.268	3.5190
.500	.312	25	3.989	3.677	4.258	3.428	3.6691
.500	.312	26	4.148	3.836	4.418	3.588	3.8360
.500	.312	27	4.307	3.995	4.578	3.748	3.9877
.500	.312	28	4.466	4.154	4.738	3.908	4.1540
.500	.312	29	4.625	4.313	4.897	4.067	4.3062
.500	.312	30	4.783	4.471	5.057	4.227	4.4710
.500	.312	31	4.942	4.630	5.217	4.387	4.6237
.500	.312	32	5.101	4.789	5.377	4.547	4.7890
.500	.312	33	5.260	4.948	5.536	4.706	4.9420
.500	.312	34	5.419	5.107	5.696	4.866	5.1070
.500	.312	35	5.578	5.266	5.855	5.025	5.2604
.500	.312	36	5.737	5.425	6.015	5.185	5.4250
.500	.312	37	5.896	5.584	6.175	5.345	5.5787
.500	.312	38	6.055	5.743	6.334	5.504	5.7430
.500	.312	39	6.214	5.902	6.494	5.664	5.8970
.500	.312	40	6.373	6.061	6.653	5.823	6.0610
.500	.312	41	6.532	6.220	6.813	5.983	6.2152
.500	.312	42	6.691	6.379	6.972	6.142	6.3790
.500	.312	43	6.850	6.538	7.131	6.301	6.5334
.500	.312	44	7.009	6.697	7.291	6.461	6.6970
.500	.312	45	7.168	6.856	7.450	6.620	6.8516
.500	.312	46	7.327	7.015	7.610	6.780	7.0150
.500	.312	47	7.486	7.174	7.769	6.939	7.1698
.500	.312	48	7.645	7.333	7.929	7.099	7.3330
.500	.312	49	7.804	7.492	8.088	7.258	7.4880
.500	.312	50	7.963	7.651	8.247	7.417	7.6510

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P	D	N	PD	BD	OD	MHD	CD
.500	.312	51.	8.122	7.810	8.407	7.577	7.8061
.500	.312	52.	8.281	7.969	8.566	7.736	7.9690
.500	.312	53.	8.440	8.128	8.725	7.895	8.1283
.500	.312	54.	8.599	8.287	8.885	8.055	8.2870
.500	.312	55.	8.758	8.446	9.044	8.214	8.4424
.500	.312	56.	8.917	8.605	9.203	8.373	8.6050
.500	.312	57.	9.076	8.764	9.363	8.533	8.7606
.500	.312	58.	9.236	8.924	9.522	8.692	8.9243
.500	.312	59.	9.395	9.083	9.681	8.851	9.0797
.500	.312	60.	9.554	9.242	9.841	9.011	9.2420
.500	.312	61.	9.713	9.401	10.000	9.170	9.3978
.500	.312	62.	9.872	9.560	10.159	9.329	9.5600
.500	.312	63.	10.031	9.719	10.318	9.488	9.7199
.500	.312	64.	10.190	9.878	10.478	9.648	9.8789
.500	.312	65.	10.349	10.037	10.637	9.807	10.0340
.500	.312	66.	10.508	10.196	10.796	9.966	10.1960
.500	.312	67.	10.667	10.355	10.956	10.126	10.3521
.500	.312	68.	10.826	10.514	11.115	10.285	10.5140
.500	.312	69.	10.985	10.673	11.274	10.444	10.6702
.500	.312	70.	11.145	10.833	11.433	10.603	10.8330
.500	.312	71.	11.304	10.992	11.593	10.763	10.9920
.500	.312	72.	11.463	11.151	11.752	10.922	11.1510
.500	.312	73.	11.622	11.310	11.911	11.081	11.3073
.500	.312	74.	11.781	11.469	12.070	11.240	11.4690
.500	.312	75.	11.940	11.628	12.230	11.400	11.6284
.500	.312	76.	12.099	11.787	12.389	11.559	11.7875
.500	.312	77.	12.258	11.946	12.548	11.718	11.9464
.500	.312	78.	12.417	12.105	12.707	11.877	12.1050
.500	.312	79.	12.577	12.265	12.867	12.037	12.2625
.500	.312	80.	12.736	12.424	13.026	12.196	12.4243
.500	.312	81.	12.895	12.583	13.185	12.355	12.5806
.500	.312	82.	13.054	12.742	13.344	12.514	12.7420
.500	.312	83.	13.213	12.901	13.504	12.674	12.8986
.500	.312	84.	13.372	13.060	13.663	12.833	13.0600
.500	.312	85.	13.531	13.219	13.822	12.992	13.2167
.500	.312	86.	13.690	13.378	13.981	13.151	13.3780
.500	.312	87.	13.849	13.537	14.140	13.310	13.5347
.500	.312	88.	14.009	13.697	14.300	13.470	13.6972
.500	.312	89.	14.168	13.856	14.459	13.629	13.8558
.500	.312	90.	14.327	14.015	14.618	13.788	14.0150
.500	.312	91.	14.486	14.174	14.777	13.947	14.1718
.500	.312	92.	14.645	14.333	14.937	14.107	14.3330
.500	.312	93.	14.804	14.492	15.096	14.266	14.4899
.500	.312	94.	14.963	14.651	15.255	14.425	14.6510
.500	.312	95.	15.122	14.810	15.414	14.584	14.8079
.500	.312	96.	15.282	14.970	15.573	14.743	14.9700
.500	.312	97.	15.441	15.129	15.733	14.903	15.1290
.500	.312	98.	15.600	15.288	15.892	15.062	15.2880
.500	.312	99.	15.759	15.447	16.051	15.221	15.4450
.500	.312	100.	15.918	15.606	16.210	15.380	15.6060
.500	.312	101.	16.077	15.765	16.369	15.539	15.7651
.500	.312	102.	16.236	15.924	16.528	15.699	15.9240
.500	.312	103.	16.396	16.084	16.688	15.858	16.0821
.500	.312	104.	16.555	16.243	16.847	16.017	16.2430
.500	.312	105.	16.714	16.402	17.006	16.176	16.4001
.500	.312	106.	16.873	16.561	17.165	16.335	16.5610
.500	.312	107.	17.032	16.720	17.324	16.494	16.7200
.500	.312	108.	17.191	16.879	17.483	16.653	16.8790
.500	.312	109.	17.350	17.038	17.642	16.812	17.0380
.500	.312	110.	17.509	17.197	17.801	16.971	17.1970
.500	.312	111.	17.668	17.356	17.960	17.130	17.3560
.500	.312	112.	17.827	17.515	18.119	17.289	17.5150
.500	.312	113.	17.986	17.674	18.278	17.448	17.6740
.500	.312	114.	18.145	17.833	18.437	17.607	17.8330
.500	.312	115.	18.304	17.992	18.596	17.766	17.9920
.500	.312	116.	18.463	18.151	18.755	17.925	18.1510
.500	.312	117.	18.622	18.310	18.914	18.084	18.3100
.500	.312	118.	18.781	18.469	19.073	18.243	18.4690
.500	.312	119.	18.940	18.628	19.232	18.402	18.6280
.500	.312	120.	19.099	18.787	19.391	18.561	18.7870
.500	.312	121.	19.258	18.946	19.550	18.720	18.9460
.500	.312	122.	19.417	19.105	19.709	18.879	19.1050
.500	.312	123.	19.576	19.264	19.868	19.038	19.2640
.500	.312	124.	19.735	19.423	20.027	19.197	19.4230
.500	.312	125.	19.894	19.582	20.186	19.356	19.5820
.500	.312	126.	20.053	19.741	20.345	19.515	19.7410
.500	.312	127.	20.212	19.900	20.504	19.674	19.9000
.500	.312	128.	20.371	20.059	20.663	19.833	20.0590
.500	.312	129.	20.530	20.218	20.822	19.992	20.2180
.500	.312	130.	20.689	20.377	20.981	20.151	20.3770
.500	.312	131.	20.848	20.536	21.140	20.310	20.5360
.500	.312	132.	21.007	20.695	21.299	20.469	20.6950
.500	.312	133.	21.166	20.854	21.458	20.628	20.8540
.500	.312	134.	21.325	21.013	21.617	20.787	21.0130
.500	.312	135.	21.484	21.172	21.776	20.946	21.1720
.500	.312	136.	21.643	21.331	21.935	21.105	21.3310
.500	.312	137.	21.802	21.490	22.094	21.264	21.4900
.500	.312	138.	21.961	21.649	22.253	21.423	21.6490
.500	.312	139.	22.120	21.808	22.412	21.582	21.8080
.500	.312	140.	22.279	21.967	22.571	21.741	21.9670
.500	.312	141.	22.438	22.126	22.730	21.900	22.1260
.500	.312	142.	22.597	22.285	22.889	22.059	22.2850
.500	.312	143.	22.756	22.444	23.048	22.218	22.4440
.500	.312	144.	22.915	22.603	23.207	22.377	22.6030
.500	.312	145.	23.074	22.762	23.366	22.536	22.7620
.500	.312	146.	23.233	22.921	23.525	22.695	22.9210
.500	.312	147.	23.392	23.080	23.684	22.854	23.0800
.500	.312	148.	23.551	23.239	23.843	23.013	23.2390
.500	.312	149.	23.710	23.398	24.002	23.172	23.3980
.500	.312	150.	23.869	23.557	24.161	23.331	23.5570
.500	.312	151.	24.028	23.716	24.320	23.490	23.7160
.500	.312	152.	24.187	23.875	24.479	23.649	23.8750
.500	.312	153.	24.346	24.034	24.638	23.808	24.0340
.500	.312	154.	24.505	24.193	24.797	23.967	24.1930
.500	.312	155.	24.664	24.352	24.956	24.126	24.3520
.500	.312	156.	24.823	24.511	25.115	24.285	24.5110
.500	.312	157.	24.982	24.670	25.274	24.444	24.6700
.500	.312	158.	25.141	24.829	25.433	24.603	24.8290
.500	.312	159.	25.300	24.988	25.592	24.762	24.9880
.500	.312	160.	25.459	25.147	25.751	24.921	25.1470
.500	.312	161.	25.618	25.306	25.910	25.080	25.3060
.500	.312	162.	25.777	25.465	26.069	25.239	25.4650
.500	.312	163.	25.936	25.624	26.228	25.398	25.6240
.500	.312	164.	26.095	25.783	26.387	25.557	25.7830
.500	.312	165.	26.254	25.942	26.546	25.716	25.9420
.500	.312	166.	26.413	26.101	26.705	25.875	26.1010
.500	.312	167.	26.572	26.260	26.864	26.034	26.2600
.500	.312	168.	26.731	26.419	27.023	26.193	26.4190
.500	.312	169.	26.890	26.578	27.182	26.352	26.5780
.500	.312	170.	27.049	26.737	27.341	26.511	26.7370
.500	.312	171.	27.208	26.896	27.500	26.670	26.8960
.500	.312	172.	27.367	27.055	27.659	26.829	27.0550
.500	.312	173.	27.526	27.214	27.818	26.988	27.2140
.500	.312	174.	27.685	27.373	27.977	27.147	27.3730
.500	.312	175.	27.844	27.532	28.136	27.306	27.5320
.500	.312	176.	28.003	27.691	28.295	27.465	27.6910
.500	.312	177.	28.162	27.850	28.454	27.624	27.8500
.500	.312	178.	28.321	28.009	28.613	27.783	28.0090
.500	.312	179.	28.480	28.168	28.772	27.942	28.1680
.500	.312	180.	28.639	28.327	28.931	28.101	28.3270
.500	.312	181.	28.798	28.486	29.090	28.260	28.4860
.500	.312	182.	28.957	28.645	29.249	28.419	28.6450
.500	.312	183.	29.116	28.804	29.408	28.578	28.8040
.500	.312	184.	29.275	28.963	29.567	28.737	28.9630
.500	.312	185.	29.434	29.122	29.726	28.896	29.1220
.500	.312	186.	29.593	29.281	29.885	29.055	29.2810
.500	.312	187.	29.752	29.440	30.044	29.214	29.4400
.500	.312	188.	29.911	29.599	30.203	29.373	29.5990
.500	.312	189.	30.070	29.758	30.362	29.532	29.7580
.500	.312	190.	30.229	29.917	30.521	29.691	29.9170
.500	.312	191.	30.388	30.076	30.680	29.850	30.0760
.500	.312	192.	30.547	30.235	30.839	30.009	30.2350
.500	.312	193.	30.706	30.394	30.998	30.168	30.3940
.500	.312	194.	30.865	30.553	31.157	30.327	30.5530
.500	.312	195.	31.024	30.712	31.3		



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P	D	N	PD	OD	MHD	CD
.625	400	18	3.599	3.195	2.890	3.1950
.625	400	19	3.797	3.397	3.090	3.3940
.625	400	20	3.995	3.595	3.291	3.5930
.625	400	21	4.193	3.793	3.492	3.7913
.625	400	22	4.392	3.992	3.692	3.9920
.625	400	23	4.590	4.190	3.892	4.1793
.625	400	24	4.788	4.388	4.092	4.3880
.625	400	25	4.987	4.587	4.292	4.5772
.625	400	26	5.185	4.785	4.492	4.7850
.625	400	27	5.384	4.984	4.692	4.9749
.625	400	28	5.582	5.182	4.892	5.1820
.625	400	29	5.781	5.381	5.092	5.3725
.625	400	30	5.979	5.579	5.291	5.5790
.625	400	31	6.178	5.778	5.491	5.7790
.625	400	32	6.376	5.976	5.691	5.9760
.625	400	33	6.575	6.175	5.890	6.1676
.625	400	34	6.774	6.374	6.090	6.3740
.625	400	35	6.972	6.572	6.289	6.5650
.625	400	36	7.171	6.771	6.489	6.7710
.625	400	37	7.370	6.970	6.688	6.9634
.625	400	38	7.568	7.168	6.888	7.1680
.625	400	39	7.767	7.367	7.087	7.3680
.625	400	40	7.966	7.566	7.286	7.5660
.625	400	41	8.165	7.765	7.486	7.7590
.625	400	42	8.363	7.963	7.685	7.9530
.625	400	43	8.562	8.162	7.884	8.1563
.625	400	44	8.761	8.361	8.083	8.3610
.625	400	45	8.960	8.560	8.283	8.5645
.625	400	46	9.159	8.759	8.482	8.7590
.625	400	47	9.357	8.957	8.681	8.9518
.625	400	48	9.556	9.156	8.881	9.1560
.625	400	49	9.755	9.355	9.080	9.3500
.625	400	50	9.954	9.554	9.279	9.5540
.625	400	51	10.153	9.753	9.478	9.7482
.625	400	52	10.351	9.951	9.677	9.9510
.625	400	53	10.550	10.150	9.877	10.1554
.625	400	54	10.749	10.349	10.076	10.3490
.625	400	55	10.948	10.548	10.275	10.5435
.625	400	56	11.147	10.747	10.474	10.7470
.625	400	57	11.346	10.946	10.673	10.9417
.625	400	58	11.544	11.144	10.872	11.1440
.625	400	59	11.743	11.343	11.072	11.3388
.625	400	60	11.942	11.542	11.271	11.5420
.625	400	61	12.141	11.741	11.470	11.7370
.625	400	62	12.340	11.940	11.669	11.9400
.625	400	63	12.539	12.139	11.868	12.1351
.625	400	64	12.738	12.338	12.067	12.3380
.625	400	65	12.936	12.536	12.266	12.5322
.625	400	66	13.135	12.735	12.465	12.7350
.625	400	67	13.334	12.934	12.664	12.9303
.625	400	68	13.533	13.133	12.863	13.1330
.625	400	69	13.732	13.332	13.062	13.3284
.625	400	70	13.931	13.531	13.262	13.5310
.625	400	71	14.130	13.730	13.461	13.7265
.625	400	72	14.328	13.928	13.660	13.9280

P	D	N	PD	OD	MHD	CD
.625	400	73	14.527	14.127	14.869	14.1236
.625	400	74	14.726	14.326	15.068	14.3260
.625	400	75	14.925	14.525	15.267	14.5217
.625	400	76	15.124	14.724	15.466	14.7240
.625	400	77	15.323	14.923	15.665	14.9196
.625	400	78	15.522	15.122	15.864	15.1220
.625	400	79	15.721	15.321	16.063	15.3179
.625	400	80	15.920	15.520	16.262	15.5200
.625	400	81	16.118	15.718	16.461	15.7150
.625	400	82	16.317	15.917	16.660	15.9170
.625	400	83	16.516	16.116	16.859	16.1130
.625	400	84	16.715	16.315	17.058	16.3150
.625	400	85	16.914	16.514	17.257	16.5111
.625	400	86	17.113	16.713	17.456	16.7130
.625	400	87	17.312	16.912	17.655	16.9092
.625	400	88	17.511	17.111	17.854	17.1110
.625	400	89	17.710	17.310	18.053	17.3072
.625	400	90	17.909	17.509	18.252	17.5090
.625	400	91	18.107	17.707	18.451	17.7043
.625	400	92	18.306	17.906	18.650	17.9060
.625	400	93	18.505	18.105	18.849	18.1024
.625	400	94	18.704	18.304	19.048	18.3040
.625	400	95	18.903	18.503	19.247	18.5004
.625	400	96	19.102	18.702	19.446	18.7020
.625	400	97	19.301	18.901	19.645	18.8985
.625	400	98	19.500	19.100	19.844	19.1000
.625	400	99	19.699	19.299	20.043	19.2965
.625	400	100	19.898	19.498	20.242	19.4980
.625	400	101	20.097	19.697	20.441	19.6946
.625	400	102	20.295	19.895	20.640	19.8931
.625	400	103	20.494	20.094	20.839	20.0916
.625	400	104	20.693	20.293	21.038	20.2930
.625	400	105	20.892	20.492	21.237	20.4897
.625	400	106	21.091	20.691	21.436	20.6910
.625	400	107	21.290	20.890	21.635	20.8877
.625	400	108	21.489	21.089	21.834	21.0890
.625	400	109	21.688	21.288	22.033	21.2857
.625	400	110	21.887	21.487	22.232	21.4870
.625	400	111	22.086	21.686	22.431	21.6838
.625	400	112	22.285	21.885	22.630	21.8850
.625	400	113	22.484	22.084	22.829	22.0818
.625	400	114	22.683	22.283	23.028	22.2820
.625	400	115	22.882	22.482	23.227	22.4789
.625	400	116	23.081	22.681	23.426	22.6800
.625	400	117	23.279	22.879	23.625	22.8769
.625	400	118	23.478	23.078	23.824	23.0780
.625	400	119	23.677	23.277	24.023	23.2749
.625	400	120	23.876	23.476	24.222	23.4760
.625	400	121	24.075	23.675	24.421	23.6730
.625	400	122	24.274	23.874	24.620	23.8740
.625	400	123	24.473	24.073	24.819	24.0710
.625	400	124	24.672	24.272	25.018	24.2720
.625	400	125	24.871	24.471	25.217	24.4700
.625	400	126	25.070	24.670	25.416	24.6700
.625	400	127	25.269	24.869	25.615	24.8661

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P	D	N	PD	BD	OD	MHD	CD
.625	.400	128.	25.467	25.567	25.835	24.805	25.0670
.625	.400	129.	25.466	25.566	25.834	25.004	25.2641
.625	.400	130.	25.465	25.565	25.833	25.1203	25.4650
.625	.400	131.	26.064	25.664	26.432	25.402	25.6621
.625	.400	132.	26.263	25.863	26.631	25.601	25.8630
.625	.400	133.	26.462	26.062	26.830	25.800	26.0620
.625	.400	134.	26.661	26.261	27.029	25.999	26.2610
.625	.400	135.	26.860	26.460	27.228	26.198	26.4682
.625	.400	136.	27.059	26.659	27.427	26.397	26.6590
.625	.400	137.	27.258	26.858	27.626	26.596	26.8562
.625	.400	138.	27.457	27.057	27.824	26.794	27.0570
.625	.400	139.	27.656	27.256	28.023	26.993	27.2562
.625	.400	140.	27.854	27.454	28.222	27.192	27.4540
.625	.400	141.	28.053	27.653	28.421	27.391	27.6513
.625	.400	142.	28.252	27.852	28.620	27.590	27.8520
.625	.400	143.	28.451	28.051	28.819	27.789	28.0493
.625	.400	144.	28.650	28.250	29.018	27.988	28.2500
.625	.400	145.	28.849	28.449	29.217	28.187	28.4473
.625	.400	146.	29.048	28.648	29.416	28.386	28.6480
.625	.400	147.	29.247	28.847	29.615	28.585	28.8453
.625	.400	148.	29.446	29.046	29.814	28.784	29.0460
.625	.400	149.	29.645	29.245	30.013	28.983	29.2434
.625	.400	150.	29.844	29.444	30.212	29.182	29.4440
.750	.469	8.	1.960	1.961	2.261	1.031	1.4910
.750	.469	9.	2.193	1.724	2.511	1.281	1.6907
.750	.469	10.	2.427	1.958	2.758	1.528	1.9580
.750	.469	11.	2.662	2.193	3.004	1.774	2.1659
.750	.469	12.	2.898	2.429	3.249	2.019	2.4290
.750	.469	13.	3.134	2.665	3.493	2.265	2.6621
.750	.469	14.	3.370	2.901	3.736	2.506	2.9010
.750	.469	15.	3.607	3.138	3.978	2.748	3.1182
.750	.469	16.	3.844	3.375	4.220	2.990	3.3750
.750	.469	17.	4.082	3.613	4.462	3.232	3.5956
.750	.469	18.	4.319	3.850	4.703	3.473	3.8500
.750	.469	19.	4.557	4.088	4.945	3.715	4.0724
.750	.469	20.	4.794	4.325	5.185	3.955	4.3250
.750	.469	21.	5.032	4.563	5.426	4.196	4.5489
.750	.469	22.	5.270	4.801	5.666	4.436	4.8010
.750	.469	23.	5.508	5.039	5.907	4.677	5.0262
.750	.469	24.	5.746	5.277	6.147	4.917	5.2770
.750	.469	25.	5.984	5.515	6.387	5.157	5.5032
.750	.469	26.	6.222	5.753	6.627	5.397	5.7530
.750	.469	27.	6.460	5.991	6.867	5.637	5.9801
.750	.469	28.	6.699	6.229	7.106	5.876	6.2300
.750	.469	29.	6.937	6.468	7.346	6.116	6.4578
.750	.469	30.	7.175	6.706	7.586	6.356	6.7060
.750	.469	31.	7.413	6.944	7.825	6.595	6.9445
.750	.469	32.	7.652	7.183	8.065	6.835	7.1830
.750	.469	33.	7.890	7.421	8.304	7.074	7.4121
.750	.469	34.	8.128	7.659	8.544	7.314	7.6590
.750	.469	35.	8.367	7.898	8.783	7.553	7.8896
.750	.469	36.	8.605	8.136	9.023	7.793	8.1360
.750	.469	37.	8.844	8.375	9.262	8.032	8.3670
.750	.469	38.	9.082	8.613	9.501	8.271	8.6130
.750	.469	39.	9.321	8.852	9.740	8.510	8.8444

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P	D	N	PD	BD	OD	MHD	CD
.750	.469	95.	22.684	22.215	23.121	21.891	22.2119
.750	.469	96.	22.922	22.453	23.360	22.130	22.4530
.750	.469	97.	23.161	22.692	23.599	22.369	22.6890
.750	.469	98.	23.400	22.931	23.838	22.608	22.9310
.750	.469	99.	23.638	23.169	24.077	22.847	23.1660
.750	.469	100.	23.877	23.408	24.315	23.085	23.4080
.750	.469	101.	24.116	23.647	24.554	23.324	23.6441
.750	.469	102.	24.355	23.886	24.793	23.563	23.8860
.750	.469	103.	24.593	24.124	25.032	23.802	24.1211
.750	.469	104.	24.832	24.363	25.271	24.041	24.3630
.750	.469	105.	25.071	24.602	25.509	24.279	24.5992
.750	.469	106.	25.309	24.840	25.748	24.518	24.8400
.750	.469	107.	25.548	25.079	25.987	24.757	25.0762
.750	.469	108.	25.787	25.318	26.226	24.996	25.3180
.750	.469	109.	26.025	25.556	26.465	25.235	25.5533
.750	.469	110.	26.264	25.795	26.703	25.473	25.7950
.750	.469	111.	26.503	26.034	26.942	25.712	26.0313
.750	.469	112.	26.742	26.273	27.181	25.951	26.2730
.750	.469	113.	26.980	26.511	27.420	26.190	26.5084
.750	.469	114.	27.219	26.750	27.659	26.429	26.7500
.750	.469	115.	27.458	26.989	27.897	26.667	26.9864
.750	.469	116.	27.696	27.227	28.136	26.906	27.2270
.750	.469	117.	27.935	27.466	28.375	27.145	27.4635
.750	.469	118.	28.174	27.705	28.614	27.384	27.7050
.750	.469	119.	28.412	27.943	28.853	27.623	27.9405
.750	.469	120.	28.651	28.182	29.091	27.861	28.1820
.750	.469	121.	28.890	28.421	29.330	28.100	28.4186
.750	.469	122.	29.129	28.660	29.569	28.339	28.6600
.750	.469	123.	29.367	28.898	29.808	28.578	28.8956
.750	.469	124.	29.606	29.137	30.046	28.816	29.1370
.750	.469	125.	29.845	29.376	30.285	29.055	29.3736
.750	.469	126.	30.083	29.614	30.524	29.294	29.6140
.750	.469	127.	30.322	29.853	30.763	29.533	29.8507
.750	.469	128.	30.561	30.092	31.002	29.772	30.0920
.750	.469	129.	30.800	30.331	31.240	30.010	30.3287
.750	.469	130.	31.038	30.569	31.479	30.249	30.5690
.750	.469	131.	31.277	30.808	31.718	30.488	30.8058
.750	.469	132.	31.516	31.047	31.957	30.727	31.0470
.750	.469	133.	31.754	31.285	32.196	30.966	31.2828
.750	.469	134.	31.993	31.524	32.434	31.204	31.5240
.750	.469	135.	32.232	31.763	32.673	31.443	31.7608
.750	.469	136.	32.470	32.001	32.912	31.682	32.0010
.750	.469	137.	32.709	32.240	33.151	31.921	32.2379
.750	.469	138.	32.948	32.479	33.389	32.159	32.4790
.750	.469	139.	33.187	32.718	33.628	32.398	32.7159
.750	.469	140.	33.425	32.956	33.867	32.637	32.9560
.750	.469	141.	33.664	33.195	34.106	32.876	33.1929
.750	.469	142.	33.903	33.434	34.344	33.114	33.4340
.750	.469	143.	34.141	33.672	34.583	33.353	33.6699
.750	.469	144.	34.380	33.911	34.822	33.592	33.9110
.750	.469	145.	34.619	34.150	35.061	33.831	34.1480
.750	.469	146.	34.858	34.389	35.300	34.070	34.3890
.750	.469	147.	35.096	34.627	35.538	34.308	34.6250
.750	.469	148.	35.335	34.866	35.777	34.547	34.8660
.750	.469	149.	35.574	35.105	36.016	34.786	35.1030

P	D	N	PD	BD	OD	MHD	CD
.750	.469	150.	35.812	35.343	36.255	35.025	35.3430
1.000	.625	8.	2.613	1.988	3.014	1.384	1.9880
1.000	.625	9.	2.924	2.299	3.347	1.717	2.2546
1.000	.625	10.	3.236	2.611	3.678	2.048	2.6110
1.000	.625	11.	3.549	2.924	4.006	2.376	2.8879
1.000	.625	12.	3.864	3.239	4.332	2.702	3.2390
1.000	.625	13.	4.179	3.554	4.657	3.027	3.5235
1.000	.625	14.	4.494	3.869	4.981	3.351	3.8690
1.000	.625	15.	4.810	4.185	5.305	3.675	4.1587
1.000	.625	16.	5.126	4.501	5.627	3.997	4.5010
1.000	.625	17.	5.442	4.817	5.950	4.320	4.7938
1.000	.625	18.	5.759	5.134	6.271	4.641	5.1340
1.000	.625	19.	6.076	5.451	6.593	4.963	5.4302
1.000	.625	20.	6.392	5.767	6.914	5.284	5.7670
1.000	.625	21.	6.710	6.085	7.235	5.605	6.0662
1.000	.625	22.	7.027	6.402	7.555	5.925	6.4020
1.000	.625	23.	7.344	6.719	7.876	6.246	6.7019
1.000	.625	24.	7.661	7.036	8.196	6.566	7.0360
1.000	.625	25.	7.979	7.354	8.516	6.886	7.3583
1.000	.625	26.	8.296	7.671	8.836	7.206	7.6710
1.000	.625	27.	8.614	7.989	9.156	7.526	7.9744
1.000	.625	28.	8.931	8.306	9.475	7.845	8.3060
1.000	.625	29.	9.249	8.624	9.795	8.165	8.6104
1.000	.625	30.	9.567	8.942	10.114	8.484	8.9420
1.000	.625	31.	9.885	9.260	10.434	8.804	9.2473
1.000	.625	32.	10.202	9.577	10.753	9.123	9.5770
1.000	.625	33.	10.520	9.895	11.072	9.442	9.8831
1.000	.625	34.	10.838	10.213	11.392	9.762	10.2130
1.000	.625	35.	11.156	10.531	11.711	10.081	10.5198
1.000	.625	36.	11.474	10.849	12.030	10.400	10.8490
1.000	.625	37.	11.792	11.167	12.349	10.719	11.1564
1.000	.625	38.	12.110	11.485	12.668	11.038	11.4850
1.000	.625	39.	12.428	11.803	12.987	11.357	11.7929
1.000	.625	40.	12.745	12.120	13.306	11.676	12.1200
1.000	.625	41.	13.063	12.438	13.625	11.995	12.4284
1.000	.625	42.	13.381	12.756	13.944	12.314	12.7560
1.000	.625	43.	13.700	13.075	14.263	12.633	13.0659
1.000	.625	44.	14.018	13.393	14.582	12.952	13.3930
1.000	.625	45.	14.336	13.711	14.901	13.271	13.7023
1.000	.625	46.	14.654	14.029	15.219	13.589	14.0290
1.000	.625	47.	14.972	14.347	15.538	13.908	14.3386
1.000	.625	48.	15.290	14.665	15.857	14.227	14.6650
1.000	.625	49.	15.608	14.983	16.176	14.546	14.9750
1.000	.625	50.	15.926	15.301	16.495	14.865	15.3010
1.000	.625	51.	16.244	15.619	16.813	15.183	15.6113
1.000	.625	52.	16.562	15.937	17.132	15.502	15.9370
1.000	.625	53.	16.880	16.255	17.451	15.821	16.2476
1.000	.625	54.	17.198	16.573	17.769	16.139	16.5730
1.000	.625	55.	17.517	16.892	18.088	16.458	16.8849
1.000	.625	56.	17.835	17.210	18.407	16.777	17.2100
1.000	.625	57.	18.153	17.528	18.725	17.095	17.5211
1.000	.625	58.	18.471	17.846	19.044	17.414	17.8460
1.000	.625	59.	18.789	18.164	19.363	17.733	18.1573
1.000	.625	60.	19.107	18.482	19.681	18.051	18.4820
1.000	.625	61.	19.425	18.800	20.000	18.370	18.7936



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P	D	N	PD	BD	OD	MHD	CD
1.000	.625	62.	19.744	19.119	20.318	18.698	19.1190
1.000	.625	63.	20.062	19.437	20.637	19.007	19.4308
1.000	.625	64.	20.380	19.755	20.955	19.325	19.7550
1.000	.625	65.	20.698	20.073	21.274	19.644	20.0670
1.000	.625	66.	21.016	20.391	21.593	19.963	20.3910
1.000	.625	67.	21.335	20.710	21.911	20.281	20.7041
1.000	.625	68.	21.653	21.028	22.230	20.600	21.0280
1.000	.625	69.	21.971	21.346	22.548	20.918	21.3403
1.000	.625	70.	22.289	21.664	22.867	21.237	21.6640
1.000	.625	71.	22.607	21.982	23.185	21.555	21.9765
1.000	.625	72.	22.926	22.301	23.504	21.874	22.3010
1.000	.625	73.	23.244	22.619	23.822	22.192	22.6136
1.000	.625	74.	23.562	22.937	24.141	22.511	22.9370
1.000	.625	75.	23.880	23.255	24.459	22.829	23.2498
1.000	.625	76.	24.198	23.573	24.778	23.148	23.5730
1.000	.625	77.	24.517	23.892	25.096	23.466	23.8869
1.000	.625	78.	24.835	24.210	25.415	23.785	24.2100
1.000	.625	79.	25.153	24.528	25.733	24.103	24.5230
1.000	.625	80.	25.471	24.846	26.052	24.422	24.8460
1.000	.625	81.	25.790	25.165	26.370	24.740	25.1602
1.000	.625	82.	26.108	25.483	26.689	25.059	25.4830
1.000	.625	83.	26.426	25.801	27.007	25.377	25.7963
1.000	.625	84.	26.744	26.119	27.326	25.696	26.1190
1.000	.625	85.	27.063	26.438	27.644	26.014	26.4334
1.000	.625	86.	27.381	26.756	27.962	26.332	26.7560
1.000	.625	87.	27.699	27.074	28.281	26.651	27.0695
1.000	.625	88.	28.017	27.392	28.599	26.969	27.3920
1.000	.625	89.	28.335	27.710	28.918	27.288	27.7056
1.000	.625	90.	28.654	28.029	29.236	27.606	28.0290
1.000	.625	91.	28.972	28.347	29.555	27.925	28.3427
1.000	.625	92.	29.290	28.665	29.873	28.243	28.6650
1.000	.625	93.	29.608	28.983	30.192	28.562	28.9788
1.000	.625	94.	29.927	29.302	30.510	28.880	29.3020
1.000	.625	95.	30.245	29.620	30.828	29.198	29.6159
1.000	.625	96.	30.563	29.938	31.147	29.517	29.9380
1.000	.625	97.	30.881	30.256	31.465	29.835	30.2520
1.000	.625	98.	31.200	30.575	31.784	30.154	30.5750
1.000	.625	99.	31.518	30.893	32.102	30.472	30.8890
1.000	.625	100.	31.836	31.211	32.421	30.791	31.2110
1.000	.625	101.	32.154	31.529	32.739	31.109	31.5251
1.000	.625	102.	32.473	31.848	33.057	31.427	31.8480
1.000	.625	103.	32.791	32.166	33.376	31.746	32.1622
1.000	.625	104.	33.109	32.484	33.694	32.064	32.4840
1.000	.625	105.	33.428	32.803	34.013	32.383	32.7993
1.000	.625	106.	33.746	33.121	34.331	32.701	33.1210
1.000	.625	107.	34.064	33.439	34.649	33.019	33.4350
1.000	.625	108.	34.382	33.757	34.968	33.338	33.7570
1.000	.625	109.	34.701	34.076	35.286	33.656	34.0724
1.000	.625	110.	35.019	34.394	35.605	33.975	34.3940
1.000	.625	111.	35.337	34.712	35.923	34.293	34.7085
1.000	.625	112.	35.655	35.030	36.241	34.611	35.0300
1.000	.625	113.	35.974	35.349	36.560	34.930	35.3455
1.000	.625	114.	36.292	35.667	36.878	35.248	35.6670
1.000	.625	115.	36.610	35.985	37.197	35.567	35.9816
1.000	.625	116.	36.928	36.303	37.515	35.885	36.3030

P	D	N	PD	BD	OD	MHD	CD
1.000	.625	117.	37.247	36.622	37.833	36.203	36.6186
1.000	.625	118.	37.565	36.940	38.152	36.522	36.9400
1.000	.625	119.	37.883	37.258	38.470	36.840	37.2547
1.000	.625	120.	38.202	37.577	38.788	37.158	37.5747
1.000	.625	121.	38.520	37.895	39.107	37.477	37.8918
1.000	.625	122.	38.838	38.213	39.425	37.795	38.2130
1.000	.625	123.	39.156	38.531	39.744	38.114	38.5278
1.000	.625	124.	39.475	38.850	40.062	38.432	38.8500
1.000	.625	125.	39.793	39.168	40.380	38.750	39.1649
1.000	.625	126.	40.111	39.486	40.699	39.069	39.4860
1.000	.625	127.	40.429	39.804	41.017	39.387	39.8009
1.000	.625	128.	40.748	40.123	41.335	39.705	40.1230
1.000	.625	129.	41.066	40.441	41.654	40.024	40.4380
1.000	.625	130.	41.384	40.759	41.972	40.342	40.7590
1.000	.625	131.	41.703	41.078	42.291	40.661	41.0750
1.000	.625	132.	42.021	41.396	42.609	40.979	41.3960
1.000	.625	133.	42.339	41.714	42.927	41.297	41.7110
1.000	.625	134.	42.657	42.032	43.246	41.616	42.0320
1.000	.625	135.	42.976	42.351	43.564	41.934	42.3481
1.000	.625	136.	43.294	42.669	43.882	42.252	42.6690
1.000	.625	137.	43.612	42.987	44.201	42.571	42.9841
1.000	.625	138.	43.931	43.306	44.519	42.889	43.3060
1.000	.625	139.	44.249	43.624	44.838	43.208	43.6212
1.000	.625	140.	44.567	43.942	45.156	43.526	43.9420
1.000	.625	141.	44.885	44.260	45.474	43.844	44.2572
1.000	.625	142.	45.204	44.579	45.793	44.163	44.5790
1.000	.625	143.	45.522	44.897	46.111	44.481	44.8943
1.000	.625	144.	45.840	45.215	46.429	44.799	45.2150
1.000	.625	145.	46.159	45.534	46.748	45.118	45.5313
1.000	.625	146.	46.477	45.852	47.066	45.436	45.8520
1.000	.625	147.	46.795	46.170	47.384	45.754	46.1673
1.000	.625	148.	47.113	46.488	47.703	46.073	46.4880
1.000	.625	149.	47.432	46.807	48.021	46.391	46.8044
1.000	.625	150.	47.750	47.125	48.340	46.710	47.1250
1.250	.750	8.	3.266	2.516	3.768	1.738	2.5160
1.250	.750	9.	3.655	2.905	4.184	2.154	2.8495
1.250	.750	10.	4.045	3.295	4.597	2.567	3.2950
1.250	.750	11.	4.437	3.687	5.007	2.977	3.6818
1.250	.750	12.	4.830	4.080	5.415	3.385	4.0800
1.250	.750	13.	5.223	4.473	5.821	3.791	4.4369
1.250	.750	14.	5.617	4.867	6.227	4.197	4.8670
1.250	.750	15.	6.012	5.262	6.631	4.601	5.2291
1.250	.750	16.	6.407	5.657	7.034	5.004	5.6570
1.250	.750	17.	6.803	6.053	7.437	5.407	6.0240
1.250	.750	18.	7.198	6.448	7.839	5.809	6.4480
1.250	.750	19.	7.594	6.844	8.241	6.211	6.8418
1.250	.750	20.	7.991	7.241	8.642	6.612	7.2410
1.250	.750	21.	8.387	7.637	9.043	7.013	7.6315
1.250	.750	22.	8.783	8.033	9.444	7.414	8.0330
1.250	.750	23.	9.180	8.430	9.844	7.814	8.4306
1.250	.750	24.	9.577	8.827	10.245	8.215	8.8270
1.250	.750	25.	9.973	9.223	10.645	8.615	9.2033
1.250	.750	26.	10.370	9.620	11.045	9.015	9.6200
1.250	.750	27.	10.767	10.017	11.444	9.414	9.9988
1.250	.750	28.	11.164	10.414	11.844	9.814	10.4140

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P	D	N	PD	BD	OD	MHD	CD
1.250	.750	29.	11.561	10.811	12.244	10.214	10.7940
1.250	.750	30.	11.958	11.208	12.643	10.613	11.2080
1.250	.750	31.	12.356	11.606	13.042	11.012	11.5901
1.250	.750	32.	12.753	12.003	13.441	11.411	12.0330
1.250	.750	33.	13.150	12.400	13.841	11.811	12.3851
1.250	.750	34.	13.547	12.797	14.240	12.210	12.7970
1.250	.750	35.	13.945	13.195	14.639	12.609	13.1810
1.250	.750	36.	14.342	13.592	15.038	13.008	13.5920
1.250	.750	37.	14.740	13.990	15.436	13.406	13.9767
1.250	.750	38.	15.137	14.387	15.835	13.805	14.3870
1.250	.750	39.	15.534	14.784	16.234	14.204	14.7714
1.250	.750	40.	15.932	15.182	16.633	14.603	15.1820
1.250	.750	41.	16.329	15.579	17.031	15.001	15.5670
1.250	.750	42.	16.727	15.977	17.430	15.400	15.9770
1.250	.750	43.	17.124	16.374	17.829	15.799	16.3626
1.250	.750	44.	17.522	16.772	18.227	16.197	16.7720
1.250	.750	45.	17.919	17.169	18.626	16.596	17.1581
1.250	.750	46.	18.317	17.567	19.024	16.994	17.5670
1.250	.750	47.	18.715	17.965	19.423	17.393	17.9545
1.250	.750	48.	19.112	18.362	19.821	17.791	18.3620
1.250	.750	49.	19.510	18.760	20.220	18.190	18.7500
1.250	.750	50.	19.907	19.157	20.618	18.588	19.1570
1.250	.750	51.	20.305	19.555	21.017	18.987	19.5434
1.250	.750	52.	20.703	19.953	21.415	19.385	19.9530
1.250	.750	53.	21.100	20.350	21.813	19.783	20.3407
1.250	.750	54.	21.498	20.748	22.212	20.182	20.7480
1.250	.750	55.	21.896	21.146	22.610	20.580	21.1371
1.250	.750	56.	22.293	21.543	23.008	20.978	21.5430
1.250	.750	57.	22.691	21.941	23.407	21.377	21.9324
1.250	.750	58.	23.089	22.339	23.805	21.775	22.3390
1.250	.750	59.	23.486	22.736	24.203	22.173	22.7277
1.250	.750	60.	23.884	23.134	24.601	22.571	23.1340
1.250	.750	61.	24.282	23.532	25.000	22.970	23.5339
1.250	.750	62.	24.680	23.930	25.398	23.368	23.9300
1.250	.750	63.	25.077	24.327	25.796	23.766	24.3192
1.250	.750	64.	25.475	24.725	26.194	24.164	24.7250
1.250	.750	65.	25.873	25.123	26.593	24.563	25.1154
1.250	.750	66.	26.270	25.520	26.991	24.961	25.5200
1.250	.750	67.	26.668	25.918	27.389	25.359	25.9107
1.250	.750	68.	27.066	26.316	27.787	25.757	26.3160
1.250	.750	69.	27.464	26.714	28.185	26.155	26.7069
1.250	.750	70.	27.861	27.111	28.583	26.553	27.1110
1.250	.750	71.	28.259	27.509	28.982	26.952	27.5021
1.250	.750	72.	28.657	27.907	29.380	27.350	27.9070
1.250	.750	73.	29.055	28.305	29.778	27.748	28.2983
1.250	.750	74.	29.453	28.703	30.176	28.146	28.7030
1.250	.750	75.	29.850	29.100	30.574	28.544	29.0935
1.250	.750	76.	30.248	29.498	30.972	28.942	29.4930
1.250	.750	77.	30.646	29.896	31.370	29.340	29.8966
1.250	.750	78.	31.044	30.294	31.768	29.738	30.2940
1.250	.750	79.	31.441	30.691	32.167	30.137	30.6848
1.250	.750	80.	31.839	31.089	32.565	30.535	31.0890
1.250	.750	81.	32.237	31.487	32.963	30.933	31.4809
1.250	.750	82.	32.635	31.885	33.361	31.331	31.8950
1.250	.750	83.	33.033	32.283	33.759	31.729	32.2771

P	D	N	PD	BD	OD	MHD	CD
1.250	.750	84.	33.430	32.680	34.157	32.127	32.6800
1.250	.750	85.	33.828	33.078	34.555	32.525	33.0722
1.250	.750	86.	34.226	33.476	34.953	32.923	33.4760
1.250	.750	87.	34.624	33.874	35.351	33.321	33.8684
1.250	.750	88.	35.022	34.272	35.749	33.719	34.2720
1.250	.750	89.	35.419	34.669	36.147	34.117	34.6635
1.250	.750	90.	35.817	35.067	36.545	34.515	35.0670
1.250	.750	91.	36.215	35.465	36.943	34.913	35.4696
1.250	.750	92.	36.613	35.863	37.341	35.311	35.8630
1.250	.750	93.	37.011	36.261	37.739	35.709	36.2527
1.250	.750	94.	37.408	36.658	38.137	36.107	36.6580
1.250	.750	95.	37.806	37.056	38.536	36.506	37.0508
1.250	.750	96.	38.204	37.454	38.934	36.904	37.4540
1.250	.750	97.	38.602	37.852	39.332	37.302	37.8569
1.250	.750	98.	39.000	38.250	39.730	37.700	38.2500
1.250	.750	99.	39.397	38.647	40.128	38.098	38.6420
1.250	.750	100.	39.795	39.045	40.526	38.496	39.0450
1.250	.750	101.	40.193	39.443	40.924	38.894	39.4381
1.250	.750	102.	40.591	39.841	41.322	39.292	39.8410
1.250	.750	103.	40.989	40.239	41.720	39.690	40.2342
1.250	.750	104.	41.387	40.637	42.118	40.088	40.6370
1.250	.750	105.	41.784	41.034	42.516	40.486	41.0293
1.250	.750	106.	42.182	41.432	42.914	40.884	41.4320
1.250	.750	107.	42.580	41.830	43.312	41.282	41.8254
1.250	.750	108.	42.978	42.228	43.710	41.680	42.2280
1.250	.750	109.	43.376	42.626	44.108	42.078	42.6215
1.250	.750	110.	43.774	43.024	44.506	42.476	43.0240
1.250	.750	111.	44.171	43.421	44.904	42.874	43.4166
1.250	.750	112.	44.569	43.819	45.302	43.272	43.8190
1.250	.750	113.	44.967	44.217	45.700	43.670	44.2127
1.250	.750	114.	45.365	44.615	46.098	44.068	44.6150
1.250	.750	115.	45.763	45.013	46.496	44.466	45.0081
1.250	.750	116.	46.161	45.411	46.894	44.864	45.4110
1.250	.750	117.	46.558	45.808	47.292	45.262	45.8038
1.250	.750	118.	46.956	46.206	47.690	45.660	46.2060
1.250	.750	119.	47.354	46.604	48.088	46.058	46.5999
1.250	.750	120.	47.752	47.002	48.486	46.456	47.0020
1.250	.750	121.	48.150	47.400	48.884	46.854	47.3959
1.250	.750	122.	48.548	47.798	49.282	47.252	47.7980
1.250	.750	123.	48.945	48.195	49.680	47.650	48.1910
1.250	.750	124.	49.343	48.593	50.077	48.047	48.5930
1.250	.750	125.	49.741	48.991	50.475	48.445	48.9871
1.250	.750	126.	50.139	49.389	50.873	48.843	49.3890
1.250	.750	127.	50.537	49.787	51.271	49.241	49.7831
1.250	.750	128.	50.935	50.185	51.669	49.639	50.1850
1.250	.750	129.	51.333	50.583	52.067	50.037	50.5792
1.250	.750	130.	51.730	50.980	52.465	50.435	50.9800
1.250	.750	131.	52.128	51.378	52.863	50.833	51.3743
1.250	.750	132.	52.526	51.776	53.261	51.231	51.7760
1.250	.750	133.	52.924	52.174	53.659	51.629	52.1703
1.250	.750	134.	53.322	52.572	54.057	52.027	52.5720
1.250	.750	135.	53.720	52.970	54.455	52.425	52.9664
1.250	.750	136.	54.118	53.367	54.853	52.823	53.3670
1.250	.750	137.	54.515	53.765	55.251	53.221	53.7614
1.250	.750	138.	54.913	54.163	55.649	53.619	54.1630

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P	D	N	PD	BD	OD	MHD	CD
1.250	.750	139.	55.311	54.561	56.047	54.017	54.5575
1.250	.750	140.	55.709	54.959	56.445	54.415	54.9590
1.250	.750	141.	56.107	55.357	56.843	54.813	55.3535
1.250	.750	142.	56.505	55.755	57.241	55.211	55.7550
1.250	.750	143.	56.902	56.152	57.639	55.609	56.1486
1.250	.750	144.	57.300	56.550	58.037	56.007	56.5500
1.250	.750	145.	57.698	56.948	58.435	56.405	56.9446
1.250	.750	146.	58.096	57.346	58.833	56.803	57.3460
1.250	.750	147.	58.494	57.744	59.231	57.201	57.7407
1.250	.750	148.	58.892	58.142	59.628	57.598	58.1420
1.250	.750	149.	59.290	58.540	60.026	57.996	58.5367
1.250	.750	150.	59.687	58.937	60.424	58.394	58.9370
1.500	.875	8.	3.920	3.045	4.521	2.091	3.0450
1.500	.875	9.	4.386	3.511	5.021	2.591	3.4444
1.500	.875	10.	4.854	3.979	5.517	3.087	3.9790
1.500	.875	11.	5.324	4.449	6.009	3.579	4.3948
1.500	.875	12.	5.796	4.921	6.498	4.068	4.9210
1.500	.875	13.	6.268	5.393	6.986	4.556	5.3473
1.500	.875	14.	6.741	5.866	7.472	5.042	5.8660
1.500	.875	15.	7.215	6.340	7.957	5.527	6.3005
1.500	.875	16.	7.689	6.814	8.441	6.011	6.8140
1.500	.875	17.	8.163	7.288	8.924	6.494	7.2532
1.500	.875	18.	8.638	7.763	9.407	6.977	7.7630
1.500	.875	19.	9.113	8.238	9.889	7.459	8.2069
1.500	.875	20.	9.589	8.714	10.371	7.941	8.7140
1.500	.875	21.	10.064	9.189	10.852	8.422	9.1609
1.500	.875	22.	10.540	9.665	11.333	8.903	9.6650
1.500	.875	23.	11.016	10.141	11.813	9.383	10.1153
1.500	.875	24.	11.492	10.617	12.294	9.864	10.6170
1.500	.875	25.	11.968	11.093	12.774	10.344	11.0694
1.500	.875	26.	12.444	11.569	13.254	10.824	11.5690
1.500	.875	27.	12.921	12.046	13.733	11.303	12.0341
1.500	.875	28.	13.397	12.522	14.213	11.783	12.5220
1.500	.875	29.	13.874	12.999	14.692	12.262	12.9787
1.500	.875	30.	14.350	13.475	15.172	12.742	13.4750
1.500	.875	31.	14.827	13.952	15.651	13.221	13.9330
1.500	.875	32.	15.303	14.428	16.130	13.700	14.4280
1.500	.875	33.	15.780	14.905	16.609	14.179	14.8871
1.500	.875	34.	16.257	15.382	17.088	14.658	15.3820
1.500	.875	35.	16.734	15.859	17.566	15.136	15.8421
1.500	.875	36.	17.211	16.336	18.045	15.615	16.3360
1.500	.875	37.	17.687	16.812	18.524	16.094	16.7961
1.500	.875	38.	18.164	17.289	19.002	16.572	17.2890
1.500	.875	39.	18.641	17.766	19.481	17.051	17.7509
1.500	.875	40.	19.118	18.243	19.959	17.529	18.2430
1.500	.875	41.	19.595	18.720	20.438	18.008	18.7056
1.500	.875	42.	20.072	19.197	20.916	18.486	19.1970
1.500	.875	43.	20.549	19.674	21.394	18.964	19.6603
1.500	.875	44.	21.026	20.151	21.873	19.443	20.1510
1.500	.875	45.	21.503	20.628	22.351	19.921	20.6149
1.500	.875	46.	21.980	21.105	22.829	20.399	21.1050
1.500	.875	47.	22.458	21.583	23.307	20.877	21.5705
1.500	.875	48.	22.935	22.060	23.786	21.356	22.0600
1.500	.875	49.	23.412	22.537	24.264	21.834	22.5250
1.500	.875	50.	23.889	23.014	24.742	22.312	23.0140

P	D	N	PD	BD	OD	MHD	CD
1.500	.875	51.	24.366	23.491	25.220	22.790	23.4794
1.500	.875	52.	24.843	23.968	25.698	23.268	23.9680
1.500	.875	53.	25.320	24.445	26.176	23.746	24.4339
1.500	.875	54.	25.798	24.923	26.654	24.224	24.9230
1.500	.875	55.	26.275	25.400	27.132	24.702	25.4000
1.500	.875	56.	26.752	25.877	27.610	25.180	25.8770
1.500	.875	57.	27.229	26.354	28.088	25.658	26.3437
1.500	.875	58.	27.707	26.832	28.566	26.136	26.8320
1.500	.875	59.	28.184	27.309	29.044	26.614	27.2990
1.500	.875	60.	28.661	27.786	29.522	27.092	27.7860
1.500	.875	61.	29.138	28.263	30.000	27.570	28.2533
1.500	.875	62.	29.615	28.740	30.477	28.047	28.7400
1.500	.875	63.	30.093	29.218	30.955	28.525	29.2086
1.500	.875	64.	30.570	29.695	31.433	29.003	29.6950
1.500	.875	65.	31.047	30.172	31.911	29.481	30.1629
1.500	.875	66.	31.525	30.650	32.389	29.959	30.6500
1.500	.875	67.	32.002	31.127	32.867	30.437	31.1182
1.500	.875	68.	32.479	31.604	33.345	30.915	31.6040
1.500	.875	69.	32.956	32.081	33.822	31.392	32.0725
1.500	.875	70.	33.434	32.559	34.300	31.870	32.5590
1.500	.875	71.	33.911	33.036	34.778	32.348	33.0277
1.500	.875	72.	34.388	33.513	35.256	32.826	33.5130
1.500	.875	73.	34.866	33.991	35.733	33.303	33.9829
1.500	.875	74.	35.343	34.468	36.211	33.781	34.4680
1.500	.875	75.	35.820	34.945	36.689	34.259	34.9371
1.500	.875	76.	36.298	35.423	37.167	34.737	35.4230
1.500	.875	77.	36.775	35.900	37.644	35.214	35.8923
1.500	.875	78.	37.252	36.377	38.122	35.692	36.3770
1.500	.875	79.	37.730	36.855	38.600	36.170	36.8475
1.500	.875	80.	38.207	37.332	39.078	36.648	37.3320
1.500	.875	81.	38.684	37.809	39.555	37.125	37.8017
1.500	.875	82.	39.162	38.287	40.033	37.603	38.2873
1.500	.875	83.	39.639	38.764	40.511	38.081	38.7569
1.500	.875	84.	40.116	39.241	40.988	38.558	39.2410
1.500	.875	85.	40.594	39.719	41.466	39.036	39.7121
1.500	.875	86.	41.071	40.196	41.944	39.514	40.1960
1.500	.875	87.	41.548	40.673	42.421	39.991	40.6662
1.500	.875	88.	42.026	41.151	42.899	40.469	41.1510
1.500	.875	89.	42.503	41.628	43.377	40.947	41.6214
1.500	.875	90.	42.981	42.106	43.854	41.424	42.1060
1.500	.875	91.	43.458	42.583	44.332	41.902	42.5765
1.500	.875	92.	43.935	43.060	44.810	42.380	43.0603
1.500	.875	93.	44.413	43.538	45.287	42.857	43.5317
1.500	.875	94.	44.890	44.015	45.765	43.335	44.0150
1.500	.875	95.	45.367	44.492	46.243	43.813	44.4858
1.500	.875	96.	45.845	44.970	46.720	44.290	44.9703
1.500	.875	97.	46.322	45.447	47.198	44.768	45.4409
1.500	.875	98.	46.800	45.925	47.676	45.246	45.9250
1.500	.875	99.	47.277	46.402	48.153	45.723	46.3960
1.500	.875	100.	47.754	46.879	48.631	46.201	46.8790
1.500	.875	101.	48.232	47.357	49.108	46.678	47.3512
1.500	.875	102.	48.709	47.834	49.586	47.156	47.8340
1.500	.875	103.	49.187	48.312	50.064	47.634	48.3063
1.500	.875	104.	49.664	48.789	50.541	48.111	48.7890
1.500	.875	105.	50.141	49.266	51.019	48.589	49.2604

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P	D	N	PD	BD	OD	MHD	CD
1.500	.875	106.	50.619	49.744	51.476	49.066	49.7440
1.500	.875	107.	51.056	50.221	51.974	49.544	50.2155
1.500	.875	108.	51.573	50.698	52.452	50.032	50.6980
1.500	.875	109.	52.051	51.176	52.929	50.499	51.1706
1.500	.875	110.	52.528	51.653	53.407	50.977	51.6530
1.500	.875	111.	53.024	52.131	53.884	51.454	52.1357
1.500	.875	112.	53.483	52.608	54.352	51.932	52.6080
1.500	.875	113.	53.960	53.085	54.840	52.410	53.0798
1.500	.875	114.	54.438	53.563	55.317	52.887	53.5630
1.500	.875	115.	54.915	54.040	55.795	53.365	54.0400
1.500	.875	116.	55.393	54.518	56.272	53.842	54.5180
1.500	.875	117.	55.870	54.995	56.750	54.320	54.9950
1.500	.875	118.	56.348	55.473	57.228	54.798	55.4730
1.500	.875	119.	56.825	55.950	57.705	55.275	55.9500
1.500	.875	120.	57.322	56.427	58.183	55.753	56.4270
1.500	.875	121.	57.800	56.905	58.660	56.230	56.9050
1.500	.875	122.	58.257	57.382	59.138	56.708	57.3820
1.500	.875	123.	58.735	57.860	59.615	57.185	57.8600
1.500	.875	124.	59.212	58.337	60.093	57.663	58.3370
1.500	.875	125.	59.689	58.814	60.571	58.141	58.8140
1.500	.875	126.	60.167	59.292	61.048	58.618	59.2920
1.500	.875	127.	60.644	59.769	61.526	59.096	59.7690
1.500	.875	128.	61.122	60.247	62.003	59.573	60.2470
1.500	.875	129.	61.599	60.724	62.481	60.051	60.7240
1.500	.875	130.	62.076	61.201	62.958	60.528	61.2010
1.500	.875	131.	62.554	61.679	63.436	61.006	61.6790
1.500	.875	132.	63.031	62.156	63.913	61.483	62.1560
1.500	.875	133.	63.509	62.634	64.391	61.961	62.6340
1.500	.875	134.	63.986	63.111	64.869	62.439	63.1110
1.500	.875	135.	64.464	63.589	65.346	62.916	63.5890
1.500	.875	136.	64.941	64.066	65.824	63.394	64.0660
1.500	.875	137.	65.418	64.543	66.301	63.871	64.5430
1.500	.875	138.	65.895	65.021	66.779	64.349	65.0210
1.500	.875	139.	66.373	65.498	67.256	64.826	65.4980
1.500	.875	140.	66.851	65.976	67.734	65.304	65.9760
1.500	.875	141.	67.328	66.453	68.211	65.781	66.4530
1.500	.875	142.	67.806	66.931	68.689	66.259	66.9310
1.500	.875	143.	68.283	67.408	69.166	66.736	67.4080
1.500	.875	144.	68.760	67.885	69.644	67.214	67.8850
1.500	.875	145.	69.238	68.363	70.122	67.692	68.3630
1.500	.875	146.	69.715	68.840	70.599	68.169	68.8400
1.500	.875	147.	70.193	69.318	71.077	68.647	69.3180
1.500	.875	148.	70.671	69.795	71.554	69.124	69.7950
1.500	.875	149.	71.148	70.273	72.032	69.602	70.2730
1.500	.875	150.	71.625	70.750	72.509	70.079	70.7500
1.750	1.000	8.	4.573	3.573	5.275	2.445	3.5730
1.750	1.000	9.	5.117	4.117	5.856	3.028	4.0393
1.750	1.000	10.	5.663	4.663	6.436	3.606	4.6360
1.750	1.000	11.	6.212	5.212	7.010	4.180	5.1488
1.750	1.000	12.	6.761	5.761	7.581	4.751	5.7610
1.750	1.000	13.	7.313	6.313	8.150	5.320	6.2597
1.750	1.000	14.	7.864	6.864	8.717	5.887	6.8640
1.750	1.000	15.	8.417	7.417	9.283	6.453	7.3709
1.750	1.000	16.	8.970	7.970	9.848	7.018	7.9700
1.750	1.000	17.	9.524	8.524	10.412	7.582	8.5240
1.750	1.000	18.	10.078	9.078	10.976	8.146	9.0780
1.750	1.000	19.	10.632	9.632	11.540	8.710	9.6320
1.750	1.000	20.	11.187	10.187	12.104	9.274	10.1870
1.750	1.000	21.	11.742	10.742	12.668	9.838	10.7420
1.750	1.000	22.	12.297	11.297	13.232	10.402	11.2970
1.750	1.000	23.	12.852	11.852	13.796	10.966	11.8520
1.750	1.000	24.	13.407	12.407	14.360	11.530	12.4070
1.750	1.000	25.	13.962	12.962	14.924	12.094	12.9620
1.750	1.000	26.	14.517	13.517	15.488	12.658	13.5170
1.750	1.000	27.	15.072	14.072	16.052	13.222	14.0720
1.750	1.000	28.	15.627	14.627	16.616	13.786	14.6270
1.750	1.000	29.	16.182	15.182	17.180	14.350	15.1820
1.750	1.000	30.	16.737	15.737	17.744	14.914	15.7370
1.750	1.000	31.	17.292	16.292	18.308	15.478	16.2920
1.750	1.000	32.	17.847	16.847	18.872	16.042	16.8470
1.750	1.000	33.	18.402	17.402	19.436	16.606	17.4020
1.750	1.000	34.	18.957	17.957	19.999	17.170	17.9570
1.750	1.000	35.	19.512	18.512	20.563	17.734	18.5120
1.750	1.000	36.	20.067	19.067	21.127	18.298	19.0670
1.750	1.000	37.	20.622	19.622	21.691	18.862	19.6220
1.750	1.000	38.	21.177	20.177	22.255	19.426	20.1770
1.750	1.000	39.	21.732	20.732	22.819	19.990	20.7320
1.750	1.000	40.	22.287	21.287	23.383	20.554	21.2870
1.750	1.000	41.	22.842	21.842	23.947	21.118	21.8420
1.750	1.000	42.	23.397	22.397	24.511	21.682	22.3970
1.750	1.000	43.	23.952	22.952	25.075	22.246	22.9520
1.750	1.000	44.	24.507	23.507	25.639	22.810	23.5070
1.750	1.000	45.	25.062	24.062	26.203	23.374	24.0620
1.750	1.000	46.	25.617	24.617	26.767	23.938	24.6170
1.750	1.000	47.	26.172	25.172	27.331	24.502	25.1720
1.750	1.000	48.	26.727	25.727	27.895	25.066	25.7270
1.750	1.000	49.	27.282	26.282	28.459	25.630	26.2820
1.750	1.000	50.	27.837	26.837	29.023	26.194	26.8370
1.750	1.000	51.	28.392	27.392	29.587	26.758	27.3920
1.750	1.000	52.	28.947	27.947	30.151	27.322	27.9470
1.750	1.000	53.	29.502	28.502	30.715	27.886	28.5020
1.750	1.000	54.	30.057	29.057	31.279	28.450	29.0570
1.750	1.000	55.	30.612	29.612	31.843	29.014	29.6120
1.750	1.000	56.	31.167	30.167	32.407	29.578	30.1670
1.750	1.000	57.	31.722	30.722	32.971	30.142	30.7220
1.750	1.000	58.	32.277	31.277	33.535	30.706	31.2770
1.750	1.000	59.	32.832	31.832	34.099	31.270	31.8320
1.750	1.000	60.	33.387	32.387	34.663	31.834	32.3870
1.750	1.000	61.	33.942	32.942	35.227	32.398	32.9420
1.750	1.000	62.	34.497	33.497	35.791	32.962	33.4970
1.750	1.000	63.	35.052	34.052	36.355	33.526	34.0520
1.750	1.000	64.	35.607	34.607	36.919	34.090	34.6070
1.750	1.000	65.	36.162	35.162	37.483	34.654	35.1620
1.750	1.000	66.	36.717	35.717	38.047	35.218	35.7170
1.750	1.000	67.	37.272	36.272	38.611	35.782	36.2720
1.750	1.000	68.	37.827	36.827	39.175	36.346	36.8270
1.750	1.000	69.	38.382	37.382	39.739	36.910	37.3820
1.750	1.000	70.	38.937	37.937	40.303	37.474	37.9370
1.750	1.000	71.	39.492	38.492	40.867	38.038	38.4920
1.750	1.000	72.	40.047	39.047	41.431	38.602	39.0470
1.750	1.000	73.	40.602	39.602	41.995	39.166	39.6020
1.750	1.000	74.	41.157	40.157	42.559	39.730	40.1570
1.750	1.000	75.	41.712	40.712	43.123	40.294	40.7120
1.750	1.000	76.	42.267	41.267	43.687	40.858	41.2670
1.750	1.000	77.	42.822	41.822	44.251	41.422	41.8220
1.750	1.000	78.	43.377	42.377	44.815	41.986	42.3770
1.750	1.000	79.	43.932	42.932	45.379	42.550	42.9320
1.750	1.000	80.	44.487	43.487	45.943	43.114	43.4870
1.750	1.000	81.	45.042	44.042	46.507	43.678	44.0420
1.750	1.000	82.	45.597	44.597	47.071	44.242	44.5970
1.750	1.000	83.	46.152	45.152	47.635	44.806	45.1520
1.750	1.000	84.	46.707	45.707	48.199	45.370	45.7070
1.750	1.000	85.	47.262	46.262	48.763	45.934	46.2620
1.750	1.000	86.	47.817	46.817	49.327	46.498	46.8170
1.750	1.000	87.	48.372	47.372	49.891	47.062	47.3720
1.750	1.000	88.	48.927	47.927	50.455	47.626	47.9270
1.750	1.000	89.	49.482	48.482	51.019	48.190	48.4820
1.750	1.000	90.	50.037	49.037	51.583	48.754	49.0370
1.750	1.000	91.	50.592	49.592	52.147	49.318	49.5920
1.750	1.000	92.	51.147	50.147	52.711	49.882	50.1470
1.750	1.000	93.	51.702	50.702	53.275	50.446	50.7020
1.750	1.000	94.	52.257	51.257	53.839	51.010	51.2570
1.750	1.000	95.	52.812	51.812	54.403	51.574	51.8120
1.750	1.000	96.	53.367	52.367	54.967	52.138	52.3670
1.750	1.000	97.	53.922	52.922	55.531	52.702	52.9220
1.750	1.000	98.	54.477	53.477	56.095	53.266	53.4770
1.750	1.000	99.	55.032	54.032	56.659	53.830	54.0320
1.750	1.000	100.	55.587	54.587	57.223	54.394	54.5870
1.750	1.000	101.	56.142	55.142	57.787	54.958	55.1420
1.750	1.000	102.	56.697	55.697			

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P	D	N	PD	BD	OD	MHD	CD
1.750	1.000	73.	40.677	39.677	41.689	38.859	39.676
1.750	1.000	74.	41.234	40.234	42.246	39.416	40.234
1.750	1.000	75.	41.790	40.790	42.804	39.974	40.790
1.750	1.000	76.	42.347	41.347	43.361	40.531	41.347
1.750	1.000	77.	42.904	41.904	43.918	41.088	41.904
1.750	1.000	78.	43.461	42.461	44.476	41.646	42.461
1.750	1.000	79.	44.018	43.018	45.033	42.203	43.018
1.750	1.000	80.	44.575	43.575	45.590	42.760	43.575
1.750	1.000	81.	45.132	44.132	46.148	43.318	44.132
1.750	1.000	82.	45.689	44.689	46.705	43.875	44.689
1.750	1.000	83.	46.246	45.246	47.262	44.432	45.246
1.750	1.000	84.	46.802	45.802	47.820	44.990	45.802
1.750	1.000	85.	47.359	46.359	48.377	45.547	46.359
1.750	1.000	86.	47.916	46.916	48.934	46.104	46.916
1.750	1.000	87.	48.473	47.473	49.492	46.662	47.473
1.750	1.000	88.	49.030	48.030	50.049	47.219	48.030
1.750	1.000	89.	49.587	48.587	50.606	47.776	48.587
1.750	1.000	90.	50.144	49.144	51.163	48.333	49.144
1.750	1.000	91.	50.701	49.701	51.721	48.891	49.701
1.750	1.000	92.	51.258	50.258	52.278	49.448	50.258
1.750	1.000	93.	51.815	50.815	52.835	50.005	50.815
1.750	1.000	94.	52.372	51.372	53.392	50.562	51.372
1.750	1.000	95.	52.929	51.929	53.950	51.120	51.929
1.750	1.000	96.	53.486	52.486	54.507	51.677	52.486
1.750	1.000	97.	54.043	53.043	55.064	52.234	53.043
1.750	1.000	98.	54.600	53.600	55.621	52.791	53.600
1.750	1.000	99.	55.156	54.156	56.179	53.349	54.156
1.750	1.000	100.	55.713	54.713	56.736	53.906	54.713
2.000	1.125	8.	5.226	4.101	6.028	2.798	4.101
2.000	1.125	9.	5.848	4.723	6.695	3.465	4.723
2.000	1.125	10.	6.472	5.347	7.355	4.125	5.347
2.000	1.125	11.	7.099	5.974	8.011	4.781	5.974
2.000	1.125	12.	7.727	6.602	8.664	5.434	6.602
2.000	1.125	13.	8.357	7.232	9.314	6.084	7.232
2.000	1.125	14.	8.988	7.863	9.963	6.733	7.863
2.000	1.125	15.	9.619	8.494	10.609	7.379	8.494
2.000	1.125	16.	10.252	9.127	11.255	8.025	9.127
2.000	1.125	17.	10.884	9.759	11.899	8.669	9.759
2.000	1.125	18.	11.518	10.393	12.543	9.313	10.393
2.000	1.125	19.	12.151	11.026	13.185	9.955	11.026
2.000	1.125	20.	12.785	11.660	13.828	10.598	11.660
2.000	1.125	21.	13.419	12.294	14.469	11.239	12.294
2.000	1.125	22.	14.053	12.928	15.110	11.880	12.928
2.000	1.125	23.	14.688	13.563	15.751	12.521	13.563
2.000	1.125	24.	15.323	14.198	16.392	13.162	14.198
2.000	1.125	25.	15.957	14.832	17.032	13.802	14.832
2.000	1.125	26.	16.592	15.467	17.671	14.441	15.467
2.000	1.125	27.	17.228	16.103	18.311	15.081	16.103
2.000	1.125	28.	17.863	16.738	18.950	15.720	16.738
2.000	1.125	29.	18.498	17.373	19.590	16.360	17.373
2.000	1.125	30.	19.134	18.009	20.229	16.999	18.009
2.000	1.125	31.	19.769	18.644	20.868	17.638	18.644
2.000	1.125	32.	20.405	19.280	21.506	18.276	19.280
2.000	1.125	33.	21.040	19.915	22.145	18.915	19.915
2.000	1.125	34.	21.676	20.551	22.783	19.553	20.551
2.000	1.125	35.	22.312	21.187	23.422	20.192	21.187
2.000	1.125	36.	22.947	21.822	24.060	20.830	21.822
2.000	1.125	37.	23.583	22.458	24.698	21.468	22.458
2.000	1.125	38.	24.219	23.094	25.336	22.106	23.094
2.000	1.125	39.	24.855	23.730	25.974	22.744	23.730
2.000	1.125	40.	25.491	24.366	26.612	23.382	24.366
2.000	1.125	41.	26.127	25.002	27.250	24.020	25.002
2.000	1.125	42.	26.763	25.638	27.888	24.658	25.638
2.000	1.125	43.	27.399	26.274	28.526	25.296	26.274
2.000	1.125	44.	28.035	26.910	29.164	25.934	26.910
2.000	1.125	45.	28.671	27.546	29.801	26.571	27.546
2.000	1.125	46.	29.307	28.182	30.439	27.209	28.182
2.000	1.125	47.	29.943	28.818	31.077	27.847	28.818
2.000	1.125	48.	30.580	29.455	31.714	28.484	29.455
2.000	1.125	49.	31.216	30.091	32.352	29.122	30.091
2.000	1.125	50.	31.852	30.727	32.989	29.759	30.727
2.000	1.125	51.	32.488	31.363	33.627	30.397	31.363
2.000	1.125	52.	33.124	31.999	34.264	31.034	31.999
2.000	1.125	53.	33.761	32.636	34.901	31.671	32.636
2.000	1.125	54.	34.397	33.272	35.539	32.309	33.272
2.000	1.125	55.	35.033	33.908	36.176	32.946	33.908
2.000	1.125	56.	35.669	34.544	36.813	33.583	34.544
2.000	1.125	57.	36.306	35.181	37.451	34.221	35.181
2.000	1.125	58.	36.942	35.817	38.088	34.858	35.817
2.000	1.125	59.	37.578	36.453	38.725	35.495	36.453
2.000	1.125	60.	38.215	37.090	39.362	36.132	37.090
2.000	1.125	61.	38.851	37.726	39.999	36.769	37.726
2.000	1.125	62.	39.487	38.362	40.637	37.407	38.362
2.000	1.125	63.	40.124	38.999	41.274	38.044	38.999
2.000	1.125	64.	40.760	39.635	41.911	38.681	39.635
2.000	1.125	65.	41.396	40.271	42.548	39.318	40.271
2.000	1.125	66.	42.033	40.908	43.185	39.955	40.908
2.000	1.125	67.	42.669	41.544	43.822	40.592	41.544
2.000	1.125	68.	43.306	42.181	44.459	41.229	42.181
2.000	1.125	69.	43.942	42.817	45.096	41.866	42.817
2.000	1.125	70.	44.578	43.453	45.733	42.503	43.453
2.000	1.125	71.	45.215	44.090	46.371	43.141	44.090
2.000	1.125	72.	45.851	44.726	47.008	43.778	44.726
2.000	1.125	73.	46.488	45.363	47.645	44.415	45.363
2.000	1.125	74.	47.124	45.999	48.282	45.052	45.999
2.000	1.125	75.	47.760	46.635	48.919	45.689	46.635
2.000	1.125	76.	48.397	47.272	49.556	46.326	47.272
2.000	1.125	77.	49.033	47.908	50.193	46.963	47.908
2.000	1.125	78.	49.670	48.545	50.829	47.599	48.545
2.000	1.125	79.	50.306	49.181	51.466	48.236	49.181
2.000	1.125	80.	50.943	49.818	52.103	48.873	49.818
2.000	1.125	81.	51.579	50.454	52.740	49.510	50.454
2.000	1.125	82.	52.216	51.091	53.377	50.147	51.091
2.000	1.125	83.	52.852	51.727	54.014	50.784	51.727
2.000	1.125	84.	53.489	52.364	54.651	51.421	52.364
2.000	1.125	85.	54.125	53.000	55.288	52.058	53.000
2.000	1.125	86.	54.761	53.636	55.925	52.695	53.636
2.000	1.125	87.	55.398	54.273	56.562	53.332	54.273
2.000	1.125	88.	56.034	54.909	57.199	53.969	54.909
2.000	1.125	89.	56.671	55.546	57.836	54.606	55.546



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P	D	N	PD	BD	OD	MHD	CD
2.000	1.125	90.	57.307	56.182	58.473	55.243	56.1820
2.000	1.125	91.	57.944	56.819	59.109	55.879	56.8194
2.000	1.125	92.	58.580	57.455	59.746	56.515	57.4550
2.000	1.125	93.	59.217	58.092	60.383	57.153	58.0836
2.000	1.125	94.	59.853	58.728	61.020	57.790	58.7280
2.000	1.125	95.	60.490	59.365	61.657	58.427	59.3567
2.000	1.125	96.	61.126	60.001	62.294	59.064	60.0010
2.000	1.125	97.	61.763	60.638	62.931	59.701	60.6299
2.000	1.125	98.	62.399	61.274	63.567	60.337	61.2740
2.000	1.125	99.	63.036	61.911	64.204	60.974	61.9031
2.000	1.125	100.	63.672	62.547	64.841	61.611	62.5470
2.250	1.406	8.	5.880	4.474	6.782	3.152	4.4740
2.250	1.406	9.	6.519	5.173	7.532	3.902	5.0731
2.250	1.406	10.	7.158	5.875	8.275	4.645	5.8750
2.250	1.406	11.	7.796	6.580	9.013	5.383	6.4987
2.250	1.406	12.	8.433	7.287	9.747	6.117	7.2870
2.250	1.406	13.	9.070	7.996	10.479	6.849	7.9274
2.250	1.406	14.	9.708	8.705	11.208	7.578	8.7050
2.250	1.406	15.	10.345	9.416	11.935	8.305	9.3567
2.250	1.406	16.	10.982	10.127	12.661	9.031	10.1270
2.250	1.406	17.	11.619	10.839	13.386	9.756	10.7958
2.250	1.406	18.	12.256	11.551	14.110	10.480	11.5510
2.250	1.406	19.	12.893	12.264	14.834	11.204	12.2173
2.250	1.406	20.	13.530	12.977	15.556	11.926	12.9770
2.250	1.406	21.	14.167	13.690	16.278	12.648	13.6478
2.250	1.406	22.	14.804	14.404	16.999	13.369	14.4040
2.250	1.406	23.	15.441	15.118	17.720	14.090	15.0795
2.250	1.406	24.	16.078	15.832	18.440	14.810	15.8320
2.250	1.406	25.	16.715	16.546	19.161	15.531	16.5106
2.250	1.406	26.	17.352	17.261	19.880	16.250	17.2610
2.250	1.406	27.	17.989	17.975	20.600	16.970	17.9422
2.250	1.406	28.	18.626	18.690	21.319	17.689	18.6900
2.250	1.406	29.	19.263	19.404	22.038	18.408	19.3735
2.250	1.406	30.	19.900	20.119	22.757	19.127	20.1190
2.250	1.406	31.	20.537	20.834	23.476	19.846	20.8055
2.250	1.406	32.	21.174	21.549	24.195	20.565	21.5490
2.250	1.406	33.	21.811	22.264	24.913	21.283	22.2372
2.250	1.406	34.	22.448	22.979	25.631	22.001	22.9790
2.250	1.406	35.	23.085	23.695	26.350	22.720	23.6697
2.250	1.406	36.	23.722	24.410	27.068	23.438	24.4100
2.250	1.406	37.	24.359	25.125	27.786	24.156	25.1031
2.250	1.406	38.	24.996	25.841	28.503	24.873	25.8410
2.250	1.406	39.	25.633	26.556	29.221	25.591	26.5333
2.250	1.406	40.	26.270	27.271	29.939	26.309	27.2710
2.250	1.406	41.	26.907	27.987	30.657	27.027	27.9654
2.250	1.406	42.	27.544	28.702	31.374	27.744	28.7020
2.250	1.406	43.	28.181	29.418	32.092	28.462	29.3974
2.250	1.406	44.	28.818	30.133	32.809	29.179	30.1330
2.250	1.406	45.	29.455	30.849	33.526	29.896	30.8294
2.250	1.406	46.	30.092	31.565	34.244	30.614	31.5650
2.250	1.406	47.	30.729	32.280	34.961	31.331	32.2612
2.250	1.406	48.	31.366	32.996	35.678	32.048	32.9960
2.250	1.406	49.	32.003	33.712	36.396	32.766	33.6960
2.250	1.406	50.	32.640	34.427	37.113	33.483	34.4270
2.250	1.406	51.	33.277	35.143	37.830	34.200	35.1257
2.250	1.406	52.	33.914	35.858	38.547	34.917	35.8580
2.250	1.406	53.	34.551	36.573	39.264	35.634	36.5730
2.250	1.406	54.	35.188	37.288	39.981	36.351	37.2880
2.250	1.406	55.	35.825	38.003	40.698	37.068	38.0030
2.250	1.406	56.	36.462	38.718	41.415	37.785	38.7180
2.250	1.406	57.	37.099	39.433	42.132	38.502	39.4330
2.250	1.406	58.	37.736	40.148	42.849	39.219	40.1480
2.250	1.406	59.	38.373	40.863	43.566	39.936	40.8630
2.250	1.406	60.	39.010	41.578	44.283	40.653	41.5780
2.250	1.406	61.	39.647	42.293	45.000	41.370	42.2930
2.250	1.406	62.	40.284	43.008	45.717	42.087	43.0080
2.250	1.406	63.	40.921	43.723	46.434	42.804	43.7230
2.250	1.406	64.	41.558	44.438	47.151	43.521	44.4380
2.250	1.406	65.	42.195	45.153	47.868	44.238	45.1530
2.250	1.406	66.	42.832	45.868	48.585	44.955	45.8680
2.250	1.406	67.	43.469	46.583	49.302	45.672	46.5830
2.250	1.406	68.	44.106	47.298	50.019	46.389	47.2980
2.250	1.406	69.	44.743	48.013	50.736	47.106	48.0130
2.250	1.406	70.	45.380	48.728	51.453	47.823	48.7280
2.250	1.406	71.	46.017	49.443	52.170	48.540	49.4430
2.250	1.406	72.	46.654	50.158	52.887	49.257	50.1580
2.250	1.406	73.	47.291	50.873	53.604	49.974	50.8730
2.250	1.406	74.	47.928	51.588	54.321	50.691	51.5880
2.250	1.406	75.	48.565	52.303	55.038	51.408	52.3030
2.250	1.406	76.	49.202	53.018	55.755	52.125	53.0180
2.250	1.406	77.	49.839	53.733	56.472	52.842	53.7330
2.250	1.406	78.	50.476	54.448	57.189	53.559	54.4480
2.250	1.406	79.	51.113	55.163	57.906	54.276	55.1630
2.250	1.406	80.	51.750	55.878	58.623	54.993	55.8780
2.250	1.406	81.	52.387	56.593	59.340	55.710	56.5930
2.250	1.406	82.	53.024	57.308	60.057	56.427	57.3080
2.250	1.406	83.	53.661	58.023	60.774	57.144	58.0230
2.250	1.406	84.	54.298	58.738	61.491	57.861	58.7380
2.250	1.406	85.	54.935	59.453	62.208	58.578	59.4530
2.250	1.406	86.	55.572	60.168	62.925	59.295	60.1680
2.250	1.406	87.	56.209	60.883	63.642	60.012	60.8830
2.250	1.406	88.	56.846	61.598	64.359	60.729	61.5980
2.250	1.406	89.	57.483	62.313	65.076	61.446	62.3130
2.250	1.406	90.	58.120	63.028	65.793	62.163	63.0280
2.250	1.406	91.	58.757	63.743	66.510	62.880	63.7430
2.250	1.406	92.	59.394	64.458	67.227	63.597	64.4580
2.250	1.406	93.	60.031	65.173	67.944	64.314	65.1730
2.250	1.406	94.	60.668	65.888	68.661	65.031	65.8880
2.250	1.406	95.	61.305	66.603	69.378	65.748	66.6030
2.250	1.406	96.	61.942	67.318	70.095	66.465	67.3180
2.250	1.406	97.	62.579	68.033	70.812	67.182	68.0330
2.250	1.406	98.	63.216	68.748	71.529	67.899	68.7480
2.250	1.406	99.	63.853	69.463	72.246	68.616	69.4630
2.250	1.406	100.	64.490	70.178	72.963	69.333	70.1780
2.250	1.406	101.	65.127	70.893	73.680	70.050	70.8930
2.250	1.406	102.	65.764	71.608	74.397	70.767	71.6080
2.250	1.406	103.	66.401	72.323	75.114	71.484	72.3230
2.250	1.406	104.	67.038	73.038	75.831	72.201	73.0380
2.250	1.406	105.	67.675	73.753	76.548	72.918	73.7530
2.250	1.406	106.	68.312	74.468	77.265	73.635	74.4680
2.250	1.406	107.	68.949	75.183	77.982	74.352	75.1830
2.250	1.406	108.	69.586	75.898	78.699	75.069	75.8980
2.250	1.406	109.	70.223	76.613	79.416	75.786	76.6130
2.250	1.406	110.	70.860	77.328	80.133	76.503	77.3280
2.250	1.406	111.	71.497	78.043	80.850	77.220	78.0430
2.250	1.406	112.	72.134	78.758	81.567	77.937	78.7580
2.250	1.406	113.	72.771	79.473	82.284	78.654	79.4730
2.250	1.406	114.	73.408	80.188	83.001	79.371	80.1880
2.250	1.406	115.	74.045	80.903	83.718	80.088	80.9030
2.250	1.406	116.	74.682	81.618	84.435	80.805	81.6180
2.250	1.406	117.	75.319	82.333	85.152	81.522	82.3330
2.250	1.406	118.	75.956	83.048	85.869	82.239	83.0480
2.250	1.406	119.	76.593	83.763	86.586	82.956	83.7630
2.250	1.406	120.	77.230	84.478	87.303	83.673	84.4780
2.250	1.406	121.	77.867	85.193	88.020	84.390	85.1930
2.250	1.406	122.	78.504	85.908	88.737	85.107	85.9080
2.250	1.406	123.	79.141	86.623	89.454	85.824	86.6230
2.250	1.406	124.	79.778	87.338	90.171	86.541	87.3380
2.250	1.406	125.	80.415	88.053	90.888	87.258	88.0530
2.250	1.406	126.	81.052	88.768	91.605	87.975	88.7680
2.250	1.406	127.	81.689	89.483	92.322	88.692	89.4830
2.250	1.406	128.	82.326	90.198	93.039	89.409	90.1980
2.250	1.406	129.	82.963	90.913	93.756	90.126	90.9130
2.250	1.406	130.	83.600	91.628	94.473	90.843	91.6280
2.250	1.406	131.	84.237	92.343	95.190	91.560	92.3430
2.250	1.406	132.	84.874	93.058	95.907	92.277	93.0580
2.250	1.406	133.	85.511	93.773	96.624	92.994	93.7730
2.250	1.406	134.	86.148	94.488	97.341	93.711	94.4880
2.250	1.406	135.	86.785				

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TABLE VI CONTINUED

P	D	N	PD	BD	OD	MHD	CD
2.500	1.562	14.	11.235	9.673	12.453	8.423	9.6730
2.500	1.562	15.	12.024	10.462	13.262	9.232	10.3961
2.500	1.562	16.	12.815	11.253	14.068	10.038	11.2530
2.500	1.562	17.	13.605	12.043	14.874	10.844	11.9850
2.500	1.562	18.	14.397	12.835	15.678	11.648	12.8350
2.500	1.562	19.	15.189	13.627	16.482	12.452	13.5751
2.500	1.562	20.	15.981	14.419	17.284	13.254	14.4190
2.500	1.562	21.	16.774	15.212	18.086	14.056	15.1651
2.500	1.562	22.	17.567	16.005	18.888	14.858	16.0050
2.500	1.562	23.	18.360	16.798	19.689	15.659	16.7982
2.500	1.562	24.	19.153	17.591	20.489	16.459	17.5910
2.500	1.562	25.	19.947	18.385	21.290	17.260	18.3856
2.500	1.562	26.	20.741	19.179	22.089	18.059	19.1790
2.500	1.562	27.	21.534	19.972	22.889	18.859	19.9720
2.500	1.562	28.	22.329	20.767	23.688	19.658	20.7670
2.500	1.562	29.	23.123	21.561	24.487	20.457	21.5611
2.500	1.562	30.	23.917	22.355	25.286	21.256	22.3550
2.500	1.562	31.	24.711	23.149	26.085	22.055	23.1493
2.500	1.562	32.	25.506	23.944	26.883	22.853	23.9440
2.500	1.562	33.	26.300	24.738	27.681	23.651	24.7382
2.500	1.562	34.	27.095	25.533	28.479	24.449	25.5330
2.500	1.562	35.	27.890	26.328	29.277	25.247	26.3280
2.500	1.562	36.	28.684	27.122	30.075	26.045	27.1220
2.500	1.562	37.	29.479	27.917	30.873	26.843	27.9170
2.500	1.562	38.	30.274	28.712	31.671	27.641	28.7120
2.500	1.562	39.	31.069	29.507	32.468	28.438	29.5070
2.500	1.562	40.	31.864	30.302	33.266	29.236	30.3020
2.500	1.562	41.	32.659	31.097	34.063	30.033	31.0970
2.500	1.562	42.	33.454	31.892	34.860	30.830	31.8920
2.500	1.562	43.	34.249	32.687	35.657	31.627	32.6870
2.500	1.562	44.	35.044	33.482	36.455	32.425	33.4820
2.500	1.562	45.	35.839	34.277	37.252	33.222	34.2770
2.500	1.562	46.	36.634	35.072	38.049	34.019	35.0720
2.500	1.562	47.	37.429	35.867	38.846	34.816	35.8670
2.500	1.562	48.	38.224	36.662	39.643	35.613	36.6620
2.500	1.562	49.	39.020	37.458	40.440	36.410	37.4580
2.500	1.562	50.	39.815	38.253	41.236	37.206	38.2530
2.500	1.562	51.	40.610	39.048	42.033	38.003	39.0480
2.500	1.562	52.	41.405	39.843	42.830	38.800	39.8430
2.500	1.562	53.	42.201	40.639	43.627	39.597	40.6390
2.500	1.562	54.	42.996	41.434	44.423	40.393	41.4340
2.500	1.562	55.	43.791	42.229	45.220	41.190	42.2290
2.500	1.562	56.	44.587	43.025	46.017	41.987	43.0250
2.500	1.562	57.	45.382	43.820	46.813	42.783	43.8208
2.500	1.562	58.	46.178	44.616	47.610	43.580	44.6160
2.500	1.562	59.	46.973	45.411	48.406	44.376	45.4110
2.500	1.562	60.	47.768	46.206	49.203	45.173	46.2060
2.500	1.562	61.	48.564	47.002	49.999	45.969	46.9990
2.500	1.562	62.	49.359	47.797	50.796	46.766	47.7970
2.500	1.562	63.	50.155	48.593	51.592	47.562	48.5930
2.500	1.562	64.	50.950	49.388	52.389	48.359	49.3880
2.500	1.562	65.	51.746	50.184	53.185	49.155	50.1840
2.500	1.562	66.	52.541	50.979	53.981	49.951	50.9790
2.500	1.562	67.	53.336	51.774	54.778	50.748	51.7740
2.500	1.562	68.	54.132	52.570	55.574	51.544	52.5700
2.500	1.562	69.	54.927	53.365	56.371	52.341	53.3650
2.500	1.562	70.	55.723	54.161	57.167	53.137	54.1610
2.500	1.562	71.	56.518	54.956	57.963	53.933	54.9560
2.500	1.562	72.	57.314	55.752	58.759	54.729	55.7520
2.500	1.562	73.	58.109	56.547	59.556	55.526	56.5470
2.500	1.562	74.	58.905	57.343	60.352	56.322	57.3430
2.500	1.562	75.	59.701	58.139	61.148	57.118	58.1390
2.500	1.562	76.	60.496	58.934	61.944	57.914	58.9340
2.500	1.562	77.	61.292	59.730	62.741	58.711	59.7300
2.500	1.562	78.	62.088	60.525	63.537	59.507	60.5250
2.500	1.562	79.	62.883	61.321	64.333	60.303	61.3210
2.500	1.562	80.	63.678	62.116	65.129	61.099	62.1160
2.500	1.562	81.	64.474	62.912	65.925	61.895	62.9120
2.500	1.562	82.	65.269	63.707	66.722	62.692	63.7070
2.500	1.562	83.	66.065	64.503	67.518	63.488	64.5030
2.500	1.562	84.	66.861	65.299	68.314	64.284	65.2990
2.500	1.562	85.	67.656	66.094	69.110	65.080	66.0940
2.500	1.562	86.	68.452	66.890	69.906	65.876	66.8900
2.500	1.562	87.	69.247	67.685	70.702	66.672	67.6850
2.500	1.562	88.	70.043	68.481	71.498	67.468	68.4810
2.500	1.562	89.	70.839	69.277	72.295	68.265	69.2770
2.500	1.562	90.	71.634	70.072	73.091	69.061	70.0720
2.500	1.562	91.	72.430	70.868	73.887	69.857	70.8680
2.500	1.562	92.	73.226	71.664	74.683	70.653	71.6640
2.500	1.562	93.	74.021	72.459	75.479	71.449	72.4590
2.500	1.562	94.	74.817	73.255	76.275	72.245	73.2550
2.500	1.562	95.	75.612	74.050	77.071	73.041	74.0500
2.500	1.562	96.	76.408	74.846	77.867	73.837	74.8460
2.500	1.562	97.	77.204	75.642	78.663	74.633	75.6420
2.500	1.562	98.	77.999	76.437	79.459	75.429	76.4370
2.500	1.562	99.	78.795	77.233	80.255	76.225	77.2330
2.500	1.562	100.	79.591	78.029	81.051	77.021	78.0290
3.000	1.875	8.	7.839	5.964	9.043	4.213	5.9640
3.000	1.875	9.	8.771	6.896	10.042	5.212	6.7627
3.000	1.875	10.	9.708	7.833	11.035	6.203	7.8330
3.000	1.875	11.	10.648	8.773	12.017	7.187	8.6646
3.000	1.875	12.	11.591	9.716	12.996	8.166	9.7160
3.000	1.875	13.	12.536	10.661	13.971	9.141	10.5696
3.000	1.875	14.	13.482	11.607	14.944	10.114	11.6070
3.000	1.875	15.	14.429	12.554	15.914	11.084	12.4750
3.000	1.875	16.	15.377	13.502	16.882	12.052	13.5020
3.000	1.875	17.	16.327	14.452	17.849	13.019	14.3824
3.000	1.875	18.	17.276	15.401	18.814	13.984	15.4010
3.000	1.875	19.	18.227	16.352	19.778	14.948	16.2897
3.000	1.875	20.	19.177	17.302	20.741	15.911	17.3020
3.000	1.875	21.	20.129	18.254	21.704	16.874	18.1977
3.000	1.875	22.	21.080	19.205	22.665	17.835	19.2050
3.000	1.875	23.	22.032	20.157	23.627	18.797	20.1056
3.000	1.875	24.	22.984	21.109	24.587	19.757	21.1090
3.000	1.875	25.	23.936	22.061	25.547	20.717	22.0138
3.000	1.875	26.	24.889	23.014	26.507	21.677	23.0138
3.000	1.875	27.	25.841	23.966	27.467	22.637	23.9223
3.000	1.875	28.	26.794	24.919	28.426	23.596	24.9190
3.000	1.875	29.	27.747	25.872	29.385	24.555	25.8720
3.000	1.875	30.	28.700	26.825	30.343	25.513	26.8250

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TABLE VI CONTINUED

P	D	N	PD	BD	OD	MHD	CD
3.000	1.875	31.	29.654	27.779	31.301	26.471	27.7609
3.000	1.875	32.	30.607	28.732	32.260	27.430	28.7320
3.000	1.875	33.	31.560	29.685	33.217	28.387	29.6493
3.000	1.875	34.	32.514	30.639	34.175	29.345	30.6390
3.000	1.875	35.	33.467	31.592	35.133	30.303	31.5983
3.000	1.875	36.	34.421	32.546	36.090	31.260	32.5460
3.000	1.875	37.	35.375	33.500	37.047	32.217	33.4681
3.000	1.875	38.	36.329	34.454	38.005	33.175	34.4540
3.000	1.875	39.	37.283	35.408	38.962	34.132	35.3778
3.000	1.875	40.	38.236	36.361	39.919	35.089	36.3610
3.000	1.875	41.	39.190	37.315	40.875	36.045	37.2862
3.000	1.875	42.	40.144	38.269	41.832	37.002	38.2690
3.000	1.875	43.	41.099	39.224	42.789	37.959	39.1966
3.000	1.875	44.	42.053	40.178	43.745	38.915	40.1780
3.000	1.875	45.	43.007	41.132	44.702	39.872	41.1358
3.000	1.875	46.	43.961	42.086	45.658	40.828	42.0860
3.000	1.875	47.	44.915	43.040	46.615	41.785	43.0149
3.000	1.875	48.	45.869	43.994	47.571	42.741	43.9940
3.000	1.875	49.	46.824	44.949	48.527	43.697	44.9249
3.000	1.875	50.	47.778	45.903	49.484	44.654	45.9030
3.000	1.875	51.	48.732	46.857	50.440	45.610	46.8339
3.000	1.875	52.	49.687	47.812	51.396	46.566	47.8120
3.000	1.875	53.	50.641	48.766	52.352	47.522	48.7438
3.000	1.875	54.	51.595	49.720	53.308	48.478	49.7200
3.000	1.875	55.	52.550	50.675	54.264	49.434	50.6536
3.000	1.875	56.	53.504	51.629	55.220	50.390	51.6290
3.000	1.875	57.	54.459	52.584	56.176	51.346	52.5633
3.000	1.875	58.	55.413	53.538	57.132	52.302	53.5380
3.000	1.875	59.	56.367	54.492	58.088	53.258	54.4720
3.000	1.875	60.	57.322	55.447	59.043	54.213	55.4470
3.000	1.875	61.	58.276	56.401	59.999	55.169	56.3817
3.000	1.875	62.	59.231	57.356	60.955	56.125	57.3560
3.000	1.875	63.	60.186	58.311	61.911	57.081	58.2923
3.000	1.875	64.	61.140	59.265	62.866	58.036	59.2650
3.000	1.875	65.	62.095	60.220	63.822	58.992	60.2019
3.000	1.875	66.	63.049	61.174	64.778	59.948	61.1740
3.000	1.875	67.	64.004	62.129	65.733	60.903	62.1114
3.000	1.875	68.	64.958	63.083	66.689	61.859	63.0830
3.000	1.875	69.	65.913	64.038	67.645	62.815	64.0209
3.000	1.875	70.	66.868	64.993	68.600	63.770	64.9930
3.000	1.875	71.	67.822	65.947	69.556	64.726	65.9304
3.000	1.875	72.	68.777	66.902	70.511	65.681	66.9020
3.000	1.875	73.	69.731	67.856	71.467	66.637	67.8399
3.000	1.875	74.	70.686	68.811	72.422	67.592	68.8110
3.000	1.875	75.	71.641	69.766	73.378	68.548	69.7503
3.000	1.875	76.	72.595	70.720	74.333	69.503	70.7200
3.000	1.875	77.	73.550	71.675	75.289	70.459	71.6597
3.000	1.875	78.	74.505	72.630	76.244	71.414	72.6300
3.000	1.875	79.	75.459	73.584	77.200	72.370	73.5691
3.000	1.875	80.	76.414	74.539	78.155	73.325	74.5390
3.000	1.875	81.	77.369	75.494	79.111	74.281	75.4795
3.000	1.875	82.	78.323	76.448	80.066	75.236	76.4480
3.000	1.875	83.	79.278	77.403	81.021	76.191	77.3888
3.000	1.875	84.	80.233	78.358	81.977	77.147	78.3580
3.000	1.875	85.	81.188	79.313	82.932	78.102	79.2991

P	D	N	PD	BD	OD	MHD	CD
3.000	1.875	86.	82.142	80.267	83.887	79.057	80.2670
3.000	1.875	87.	83.097	81.222	84.843	80.013	81.2085
3.000	1.875	88.	84.052	82.177	85.798	80.968	82.1770
3.000	1.875	89.	85.006	83.131	86.753	81.923	83.1178
3.000	1.875	90.	85.961	84.086	87.709	82.879	84.0860
3.000	1.875	91.	86.916	85.041	88.664	83.834	85.0281
3.000	1.875	92.	87.871	85.996	89.619	84.789	85.9960
3.000	1.875	93.	88.825	86.950	90.575	85.745	86.9373
3.000	1.875	94.	89.780	87.905	91.530	86.700	87.9050
3.000	1.875	95.	90.735	88.860	92.485	87.655	88.8476
3.000	1.875	96.	91.690	89.815	93.441	88.611	89.8150
3.000	1.875	97.	92.644	90.769	94.396	89.566	90.7569
3.000	1.875	98.	93.599	91.724	95.351	90.521	91.7240
3.000	1.875	99.	94.554	92.679	96.306	91.476	92.6671
3.000	1.875	100.	95.509	93.634	97.262	92.432	93.6340



## 3. SPROCKET WHEELS FOR ROLLER CHAINS STANDARD ROLLER SERIES(ASA B29.4) MIL-STD-423.

Sprockets for double-pitch chains may have one or two sets of effective teeth i.e., teeth which engage chain rollers in one revolution of the sprocket. A sprocket having two sets of effective teeth is illustrated in Figure 17. Such a sprocket is known as a double-cut. Tooth spaces for the second set of teeth are located midway between those of the first set and are represented by dotted lines in Figure 19.

A sprocket is single-cut if it has only one set of effective teeth (see Figure 18).

Double-cut sprockets with an odd number of actual teeth, such as 21, and therefore with half as many effective teeth (10-1/2), provide automatic "hunting", each actual tooth engaging a chain roller once during two revolutions of such sprocket.

Double-cut sprockets with an even number of actual teeth have an integral number of effective teeth and cannot provide automatic "hunting" because only one set of effective teeth can engage chain rollers, however many revolutions of the sprockets may be made. Manual shifting of the chain by 1/2 effective tooth is necessary to provide distribution of wear to previously inactive set of teeth.

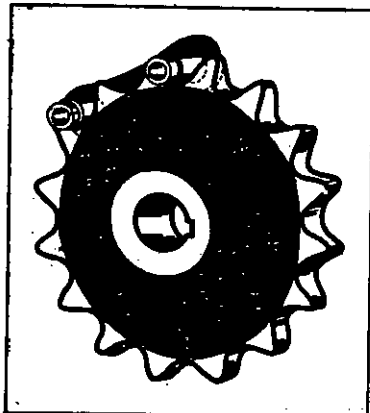


FIGURE 17  
DOUBLE-CUT SPROCKET

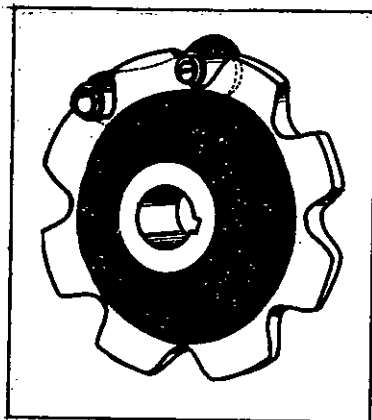


FIGURE 18  
SINGLE-CUT SPROCKET

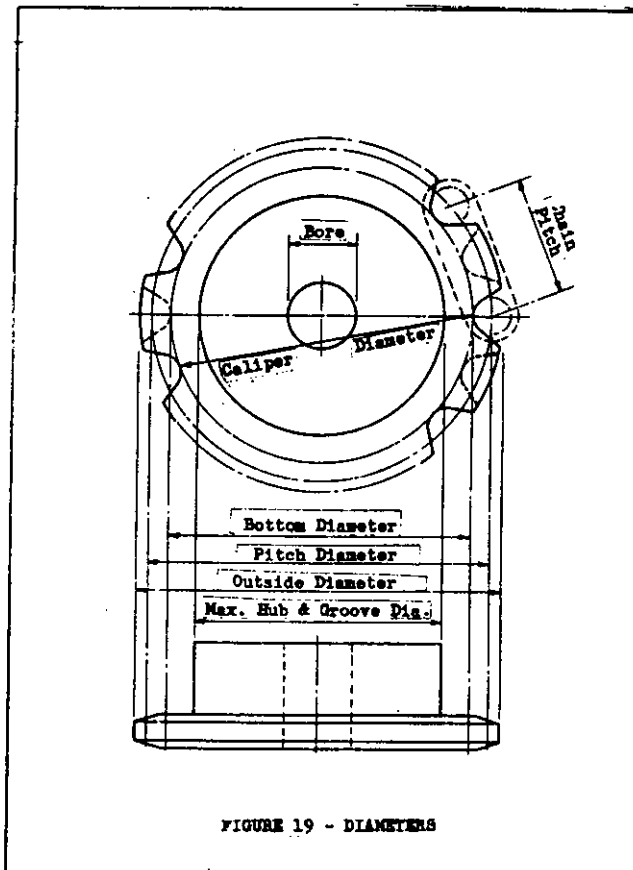


FIGURE 19 - DIAMETERS

## LEGEND

P = Chain Pitch  
PD = Pitch Diameter  
BD = Bottom Diameter  
CD = Caliper Diameter  
D = Roller Diameter  
BD = PD - D

$$PD = \frac{P}{\sin 180^\circ / NE}$$

N = Total number of teeth on double-cut sprockets.

NE = Number of effective teeth

$$NE = \frac{N}{2}$$

NE = Total number of teeth on single-cut sprockets for double-pitch chains

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**A. DIAMETER**

- \* CD, single-cut, if  $NE$  is an odd number =  $PD \left( \cos \frac{90^\circ}{N} \right) - D$
- \*\* CD, single-cut, if  $NE$  is an even number =  $PD - D = ED$
- \* CD, double-cut, if  $NE$  is a fractional number =  $PD \left( \cos \frac{45^\circ}{N} \right) - D$
- \*\* CD, double-cut whether  $NE$  is an odd or even number =  $PD - D = ED$

Tolerances on bottom or caliper diameter of sprockets:

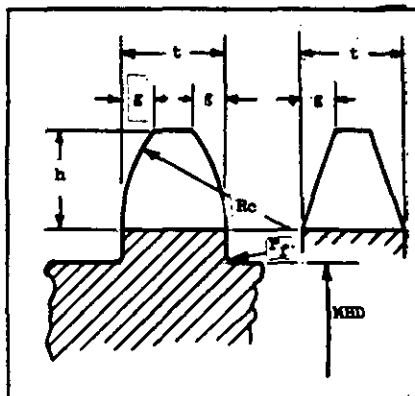
Plus tolerance 0.000

 Minus tolerance  $0.001 \sqrt{P + 0.003}$ 

 Approximate Outside Diameter of Sprocket =  $PD + \frac{P}{2} \left( 0.6 - \tan \frac{90^\circ}{NE} \right)$ 

 Maximum Hub Diameter (MHD) of Sprockets =  $P \left( \cot \frac{180^\circ}{NE} - 0.5 \right) - .030$ 

- \* These caliper diameters are measured across any two tooth spaces that are most nearly diametrically opposite to each other.
- \*\* These caliper diameters are measured across any two tooth spaces that are exactly diametrically opposite to each other.

**B. SPROCKET TOOTH SECTION PROFILE**


\*\*\* FIGURE 20 - TOOTH PROFILE

The section profile shows the recommended chamfering of sprocket teeth.

 $W$  = Chain Width  
 $t = 0.93W - 0.006$  (Maximum)

MHD = Maximum Hub Diameter

 Tolerance on  $t$  when machined = Plus zero, minus  $(.01W + .006)$ .

 $h = .25 P$  = Depth of chamfer  
 $g = 1/16 P$  approximately (but not to exceed  $\frac{W}{3}$ )

 $Rc \text{ min.} = .532 P$  (approximately tangent to side) = Chamfer radius.

 $rf \text{ max.} = .02 P$  for maximum hub diameter (but not to exceed .040) = Fillet radius.

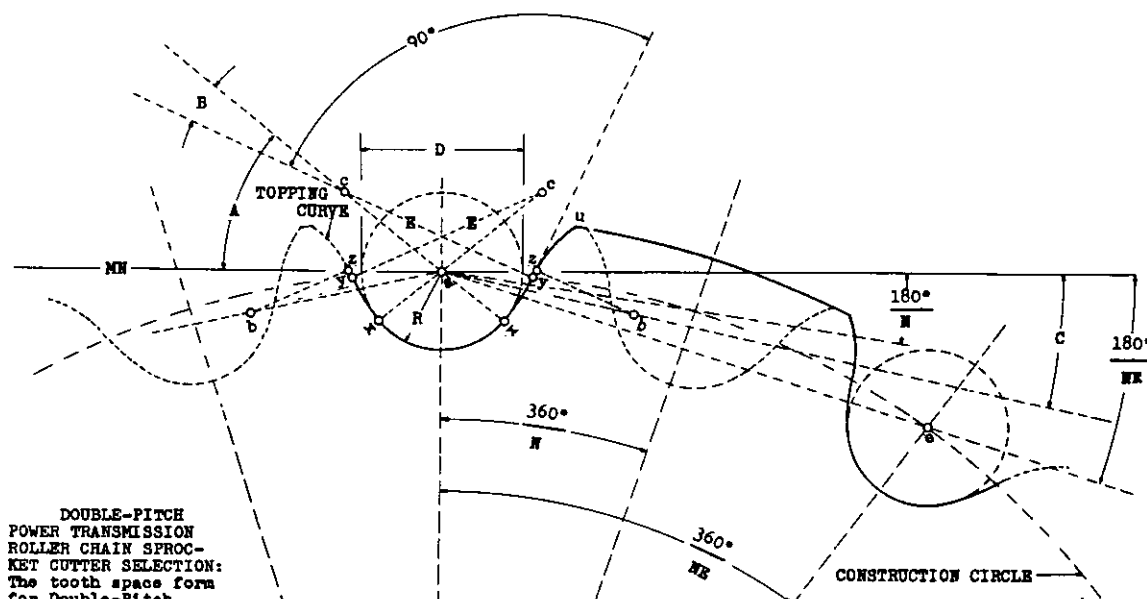
\*\*\* Flange chamfer may be radial, straight, or anything in between.

TABLE VII - SPROCKET TOOTH SECTION PROFILE DIMENSIONS (In Inches)

ASA Chain No.	Pitch (P)	Width of Chain (W)	Maximum Sprocket Thickness (t)	*Minus Tolerance on (t)	Depth of Chamfer (h)	Width of Chamfer (g)	Minimum Radius (Rc)
2040 C-2040	1	5/16	.264	.009	1/4	1/16	0.531
2050 C-2050	1-1/4	3/8	.343	.010	5/16	5/64	0.664
2060 C-2060	1-1/2	1/2	.459	.011	3/8	3/32	0.796
2080 C-2080	2	5/8	.575	.012	1/2	1/8	1.062
2100 C-2100	2-1/2	3/4	.692	.014	5/8	5/32	1.327
2120 C-2120	3	1	.924	.016	3/4	3/16	1.593
C-2160	4	1-1/4	1.156	.019	1	1/4	2.124

\*When machined

## C. TOOTH FORM



**DOUBLE-PITCH POWER TRANSMISSION ROLLER CHAIN SPROCKET CUTTER SELECTION:**  
The tooth space form for Double-Pitch Chain sprockets is basically the same as that for the respective base chain series, i.e. ASA Chains B29.1. Therefore the same cutters and hobs are used for cutting the tooth form for both the single-pitch and the double-pitch chains.

When cutting Double-Pitch sprockets with a tooth space cutter, it is necessary to use the space cutter for the base chain series but having the next higher range of teeth than the number of teeth to be cut.

Example: 15 Teeth No. 2080 -- A No. 80 space cutter having a range of 18-34 teeth should be used instead of the 12-17 tooth range.

When cutting Double-Pitch sprockets with a base chain hob or Fellows cutter, it is necessary to cut an extra set or a double number of teeth resulting in two "sets" of teeth. The chain will engage with only one set of teeth. In this regard, see explanation at top of page 25.

The determination of angle C, above, and the layout of this angle depends on how the tooth form is to be cut. With a standard space cutter or with a standard hob. If the tooth form is to be cut with a standard space cutter angle C equals 180 degrees divided by a factor NEx shown in Table 8.

If the tooth form is to be cut with a standard hob, angle C equals 180 degrees divided by  $2 \times NE$  or N. The tooth form drawn based on this angle presumes a pitch diameter for a standard single pitch sprocket of N number of teeth, while the hob will actually cut a pitch diameter specified slightly larger for a double pitch sprocket. Therefore, the theoretical and actual tooth forms will differ slightly.

Draw line MN. Locate a convenient point a on the line MN. With a as a center, a radius ax equal to  $1/2D$ , draw a circular arc for the "seating curve" xx.

Draw line ya perpendicular to line oy. Draw line ab making angle C with line MN, and locate point b so that  $ab = 1.4D$ . Draw line by parallel to line oy. With b as a center and a radius by, draw the "topping curve" arc ut tangent to line ya.

A similar construction for the other half will complete the tooth outline.

## LEGEND

P = Chain Pitch  
D = Nominal Roller Diameter  
N = Total number of teeth on double-cut sprockets  
NE = Number of effective teeth  
 $NE = \frac{N}{2}$   
NE = Total number of teeth on single-cut sprockets for double pitch chains  
CCR = Construction circle radius  
Ds = Seating curve diameter  
 $= 1.005D + 0.003$  inches  
R = Seating curve radius  
 $R = \frac{Ds}{2}$   
 $A = 35^\circ + \frac{60^\circ}{NEx}$   
 $B = 18^\circ - \frac{56^\circ}{NEx}$   
 $C = \frac{180^\circ}{NEx}$   
 $ac = 0.8D$

To determine other dimensions such as CCR and distance E, from c to y, see page 7.

TABLE VIII - SPROCKET TOOTH FACTORS

TABLE 8		
N	NE	NEx
10	5	7.47
11	5-1/2	7.47
12	6	7.47
13	6-1/2	7.47
14	7	9.9
15	7-1/2	9.9
16	8	9.9
17	8-1/2	9.9
18	9	14.07
19	9-1/2	14.07
20	10	14.07
21	10-1/2	14.07
22	11	14.07
23	11-1/2	14.07
24	12	23.54
25	12-1/2	23.54
26	13	23.54
27	13-1/2	23.54
28	14	23.54
29	14-1/2	23.54
30	15	23.54
31	15-1/2	23.54
32	16	23.54
33	16-1/2	23.54
34	17	23.54
35	17-1/2	23.54
36 and over	18 and over	56

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 TABLE IX - TECHNICAL CHARACTERISTICS FOR SPROCKET WHEELS FOR ROLLER CHAINS STANDARD  
 ROLLER SERIES (ASA B29.4) MIL-STD-423.

P	D	NE	PD	BD	OD	MHD	CO-1	CO-2
1.000	.312	5.0	1.701	1.389	1.839	.866	1.3057	1.3890
1.000	.312	5.5	1.850	1.538	2.003	1.026	1.4680	1.5192
1.000	.312	6.0	2.000	1.688	2.166	1.202	1.6880	1.6880
1.000	.312	6.5	2.152	1.840	2.329	1.375	1.8223	1.8223
1.000	.312	7.0	2.305	1.993	2.491	1.567	1.9352	1.9930
1.000	.312	7.5	2.459	2.147	2.653	1.716	2.1335	2.1335
1.000	.312	8.0	2.613	2.301	2.816	1.884	2.3010	2.3010
1.000	.312	8.5	2.768	2.456	2.975	2.031	2.4642	2.4642
1.000	.312	9.0	2.924	2.612	3.136	2.217	2.5676	2.6120
1.000	.312	9.5	3.080	2.768	3.297	2.383	2.7575	2.7575
1.000	.312	10.0	3.236	2.924	3.457	2.548	2.9240	2.9240
1.000	.312	10.5	3.393	3.081	3.618	2.712	3.0715	3.0715
1.000	.312	11.0	3.549	3.237	3.777	2.876	3.2009	3.2009
1.000	.312	11.5	3.706	3.394	3.937	3.039	3.3854	3.3854
1.000	.312	12.0	3.864	3.552	4.098	3.202	3.5520	3.5520
1.000	.312	12.5	4.021	3.709	4.258	3.365	3.7011	3.7011
1.000	.312	13.0	4.179	3.867	4.418	3.527	3.8365	3.8365
1.000	.312	13.5	4.336	4.024	4.578	3.689	4.0167	4.0167
1.000	.312	14.0	4.494	4.182	4.738	3.851	4.1820	4.1820
1.000	.312	14.5	4.652	4.340	4.898	4.013	4.3332	4.3332
1.000	.312	15.0	4.810	4.498	5.057	4.175	4.4717	4.4980
1.000	.312	15.5	4.968	4.656	5.217	4.336	4.6496	4.6496
1.000	.312	16.0	5.126	4.814	5.377	4.497	4.8140	4.8140
1.000	.312	16.5	5.284	4.972	5.536	4.658	4.9660	4.9660
1.000	.312	17.0	5.442	5.130	5.696	4.820	5.1300	5.1300
1.000	.312	17.5	5.600	5.288	5.855	4.980	5.2824	5.2824
1.000	.312	18.0	5.759	5.447	6.015	5.141	5.4470	5.4470
1.000	.312	18.5	5.917	5.605	6.174	5.302	5.5997	5.5997
1.000	.312	19.0	6.076	5.764	6.335	5.463	5.7640	5.7640
1.000	.312	19.5	6.234	5.922	6.494	5.624	5.9169	5.9169
1.000	.312	20.0	6.392	6.080	6.653	5.784	6.0800	6.0800
1.000	.312	20.5	6.551	6.239	6.813	5.944	6.2342	6.2342
1.000	.312	21.0	6.710	6.398	6.973	6.105	6.3792	6.3792
1.000	.312	21.5	6.868	6.556	7.131	6.265	6.5140	6.5140
1.000	.312	22.0	7.027	6.715	7.291	6.425	6.7150	6.7150
1.000	.312	22.5	7.185	6.873	7.450	6.585	6.8686	6.8686
1.000	.312	23.0	7.344	7.032	7.610	6.746	7.0149	7.0149
1.000	.312	23.5	7.503	7.191	7.770	6.906	7.1888	7.1888
1.000	.312	24.0	7.661	7.349	7.928	7.066	7.3490	7.3490
1.000	.312	24.5	7.820	7.508	8.086	7.226	7.5080	7.5080
1.000	.312	25.0	7.979	7.667	8.245	7.386	7.6670	7.6670
1.000	.312	25.5	8.137	7.825	8.404	7.546	7.8211	7.8211
1.000	.312	26.0	8.296	7.984	8.562	7.706	7.9840	7.9840
1.000	.312	26.5	8.455	8.143	8.721	7.866	8.1430	8.1430
1.000	.312	27.0	8.614	8.302	8.880	8.026	8.2874	8.2874
1.000	.312	27.5	8.773	8.461	9.044	8.185	8.4574	8.4574
1.000	.312	28.0	8.931	8.619	9.203	8.345	8.6190	8.6190
1.000	.312	28.5	9.090	8.778	9.362	8.505	8.7785	8.7785
1.000	.312	29.0	9.249	8.937	9.521	8.665	8.9370	8.9370
1.000	.312	29.5	9.408	9.096	9.681	8.825	9.0960	9.0960
1.000	.312	30.0	9.567	9.255	9.841	8.984	9.2550	9.2550
1.000	.312	30.5	9.726	9.414	10.000	9.144	9.4108	9.4108
1.000	.312	31.0	9.885	9.573	10.160	9.304	9.5730	9.5730
1.000	.312	31.5	10.043	9.731	10.318	9.463	9.7279	9.7279
1.000	.312	32.0	10.202	9.890	10.477	9.623	9.8900	9.8900
1.000	.312	32.5	10.361	10.049	10.637	9.783	10.0490	10.0490
1.000	.312	33.0	10.520	10.208	10.796	9.942	10.2080	10.2080
1.000	.312	33.5	10.679	10.367	10.956	10.102	10.3670	10.3670
1.000	.312	34.0	10.838	10.526	11.115	10.262	10.5260	10.5260
1.000	.312	34.5	10.997	10.685	11.274	10.421	10.6850	10.6850
1.000	.312	35.0	11.156	10.844	11.434	10.581	10.8440	10.8440
1.000	.312	35.5	11.315	11.003	11.593	10.740	11.0030	11.0030
1.000	.312	36.0	11.474	11.162	11.752	10.900	11.1620	11.1620
1.000	.312	36.5	11.633	11.321	11.911	11.059	11.3210	11.3210
1.000	.312	37.0	11.792	11.480	12.070	11.218	11.4800	11.4800
1.000	.312	37.5	11.951	11.639	12.229	11.377	11.6390	11.6390
1.000	.312	38.0	12.110	11.798	12.388	11.536	11.7980	11.7980
1.000	.312	38.5	12.269	11.957	12.547	11.695	11.9570	11.9570
1.000	.312	39.0	12.428	12.116	12.706	11.854	12.1160	12.1160
1.000	.312	39.5	12.587	12.275	12.865	12.013	12.2750	12.2750
1.000	.312	40.0	12.746	12.434	13.024	12.172	12.4340	12.4340
1.000	.312	40.5	12.905	12.593	13.183	12.331	12.5930	12.5930
1.000	.312	41.0	13.064	12.752	13.342	12.490	12.7520	12.7520
1.000	.312	41.5	13.223	12.911	13.501	12.649	12.9110	12.9110
1.000	.312	42.0	13.382	13.070	13.660	12.808	13.0700	13.0700
1.000	.312	42.5	13.541	13.229	13.819	12.967	13.2290	13.2290
1.000	.312	43.0	13.700	13.388	13.978	13.126	13.3880	13.3880
1.000	.312	43.5	13.859	13.547	14.137	13.285	13.5470	13.5470
1.000	.312	44.0	14.018	13.706	14.296	13.444	13.7060	13.7060
1.000	.312	44.5	14.177	13.865	14.455	13.603	13.8650	13.8650
1.000	.312	45.0	14.336	14.024	14.614	13.762	14.0240	14.0240
1.000	.312	45.5	14.495	14.183	14.773	13.921	14.1830	14.1830
1.000	.312	46.0	14.654	14.342	14.932	14.080	14.3420	14.3420
1.000	.312	46.5	14.813	14.501	15.091	14.239	14.5010	14.5010
1.000	.312	47.0	14.972	14.660	15.250	14.398	14.6600	14.6600
1.000	.312	47.5	15.131	14.819	15.409	14.557	14.8190	14.8190
1.000	.312	48.0	15.290	14.978	15.568	14.716	14.9780	14.9780
1.000	.312	48.5	15.449	15.137	15.727	14.875	15.1370	15.1370
1.000	.312	49.0	15.608	15.296	15.886	15.034	15.2960	15.2960
1.000	.312	49.5	15.767	15.455	16.045	15.193	15.4550	15.4550
1.000	.312	50.0	15.926	15.614	16.204	15.352	15.6140	15.6140
1.000	.312	50.5	16.085	15.773	16.363	15.511	15.7730	15.7730
1.000	.312	51.0	16.244	15.932	16.522	15.670	15.9320	15.9320
1.000	.312	51.5	16.403	16.091	16.681	15.829	16.0910	16.0910
1.000	.312	52.0	16.562	16.250	16.840	15.988	16.2500	16.2500
1.000	.312	52.5	16.721	16.409	17.000	16.147	16.4090	16.4090
1.000	.312	53.0	16.880	16.568	17.159	16.306	16.5680	16.5680
1.000	.312	53.5	17.039	16.727	17.318	16.465	16.7270	16.7270
1.000	.312	54.0	17.198	16.886	17.477	16.624	16.8860	16.8860
1.000	.312	54.5	17.357	17.045	17.636	16.783	17.0450	17.0450
1.000	.312	55.0	17.516	17.204	17.795	16.942	17.2040	17.2040
1.000	.312	55.5	17.675	17.363	17.954	17.101	17.3630	17.3630
1.000	.312	56.0	17.834	17.522	18.113	17.260	17.5220	17.5220
1.000	.312	56.5	17.993	17.681	18.272	17.419	17.6810	17.6810
1.000	.312	57.0	18.152	17.840	18.431	17.578	17.8400	17.8400
1.000	.312	57.5	18.311	18.000	18.590	17.737	18.0000	18.0000
1.000	.312	58.0	18.470	18.159	18.749	17.896	18.1590	18.1590
1.000	.312	58.5	18.629	18.318	18.908	18.055	18.3180	18.3180
1.000	.312	59.0	18.788	18.477	19.067	18.214	18.4770	18.4770
1.000	.312	59.5	18.947	18.636	19.226	18.373	18.6360	18.6360
1.000	.312	60.0	19.106	18.795	19.385	18.532	18.7950	18.7950
1.000	.312	60.5	19.265	18.954	19.544	18.691	18.9540	18.9540
1.000	.312	61.0	19.424	19.113	19.703	18.850	19.1130	19.1130
1.000	.312	61.5	19.583	19.272	19.862	19.009	19.2720	19.2720
1.000	.312	62.0	19.742	19.431	20.021	19.168	19.4310	19.4310
1.000	.312	62.5	19.901	19.590	20.180	19.327	19.5900	19.5900
1.000	.312	63.0	20.060	19.749	20.339	19.486	19.7490	19.7490
1.000	.312	63.5	20.219	19.908	20.498	19.645	19.9080	19.9080
1.000	.312	64.0	20.378	20.067	20.657	19.804	20.0670	20.0670
1.000	.312	64.5	20.537	20.226	20.816	19.963	20.2260	20.2260
1.000	.312	65.0	20.696	20.385	20.975	20.122	20.3850	20.3850
1.000	.312	65.5	20.855	20.544	21.134	20.281	20.5440	20.5440
1.000	.312	66.0	21.014	20.703	21.293	20.440	20.7030	20.7030
1.000	.312	66.5	21.173	20.				

**TABLE II CONTINUED**

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
1.000	.312	68.0	21.653	21.341	21.941	21.100	21.3410	21.3410
1.000	.312	68.5	21.812	21.500	22.101	21.259	21.3410	21.4986
1.000	.312	69.0	21.971	21.659	22.260	21.618	21.6533	21.4986
1.000	.312	69.5	22.130	21.818	22.419	21.577	21.6533	21.6590
1.000	.312	70.0	22.289	21.977	22.578	21.737	21.9770	21.8166
1.000	.312	70.5	22.448	22.136	22.737	21.896	21.9770	21.9770
1.000	.312	71.0	22.607	22.295	22.896	22.055	22.2895	22.1346
1.000	.312	71.5	22.766	22.454	23.055	22.215	22.2895	22.2950
1.000	.312	72.0	22.926	22.614	23.215	22.374	22.6140	22.4526
1.000	.312	72.5	23.085	22.773	23.374	22.533	22.6140	22.6140
1.000	.312	73.0	23.244	22.932	23.533	22.692	22.9266	22.7716
1.000	.312	73.5	23.403	23.091	23.692	22.852	22.9266	22.9266
1.000	.312	74.0	23.562	23.250	23.851	23.011	23.2500	23.0897
1.000	.312	74.5	23.721	23.409	24.010	23.170	23.2500	23.2500
1.000	.312	75.0	23.880	23.568	24.170	23.329	23.5628	23.4077
1.000	.312	75.5	24.039	23.727	24.329	23.489	23.5628	23.5628
1.000	.312	76.0	24.198	23.886	24.488	23.648	23.8860	23.7257
1.000	.312	76.5	24.358	24.046	24.648	23.807	23.8860	23.8860
1.000	.312	77.0	24.517	24.205	24.807	23.966	24.1999	24.0467
1.000	.312	77.5	24.676	24.364	24.966	24.126	24.1999	24.2050
1.000	.312	78.0	24.835	24.523	25.125	24.285	24.5230	24.3627
1.000	.312	78.5	24.994	24.682	25.284	24.444	24.5230	24.5230
1.000	.312	79.0	25.153	24.841	25.443	24.603	24.8410	24.6807
1.000	.312	79.5	25.312	25.000	25.602	24.762	24.8410	24.8410
1.000	.312	80.0	25.471	25.159	25.761	24.922	25.1590	24.9988
1.000	.312	80.5	25.630	25.318	25.920	25.081	25.1590	25.1590
1.000	.312	81.0	25.789	25.478	26.080	25.240	25.4732	25.3168
1.000	.312	81.5	25.949	25.637	26.239	25.399	25.4732	25.4732
1.000	.312	82.0	26.108	25.796	26.398	25.559	25.7960	25.6358
1.000	.312	82.5	26.267	25.955	26.557	25.718	25.7960	25.7960
1.000	.312	83.0	26.426	26.114	26.717	25.877	26.1093	25.9538
1.000	.312	83.5	26.585	26.273	26.876	26.036	26.1093	26.1093
1.000	.312	84.0	26.744	26.432	27.035	26.196	26.4320	26.2718
1.000	.312	84.5	26.903	26.591	27.194	26.355	26.4320	26.4320
1.000	.312	85.0	27.063	26.751	27.354	26.514	26.7464	26.5898
1.000	.312	85.5	27.222	26.910	27.513	26.673	26.7464	26.7464
1.000	.312	86.0	27.381	27.069	27.672	26.832	27.0690	26.9089
1.000	.312	86.5	27.540	27.228	27.831	26.992	27.0690	27.0690
1.000	.312	87.0	27.699	27.387	27.990	27.151	27.3825	27.2269
1.000	.312	87.5	27.858	27.546	28.149	27.310	27.3825	27.3825
1.000	.312	88.0	28.017	27.705	28.308	27.469	27.7050	27.5449
1.000	.312	88.5	28.176	27.864	28.467	27.629	27.7050	27.7050
1.000	.312	89.0	28.335	28.023	28.626	27.788	28.0186	27.8629
1.000	.312	89.5	28.495	28.183	28.786	27.947	28.0186	28.0186
1.000	.312	90.0	28.654	28.342	28.945	28.106	28.3420	28.1819
1.000	.312	90.5	28.813	28.501	29.104	28.265	28.3420	28.3420
1.000	.312	91.0	28.972	28.660	29.263	28.425	28.6557	28.4999
1.000	.312	91.5	29.131	28.819	29.422	28.584	28.6557	28.6557
1.000	.312	92.0	29.290	28.978	29.581	28.743	28.9780	28.8179
1.000	.312	92.5	29.449	29.137	29.741	28.902	28.9780	28.9780
1.000	.312	93.0	29.608	29.296	29.899	29.062	29.2918	29.1359
1.000	.312	93.5	29.768	29.456	30.060	29.221	29.2918	29.2918
1.000	.312	94.0	29.927	29.615	30.219	29.380	29.6150	29.4549
1.000	.312	94.5	30.086	29.774	30.378	29.539	29.6150	29.6150
1.000	.312	95.0	30.245	29.933	30.537	29.698	29.9289	29.7730
1.000	.312	95.5	30.404	30.092	30.696	29.858	29.9289	29.9289
1.000	.312	96.0	30.563	30.251	30.855	30.017	30.2510	30.0910
1.000	.312	96.5	30.722	30.410	31.014	30.176	30.2510	30.2510
1.000	.312	97.0	30.881	30.569	31.173	30.335	30.5650	30.4090
1.000	.312	97.5	31.041	30.729	31.333	30.494	30.5650	30.5650
1.000	.312	98.0	31.200	30.888	31.492	30.654	30.8880	30.7280
1.000	.312	98.5	31.359	31.047	31.651	30.813	30.8880	30.8880
1.000	.312	99.0	31.518	31.206	31.810	30.972	31.2020	31.0460
1.000	.312							31.2060

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
1.000	.312	99.5	31.677	31.365	31.969	31.131	31.5240	31.3640
1.000	.312	100.0	31.836	31.524	32.128	31.291	31.5240	31.5240
1.000	.312	100.5	31.995	31.683	32.287	31.450	31.8360	31.6840
1.000	.312	101.0	32.154	31.842	32.446	31.609	31.8360	31.8360
1.000	.312	101.5	32.313	32.001	32.605	31.768	32.1540	32.0030
1.000	.312	102.0	32.472	32.160	32.764	31.927	32.1540	32.1540
1.000	.312	102.5	32.631	32.319	32.923	32.086	32.4720	32.3120
1.000	.312	103.0	32.790	32.478	33.082	32.245	32.4720	32.4720
1.000	.312	103.5	32.949	32.637	33.241	32.404	32.7900	32.6310
1.000	.312	104.0	33.108	32.796	33.400	32.563	32.7900	32.7900
1.000	.312	104.5	33.267	32.955	33.559	32.722	33.1080	33.0890
1.000	.312	105.0	33.426	33.114	33.718	32.881	33.1080	33.1080
1.000	.312	105.5	33.585	33.273	33.877	33.040	33.4260	33.2670
1.000	.312	106.0	33.744	33.432	34.036	33.199	33.4260	33.4260
1.000	.312	106.5	33.903	33.591	34.195	33.358	33.7440	33.5860
1.000	.312	107.0	34.062	33.750	34.354	33.517	33.7440	33.7440
1.000	.312	107.5	34.221	33.909	34.513	33.676	34.0620	33.9050
1.000	.312	108.0	34.380	34.068	34.672	33.835	34.0620	34.0620
1.000	.312	108.5	34.539	34.227	34.831	33.994	34.3800	34.2210
1.000	.312	109.0	34.698	34.386	34.990	34.153	34.3800	34.3800
1.000	.312	109.5	34.857	34.545	35.149	34.312	34.6980	34.5400
1.000	.312	110.0	35.016	34.704	35.308	34.471	34.6980	34.6980
1.000	.312	110.5	35.175	34.863	35.467	34.630	35.0160	34.8590
1.000	.312	111.0	35.334	35.022	35.626	34.789	35.0160	35.0160
1.000	.312	111.5	35.493	35.181	35.785	34.948	35.3340	35.1730
1.000	.312	112.0	35.652	35.340	35.944	35.107	35.3340	35.3340
1.000	.312	112.5	35.811	35.499	36.103	35.266	35.6520	35.4920
1.000	.312	113.0	35.970	35.658	36.262	35.425	35.6520	35.6520
1.000	.312	113.5	36.129	35.817	36.421	35.584	35.9700	35.8110
1.000	.312	114.0	36.288	35.976	36.580	35.743	35.9700	35.9700
1.000	.312	114.5	36.447	36.135	36.739	35.902	36.2880	36.1290
1.000	.312	115.0	36.606	36.294	36.898	36.061	36.2880	36.2880
1.000	.312	115.5	36.765	36.453	37.057	36.220	36.6060	36.4470
1.000	.312	116.0	36.924	36.612	37.216	36.379	36.6060	36.6060
1.000	.312	116.5	37.083	36.771	37.375	36.538	36.9240	36.7650
1.000	.312	117.0	37.242	36.930	37.534	36.697	36.9240	36.9240
1.000	.312	117.5	37.401	37.089	37.693	36.856	37.2420	37.0830
1.000	.312	118.0	37.560	37.248	37.852	37.015	37.2420	37.2420
1.000	.312	118.5	37.719	37.407	38.011	37.174	37.5600	37.4010
1.000	.312	119.0	37.878	37.566	38.170	37.333	37.5600	37.5600
1.000	.312	119.5	38.037	37.725	38.329	37.492	37.8780	37.7190
1.000	.312	120.0	38.196	37.884	38.488	37.651	37.8780	37.8780
1.000	.312	120.5	38.355	38.043	38.647	37.810	38.1960	38.0370
1.000	.312	121.0	38.514	38.202	38.806	37.969	38.1960	38.1960
1.000	.312	121.5	38.673	38.361	38.965	38.128	38.5140	38.3550
1.000	.312	122.0	38.832	38.520	39.124	38.287	38.5140	38.5140
1.000	.312	122.5	38.991	38.679	39.283	38.446	38.8320	38.6730
1.000	.312	123.0	39.150	38.838	39.442	38.605	38.8320	38.8320
1.000	.312	123.5	39.309	38.997	39.601	38.764	39.1500	38.9910
1.000	.312	124.0	39.468	39.156	39.760	38.923	39.1500	39.1500
1.000	.312	124.5	39.627	39.315	39.919	39.082	39.4680	39.3090
1.000	.312	125.0	39.786	39.474	40.078	39.241	39.4680	39.4680
1.000	.312	125.5	39.945	39.633	40.237	39.400	39.7860	39.6270
1.000	.312	126.0	40.104	39.792	40.396	39.559	39.7860	39.7860
1.000	.312	126.5	40.263	39.951	40.555	39.718	40.1040	39.9450
1.000	.312	127.0	40.422	40.110	40.714	39.877	40.1040	40.1040
1.000	.312	127.5	40.581	40.269	40.873	40.036	40.4220	40.2630
1.000	.312	128.0	40.740	40.428	41.032	40.195	40.4220	40.4220
1.000	.312	128.5	40.899	40.587	41.191	40.354	40.7400	40.5810
1.000	.312	129.0	41.058	40.746	41.350			

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TABLE II. CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
1.250	.400	35.5	14.143	13.743	14.490	13.433	13.9420	13.7395
1.250	.400	36.0	14.342	13.942	14.690	13.633		13.9390
1.250	.400	36.5	14.541	14.141	14.889	13.832		13.9376
1.250	.400	37.0	14.740	14.340	15.088	14.031	14.3267	14.3300
1.250	.400	37.5	14.938	14.538	15.287	14.231		14.3267
1.250	.400	38.0	15.137	14.737	15.486	14.430	14.7370	14.7370
1.250	.400	38.5	15.336	14.936	15.685	14.630		14.9328
1.250	.400	39.0	15.534	15.134	15.884	14.829	15.1214	15.1214
1.250	.400	39.5	15.733	15.333	16.083	15.028		15.3299
1.250	.400	40.0	15.932	15.532	16.282	15.228	15.5320	15.5320
1.250	.400	40.5	16.131	15.731	16.482	15.427		15.7280
1.250	.400	41.0	16.329	15.929	16.680	15.626	15.9170	15.9170
1.250	.400	41.5	16.528	16.128	16.879	15.826		16.1250
1.250	.400	42.0	16.727	16.327	17.079	16.025	16.3270	16.3270
1.250	.400	42.5	16.926	16.526	17.278	16.224		16.5231
1.250	.400	43.0	17.124	16.724	17.476	16.424	16.7126	16.7126
1.250	.400	43.5	17.323	16.923	17.675	16.623		16.9202
1.250	.400	44.0	17.522	17.122	17.875	16.822	17.1220	17.1220
1.250	.400	44.5	17.721	17.321	18.074	17.022		17.3182
1.250	.400	45.0	17.919	17.519	18.272	17.221	17.5081	17.5081
1.250	.400	45.5	18.118	17.718	18.471	17.420		17.7153
1.250	.400	46.0	18.317	17.917	18.671	17.619	17.9170	17.9170
1.250	.400	46.5	18.516	18.116	18.870	17.818		18.1134
1.250	.400	47.0	18.715	18.315	19.069	18.018	18.3045	18.3045
1.250	.400	47.5	18.913	18.513	19.267	18.217		18.5104
1.250	.400	48.0	19.112	18.712	19.466	18.416	18.7120	18.7120
1.250	.400	48.5	19.311	18.911	19.666	18.616		18.9085
1.250	.400	49.0	19.510	19.110	19.865	18.815	19.1000	19.1000
1.250	.400	49.5	19.709	19.309	20.064	19.014		19.3065
1.250	.400	50.0	19.907	19.507	20.262	19.213	19.5070	19.5070
1.250	.400	50.5	20.106	19.706	20.462	19.412		19.7036
1.250	.400	51.0	20.305	19.905	20.661	19.611	19.8954	19.8954
1.250	.400	51.5	20.504	20.104	20.860	19.811		20.1016
1.250	.400	52.0	20.703	20.303	21.059	20.010	20.3030	20.3030
1.250	.400	52.5	20.902	20.502	21.258	20.209		20.4997
1.250	.400	53.0	21.100	20.700	21.456	20.408	20.6907	20.6907
1.250	.400	53.5	21.299	20.899	21.656	20.608		20.8967
1.250	.400	54.0	21.498	21.098	21.855	20.807	21.0980	21.0980
1.250	.400	54.5	21.697	21.297	22.054	21.006		21.2947
1.250	.400	55.0	21.896	21.496	22.253	21.205	21.4871	21.4871
1.250	.400	55.5	22.095	21.695	22.452	21.404		21.6928
1.250	.400	56.0	22.293	21.893	22.650	21.603	21.8930	21.8930
1.250	.400	56.5	22.492	22.092	22.849	21.802		22.0988
1.250	.400	57.0	22.691	22.291	23.049	22.002	22.2824	22.2824
1.250	.400	57.5	22.890	22.490	23.248	22.201		22.4879
1.250	.400	58.0	23.089	22.689	23.447	22.400	22.6890	22.6890
1.250	.400	58.5	23.288	22.888	23.646	22.599		22.8859
1.250	.400	59.0	23.486	23.086	23.844	22.798	23.0777	23.0777
1.250	.400	59.5	23.685	23.285	24.044	22.997		23.2829
1.250	.400	60.0	23.884	23.484	24.243	23.196	23.4840	23.4840
1.250	.400	60.5	24.083	23.683	24.442	23.396		23.6890
1.250	.400	61.0	24.282	23.882	24.641	23.595	23.8739	23.8739
1.250	.400	61.5	24.481	24.081	24.840	23.794		23.8820
1.250	.400	62.0	24.680	24.280	25.039	23.993	24.2800	24.2800
1.250	.400	62.5	24.878	24.478	25.237	24.192		24.4760
1.250	.400	63.0	25.077	24.677	25.436	24.391	24.6692	24.6692
1.250	.400	63.5	25.276	24.876	25.635	24.590		24.8714
1.250	.400	64.0	25.475	25.075	25.835	24.789	25.0750	25.0750
1.250	.400	64.5	25.674	25.274	26.034	24.988		25.2721
1.250	.400	65.0	25.873	25.473	26.233	25.188	25.4654	25.4654
1.250	.400	65.5	26.072	25.672	26.432	25.387		25.6701
1.250	.400	66.0	26.270	25.870	26.630	25.586	25.8700	25.8700
1.250	.400	66.5	26.469	26.069	26.829	25.785		26.0672
1.250	.400	67.0	26.668	26.268	27.028	25.984		26.2640
1.250	.400	67.5	26.867	26.467	27.227	26.183	26.4670	26.4670
1.250	.400	68.0	27.066	26.666	27.426	26.382		26.6640
1.250	.400	68.5	27.265	26.865	27.625	26.581	26.6660	26.6660
1.250	.400	69.0	27.464	27.064	27.824	26.780		26.8630
1.250	.400	69.5	27.663	27.263	28.023	26.979	27.0640	27.0640
1.250	.400	70.0	27.862	27.462	28.222	27.178		27.2612
1.250	.400	70.5	28.061	27.661	28.421	27.377	27.4610	27.4610
1.250	.400	71.0	28.260	27.860	28.620	27.576		27.6583
1.250	.400	71.5	28.459	28.059	28.819	27.775	27.8521	27.8521
1.250	.400	72.0	28.658	28.258	29.018	27.974		28.0553
1.250	.400	72.5	28.857	28.457	29.217	28.173	28.2570	28.2570
1.250	.400	73.0	29.056	28.656	29.416	28.372		28.4523
1.250	.400	73.5	29.255	28.855	29.615	28.571	28.6483	28.6483
1.250	.400	74.0	29.454	29.054	29.814	28.770		28.8393
1.250	.400	74.5	29.653	29.253	30.013	28.969	29.0530	29.0530
1.250	.400	75.0	29.852	29.452	30.212	29.168		29.2494
1.250	.400	75.5	30.051	29.651	30.411	29.367	29.4435	29.4435
1.250	.400	76.0	30.250	29.850	30.610	29.566		29.6474
1.250	.400	76.5	30.449	30.049	30.809	29.765	29.8480	29.8480
1.250	.400	77.0	30.648	30.248	31.008	29.964		30.0454
1.250	.400	77.5	30.847	30.447	31.207	30.163	30.2396	30.2396
1.250	.400	78.0	31.046	30.646	31.406	30.362		30.4324
1.250	.400	78.5	31.245	30.845	31.605	30.561	30.6240	30.6240
1.250	.400	79.0	31.444	31.044	31.804	30.760		30.8164
1.250	.400	79.5	31.643	31.243	32.003	30.959	31.0348	31.0348
1.250	.400	80.0	31.842	31.442	32.202	31.158		31.2285
1.250	.400	80.5	32.041	31.641	32.401	31.357	31.4390	31.4390
1.250	.400	81.0	32.240	31.840	32.600	31.556		31.6315
1.250	.400	81.5	32.439	32.039	32.800	31.755	31.8309	31.8309
1.250	.400	82.0	32.638	32.238	33.000	31.954		32.0235
1.250	.400	82.5	32.837	32.437	33.200	32.153	32.2350	32.2350
1.250	.400	83.0	33.036	32.636	33.400	32.352		32.4250
1.250	.400	83.5	33.235	32.835	33.600	32.551	32.6271	32.6271
1.250	.400	84.0	33.434	33.034	33.800	32.750		32.8176
1.250	.400	84.5	33.633	33.233	34.000	32.949	33.0300	33.0300
1.250	.400	85.0	33.832	33.432	34.200	33.148		33.2225
1.250	.400	85.5	34.031	33.631	34.400	33.347	33.4222	33.4222
1.250	.400	86.0	34.230	33.830	34.600	33.546		33.6150
1.250	.400	86.5	34.429	34.029	34.800	33.745	33.8260	33.8260
1.250	.400	87.0	34.628	34.228	35.000	33.944		34.0176
1.250	.400	87.5	34.827	34.427	35.200	34.143	34.2184	34.2184
1.250	.400	88.0	35.026	34.626	35.400	34.342		34.4100
1.250	.400	88.5	35.225	34.825	35.600	34.541	34.6220	34.6220
1.250	.400	89.0	35.424	35.024	35.800	34.740		34.8126
1.250	.400	89.5	35.623	35.223	36.000	34.939	35.0135	35.0135
1.250	.400	90.0	35.822	35.422	36.200	35.138		35.2060
1.250	.400	90.5	36.021	35.621	36.400	35.337	35.4170	35.4170
1.250	.400	91.0	36.220	35.820	36.600	35.536		35.6086
1.250	.400	91.5	36.419	36.019	36.800	35.735	35.8096	35.8096
1.250	.400	92.0	36.618	36.218	37.000	35.934		36.0012
1.250	.400	92.5	36.817	36.417	37.200	36.133	36.2130	36.2130
1.250	.400	93.0	37.016	36.616	37.400	36.332		36.4037
1.250	.400	93.5	37.215	36.815	37.600	36.531	36.6057	36.6057
1.250	.400	94.0	37.414	37.014	37.800	36.730		36.7963
1.250	.400	94.5	37.613	37.213	38.000	36.929	37.0080	37.0080
1.250	.400	95.0	37.812	37.412	38.200	37.128		37.1969
1.250	.400	95.5	38.011	37.611	38.400	37.327	37.3927	37.3927
1.250	.400	96.0	38.210	37.810	38.600	37.526		37.5816
1.250	.400	96.5	38.409	38.009	38.800	37.725	37.7977	37.7977
1.250	.400	97.0	38.608	38.208	39.000	37.924		37.9800
1.250	.400	97.5	38.807	38.407	39.200	38.123	38.0000	38.0000
1.250	.400	98.0	39.006	38.606	39.400	38.322		38.1926
1.250	.400	98.5	39.205	38.805	39.600	38.521	38.3655	



TABLE IX CONTINUED

P	D	NE	PD	BO	OD	MHD	CD-1	CD-2
1.500	.469	98.5	39.199	38.799	39.564	38.524	36.9920	38.7978
1.500	.469	99.0	39.397	38.997	39.762	38.723	36.9920	38.9970
1.500	.469	99.5	39.596	39.196	39.961	38.922	36.9920	39.1968
1.500	.469	100.0	39.795	39.395	40.160	39.121	36.9950	39.3950
1.500	.469	5.0	2.552	2.083	2.758	1.285	1.9581	2.0830
1.500	.469	5.5	2.774	2.305	3.004	1.554	2.9310	2.2788
1.500	.469	6.0	3.002	2.531	3.249	1.818	2.9310	2.5310
1.500	.469	6.5	3.228	2.759	3.493	2.078	2.9310	2.7590
1.500	.469	7.0	3.457	2.988	3.736	2.335	2.9013	2.9880
1.500	.469	7.5	3.688	3.219	3.979	2.589	3.1988	3.1988
1.500	.469	8.0	3.920	3.451	4.221	2.841	3.4510	3.4510
1.500	.469	8.5	4.152	3.683	4.462	3.092	3.6830	3.6830
1.500	.469	9.0	4.386	3.917	4.704	3.341	3.8504	3.9170
1.500	.469	9.5	4.620	4.151	4.945	3.589	4.1332	4.1332
1.500	.469	10.0	4.854	4.385	5.185	3.837	4.3850	4.3850
1.500	.469	10.5	5.089	4.620	5.426	4.083	4.6038	4.6038
1.500	.469	11.0	5.324	4.855	5.666	4.329	4.8008	4.8008
1.500	.469	11.5	5.560	5.091	5.907	4.574	4.8550	4.8550
1.500	.469	12.0	5.796	5.327	6.147	4.818	5.3270	5.3270
1.500	.469	12.5	6.032	5.563	6.387	5.062	5.5630	5.5630
1.500	.469	13.0	6.268	5.799	6.627	5.306	5.7533	5.7533
1.500	.469	13.5	6.504	6.035	6.866	5.549	6.0260	6.0260
1.500	.469	14.0	6.741	6.272	7.106	5.792	6.2720	6.2720
1.500	.469	14.5	6.978	6.509	7.346	6.035	6.5090	6.5090
1.500	.469	15.0	7.215	6.746	7.586	6.277	6.7460	6.7460
1.500	.469	15.5	7.452	6.983	7.826	6.519	6.9734	6.9734
1.500	.469	16.0	7.689	7.220	8.065	6.761	7.2200	7.2200
1.500	.469	16.5	7.926	7.457	8.304	7.003	7.4570	7.4570
1.500	.469	17.0	8.163	7.694	8.544	7.244	7.6940	7.6940
1.500	.469	17.5	8.401	7.932	8.784	7.486	7.9320	7.9320
1.500	.469	18.0	8.638	8.169	9.022	7.727	8.1690	8.1690
1.500	.469	18.5	8.876	8.407	9.262	7.968	8.4070	8.4070
1.500	.469	19.0	9.113	8.644	9.501	8.209	8.6440	8.6440
1.500	.469	19.5	9.351	8.882	9.740	8.450	8.8820	8.8820
1.500	.469	20.0	9.589	9.120	9.980	8.691	9.1200	9.1200
1.500	.469	20.5	9.826	9.357	10.218	8.931	9.3570	9.3570
1.500	.469	21.0	10.064	9.595	10.458	9.172	9.5950	9.5950
1.500	.469	21.5	10.302	9.833	10.697	9.412	9.8330	9.8330
1.500	.469	22.0	10.540	10.071	10.936	9.653	10.0710	10.0710
1.500	.469	22.5	10.778	10.309	11.176	9.893	10.3090	10.3090
1.500	.469	23.0	11.016	10.547	11.415	10.133	10.5470	10.5470
1.500	.469	23.5	11.254	10.785	11.654	10.373	10.7850	10.7850
1.500	.469	24.0	11.492	11.023	11.893	10.614	11.0230	11.0230
1.500	.469	24.5	11.730	11.261	12.132	10.854	11.2610	11.2610
1.500	.469	25.0	11.968	11.499	12.371	11.094	11.4990	11.4990
1.500	.469	25.5	12.206	11.737	12.610	11.334	11.7370	11.7370
1.500	.469	26.0	12.444	11.975	12.849	11.574	11.9750	11.9750
1.500	.469	26.5	12.682	12.214	13.088	11.813	12.2140	12.2140
1.500	.469	27.0	12.921	12.452	13.327	12.053	12.4520	12.4520
1.500	.469	27.5	13.159	12.690	13.566	12.293	12.6900	12.6900
1.500	.469	28.0	13.397	12.928	13.805	12.533	12.9280	12.9280
1.500	.469	28.5	13.635	13.166	14.044	12.773	13.1660	13.1660
1.500	.469	29.0	13.874	13.405	14.283	13.012	13.4050	13.4050
1.500	.469	29.5	14.112	13.643	14.522	13.252	13.6430	13.6430
1.500	.469	30.0	14.350	13.881	14.761	13.492	13.8810	13.8810
1.500	.469	30.5	14.588	14.119	14.999	13.731	14.1190	14.1190
1.500	.469	31.0	14.827	14.358	15.238	13.971	14.3580	14.3580
1.500	.469	31.5	15.065	14.596	15.477	14.210	14.5960	14.5960
1.500	.469	32.0	15.303	14.834	15.716	14.450	14.8340	14.8340
1.500	.469	32.5	15.542	15.073	15.955	14.689	15.0730	15.0730
1.500	.469	33.0	15.780	15.311	16.194	14.929	15.3110	15.3110
1.500	.469	33.5	16.019	15.550	16.434	15.168	15.5500	15.5500
1.500	.469	34.0	16.257	15.788	16.672	15.408	15.7880	15.7880
1.500	.469	34.5	16.495	16.026	16.911	15.647	16.0260	16.0260
1.500	.469	35.0	16.733	16.264	17.149	15.886	16.2640	16.2640
1.500	.469	35.5	16.971	16.502	17.388	16.125	16.5020	16.5020
1.500	.469	36.0	17.209	16.740	17.626	16.364	16.7400	16.7400
1.500	.469	36.5	17.447	16.978	17.865	16.603	16.9780	16.9780
1.500	.469	37.0	17.685	17.216	18.103	16.842	17.2160	17.2160
1.500	.469	37.5	17.923	17.454	18.342	17.081	17.4540	17.4540
1.500	.469	38.0	18.161	17.692	18.580	17.320	17.6920	17.6920
1.500	.469	38.5	18.399	17.930	18.819	17.559	17.9300	17.9300
1.500	.469	39.0	18.637	18.168	19.057	17.798	18.1680	18.1680
1.500	.469	39.5	18.875	18.406	19.296	18.037	18.4060	18.4060
1.500	.469	40.0	19.113	18.644	19.534	18.276	18.6440	18.6440
1.500	.469	40.5	19.351	18.882	19.773	18.515	18.8820	18.8820
1.500	.469	41.0	19.589	19.120	20.011	18.754	19.1200	19.1200
1.500	.469	41.5	19.827	19.358	20.250	18.993	19.3580	19.3580
1.500	.469	42.0	20.065	19.596	20.488	19.232	19.5960	19.5960
1.500	.469	42.5	20.303	19.834	20.727	19.471	19.8340	19.8340
1.500	.469	43.0	20.541	20.072	20.965	19.710	20.0720	20.0720
1.500	.469	43.5	20.779	20.310	21.204	19.949	20.3100	20.3100
1.500	.469	44.0	21.017	20.548	21.442	20.188	20.5480	20.5480
1.500	.469	44.5	21.255	20.786	21.681	20.427	20.7860	20.7860
1.500	.469	45.0	21.493	21.024	21.919	20.666	21.0240	21.0240
1.500	.469	45.5	21.731	21.262	22.158	20.905	21.2620	21.2620
1.500	.469	46.0	21.969	21.500	22.396	21.144	21.5000	21.5000
1.500	.469	46.5	22.207	21.738	22.635	21.383	21.7380	21.7380
1.500	.469	47.0	22.445	21.976	22.873	21.622	21.9760	21.9760
1.500	.469	47.5	22.683	22.214	23.112	21.861	22.2140	22.2140
1.500	.469	48.0	22.921	22.452	23.350	22.100	22.4520	22.4520
1.500	.469	48.5	23.159	22.690	23.589	22.339	22.6900	22.6900
1.500	.469	49.0	23.397	22.928	23.827	22.578	22.9280	22.9280
1.500	.469	49.5	23.635	23.166	24.066	22.817	23.1660	23.1660
1.500	.469	50.0	23.874	23.405	24.304	23.056	23.4050	23.4050
1.500	.469	50.5	24.112	23.643	24.543	23.295	23.6430	23.6430
1.500	.469	51.0	24.350	23.881	24.781	23.534	23.8810	23.8810
1.500	.469	51.5	24.588	24.119	25.020	23.773	24.1190	24.1190
1.500	.469	52.0	24.827	24.358	25.258	24.012	24.3580	24.3580
1.500	.469	52.5	25.065	24.596	25.497	24.251	24.5960	24.5960
1.500	.469	53.0	25.303	24.834	25.735	24.490	24.8340	24.8340
1.500	.469	53.5	25.542	25.073	25.974	24.729	25.0730	25.0730
1.500	.469	54.0	25.780	25.311	26.212	24.968	25.3110	25.3110
1.500	.469	54.5	26.019	25.550	26.451	25.207	25.5500	25.5500
1.500	.469	55.0	26.257	25.788	26.689	25.446	25.7880	25.7880
1.500	.469	55.5	26.495	26.026	26.928	25.685	26.0260	26.0260
1.500	.469	56.0	26.733	26.264	27.166	25.924	26.2640	26.2640
1.500	.469	56.5	26.971	26.502	27.405	26.163	26.5020	26.5020
1.500	.469	57.0	27.209	26.740	27.643	26.402	26.7400	26.7400
1.500	.469	57.5	27.447	26.978	27.882	26.641	26.9780	26.9780
1.500	.469	58.0	27.685	27.216	28.120	26.880	27.2160	27.2160
1.500	.469	58.5	27.923	27.454	28.359	27.119	27.4540	27.4540
1.500	.469	59.0	28.161	27.692	28.597	27.358	27.6920	27.6920
1.500	.469	59.5	28.399	27.930	28.836	27.597	27.9300	27.9300
1.500	.469	60.0	28.637	28.168	29.074	27.836	28.1680	28.1680
1.500	.469	60.5	28.875	28.406	29.313	28.075	28.4060	28.4060
1.500	.469	61.0	29.113	28.644	29.551	28.314	28.6440	28.6440
1.500	.469	61.5	29.351	28.882	29.790	28.553	28.8820	28.8820
1.500	.469	62.0	29.589	29.120	30.028	28.792	29.1200	29.1200
1.500	.469	62.5	29.827	29.358	30.267	29.031	29.3580	29.3580
1.500	.469	63.0	30.065	29.596	30.505	29.270	29.5960	29.5960
1.500	.469	63.5	30.303	29.834	30.744	29.509	29.8340	29.8340
1.500	.469	64.0	30.542	30.073	30.			

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TABLE IX CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
1.500	.469	66.0	31.525	31.056	31.957	30.709	31.0560	31.0560
1.500	.469	66.5	31.763	31.294	32.195	30.948	31.2948	31.2948
1.500	.469	67.0	32.002	31.533	32.434	31.187	31.5330	31.5330
1.500	.469	67.5	32.241	31.772	32.674	31.426	31.7728	31.7728
1.500	.469	68.0	32.479	32.010	32.912	31.665	32.0100	32.0100
1.500	.469	68.5	32.718	32.249	33.151	31.903	32.2498	32.2498
1.500	.469	69.0	32.956	32.487	33.389	32.142	32.4870	32.4870
1.500	.469	69.5	33.195	32.726	33.628	32.381	32.7268	32.7268
1.500	.469	70.0	33.434	32.965	33.867	32.620	32.9650	32.9650
1.500	.469	70.5	33.672	33.203	34.105	32.859	33.2030	33.2030
1.500	.469	71.0	33.911	33.442	34.344	33.098	33.4420	33.4420
1.500	.469	71.5	34.150	33.681	34.584	33.337	33.6810	33.6810
1.500	.469	72.0	34.388	33.919	34.822	33.576	33.9190	33.9190
1.500	.469	72.5	34.627	34.158	35.061	33.815	34.1580	34.1580
1.500	.469	73.0	34.866	34.397	35.300	34.053	34.3970	34.3970
1.500	.469	73.5	35.104	34.635	35.538	34.292	34.6350	34.6350
1.500	.469	74.0	35.343	34.874	35.777	34.531	34.8740	34.8740
1.500	.469	74.5	35.582	35.113	36.016	34.770	35.1130	35.1130
1.500	.469	75.0	35.820	35.351	36.254	35.009	35.3510	35.3510
1.500	.469	75.5	36.059	35.590	36.493	35.248	35.5900	35.5900
1.500	.469	76.0	36.298	35.829	36.732	35.487	35.8290	35.8290
1.500	.469	76.5	36.536	36.067	36.971	35.726	36.0670	36.0670
1.500	.469	77.0	36.775	36.306	37.210	35.964	36.3060	36.3060
1.500	.469	77.5	37.014	36.545	37.449	36.203	36.5450	36.5450
1.500	.469	78.0	37.252	36.783	37.687	36.442	36.7830	36.7830
1.500	.469	78.5	37.491	37.022	37.926	36.681	37.0220	37.0220
1.500	.469	79.0	37.730	37.261	38.165	36.920	37.2610	37.2610
1.500	.469	79.5	37.968	37.499	38.403	37.159	37.4990	37.4990
1.500	.469	80.0	38.207	37.738	38.642	37.398	37.7380	37.7380
1.500	.469	80.5	38.446	37.977	38.881	37.636	37.9770	37.9770
1.500	.469	81.0	38.684	38.215	39.119	37.875	38.2150	38.2150
1.500	.469	81.5	38.923	38.454	39.359	38.114	38.4540	38.4540
1.500	.469	82.0	39.162	38.693	39.598	38.353	38.6930	38.6930
1.500	.469	82.5	39.400	38.931	39.836	38.592	38.9310	38.9310
1.500	.469	83.0	39.639	39.170	40.075	38.831	39.1700	39.1700
1.500	.469	83.5	39.878	39.409	40.314	39.069	39.4090	39.4090
1.500	.469	84.0	40.116	39.647	40.552	39.308	39.6470	39.6470
1.500	.469	84.5	40.355	39.886	40.791	39.547	39.8860	39.8860
1.500	.469	85.0	40.594	40.125	41.030	39.786	40.1250	40.1250
1.500	.469	85.5	40.832	40.363	41.268	40.025	40.3630	40.3630
1.500	.469	86.0	41.071	40.602	41.507	40.264	40.6020	40.6020
1.500	.469	86.5	41.310	40.841	41.746	40.503	40.8410	40.8410
1.500	.469	87.0	41.548	41.079	41.984	40.741	41.0790	41.0790
1.500	.469	87.5	41.787	41.318	42.224	40.980	41.3180	41.3180
1.500	.469	88.0	42.026	41.557	42.463	41.219	41.5570	41.5570
1.500	.469	88.5	42.265	41.796	42.702	41.458	41.7960	41.7960
1.500	.469	89.0	42.503	42.034	42.940	41.697	42.0340	42.0340
1.500	.469	89.5	42.742	42.273	43.179	41.936	42.2730	42.2730
1.500	.469	90.0	42.981	42.512	43.418	42.174	42.5120	42.5120
1.500	.469	90.5	43.219	42.750	43.656	42.413	42.7500	42.7500
1.500	.469	91.0	43.458	42.989	43.895	42.652	42.9890	42.9890
1.500	.469	91.5	43.697	43.228	44.134	42.891	43.2280	43.2280
1.500	.469	92.0	43.935	43.466	44.372	43.130	43.4660	43.4660
1.500	.469	92.5	44.174	43.705	44.611	43.369	43.7050	43.7050
1.500	.469	93.0	44.413	43.944	44.850	43.607	43.9440	43.9440
1.500	.469	93.5	44.651	44.182	45.088	43.846	44.1820	44.1820
1.500	.469	94.0	44.890	44.421	45.327	44.085	44.4210	44.4210
1.500	.469	94.5	45.129	44.660	45.567	44.324	44.6600	44.6600
1.500	.469	95.0	45.367	44.898	45.805	44.563	44.8980	44.8980
1.500	.469	95.5	45.606	45.137	46.044	44.801	45.1370	45.1370
1.500	.469	96.0	45.845	45.376	46.283	45.040	45.3760	45.3760
1.500	.469	96.5	46.084	45.615	46.522	45.279	45.6150	45.6150
1.500	.469	97.0	46.322	45.853	46.761	45.518	45.8530	45.8530
1.500	.469	97.5	46.561	46.092	47.000	45.757	46.0920	46.0920
1.500	.469	98.0	46.800	46.331	47.239	45.996	46.3310	46.3310
1.500	.469	98.5	47.039	46.570	47.478	46.235	46.5700	46.5700
1.500	.469	99.0	47.278	46.809	47.717	46.474	46.8090	46.8090
1.500	.469	99.5	47.517	47.048	47.956	46.713	47.0480	47.0480
1.500	.469	100.0	47.756	47.287	48.195	46.952	47.2870	47.2870
1.500	.469	100.5	47.995	47.526	48.434	47.191	47.5260	47.5260
1.500	.469	101.0	48.234	47.765	48.673	47.430	47.7650	47.7650
1.500	.469	101.5	48.473	48.004	48.912	47.669	48.0040	48.0040
1.500	.469	102.0	48.712	48.243	49.151	47.908	48.2430	48.2430
1.500	.469	102.5	48.951	48.482	49.390	48.147	48.4820	48.4820
1.500	.469	103.0	49.190	48.721	49.629	48.386	48.7210	48.7210
1.500	.469	103.5	49.429	48.960	49.868	48.625	48.9600	48.9600
1.500	.469	104.0	49.668	49.199	50.107	48.864	49.1990	49.1990
1.500	.469	104.5	49.907	49.438	50.346	49.103	49.4380	49.4380
1.500	.469	105.0	50.146	49.677	50.585	49.342	49.6770	49.6770
1.500	.469	105.5	50.385	49.916	50.824	49.581	49.9160	49.9160
1.500	.469	106.0	50.624	50.155	51.063	49.820	50.1550	50.1550
1.500	.469	106.5	50.863	50.394	51.302	50.059	50.3940	50.3940
1.500	.469	107.0	51.102	50.633	51.541	50.298	50.6330	50.6330
1.500	.469	107.5	51.341	50.872	51.780	50.537	50.8720	50.8720
1.500	.469	108.0	51.580	51.111	52.019	50.776	51.1110	51.1110
1.500	.469	108.5	51.819	51.350	52.258	51.015	51.3500	51.3500
1.500	.469	109.0	52.058	51.589	52.497	51.254	51.5890	51.5890
1.500	.469	109.5	52.297	51.828	52.736	51.493	51.8280	51.8280
1.500	.469	110.0	52.536	52.067	52.975	51.732	52.0670	52.0670
1.500	.469	110.5	52.775	52.306	53.214	51.971	52.3060	52.3060
1.500	.469	111.0	53.014	52.545	53.453	52.210	52.5450	52.5450
1.500	.469	111.5	53.253	52.784	53.692	52.449	52.7840	52.7840
1.500	.469	112.0	53.492	53.023	53.931	52.688	53.0230	53.0230
1.500	.469	112.5	53.731	53.262	54.170	52.927	53.2620	53.2620
1.500	.469	113.0	53.970	53.501	54.409	53.166	53.5010	53.5010
1.500	.469	113.5	54.209	53.740	54.648	53.405	53.7400	53.7400
1.500	.469	114.0	54.448	53.979	54.887	53.644	53.9790	53.9790
1.500	.469	114.5	54.687	54.218	55.126	53.883	54.2180	54.2180
1.500	.469	115.0	54.926	54.457	55.365	54.122	54.4570	54.4570
1.500	.469	115.5	55.165	54.696	55.604	54.361	54.6960	54.6960
1.500	.469	116.0	55.404	54.935	55.843	54.600	54.9350	54.9350
1.500	.469	116.5	55.643	55.174	56.082	54.839	55.1740	55.1740
1.500	.469	117.0	55.882	55.413	56.321	55.078	55.4130	55.4130
1.500	.469	117.5	56.121	55.652	56.560	55.317	55.6520	55.6520
1.500	.469	118.0	56.360	55.891	56.799	55.556	55.8910	55.8910
1.500	.469	118.5	56.599	56.130	57.038	55.795	56.1300	56.1300
1.500	.469	119.0	56.838	56.369	57.277	56.034	56.3690	56.3690
1.500	.469	119.5	57.077	56.608	57.516	56.273	56.6080	56.6080
1.500	.469	120.0	57.316	56.847	57.755	56.512	56.8470	56.8470
1.500	.469	120.5	57.555	57.086	57.994	56.751	57.0860	57.0860
1.500	.469	121.0	57.794	57.325	58.233	56.990	57.3250	57.3250
1.500	.469	121.5	58.033	57.564	58.472	57.229	57.5640	57.5640
1.500	.469	122.0	58.272	57.803	58.711	57.468	57.8030	57.8030
1.500	.469	122.5	58.511	58.042	58.950	57.707	58.0420	58.0420
1.500	.469	123.0	58.750	58.281	59.189	57.946	58.2810	58.2810
1.500	.469	123.5	58.989	58.520	59.428	58.185	58.5200	58.5200
1.500	.469	124.0	59.228	58.759	59.667	58.424	58.7590	58.7590
1.500	.469	124.5	59.467	58.998	59.906	58.663	58.9980	58.9980
1.500	.469	125.0	59.706	59.237	60.145	58.902	59.2370	59.2370
1.500	.469	125.5	59.945	59.476	60.384	59.141	59.4760	59.4760
1.500	.469	126.0	60.184	59.715	60.623	59.380	59.7150	59.7150
1.500	.469							



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TABLE IX CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
2.000	.625	33.5	21.358	20.733	21.911	20.234	20.7271	20.7271
2.000	.625	34.0	21.676	21.051	22.230	20.553	21.0510	21.0510
2.000	.625	34.5	21.994	21.369	22.548	20.873	21.3693	21.3693
2.000	.625	35.0	22.312	21.687	22.867	21.192	21.6870	21.6870
2.000	.625	35.5	22.630	22.005	23.186	21.511	21.9995	21.9995
2.000	.625	36.0	22.947	22.322	23.503	21.830	22.3220	22.3220
2.000	.625	36.5	23.265	22.640	23.822	22.149	22.6446	22.6446
2.000	.625	37.0	23.583	22.958	24.141	22.468	22.9580	22.9580
2.000	.625	37.5	23.901	23.276	24.459	22.787	23.2708	23.2708
2.000	.625	38.0	24.219	23.594	24.778	23.106	23.5940	23.5940
2.000	.625	38.5	24.537	23.912	25.096	23.425	23.9069	23.9069
2.000	.625	39.0	24.855	24.230	25.415	23.744	24.2300	24.2300
2.000	.625	39.5	25.173	24.548	25.733	24.063	24.5480	24.5480
2.000	.625	40.0	25.491	24.866	26.052	24.382	24.8660	24.8660
2.000	.625	40.5	25.809	25.184	26.370	24.701	25.1791	25.1791
2.000	.625	41.0	26.127	25.502	26.689	25.020	25.4828	25.4828
2.000	.625	41.5	26.445	25.820	27.007	25.339	25.7953	25.7953
2.000	.625	42.0	26.763	26.138	27.326	25.658	26.1380	26.1380
2.000	.625	42.5	27.081	26.456	27.644	25.977	26.4514	26.4514
2.000	.625	43.0	27.399	26.774	27.962	26.296	26.7757	26.7757
2.000	.625	43.5	27.717	27.092	28.281	26.615	27.0875	27.0875
2.000	.625	44.0	28.035	27.410	28.599	26.934	27.4100	27.4100
2.000	.625	44.5	28.353	27.728	28.918	27.253	27.7236	27.7236
2.000	.625	45.0	28.671	28.046	29.236	27.571	28.0360	28.0360
2.000	.625	45.5	28.989	28.364	29.554	27.890	28.3597	28.3597
2.000	.625	46.0	29.307	28.682	29.873	28.209	28.6820	28.6820
2.000	.625	46.5	29.625	29.000	30.191	28.528	28.9958	28.9958
2.000	.625	47.0	29.943	29.318	30.510	28.847	29.3180	29.3180
2.000	.625	47.5	30.261	29.636	30.828	29.165	29.6319	29.6319
2.000	.625	48.0	30.580	29.955	31.147	29.484	29.9550	29.9550
2.000	.625	48.5	30.898	30.273	31.466	29.803	30.2689	30.2689
2.000	.625	49.0	31.216	30.591	31.784	30.122	30.5910	30.5910
2.000	.625	49.5	31.534	30.909	32.102	30.440	30.9090	30.9090
2.000	.625	50.0	31.852	31.227	32.421	30.759	31.2270	31.2270
2.000	.625	50.5	32.170	31.545	32.739	31.078	31.5411	31.5411
2.000	.625	51.0	32.488	31.863	33.057	31.397	31.8630	31.8630
2.000	.625	51.5	32.806	32.181	33.375	31.715	32.1772	32.1772
2.000	.625	52.0	33.124	32.499	33.694	32.034	32.4990	32.4990
2.000	.625	52.5	33.442	32.817	34.012	32.353	32.8133	32.8133
2.000	.625	53.0	33.761	33.136	34.331	32.671	33.1360	33.1360
2.000	.625	53.5	34.079	33.454	34.650	32.990	33.4503	33.4503
2.000	.625	54.0	34.397	33.772	34.968	33.309	33.7720	33.7720
2.000	.625	54.5	34.715	34.090	35.286	33.627	34.0864	34.0864
2.000	.625	55.0	35.033	34.408	35.604	33.946	34.3937	34.3937
2.000	.625	55.5	35.351	34.726	35.923	34.265	34.7225	34.7225
2.000	.625	56.0	35.669	35.044	36.241	34.583	35.0440	35.0440
2.000	.625	56.5	35.988	35.363	36.560	34.902	35.3595	35.3595
2.000	.625	57.0	36.306	35.681	36.878	35.221	35.6810	35.6810
2.000	.625	57.5	36.624	36.000	37.197	35.539	35.9956	35.9956
2.000	.625	58.0	36.942	36.317	37.515	35.858	36.3170	36.3170
2.000	.625	58.5	37.260	36.635	37.833	36.176	36.6316	36.6316
2.000	.625	59.0	37.578	36.953	38.151	36.495	36.9530	36.9530
2.000	.625	59.5	37.896	37.271	38.470	36.814	37.2677	37.2677
2.000	.625	60.0	38.214	37.590	38.789	37.132	37.5900	37.5900
2.000	.625	60.5	38.533	37.908	39.107	37.451	37.9048	37.9048
2.000	.625	61.0	38.851	38.226	39.425	37.769	38.2260	38.2260
2.000	.625	61.5	39.169	38.544	39.743	38.088	38.5408	38.5408
2.000	.625	62.0	39.487	38.862	40.062	38.407	38.8620	38.8620
2.000	.625	62.5	39.805	39.180	40.380	38.725	39.1769	39.1769
2.000	.625	63.0	40.124	39.499	40.699	39.044	39.4865	39.4865
2.000	.625	63.5	40.442	39.817	41.017	39.362	39.8139	39.8139
2.000	.625	64.0	40.760	40.135	41.335	39.681	40.1350	40.1350
2.000	.625	64.5	41.078	40.453	41.654	40.000	40.4500	40.4500

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
2.000	.625	65.0	41.396	40.771	41.972	40.318	40.7589	40.7589
2.000	.625	65.5	41.715	41.090	42.291	40.637	41.0870	41.0870
2.000	.625	66.0	42.033	41.408	42.609	40.955	41.4080	41.4080
2.000	.625	66.5	42.351	41.726	42.927	41.274	41.7230	41.7230
2.000	.625	67.0	42.669	42.044	43.246	41.592	42.0323	42.0323
2.000	.625	67.5	42.987	42.362	43.564	41.911	42.3459	42.3459
2.000	.625	68.0	43.306	42.681	43.883	42.229	42.6610	42.6610
2.000	.625	68.5	43.624	43.000	44.201	42.548	42.9961	42.9961
2.000	.625	69.0	43.942	43.317	44.519	42.866	43.3056	43.3056
2.000	.625	69.5	44.260	43.635	44.837	43.185	43.6332	43.6332
2.000	.625	70.0	44.578	43.953	45.156	43.503	43.9530	43.9530
2.000	.625	70.5	44.897	44.272	45.475	43.822	44.2692	44.2692
2.000	.625	71.0	45.215	44.590	45.793	44.141	44.5789	44.5789
2.000	.625	71.5	45.533	44.908	46.111	44.459	44.8903	44.8903
2.000	.625	72.0	45.851	45.226	46.429	44.778	45.2260	45.2260
2.000	.625	72.5	46.169	45.544	46.747	45.096	45.5413	45.5413
2.000	.625	73.0	46.488	45.863	47.066	45.415	45.8522	45.8522
2.000	.625	73.5	46.806	46.181	47.385	45.733	46.1793	46.1793
2.000	.625	74.0	47.124	46.499	47.703	46.052	46.4990	46.4990
2.000	.625	74.5	47.442	46.817	48.021	46.370	46.8144	46.8144
2.000	.625	75.0	47.760	47.135	48.339	46.689	47.1245	47.1245
2.000	.625	75.5	48.079	47.454	48.658	47.007	47.4350	47.4350
2.000	.625	76.0	48.397	47.772	48.976	47.326	47.7420	47.7420
2.000	.625	76.5	48.715	48.090	49.294	47.644	48.0474	48.0474
2.000	.625	77.0	49.033	48.408	49.613	47.963	48.3578	48.3578
2.000	.625	77.5	49.352	48.727	49.932	48.281	48.6745	48.6745
2.000	.625	78.0	49.670	49.045	50.250	48.599	49.0450	49.0450
2.000	.625	78.5	49.988	49.363	50.568	48.918	49.3605	49.3605
2.000	.625	79.0	50.306	49.681	50.886	49.236	49.6810	49.6810
2.000	.625	79.5	50.624	49.999	51.204	49.555	49.9985	49.9985
2.000	.625	80.0	50.943	50.318	51.523	49.873	50.3180	50.3180
2.000	.625	80.5	51.261	50.636	51.841	50.192	50.6336	50.6336
2.000	.625	81.0	51.579	50.954	52.160	50.510	50.9443	50.9443
2.000	.625	81.5	51.897	51.272	52.478	50.829	51.2696	51.2696
2.000	.625	82.0	52.216	51.591	52.797	51.147	51.5910	51.5910
2.000	.625	82.5	52.534	51.909	53.115	51.466	51.9066	51.9066
2.000	.625	83.0	52.852	52.227	53.433	51.784	52.2270	52.2270
2.000	.625	83.5	53.170	52.545	53.751	52.103	52.5436	52.5436
2.000	.625	84.0	53.489	52.864	54.070	52.421	52.8640	52.8640
2.000	.625	84.5	53.807	53.182	54.388	52.740	53.1797	53.1797
2.000	.625	85.0	54.125	53.500	54.707	53.058	53.4908	53.4908
2.000	.625	85.5	54.443	53.818	55.025	53.376	53.8020	53.8020
2.000	.625	86.0	54.761	54.136	55.343	53.695	54.1360	54.1360
2.000	.625	86.5	55.079	54.454	55.662	54.013	54.4527	54.4527
2.000	.625	87.0	55.398	54.773	55.980	54.332	54.7730	54.7730
2.000	.625	87.5	55.716	55.091	56.298	54.650	55.0888	55.0888
2.000	.625	88.0	56.034	55.409	56.616	54.969	55.4090	55.4090
2.000	.625	88.5	56.353	55.728	56.935	55.287	55.7238	55.7238
2.000	.625	89.0	56.671	56.046	57.253	55.606	56.0460	56.0460
2.000	.625	89.5	56.989	56.364	57.571	55.924	56.3618	56.3618
2.000	.625	90.0	57.307	56.682	57.890	56.243	56.6820	56.6820
2.000	.625	90.5	57.626	57.001	58.209	56.561	56.9988	56.9988
2.000	.625	91.0	57.944	57.319	58.527	56.879	57.3104	57.3104
2.000	.625	91.5	58.262	57.637	58.845	57.198	57.6349	57.6349
2.000	.625	92.0	58.580	57.955	59.163	57.516	57.9550	57.9550
2.000	.625	92.5	58.899	58.274	59.482	57.835	58.2719	58.2719
2.000	.625	93.0	59.217	58.592	59.800	58.153	58.5	

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TABLE IX CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
2.000	.625	96.5	61.445	60.820	62.029	60.382	61.1299	60.8180
2.000	.625	97.0	61.763	61.138	62.347	60.701	61.4740	61.1380
2.000	.625	97.5	62.081	61.456	62.665	61.019	61.7740	61.4560
2.000	.625	98.0	62.399	61.774	62.983	61.337	62.0740	61.7740
2.000	.625	98.5	62.718	62.093	63.302	61.656	62.3740	62.0930
2.000	.625	99.0	63.036	62.411	63.620	61.974	62.6740	62.4110
2.000	.625	99.5	63.354	62.729	63.938	62.293	62.9740	62.7290
2.000	.625	100.0	63.672	63.047	64.256	62.611	63.2740	63.0470
2.500	.750	5.0	4.253	3.503	4.597	2.161	3.2940	3.5030
2.500	.750	5.5	4.624	3.874	5.007	2.610	3.8269	3.8269
2.500	.750	6.0	5.000	4.250	5.415	3.050	4.2500	4.2500
2.500	.750	6.5	5.380	4.630	5.822	3.483	4.6300	4.6300
2.500	.750	7.0	5.762	5.012	6.227	3.911	5.0120	5.0120
2.500	.750	7.5	6.146	5.396	6.630	4.335	5.3960	5.3960
2.500	.750	8.0	6.533	5.781	7.034	4.756	5.7830	5.7830
2.500	.750	8.5	6.921	6.173	7.437	5.173	6.1730	6.1730
2.500	.750	9.0	7.310	6.566	7.840	5.589	6.5660	6.5660
2.500	.750	9.5	7.699	6.949	8.240	6.002	6.9490	6.9490
2.500	.750	10.0	8.090	7.340	8.642	6.414	7.3400	7.3400
2.500	.750	10.5	8.482	7.732	9.044	6.825	7.7320	7.7320
2.500	.750	11.0	8.874	8.124	9.444	7.234	8.1240	8.1240
2.500	.750	11.5	9.266	8.516	9.844	7.643	8.5160	8.5160
2.500	.750	12.0	9.659	8.909	10.244	8.050	8.9090	8.9090
2.500	.750	12.5	10.053	9.303	10.645	8.457	9.3030	9.3030
2.500	.750	13.0	10.446	9.696	11.044	8.863	9.6960	9.6960
2.500	.750	13.5	10.841	10.091	11.445	9.268	10.0910	10.0910
2.500	.750	14.0	11.235	10.485	11.844	9.673	10.4850	10.4850
2.500	.750	14.5	11.630	10.880	12.244	10.078	10.8800	10.8800
2.500	.750	15.0	12.024	11.274	12.643	10.482	11.2740	11.2740
2.500	.750	15.5	12.419	11.669	13.042	10.885	11.6690	11.6690
2.500	.750	16.0	12.815	12.066	13.442	11.288	12.0660	12.0660
2.500	.750	16.5	13.210	12.460	13.841	11.691	12.4600	12.4600
2.500	.750	17.0	13.605	12.855	14.239	12.094	12.8550	12.8550
2.500	.750	17.5	14.001	13.251	14.639	12.496	13.2510	13.2510
2.500	.750	18.0	14.397	13.647	15.038	12.898	13.6470	13.6470
2.500	.750	18.5	14.793	14.043	15.437	13.300	14.0430	14.0430
2.500	.750	19.0	15.189	14.439	15.835	13.702	14.4390	14.4390
2.500	.750	19.5	15.585	14.835	16.234	14.103	14.8350	14.8350
2.500	.750	20.0	15.981	15.231	16.633	14.504	15.2310	15.2310
2.500	.750	20.5	16.377	15.627	17.031	14.905	15.6270	15.6270
2.500	.750	21.0	16.774	16.024	17.430	15.306	16.0240	16.0240
2.500	.750	21.5	17.170	16.420	17.829	15.707	16.4200	16.4200
2.500	.750	22.0	17.567	16.817	18.228	16.108	16.8170	16.8170
2.500	.750	22.5	17.963	17.213	18.626	16.508	17.2130	17.2130
2.500	.750	23.0	18.360	17.610	19.025	16.909	17.6100	17.6100
2.500	.750	23.5	18.757	18.007	19.423	17.309	18.0070	18.0070
2.500	.750	24.0	19.153	18.403	19.821	17.709	18.4030	18.4030
2.500	.750	24.5	19.550	18.800	20.220	18.110	18.8000	18.8000
2.500	.750	25.0	19.947	19.197	20.618	18.510	19.1970	19.1970
2.500	.750	25.5	20.344	19.594	21.017	18.909	19.5940	19.5940
2.500	.750	26.0	20.741	19.991	21.415	19.309	19.9910	19.9910
2.500	.750	26.5	21.138	20.388	21.814	19.709	20.3880	20.3880
2.500	.750	27.0	21.534	20.784	22.211	20.109	20.7840	20.7840
2.500	.750	27.5	21.931	21.181	22.610	20.509	21.1810	21.1810
2.500	.750	28.0	22.329	21.579	23.009	20.908	21.5790	21.5790
2.500	.750	28.5	22.726	21.976	23.407	21.308	21.9760	21.9760
2.500	.750	29.0	23.123	22.373	23.805	21.707	22.3730	22.3730
2.500	.750	29.5	23.520	22.770	24.203	22.107	22.7700	22.7700
2.500	.750	30.0	23.917	23.167	24.602	22.506	23.1670	23.1670
2.500	.750	30.5	24.314	23.564	25.000	22.905	23.5640	23.5640
2.500	.750	31.0	24.711	23.961	25.398	23.305	23.9610	23.9610
2.500	.750	31.5	25.109	24.359	25.797	23.704	24.3590	24.3590
2.500	.750	32.0	25.506	24.756	26.195	24.103	24.7560	24.7560
2.500	.750	32.5	25.903	25.153	26.593	24.502	25.1530	25.1530
2.500	.750	33.0	26.300	25.550	26.991	24.901	25.5500	25.5500
2.500	.750	33.5	26.698	25.948	27.389	25.300	25.9480	25.9480
2.500	.750	34.0	27.095	26.345	27.787	25.699	26.3450	26.3450
2.500	.750	34.5	27.492	26.742	28.185	26.098	26.7420	26.7420
2.500	.750	35.0	27.890	27.140	28.584	26.497	27.1400	27.1400
2.500	.750	35.5	28.287	27.537	28.982	26.896	27.5370	27.5370
2.500	.750	36.0	28.684	27.934	29.379	27.295	27.9340	27.9340
2.500	.750	36.5	29.082	28.332	29.778	27.694	28.3320	28.3320
2.500	.750	37.0	29.479	28.729	30.176	28.093	28.7290	28.7290
2.500	.750	37.5	29.876	29.126	30.574	28.492	29.1260	29.1260
2.500	.750	38.0	30.274	29.524	30.972	28.891	29.5240	29.5240
2.500	.750	38.5	30.671	29.921	31.370	29.289	29.9210	29.9210
2.500	.750	39.0	31.069	30.319	31.769	29.688	30.3190	30.3190
2.500	.750	39.5	31.466	30.716	32.166	30.087	30.7160	30.7160
2.500	.750	40.0	31.864	31.114	32.565	30.486	31.1140	31.1140
2.500	.750	40.5	32.261	31.511	32.963	30.884	31.5110	31.5110
2.500	.750	41.0	32.659	31.909	33.361	31.283	31.9090	31.9090
2.500	.750	41.5	33.056	32.306	33.759	31.682	32.3060	32.3060
2.500	.750	42.0	33.454	32.704	34.157	32.080	32.7040	32.7040
2.500	.750	42.5	33.851	33.101	34.555	32.479	33.1010	33.1010
2.500	.750	43.0	34.249	33.499	34.953	32.877	33.4990	33.4990
2.500	.750	43.5	34.646	33.896	35.351	33.276	33.8960	33.8960
2.500	.750	44.0	35.044	34.294	35.749	33.675	34.2940	34.2940
2.500	.750	44.5	35.442	34.691	36.147	34.073	34.6910	34.6910
2.500	.750	45.0	35.840	35.089	36.545	34.472	35.0890	35.0890
2.500	.750	45.5	36.237	35.487	36.944	34.870	35.4870	35.4870
2.500	.750	46.0	36.634	35.884	37.341	35.269	35.8840	35.8840
2.500	.750	46.5	37.032	36.282	37.740	35.667	36.2820	36.2820
2.500	.750	47.0	37.429	36.679	38.137	36.066	36.6790	36.6790
2.500	.750	47.5	37.827	37.077	38.536	36.464	37.0770	37.0770
2.500	.750	48.0	38.224	37.474	38.933	36.863	37.4740	37.4740
2.500	.750	48.5	38.622	37.872	39.332	37.261	37.8720	37.8720
2.500	.750	49.0	39.020	38.270	39.730	37.660	38.2700	38.2700
2.500	.750	49.5	39.417	38.667	40.127	38.058	38.6670	38.6670
2.500	.750	50.0	39.815	39.065	40.526	38.456	39.0650	39.0650
2.500	.750	50.5	40.213	39.463	40.924	38.855	39.4630	39.4630
2.500	.750	51.0	40.610	39.860	41.322	39.253	39.8600	39.8600
2.500	.750	51.5	41.008	40.258	41.720	39.652	40.2580	40.2580
2.500	.750	52.0	41.405	40.655	42.117	40.050	40.6550	40.6550
2.500	.750	52.5	41.803	41.053	42.516	40.448	41.0530	41.0530
2.500	.750	53.0	42.201	41.451	42.914	40.847	41.4510	41.4510
2.500	.750	53.5	42.598	41.848	43.311	41.245	41.8480	41.8480
2.500	.750	54.0	42.996	42.246	43.710	41.643	42.2460	42.2460
2.500	.750	54.5	43.394	42.644	44.108	42.042	42.6440	42.6440
2.500	.750	55.0	43.791	43.041	44.505	42.440	43.0410	43.0410
2.500	.750	55.5	44.189	43.439	44.904	42.838	43.4390	43.4390
2.500	.750	56.0	44.586	43.837	45.302	43.237	43.8370	43.8370
2.500	.750	56.5	44.984	44.234	45.699	43.635	44.2340	44.2340
2.500	.750	57.0	45.382	44.632	46.098	44.033	44.6320	44.6320
2.500	.750	57.5	45.780	45.030	46.496	44.432	45.0300	45.0300
2.500	.750	58.0	46.178	45.426	46.894	44.830	45.4260	45.4260
2.500	.750	58.5	46.575	45.825	47.291	45.228	45.8250	45.8250
2.500	.750	59.0	46.973	46.223	47.690	45.626	46.2230	46.2230
2.500	.750	59.5	47.371	46.621	48.088	46.025	46.6210	46.6210
2.500	.750	60.0	47.768	47.018	48.485	46.423	47.0180	47.0180
2.500	.750	60.5	48.166	47.416	48.884	46.821	47.4160	47.4160
2.500	.750	61.0	48.564	47.814	49.282	47.219	47.8140	47.8140
2.500	.750	61.5	48.961	48.211	49			

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TABLE IX CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
2.500	.750	64.0	50.950	50.200	51.669	49.609	50.2000	50.2000
2.500	.750	64.5	51.348	50.598	52.068	50.007	50.5942	50.5942
2.500	.750	65.0	51.746	50.996	52.466	50.405	50.9960	50.9960
2.500	.750	65.5	52.143	51.393	52.863	50.803	51.3893	51.3893
2.500	.750	66.0	52.541	51.791	53.261	51.201	51.7910	51.7910
2.500	.750	66.5	52.938	52.189	53.659	51.600	52.1853	52.1853
2.500	.750	67.0	53.336	52.586	54.057	51.998	52.5860	52.5860
2.500	.750	67.5	53.734	52.984	54.455	52.396	52.9804	52.9804
2.500	.750	68.0	54.132	53.382	54.853	52.794	53.3820	53.3820
2.500	.750	68.5	54.530	53.780	55.251	53.192	53.7764	53.7764
2.500	.750	69.0	54.927	54.177	55.649	53.591	54.1628	54.1628
2.500	.750	69.5	55.325	54.575	56.047	53.989	54.5475	54.5475
2.500	.750	70.0	55.723	54.973	56.445	54.387	54.9330	54.9330
2.500	.750	70.5	56.121	55.371	56.843	54.785	55.3187	55.3187
2.500	.750	71.0	56.518	55.768	57.240	55.183	55.7042	55.7042
2.500	.750	71.5	56.916	56.166	57.639	55.581	56.0897	56.0897
2.500	.750	72.0	57.314	56.564	58.037	55.979	56.4752	56.4752
2.500	.750	72.5	57.712	56.962	58.435	56.378	56.8607	56.8607
2.500	.750	73.0	58.109	57.359	58.832	56.776	57.2462	57.2462
2.500	.750	73.5	58.507	57.757	59.230	57.174	57.6317	57.6317
2.500	.750	74.0	58.905	58.155	59.628	57.572	58.0172	58.0172
2.500	.750	74.5	59.303	58.553	60.027	57.970	58.4027	58.4027
2.500	.750	75.0	59.701	58.951	60.425	58.368	58.7882	58.7882
2.500	.750	75.5	60.098	59.348	60.822	58.766	59.1737	59.1737
2.500	.750	76.0	60.496	59.746	61.220	59.164	59.5592	59.5592
2.500	.750	76.5	60.894	60.144	61.618	59.563	59.9447	59.9447
2.500	.750	77.0	61.292	60.542	62.017	59.961	60.3302	60.3302
2.500	.750	77.5	61.689	60.939	62.414	60.359	60.7157	60.7157
2.500	.750	78.0	62.087	61.337	62.812	60.757	61.1012	61.1012
2.500	.750	78.5	62.485	61.735	63.210	61.155	61.4867	61.4867
2.500	.750	79.0	62.883	62.133	63.608	61.553	61.8722	61.8722
2.500	.750	79.5	63.281	62.531	64.006	61.951	62.2577	62.2577
2.500	.750	80.0	63.678	62.928	64.403	62.349	62.6432	62.6432
2.500	.750	80.5	64.076	63.326	64.802	62.747	63.0287	63.0287
2.500	.750	81.0	64.474	63.724	65.200	63.145	63.4142	63.4142
2.500	.750	81.5	64.872	64.122	65.598	63.544	63.7997	63.7997
2.500	.750	82.0	65.269	64.519	65.995	63.942	64.1852	64.1852
2.500	.750	82.5	65.667	64.917	66.393	64.340	64.5707	64.5707
2.500	.750	83.0	66.065	65.315	66.791	64.738	64.9562	64.9562
2.500	.750	83.5	66.463	65.713	67.189	65.136	65.3417	65.3417
2.500	.750	84.0	66.861	66.111	67.588	65.534	65.7272	65.7272
2.500	.750	84.5	67.258	66.508	67.985	65.932	66.1127	66.1127
2.500	.750	85.0	67.656	66.906	68.383	66.330	66.4982	66.4982
2.500	.750	85.5	68.054	67.304	68.781	66.728	66.8837	66.8837
2.500	.750	86.0	68.452	67.702	69.179	67.126	67.2692	67.2692
2.500	.750	86.5	68.850	68.100	69.577	67.524	67.6547	67.6547
2.500	.750	87.0	69.247	68.497	69.974	67.922	68.0402	68.0402
2.500	.750	87.5	69.645	68.895	70.373	68.320	68.4257	68.4257
2.500	.750	88.0	70.043	69.293	70.771	68.718	68.8112	68.8112
2.500	.750	88.5	70.441	69.691	71.169	69.116	69.1967	69.1967
2.500	.750	89.0	70.839	70.089	71.567	69.514	69.5822	69.5822
2.500	.750	89.5	71.236	70.486	71.964	69.913	69.9677	69.9677
2.500	.750	90.0	71.634	70.884	72.362	70.311	70.3532	70.3532
2.500	.750	90.5	72.032	71.282	72.760	70.709	70.7387	70.7387
2.500	.750	91.0	72.430	71.680	73.158	71.107	71.1242	71.1242
2.500	.750	91.5	72.828	72.078	73.557	71.505	71.5097	71.5097
2.500	.750	92.0	73.226	72.476	73.955	71.903	71.8952	71.8952
2.500	.750	92.5	73.623	72.873	74.352	72.301	72.2807	72.2807
2.500	.750	93.0	74.021	73.271	74.750	72.699	72.6662	72.6662
2.500	.750	93.5	74.419	73.669	75.148	73.097	73.0517	73.0517
2.500	.750	94.0	74.817	74.067	75.546	73.495	73.4372	73.4372
2.500	.750	94.5	75.215	74.465	75.944	73.893	73.8227	73.8227
2.500	.750	95.0	75.612	74.862	76.341	74.291	74.2082	74.2082
2.500	.750	95.5	76.010	75.260	76.739	74.689	74.5937	74.5937
2.500	.750	96.0	76.408	75.658	77.137	75.087	74.9892	74.9892
2.500	.750	96.5	76.806	76.056	77.535	75.485	75.3847	75.3847
2.500	.750	97.0	77.204	76.454	77.933	75.883	75.7802	75.7802
2.500	.750	97.5	77.602	76.852	78.331	76.281	76.1757	76.1757
2.500	.750	98.0	78.000	77.250	78.729	76.679	76.5712	76.5712
2.500	.750	98.5	78.398	77.648	79.127	77.077	76.9667	76.9667
2.500	.750	99.0	78.796	78.046	79.525	77.475	77.3622	77.3622
2.500	.750	99.5	79.194	78.444	79.923	77.873	77.7577	77.7577
2.500	.750	100.0	79.592	78.842	80.321	78.271	78.1532	78.1532
2.500	.750	100.5	79.990	79.240	80.719	78.669	78.5487	78.5487
2.500	.750	101.0	80.388	79.638	81.117	79.067	78.9442	78.9442
2.500	.750	101.5	80.786	80.036	81.515	79.465	79.3397	79.3397
2.500	.750	102.0	81.184	80.434	81.913	79.863	79.7352	79.7352
2.500	.750	102.5	81.582	80.832	82.311	80.261	80.1307	80.1307
2.500	.750	103.0	81.980	81.230	82.709	80.659	80.5262	80.5262
2.500	.750	103.5	82.378	81.628	83.107	81.057	80.9217	80.9217
2.500	.750	104.0	82.776	82.026	83.505	81.455	81.3172	81.3172
2.500	.750	104.5	83.174	82.424	83.903	81.853	81.7127	81.7127
2.500	.750	105.0	83.572	82.822	84.301	82.251	82.1082	82.1082
2.500	.750	105.5	83.970	83.220	84.699	82.649	82.5037	82.5037
2.500	.750	106.0	84.368	83.618	85.097	83.047	82.8992	82.8992
2.500	.750	106.5	84.766	84.016	85.495	83.445	83.2947	83.2947
2.500	.750	107.0	85.164	84.414	85.893	83.843	83.6902	83.6902
2.500	.750	107.5	85.562	84.812	86.291	84.241	84.0857	84.0857
2.500	.750	108.0	85.960	85.210	86.689	84.639	84.4812	84.4812
2.500	.750	108.5	86.358	85.608	87.087	85.037	84.8767	84.8767
2.500	.750	109.0	86.756	86.006	87.485	85.435	85.2722	85.2722
2.500	.750	109.5	87.154	86.404	87.883	85.833	85.6677	85.6677
2.500	.750	110.0	87.552	86.802	88.281	86.231	86.0632	86.0632
2.500	.750	110.5	87.950	87.200	88.679	86.629	86.4587	86.4587
2.500	.750	111.0	88.348	87.598	89.077	87.027	86.8542	86.8542
2.500	.750	111.5	88.746	87.996	89.475	87.425	87.2497	87.2497
2.500	.750	112.0	89.144	88.394	89.873	87.823	87.6452	87.6452
2.500	.750	112.5	89.542	88.792	90.271	88.221	88.0407	88.0407
2.500	.750	113.0	89.940	89.190	90.669	88.619	88.4362	88.4362
2.500	.750	113.5	90.338	89.588	91.067	89.017	88.8317	88.8317
2.500	.750	114.0	90.736	89.986	91.465	89.415	89.2272	89.2272
2.500	.750	114.5	91.134	90.384	91.863	89.813	89.6227	89.6227
2.500	.750	115.0	91.532	90.782	92.261	90.211	90.0182	90.0182
2.500	.750	115.5	91.930	91.180	92.659	90.609	90.4137	90.4137
2.500	.750	116.0	92.328	91.578	93.057	91.007	90.8092	90.8092
2.500	.750	116.5	92.726	91.976	93.455	91.405	91.2047	91.2047
2.500	.750	117.0	93.124	92.374	93.853	91.803	91.6002	91.6002
2.500	.750	117.5	93.522	92.772	94.251	92.201	91.9957	91.9957
2.500	.750	118.0	93.920	93.170	94.649	92.599	92.3912	92.3912
2.500	.750	118.5	94.318	93.568	95.047	92.997	92.7867	92.7867
2.500	.750	119.0	94.716	93.966	95.445	93.395	93.1822	93.1822
2.500	.750	119.5	95.114	94.364	95.843	93.793	93.5777	93.5777
2.500	.750	120.0	95.512	94.762	96.241	94.191	93.9732	93.9732
2.500	.750	120.5	95.910	95.160	96.639	94.589	94.3687	94.3687
2.500	.750	121.0	96.308	95.558	97.037	94.987	94.7642	94.7642
2.500	.750	121.5	96.706	95.956	97.435	95.385	95.1597	95.1597
2.500	.750	122.0	97.104	96.354	97.833	95.783	95.5552	95.5552
2.500	.750	122.5	97.502	96.752	98.231	96.181	95.9507	95.9507
2.500	.750	123.0	97.900	97.150	98.629	96.579	96.3462	96.3462
2.500	.750	123.5	98.298	97.548	99.027	96.977	96.7417	96.7417
2.500	.750	124.0	98.696	97.946	99.425	97.375	97.1372	97.1372
2.500	.75							

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TABLE IX CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
3.000	.875	31.5	30.130	29.255	30.955	28.450	29.7320	29.2456
3.000	.875	32.0	30.607	29.732	31.433	28.930	29.7320	29.7320
3.000	.875	32.5	31.084	30.209	31.911	29.408	30.1999	30.1999
3.000	.875	33.0	31.560	30.685	32.387	29.887	30.6850	30.6850
3.000	.875	33.5	32.037	31.162	32.867	30.366	31.1632	31.1632
3.000	.875	34.0	32.514	31.639	33.345	30.845	31.6390	31.6390
3.000	.875	34.5	32.991	32.116	33.823	31.323	32.1175	32.1175
3.000	.875	35.0	33.468	32.592	34.300	31.803	32.5920	32.5920
3.000	.875	35.5	33.944	33.069	34.778	32.281	33.0697	33.0697
3.000	.875	36.0	34.421	33.546	35.256	32.760	33.5460	33.5460
3.000	.875	36.5	34.898	34.023	35.733	33.239	34.0230	34.0230
3.000	.875	37.0	35.375	34.500	36.211	33.717	34.5000	34.5000
3.000	.875	37.5	35.852	34.977	36.689	34.196	34.9770	34.9770
3.000	.875	38.0	36.329	35.454	37.167	34.675	35.4540	35.4540
3.000	.875	38.5	36.806	35.931	37.645	35.153	35.9310	35.9310
3.000	.875	39.0	37.283	36.408	38.123	35.632	36.4080	36.4080
3.000	.875	39.5	37.760	36.885	38.600	36.110	36.8850	36.8850
3.000	.875	40.0	38.236	37.361	39.077	36.589	37.3610	37.3610
3.000	.875	40.5	38.713	37.838	39.555	37.067	37.8380	37.8380
3.000	.875	41.0	39.190	38.315	40.033	37.545	38.3150	38.3150
3.000	.875	41.5	39.667	38.792	40.510	38.024	38.7920	38.7920
3.000	.875	42.0	40.144	39.269	40.988	38.502	39.2690	39.2690
3.000	.875	42.5	40.621	39.746	41.466	38.981	39.7460	39.7460
3.000	.875	43.0	41.099	40.224	41.944	39.459	40.2240	40.2240
3.000	.875	43.5	41.576	40.701	42.422	39.937	40.7010	40.7010
3.000	.875	44.0	42.053	41.178	42.899	40.415	41.1780	41.1780
3.000	.875	44.5	42.530	41.655	43.377	40.894	41.6550	41.6550
3.000	.875	45.0	43.007	42.132	43.855	41.372	42.1320	42.1320
3.000	.875	45.5	43.484	42.609	44.332	41.850	42.6090	42.6090
3.000	.875	46.0	43.961	43.086	44.810	42.328	43.0860	43.0860
3.000	.875	46.5	44.438	43.563	45.287	42.807	43.5630	43.5630
3.000	.875	47.0	44.915	44.040	45.765	43.285	44.0400	44.0400
3.000	.875	47.5	45.392	44.517	46.242	43.763	44.5170	44.5170
3.000	.875	48.0	45.869	44.994	46.720	44.241	44.9940	44.9940
3.000	.875	48.5	46.346	45.471	47.197	44.719	45.4710	45.4710
3.000	.875	49.0	46.824	45.949	47.676	45.197	45.9490	45.9490
3.000	.875	49.5	47.301	46.426	48.153	45.676	46.4260	46.4260
3.000	.875	50.0	47.778	46.903	48.631	46.154	46.9030	46.9030
3.000	.875	50.5	48.255	47.380	49.108	46.632	47.3800	47.3800
3.000	.875	51.0	48.732	47.857	49.586	47.110	47.8570	47.8570
3.000	.875	51.5	49.209	48.334	50.063	47.588	48.3340	48.3340
3.000	.875	52.0	49.687	48.812	50.542	48.066	48.8120	48.8120
3.000	.875	52.5	50.164	49.289	51.019	48.544	49.2890	49.2890
3.000	.875	53.0	50.641	49.766	51.497	49.022	49.7660	49.7660
3.000	.875	53.5	51.118	50.243	51.974	49.500	50.2430	50.2430
3.000	.875	54.0	51.595	50.720	52.451	49.978	50.7200	50.7200
3.000	.875	54.5	52.073	51.198	52.930	50.456	51.1980	51.1980
3.000	.875	55.0	52.550	51.675	53.407	50.934	51.6750	51.6750
3.000	.875	55.5	53.027	52.152	53.885	51.412	52.1520	52.1520
3.000	.875	56.0	53.504	52.629	54.362	51.890	52.6290	52.6290
3.000	.875	56.5	53.981	53.106	54.839	52.368	53.1060	53.1060
3.000	.875	57.0	54.458	53.584	55.316	52.846	53.5840	53.5840
3.000	.875	57.5	54.935	54.061	55.793	53.324	54.0610	54.0610
3.000	.875	58.0	55.413	54.538	56.272	53.802	54.5380	54.5380
3.000	.875	58.5	55.890	55.015	56.750	54.280	55.0150	55.0150
3.000	.875	59.0	56.367	55.492	57.227	54.758	55.4920	55.4920
3.000	.875	59.5	56.844	55.970	57.705	55.235	55.9700	55.9700
3.000	.875	60.0	57.321	56.447	58.183	55.713	56.4470	56.4470
3.000	.875	60.5	57.798	56.924	58.660	56.191	56.9240	56.9240
3.000	.875	61.0	58.275	57.401	59.137	56.669	57.4010	57.4010
3.000	.875	61.5	58.752	57.879	59.616	57.147	57.8790	57.8790
3.000	.875	62.0	59.229	58.356	60.093	57.625	58.3560	58.3560
3.000	.875	62.5	59.706	58.833	60.570	58.103	58.8330	58.8330
3.000	.875	63.0	60.183	59.310	61.047	58.581	59.3100	59.3100
3.000	.875	63.5	60.660	59.787	61.524	59.058	59.7870	59.7870
3.000	.875	64.0	61.137	60.264	62.001	59.535	60.2640	60.2640
3.000	.875	64.5	61.614	60.741	62.478	60.012	60.7410	60.7410
3.000	.875	65.0	62.091	61.218	62.955	60.489	61.2180	61.2180
3.000	.875	65.5	62.568	61.695	63.432	60.966	61.6950	61.6950
3.000	.875	66.0	63.045	62.172	63.909	61.443	62.1720	62.1720
3.000	.875	66.5	63.522	62.649	64.386	61.920	62.6490	62.6490
3.000	.875	67.0	64.000	63.126	64.863	62.397	63.1260	63.1260
3.000	.875	67.5	64.477	63.603	65.340	62.874	63.6030	63.6030
3.000	.875	68.0	64.954	64.080	65.817	63.351	64.0800	64.0800
3.000	.875	68.5	65.431	64.557	66.294	63.828	64.5570	64.5570
3.000	.875	69.0	65.908	65.034	66.771	64.305	65.0340	65.0340
3.000	.875	69.5	66.385	65.511	67.248	64.782	65.5110	65.5110
3.000	.875	70.0	66.862	65.988	67.725	65.259	65.9880	65.9880
3.000	.875	70.5	67.339	66.465	68.202	65.736	66.4650	66.4650
3.000	.875	71.0	67.816	66.942	68.679	66.213	66.9420	66.9420
3.000	.875	71.5	68.293	67.419	69.156	66.690	67.4190	67.4190
3.000	.875	72.0	68.770	67.896	69.633	67.167	67.8960	67.8960
3.000	.875	72.5	69.247	68.373	70.110	67.644	68.3730	68.3730
3.000	.875	73.0	69.724	68.850	70.587	68.121	68.8500	68.8500
3.000	.875	73.5	70.201	69.327	71.064	68.598	69.3270	69.3270
3.000	.875	74.0	70.678	69.804	71.541	69.075	69.8040	69.8040
3.000	.875	74.5	71.155	70.281	72.018	69.552	70.2810	70.2810
3.000	.875	75.0	71.632	70.758	72.495	70.029	70.7580	70.7580
3.000	.875	75.5	72.109	71.235	72.972	70.506	71.2350	71.2350
3.000	.875	76.0	72.586	71.712	73.449	70.983	71.7120	71.7120
3.000	.875	76.5	73.063	72.189	73.926	71.460	72.1890	72.1890
3.000	.875	77.0	73.540	72.666	74.403	71.937	72.6660	72.6660
3.000	.875	77.5	74.017	73.143	74.880	72.414	73.1430	73.1430
3.000	.875	78.0	74.494	73.620	75.357	72.891	73.6200	73.6200
3.000	.875	78.5	74.971	74.097	75.834	73.368	74.0970	74.0970
3.000	.875	79.0	75.448	74.574	76.311	73.845	74.5740	74.5740
3.000	.875	79.5	75.925	75.051	76.788	74.322	75.0510	75.0510
3.000	.875	80.0	76.402	75.528	77.265	74.799	75.5280	75.5280
3.000	.875	80.5	76.879	76.005	77.742	75.276	76.0050	76.0050
3.000	.875	81.0	77.356	76.482	78.219	75.753	76.4820	76.4820
3.000	.875	81.5	77.833	76.959	78.696	76.230	76.9590	76.9590
3.000	.875	82.0	78.310	77.436	79.173	76.707	77.4360	77.4360
3.000	.875	82.5	78.787	77.913	79.650	77.184	77.9130	77.9130
3.000	.875	83.0	79.264	78.390	80.127	77.661	78.3900	78.3900
3.000	.875	83.5	79.741	78.867	80.604	78.138	78.8670	78.8670
3.000	.875	84.0	80.218	79.344	81.081	78.615	79.3440	79.3440
3.000	.875	84.5	80.695	79.821	81.558	79.092	79.8210	79.8210
3.000	.875	85.0	81.172	80.298	82.035	79.569	80.2980	80.2980
3.000	.875	85.5	81.649	80.775	82.512	80.046	80.7750	80.7750
3.000	.875	86.0	82.126	81.252	82.989	80.523	81.2520	81.2520
3.000	.875	86.5	82.603	81.729	83.466	81.000	81.7290	81.7290
3.000	.875	87.0	83.080	82.206	83.943	81.477	82.2060	82.2060
3.000	.875	87.5	83.557	82.683	84.420	81.954	82.6830	82.6830
3.000	.875	88.0	84.034	83.160	84.897	82.431	83.1600	83.1600
3.000	.875	88.5	84.511	83.637	85.374	82.908	83.6370	83.6370
3.000	.875	89.0	84.988	84.114	85.851	83.385	84.1140	84.1140
3.000	.875	89.5	85.465	84.591	86.328	83.862	84.5910	84.5910
3.000	.875	90.0	85.942	85.068	86.805	84.339	85.0680	85.0680
3.000	.875	90.5	86.419	85.545	87.282	84.816	85.5450	85.5450
3.000	.875	91.0	86.896	86.022	87.759	85.293	86.0220	86.0220
3.000	.875	91.5	87.373	86.499	88.236	85.770	86.4990	86.4990
3.000	.875	92.0	87.850	86.976	88.713	86.24		



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TABLE IX CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
3.000	.875	94.5	90.257	89.382	91.132	88.678	89.3789	37.7851
3.000	.875	95.0	90.735	89.860	91.610	89.155	89.8600	37.7851
3.000	.875	95.5	91.212	90.337	92.087	89.633	90.3399	37.7851
3.000	.875	96.0	91.690	90.815	92.565	90.111	90.8150	37.7851
3.000	.875	96.5	92.167	91.292	93.043	90.588	91.2920	37.7851
3.000	.875	97.0	92.644	91.769	93.520	91.066	91.7690	37.7851
3.000	.875	97.5	93.122	92.247	94.000	91.544	92.2470	37.7851
3.000	.875	98.0	93.599	92.724	94.475	92.021	92.7240	37.7851
3.000	.875	98.5	94.077	93.202	94.953	92.499	93.2020	37.7851
3.000	.875	99.0	94.554	93.679	95.430	92.976	93.6790	37.7851
3.000	.875	99.5	95.031	94.156	95.907	93.454	94.1560	37.7851
3.000	.875	100.0	95.509	94.634	96.385	93.932	94.6340	37.7851
4.000	1.125	5.0	6.805	5.680	7.355	3.476	5.3469	38.3623
4.000	1.125	5.5	7.309	6.274	8.032	4.194	5.8500	38.3623
4.000	1.125	6.0	7.803	6.768	8.702	4.898	6.3531	38.3623
4.000	1.125	6.5	8.307	7.262	9.376	5.604	6.8562	38.3623
4.000	1.125	7.0	8.811	7.756	10.050	6.310	7.3593	38.3623
4.000	1.125	7.5	9.315	8.250	10.724	7.016	7.8624	38.3623
4.000	1.125	8.0	9.819	8.744	11.398	7.722	8.3655	38.3623
4.000	1.125	8.5	10.323	9.238	12.072	8.428	8.8686	38.3623
4.000	1.125	9.0	10.827	9.732	12.746	9.134	9.3717	38.3623
4.000	1.125	9.5	11.331	10.226	13.420	9.840	9.8748	38.3623
4.000	1.125	10.0	11.835	10.720	14.094	10.546	10.3779	38.3623
4.000	1.125	10.5	12.339	11.214	14.768	11.252	10.8810	38.3623
4.000	1.125	11.0	12.843	11.708	15.442	11.958	11.3841	38.3623
4.000	1.125	11.5	13.347	12.202	16.116	12.664	11.8872	38.3623
4.000	1.125	12.0	13.851	12.696	16.790	13.370	12.3903	38.3623
4.000	1.125	12.5	14.355	13.190	17.464	14.076	12.8934	38.3623
4.000	1.125	13.0	14.859	13.684	18.138	14.782	13.3965	38.3623
4.000	1.125	13.5	15.363	14.178	18.812	15.488	13.8996	38.3623
4.000	1.125	14.0	15.867	14.672	19.486	16.194	14.4027	38.3623
4.000	1.125	14.5	16.371	15.166	20.160	16.900	14.9058	38.3623
4.000	1.125	15.0	16.875	15.660	20.834	17.606	15.4089	38.3623
4.000	1.125	15.5	17.379	16.154	21.508	18.312	15.9120	38.3623
4.000	1.125	16.0	17.883	16.648	22.182	19.018	16.4151	38.3623
4.000	1.125	16.5	18.387	17.142	22.856	19.724	16.9182	38.3623
4.000	1.125	17.0	18.891	17.636	23.530	20.430	17.4213	38.3623
4.000	1.125	17.5	19.395	18.130	24.204	21.136	17.9244	38.3623
4.000	1.125	18.0	19.899	18.624	24.878	21.842	18.4275	38.3623
4.000	1.125	18.5	20.403	19.118	25.552	22.548	18.9306	38.3623
4.000	1.125	19.0	20.907	19.612	26.226	23.254	19.4337	38.3623
4.000	1.125	19.5	21.411	20.106	26.900	23.960	19.9368	38.3623
4.000	1.125	20.0	21.915	20.600	27.574	24.666	20.4399	38.3623
4.000	1.125	20.5	22.419	21.094	28.248	25.372	20.9430	38.3623
4.000	1.125	21.0	22.923	21.588	28.922	26.078	21.4461	38.3623
4.000	1.125	21.5	23.427	22.082	29.596	26.784	21.9492	38.3623
4.000	1.125	22.0	23.931	22.576	30.270	27.490	22.4523	38.3623
4.000	1.125	22.5	24.435	23.070	30.944	28.196	22.9554	38.3623
4.000	1.125	23.0	24.939	23.564	31.618	28.902	23.4585	38.3623
4.000	1.125	23.5	25.443	24.058	32.292	29.608	23.9616	38.3623
4.000	1.125	24.0	25.947	24.552	32.966	30.314	24.4647	38.3623
4.000	1.125	24.5	26.451	25.046	33.640	31.020	24.9678	38.3623
4.000	1.125	25.0	26.955	25.540	34.314	31.726	25.4709	38.3623
4.000	1.125	25.5	27.459	26.034	34.988	32.432	25.9740	38.3623
4.000	1.125	26.0	27.963	26.528	35.662	33.138	26.4771	38.3623
4.000	1.125	26.5	28.467	27.022	36.336	33.844	26.9802	38.3623
4.000	1.125	27.0	28.971	27.516	37.010	34.550	27.4833	38.3623
4.000	1.125	27.5	29.475	28.010	37.684	35.256	27.9864	38.3623
4.000	1.125	28.0	29.979	28.504	38.358	35.962	28.4895	38.3623
4.000	1.125	28.5	30.483	28.998	39.032	36.668	28.9926	38.3623
4.000	1.125	29.0	30.987	29.492	39.706	37.374	29.4957	38.3623
4.000	1.125	29.5	31.491	29.986	40.380	38.080	29.9988	38.3623
4.000	1.125	30.0	31.995	30.480	41.054	38.786	30.5019	38.3623
4.000	1.125	30.5	32.499	30.974	41.728	39.492	31.0050	38.3623
4.000	1.125	31.0	33.003	31.468	42.402	40.198	31.5081	38.3623
4.000	1.125	31.5	33.507	31.962	43.076	40.904	32.0112	38.3623
4.000	1.125	32.0	34.011	32.456	43.750	41.610	32.5143	38.3623
4.000	1.125	32.5	34.515	32.950	44.424	42.316	33.0174	38.3623
4.000	1.125	33.0	35.019	33.444	45.098	43.022	33.5205	38.3623
4.000	1.125	33.5	35.523	33.938	45.772	43.728	34.0236	38.3623
4.000	1.125	34.0	36.027	34.432	46.446	44.434	34.5267	38.3623
4.000	1.125	34.5	36.531	34.926	47.120	45.140	35.0298	38.3623
4.000	1.125	35.0	37.035	35.420	47.794	45.846	35.5329	38.3623
4.000	1.125	35.5	37.539	35.914	48.468	46.552	36.0360	38.3623
4.000	1.125	36.0	38.043	36.408	49.142	47.258	36.5391	38.3623
4.000	1.125	36.5	38.547	36.902	49.816	47.964	37.0422	38.3623
4.000	1.125	37.0	39.051	37.396	50.490	48.670	37.5453	38.3623
4.000	1.125	37.5	39.555	37.890	51.164	49.376	38.0484	38.3623
4.000	1.125	38.0	40.059	38.384	51.838	50.082	38.5515	38.3623
4.000	1.125	38.5	40.563	38.878	52.512	50.788	39.0546	38.3623
4.000	1.125	39.0	41.067	39.372	53.186	51.494	39.5577	38.3623
4.000	1.125	39.5	41.571	39.866	53.860	52.200	40.0608	38.3623
4.000	1.125	40.0	42.075	40.360	54.534	52.906	40.5639	38.3623
4.000	1.125	40.5	42.579	40.854	55.208	53.612	41.0670	38.3623
4.000	1.125	41.0	43.083	41.348	55.882	54.318	41.5701	38.3623
4.000	1.125	41.5	43.587	41.842	56.556	55.024	42.0732	38.3623
4.000	1.125	42.0	44.091	42.336	57.230	55.730	42.5763	38.3623
4.000	1.125	42.5	44.595	42.830	57.904	56.436	43.0794	38.3623
4.000	1.125	43.0	45.099	43.324	58.578	57.142	43.5825	38.3623
4.000	1.125	43.5	45.603	43.818	59.252	57.848	44.0856	38.3623
4.000	1.125	44.0	46.107	44.312	59.926	58.554	44.5887	38.3623
4.000	1.125	44.5	46.611	44.806	60.600	59.260	45.0918	38.3623
4.000	1.125	45.0	47.115	45.300	61.274	59.966	45.5949	38.3623
4.000	1.125	45.5	47.619	45.794	61.948	60.672	46.0980	38.3623
4.000	1.125	46.0	48.123	46.288	62.622	61.378	46.6011	38.3623
4.000	1.125	46.5	48.627	46.782	63.296	62.084	47.1042	38.3623
4.000	1.125	47.0	49.131	47.276	63.970	62.790	47.6073	38.3623
4.000	1.125	47.5	49.635	47.770	64.644	63.496	48.1104	38.3623
4.000	1.125	48.0	50.139	48.264	65.318	64.202	48.6135	38.3623
4.000	1.125	48.5	50.643	48.758	65.992	64.908	49.1166	38.3623
4.000	1.125	49.0	51.147	49.252	66.666	65.614	49.6197	38.3623
4.000	1.125	49.5	51.651	49.746	67.340	66.320	50.1228	38.3623
4.000	1.125	50.0	52.155	50.240	68.014	67.026	50.6259	38.3623
4.000	1.125	50.5	52.659	50.734	68.688	67.732	51.1290	38.3623
4.000	1.125	51.0	53.163	51.228	69.362	68.438	51.6321	38.3623
4.000	1.125	51.5	53.667	51.722	70.036	69.144	52.1352	38.3623
4.000	1.125	52.0	54.171	52.216	70.710	69.850	52.6383	38.3623
4.000	1.125	52.5	54.675	52.710	71.384	70.556	53.1414	38.3623
4.000	1.125	53.0	55.179	53.204	72.058	71.262	53.6445	38.3623
4.000	1.125	53.5	55.683	53.698	72.732	71.968	54.1476	38.3623
4.000	1.125	54.0	56.187	54.192	73.406	72.674	54.6507	38.3623
4.000	1.125	54.5	56.691	54.686	74.080	73.380	55.1538	38.3623
4.000	1.125	55.0	57.195	55.180	74.754	74.086	55.6569	38.3623
4.000	1.125	55.5	57.699	55.674	75.428	74.792	56.1600	38.3623
4.000	1.125	56.0	58.203	56.168	76.102	75.498	56.6631	38.3623
4.000	1.125	56.5	58.707	56.662	76.776	76.204	57.1662	38.3623
4.000	1.125	57.0	59.211	57.156	77.450	76.910	57.6693	38.3623
4.000	1.125	57.5	59.715	57.650	78.124	77.616	58.1724	38.3623
4.000	1.125	58.0	60.219	58.144	78.798	78.		

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TABLE IX CONTINUED

P	D	NE	PD	BD	OD	MHD	CD-1	CD-2
4.000	1.125	62.5	78.975	77.850	60.124	76.843	77.8500	77.8500
4.000	1.125	63.5	79.611	78.486	60.761	77.480	78.4797	78.4797
4.000	1.125	64.5	80.247	79.122	61.397	78.118	79.1220	79.1220
4.000	1.125	65.5	80.884	79.759	62.035	78.755	79.7558	79.7558
4.000	1.125	66.5	81.520	80.395	62.671	79.392	80.3950	80.3950
4.000	1.125	67.5	82.156	81.031	63.307	80.029	81.0249	81.0249
4.000	1.125	68.5	82.793	81.666	63.945	80.666	81.6660	81.6660
4.000	1.125	69.5	83.429	82.304	64.581	81.303	82.2980	82.2980
4.000	1.125	70.5	84.066	82.941	65.218	81.940	82.9410	82.9410
4.000	1.125	71.5	84.702	83.577	65.855	82.577	83.5711	83.5711
4.000	1.125	72.5	85.338	84.213	66.491	83.213	84.2130	84.2130
4.000	1.125	73.5	85.975	84.850	67.128	83.852	84.8442	84.8442
4.000	1.125	74.5	86.611	85.486	67.765	84.489	85.4860	85.4860
4.000	1.125	75.5	87.247	86.122	68.401	85.126	86.1163	86.1163
4.000	1.125	76.5	87.884	86.759	69.038	85.763	86.7593	86.7593
4.000	1.125	77.5	88.520	87.395	69.675	86.400	87.3893	87.3893
4.000	1.125	78.5	89.157	88.032	70.312	87.037	88.0320	88.0320
4.000	1.125	79.5	89.793	88.668	70.948	87.674	88.6664	88.6664
4.000	1.125	80.5	90.430	89.305	71.586	88.311	89.3030	89.3030
4.000	1.125	81.5	91.066	89.941	72.222	88.948	90.9395	90.9395
4.000	1.125	82.5	91.702	90.577	72.858	89.585	91.5770	91.5770
4.000	1.125	83.5	92.339	91.214	73.496	90.222	92.2086	92.2086
4.000	1.125	84.5	92.975	91.850	74.132	90.859	92.8500	92.8500
4.000	1.125	85.5	93.612	92.487	74.769	91.496	93.4817	93.4817
4.000	1.125	86.5	94.248	93.123	75.406	92.133	94.1230	94.1230
4.000	1.125	87.5	94.884	93.759	76.042	92.770	94.7537	94.7537
4.000	1.125	88.5	95.521	94.396	76.679	93.407	95.3960	95.3960
4.000	1.125	89.5	96.157	95.032	77.315	94.044	96.0268	96.0268
4.000	1.125	90.5	96.794	95.669	77.953	94.681	96.6690	96.6690
4.000	1.125	91.5	97.430	96.305	78.589	95.318	97.2959	97.2959
4.000	1.125	92.5	98.067	96.942	79.226	95.955	97.9420	97.9420
4.000	1.125	93.5	98.703	97.578	79.862	96.592	98.5729	98.5729
4.000	1.125	94.5	99.340	98.215	80.498	97.229	99.2150	99.2150
4.000	1.125	95.5	99.976	98.851	81.136	97.866	99.8460	99.8460
4.000	1.125	96.5	100.612	99.487	81.772	98.504	100.4770	100.4770
4.000	1.125	97.5	101.249	100.124	82.409	99.140	101.1191	101.1191
4.000	1.125	98.5	101.885	100.760	83.046	99.777	101.7600	101.7600
4.000	1.125	99.5	102.522	101.397	83.683	100.414	102.3921	102.3921
4.000	1.125	100.5	103.158	102.033	84.319	101.051	103.0230	103.0230
4.000	1.125	101.5	103.795	102.670	84.956	101.688	103.6542	103.6542
4.000	1.125	102.5	104.431	103.306	85.593	102.325	104.2860	104.2860
4.000	1.125	103.5	105.068	103.943	86.230	102.961	104.9182	104.9182
4.000	1.125	104.5	105.704	104.579	86.866	103.598	105.5529	105.5529
4.000	1.125	105.5	106.341	105.216	87.503	104.235	106.1860	106.1860
4.000	1.125	106.5	106.977	105.852	88.140	104.872	106.8190	106.8190
4.000	1.125	107.5	107.614	106.489	88.777	105.509	107.4520	107.4520
4.000	1.125	108.5	108.250	107.125	89.413	106.146	108.0850	108.0850
4.000	1.125	109.5	108.886	107.761	89.999	106.783	108.7180	108.7180
4.000	1.125	110.5	109.523	108.398	90.636	107.420	109.3510	109.3510
4.000	1.125	111.5	110.159	109.034	91.273	108.057	110.0258	110.0258
4.000	1.125	112.5	110.796	109.671	91.910	108.694	110.6710	110.6710
4.000	1.125	113.5	111.432	110.307	92.546	109.331	111.3162	111.3162
4.000	1.125	114.5	112.069	109.944	93.183	109.967	111.9610	111.9610
4.000	1.125	115.5	112.705	110.580	93.820	110.604	121.6040	121.6040
4.000	1.125	116.5	113.342	111.217	94.457	111.241	112.2470	112.2470
4.000	1.125	117.5	113.978	111.853	95.094	111.878	112.8886	112.8886
4.000	1.125	118.5	114.615	112.490	95.731	112.515	113.5300	113.5300
4.000	1.125	119.5	115.251	113.126	96.368	113.152	114.1717	114.1717
4.000	1.125	120.5	115.888	113.763	96.999	113.789	114.8130	114.8130
4.000	1.125	121.5	116.524	114.399	97.636	114.426	115.4547	115.4547
4.000	1.125	122.5	117.161	115.036	98.273	115.062	116.0960	116.0960
4.000	1.125	123.5	117.797	115.673	98.910	115.699	116.7377	116.7377
4.000	1.125	124.5	118.434	116.309	99.547	116.336	117.3791	117.3791
4.000	1.125	125.5	119.071	116.946	100.184	116.973	118.0204	118.0204
4.000	1.125	126.5	119.708	117.583	100.821	117.610	118.6617	118.6617
4.000	1.125	127.5	120.345	118.220	101.458	118.247	119.3030	119.3030
4.000	1.125	128.5	120.982	118.857	102.095	118.884	119.9443	119.9443
4.000	1.125	129.5	121.619	119.494	102.732	119.521	120.5856	120.5856
4.000	1.125	130.5	122.256	120.131	103.369	120.158	121.2269	121.2269
4.000	1.125	131.5	122.893	120.768	104.006	120.795	121.8682	121.8682
4.000	1.125	132.5	123.530	121.405	104.643	121.432	122.5095	122.5095
4.000	1.125	133.5	124.167	122.042	105.280	122.069	123.1508	123.1508
4.000	1.125	134.5	124.804	122.679	105.917	122.706	123.7921	123.7921
4.000	1.125	135.5	125.441	123.316	106.554	123.343	124.4334	124.4334
4.000	1.125	136.5	126.078	123.953	107.191	123.980	125.0747	125.0747
4.000	1.125	137.5	126.715	124.590	107.828	124.617	125.7160	125.7160
4.000	1.125	138.5	127.352	125.227	108.465	125.254	126.3573	126.3573
4.000	1.125	139.5	127.989	125.864	109.102	125.891	126.9986	126.9986
4.000	1.125	140.5	128.626	126.501	109.739	126.528	127.6399	127.6399
4.000	1.125	141.5	129.263	127.138	110.376	127.165	128.2812	128.2812
4.000	1.125	142.5	129.900	127.775	111.013	127.802	128.9225	128.9225
4.000	1.125	143.5	130.537	128.412	111.650	128.439	129.5638	129.5638
4.000	1.125	144.5	131.174	129.049	112.287	129.076	130.2051	130.2051
4.000	1.125	145.5	131.811	129.686	112.924	129.713	130.8464	130.8464
4.000	1.125	146.5	132.448	130.323	113.561	130.350	131.4877	131.4877
4.000	1.125	147.5	133.085	130.960	114.198	130.987	132.1290	132.1290
4.000	1.125	148.5	133.722	131.597	114.835	131.624	132.7703	132.7703
4.000	1.125	149.5	134.359	132.234	115.472	132.261	133.4116	133.4116
4.000	1.125	150.5	134.996	132.871	116.109	132.898	134.0529	134.0529
4.000	1.125	151.5	135.633	133.508	116.746	133.535	134.6942	134.6942
4.000	1.125	152.5	136.270	134.145	117.383	134.172	135.3355	135.3355
4.000	1.125	153.5	136.907	134.782	118.020	134.809	135.9768	135.9768
4.000	1.125	154.5	137.544	135.419	118.657	135.446	136.6181	136.6181
4.000	1.125	155.5	138.181	136.056	119.294	136.083	137.2594	137.2594
4.000	1.125	156.5	138.818	136.693	119.931	136.720	137.9007	137.9007
4.000	1.125	157.5	139.455	137.330	120.568	137.357	138.5420	138.5420
4.000	1.125	158.5	140.092	137.967	121.205	137.994	139.1833	139.1833
4.000	1.125	159.5	140.729	138.604	121.842	138.631	139.8246	139.8246
4.000	1.125	160.5	141.366	139.241	122.479	139.268	140.4659	140.4659
4.000	1.125	161.5	142.003	139.878	123.116	139.905	141.1072	141.1072
4.000	1.125	162.5	142.640	140.515	123.753	140.542	141.7485	141.7485
4.000	1.125	163.5	143.277	141.152	124.390	141.179	142.3898	142.3898
4.000	1.125	164.5	143.914	141.789	125.027	141.816	143.0311	143.0311
4.000	1.125	165.5	144.551	142.426	125.664	142.453	143.6724	143.6724
4.000	1.125	166.5	145.188	143.063	126.301	143.090	144.3137	144.3137
4.000	1.125	167.5	145.825	143.700	126.938	143.727	144.9550	144.9550
4.000	1.125	168.5	146.462	144.337	127.575	144.364	145.5963	145.5963
4.000	1.125	169.5	147.099	144.974	128.212	144.999	146.2376	146.2376
4.000	1.125	170.5	147.736	145.611	128.849	145.636	146.8789	146.8789
4.000	1.125	171.5	148.373	146.248	129.486	146.273	147.5202	147.5202
4.000	1.125	172.5	149.010	146.885	130.123	146.910	148.1615	148.1615
4.000	1.125	173.5	149.647	147.522	130.760	147.547	148.8028	148.8028
4.000	1.125	174.5	150.284	148.159	131.397	148.184	149.4441	149.4441
4.000								

## 4. SPROCKET WHEELS FOR ROLLER CHAINS (ASA B29, 4 LARGE ROLLER SERIES) MIL-STD-423.

## A. DIAMETERS

Sprockets for double-pitch chains of the large roller series have one set of teeth. See Figure 22.

P = Chain Pitch  
PD = Pitch Diameter  
D = Roller Diameter  
N = Number of Teeth

Bottom Diameter of Sprocket = PD - D

$$\text{Pitch Diameter of Sprocket} = \frac{P}{\sin \frac{180^\circ}{N}}$$

Caliper Diameter for Even No. of Teeth = Bottom Diameter

$$\text{Caliper Diameter for Odd No. of Teeth} = PD \left( \cos \frac{90^\circ}{N} \right) - D$$

Tolerances on bottom or caliper diameter of sprockets:

Plus tolerance = 0.000  
Minus tolerance = 0.001  $P\sqrt{N} + 0.003$

Approximate Outside Diameter of Sprocket equals

$$PD + P \left( 0.6 - \tan \frac{90^\circ}{N} \right)$$

Maximum Hub Diameter (MHD) of Sprockets equals

$$P \left( \cot \frac{180^\circ}{N} - 0.5 \right) - .030$$

(but not to exceed Bottom Diameter - .030)

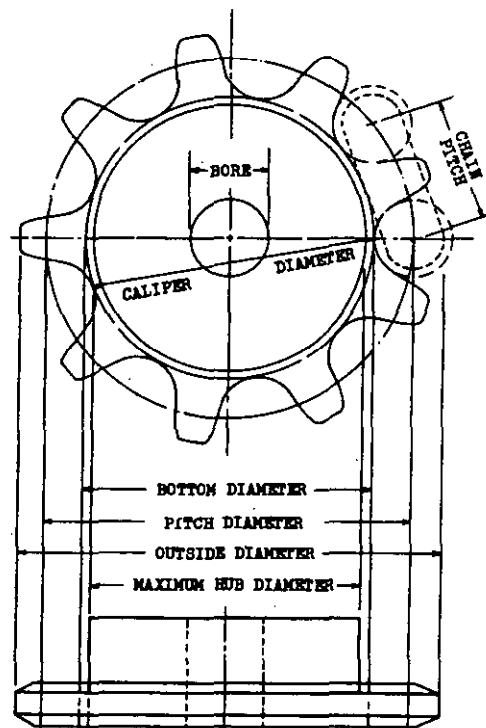
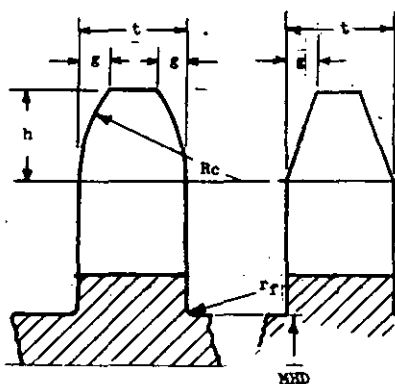


FIGURE 22 - DIAMETERS



The section profile shows the recommended chamfering of sprocket teeth.

W = Chain Width  
t = 0.93W - 0.006 (Maximum)

MHD = Maximum Hub Diameter

Tolerance on t when machined = Plus zero, minus (.01W + .006).

h = .25 P = Depth of chamfer  
g = 1/16 P approximately (but not to exceed  $\frac{W}{3}$ )

Rc min. = .532 P (approximately tangent to side) \* Chamfer radius.

r\_f max. = .02 P for maximum hub diameter (but not to exceed .040) = Fillet radius

\*\* Flange chamfer may be radial, straight, or anything in between.

\*\* FIGURE 23 - TOOTH PROFILE

TABLE A - SPROCKET TOOTH SECTION PROFILE (in inches)

ASA Chain No.	Pitch (P)	Width of Chain (W)	Maximum Sprocket Thickness (t)	*Minus Tolerance on (t)	Depth of Chamfer (h)	Width of Chamfer (g)	Minimum Radius (Rc)
C-2042	1	5/16	.284	.009	1/4	1/16	0.531
C-2052	1-1/4	3/8	.343	.010	5/16	5/64	0.664
C-2062	1-1/2	1/2	.459	.011	3/8	3/32	0.796
C-2082	2	5/8	.575	.012	1/2	1/8	1.062
C-2102	2-1/2	3/4	.692	.014	5/8	5/32	1.327
C-2122	3	1	.924	.016	3/4	3/16	1.593
C-2162	4	1-1/4	1.156	.019	1	1/4	2.124

\*When machined



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### C. TOOTH FORM

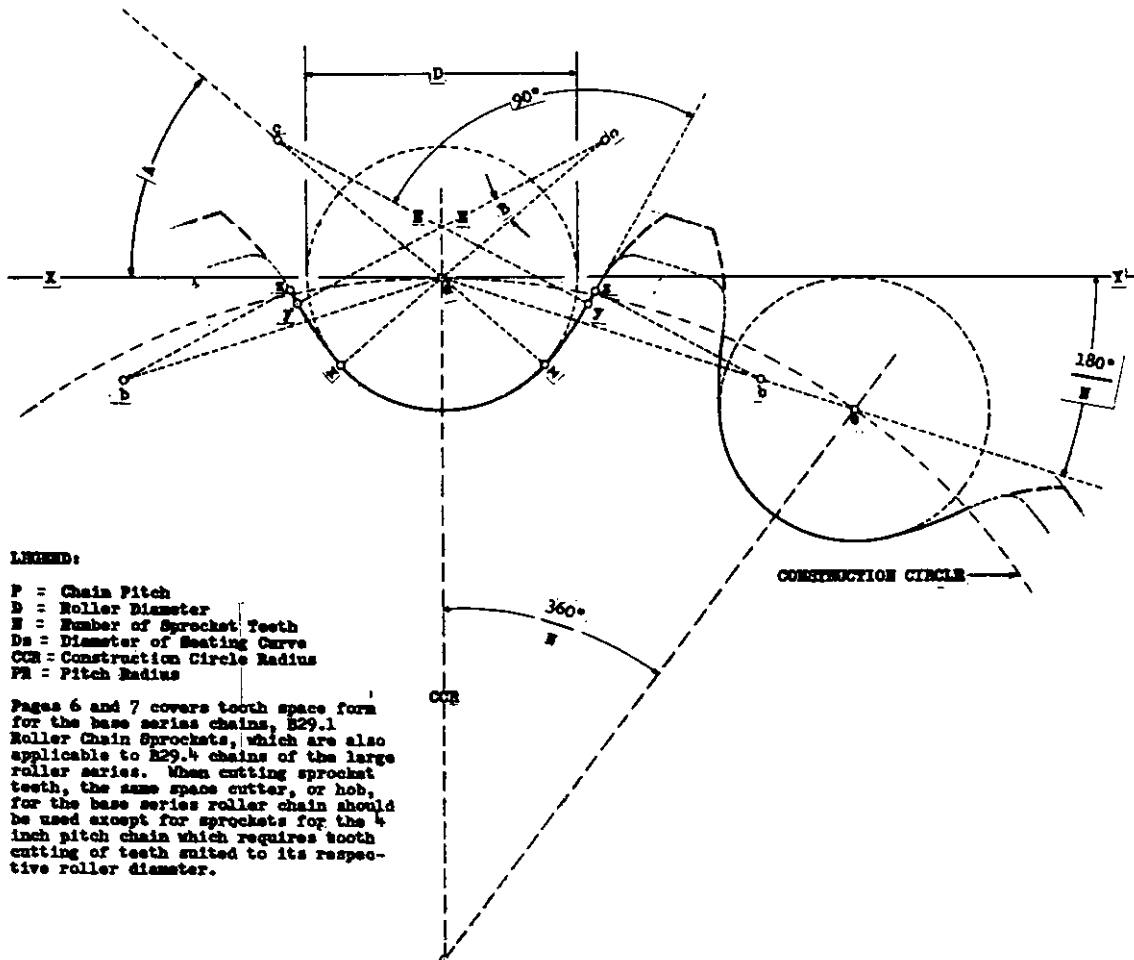


FIGURE 24 - TOOTH FORM

$$PR = \frac{P}{2} \sin\left(\frac{180^\circ}{N}\right)$$

$$CCR = PR + \frac{(1.005D + 0.003) - D}{2}$$

$$\text{Angle A} = 35^\circ + \frac{60^\circ}{N}$$

$$\text{Angle B} = 18^\circ - \frac{56^\circ}{N}$$

Distance E from c to y =  $1.3025D + 0.0015$

Tolerance on  $D_s$  is all plus and =  $0.003D + 0.005$ .

y to z =  $D \left[ 1.40 \sin\left(17^\circ - \frac{64^\circ}{N}\right) - 0.8 \sin\left(18^\circ - \frac{56^\circ}{N}\right) \right]$

Radius of topping curve,  $F = D \left[ 0.8 \cos\left(18^\circ - \frac{56^\circ}{N}\right) + 1.40 \cos\left(17^\circ - \frac{64^\circ}{N}\right) - 1.3025 \right] - 0.0015$

Line cy is parallel to line bs.

Point b is located on a line drawn from a to e.

Points a and e are the center of the seating curve radius.

Diameter of seating curve,  $D_s = 1.005D + 0.003$

Distance from a to b =  $1.40D$

Radius R of seating curve =  $\frac{D_s}{2} = 0.5025D + 0.0015$

Distance a to e may be assumed to equal pitch of chain.

Points a and e are located on the construction circle.

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TABLE XI - SPROCKET WHEELS FOR ROLLER CHAINS (ASA B29.4 LARGE ROLLER SERIES) MIL-STD-423

P	D	N	PD	BD	OD	MHD	CD
1.000	.625	5.	1.701	1.076	1.976	.846	.9927
1.000	.625	6.	2.000	1.375	2.332	1.202	1.3750
1.000	.625	7.	2.305	1.680	2.677	1.547	1.6222
1.000	.625	8.	2.613	1.988	3.014	1.884	1.9880
1.000	.625	9.	2.924	2.299	3.348	2.217	2.3546
1.000	.625	10.	3.236	2.611	3.673	2.546	2.6110
1.000	.625	11.	3.549	2.924	4.003	2.876	2.9240
1.000	.625	12.	3.864	3.239	4.332	3.202	3.2390
1.000	.625	13.	4.175	3.554	4.658	3.527	3.5235
1.000	.625	14.	4.494	3.869	4.981	3.851	3.8690
1.000	.625	15.	4.810	4.185	5.305	4.175	4.1587
1.000	.625	16.	5.126	4.501	5.628	4.497	4.5010
1.000	.625	17.	5.442	4.817	5.949	4.820	4.7938
1.000	.625	18.	5.759	5.134	6.272	5.141	5.1340
1.000	.625	19.	6.076	5.451	6.593	5.463	5.4302
1.000	.625	20.	6.392	5.767	6.913	5.784	5.7670
1.000	.625	21.	6.710	6.085	7.235	6.105	6.0662
1.000	.625	22.	7.027	6.402	7.556	6.425	6.4020
1.000	.625	23.	7.344	6.719	7.876	6.746	6.7019
1.000	.625	24.	7.661	7.036	8.196	7.066	7.0360
1.000	.625	25.	7.979	7.354	8.516	7.386	7.3383
1.000	.625	26.	8.296	7.671	8.836	7.706	7.6710
1.000	.625	27.	8.614	7.989	9.156	8.026	7.9744
1.000	.625	28.	8.931	8.306	9.475	8.345	8.3060
1.000	.625	29.	9.249	8.624	9.795	8.665	8.6104
1.000	.625	30.	9.567	8.942	10.115	8.984	8.9420
1.000	.625	31.	9.885	9.260	10.434	9.304	9.2670
1.000	.625	32.	10.202	9.577	10.753	9.623	9.5770
1.000	.625	33.	10.520	9.895	11.072	9.942	9.8931
1.000	.625	34.	10.838	10.213	11.392	10.262	10.2130
1.000	.625	35.	11.156	10.531	11.711	10.581	10.5198
1.000	.625	36.	11.474	10.849	12.030	10.900	10.8490
1.000	.625	37.	11.792	11.167	12.350	11.219	11.1564
1.000	.625	38.	12.110	11.485	12.669	11.536	11.4850
1.000	.625	39.	12.428	11.803	12.988	11.857	11.7929
1.000	.625	40.	12.745	12.120	13.306	12.176	12.1200
1.000	.625	41.	13.063	12.438	13.625	12.495	12.4284
1.000	.625	42.	13.381	12.756	13.944	12.814	12.7560
1.000	.625	43.	13.700	13.075	14.264	13.133	13.0659
1.000	.625	44.	14.018	13.393	14.582	13.452	13.3930
1.000	.625	45.	14.336	13.711	14.901	13.771	13.7022
1.000	.625	46.	14.654	14.029	15.220	14.089	14.0290
1.000	.625	47.	14.972	14.347	15.539	14.408	14.3386
1.000	.625	48.	15.290	14.665	15.857	14.727	14.6650
1.000	.625	49.	15.608	14.983	16.176	15.046	14.9750
1.000	.625	50.	15.926	15.301	16.495	15.365	15.3010
1.000	.625	51.	16.244	15.619	16.813	15.613	15.6113
1.000	.625	52.	16.562	15.937	17.132	16.002	15.9370
1.000	.625	53.	16.880	16.255	17.450	16.321	16.2476
1.000	.625	54.	17.198	16.573	17.769	16.639	16.5730
1.000	.625	55.	17.517	16.892	18.089	16.958	16.8849
1.000	.625	56.	17.835	17.210	18.407	17.277	17.2100
1.000	.625	57.	18.153	17.528	18.726	17.595	17.5211
1.000	.625	58.	18.471	17.846	19.044	17.914	17.8460
1.000	.625	59.	18.789	18.164	19.362	18.233	18.1573

P	D	N	PD	BD	OD	MHD	CD
1.000	.625	60.	19.107	18.482	19.681	18.551	18.4820
1.250	.750	5.	2.127	1.377	2.471	1.065	1.2729
1.250	.750	6.	2.500	1.750	2.915	1.310	1.7500
1.250	.750	7.	2.881	2.131	3.367	1.541	2.0508
1.250	.750	8.	3.266	2.516	3.821	1.793	2.5160
1.250	.750	9.	3.655	2.905	4.285	2.055	2.9050
1.250	.750	10.	4.045	3.295	4.750	2.320	3.2950
1.250	.750	11.	4.437	3.687	5.215	2.585	3.6870
1.250	.750	12.	4.830	4.080	5.681	2.850	4.0800
1.250	.750	13.	5.223	4.473	6.146	3.115	4.4730
1.250	.750	14.	5.617	4.867	6.611	3.380	4.8670
1.250	.750	15.	6.012	5.262	7.076	3.645	5.2620
1.250	.750	16.	6.407	5.657	7.541	3.910	5.6570
1.250	.750	17.	6.803	6.053	8.006	4.175	6.0530
1.250	.750	18.	7.198	6.448	8.471	4.440	6.4480
1.250	.750	19.	7.594	6.844	8.936	4.705	6.8440
1.250	.750	20.	7.991	7.241	9.401	4.970	7.2410
1.250	.750	21.	8.387	7.637	9.866	5.235	7.6370
1.250	.750	22.	8.783	8.033	10.331	5.500	8.0330
1.250	.750	23.	9.180	8.430	10.796	5.765	8.4300
1.250	.750	24.	9.577	8.827	11.261	6.030	8.8270
1.250	.750	25.	9.973	9.223	11.726	6.295	9.2230
1.250	.750	26.	10.370	9.620	12.191	6.560	9.6200
1.250	.750	27.	10.767	10.017	12.656	6.825	10.0170
1.250	.750	28.	11.164	10.414	13.121	7.090	10.4140
1.250	.750	29.	11.561	10.811	13.586	7.355	10.8110
1.250	.750	30.	11.958	11.208	14.051	7.620	11.2080
1.250	.750	31.	12.355	11.606	14.516	7.885	11.6060
1.250	.750	32.	12.753	12.003	14.981	8.150	12.0030
1.250	.750	33.	13.150	12.400	15.446	8.415	12.4000
1.250	.750	34.	13.547	12.797	15.911	8.680	12.7970
1.250	.750	35.	13.945	13.195	16.376	8.945	13.1950
1.250	.750	36.	14.342	13.592	16.841	9.210	13.5920
1.250	.750	37.	14.740	13.990	17.306	9.475	13.9900
1.250	.750	38.	15.137	14.387	17.771	9.740	14.3870
1.250	.750	39.	15.534	14.784	18.236	10.005	14.7840
1.250	.750	40.	15.932	15.182	18.701	10.270	15.1820
1.250	.750	41.	16.329	15.579	19.166	10.535	15.5790
1.250	.750	42.	16.727	15.977	19.631	10.800	15.9770
1.250	.750	43.	17.124	16.374	20.096	11.065	16.3740
1.250	.750	44.	17.522	16.772	20.561	11.330	16.7720
1.250	.750	45.	17.919	17.169	21.026	11.595	17.1690
1.250	.750	46.	18.317	17.567	21.491	11.860	17.5670
1.250	.750	47.	18.715	17.965	21.956	12.125	17.9650
1.250	.750	48.	19.112	18.362	22.421	12.390	18.3620
1.250	.750	49.	19.510	18.760	22.886	12.655	18.7600
1.250	.750	50.	19.907	19.157	23.351	12.920	19.1570
1.250	.750	51.	20.305	19.555	23.816	13.185	19.5550
1.250	.750	52.	20.703	19.953	24.281	13.450	19.9530
1.250	.750	53.	21.100	20.350	24.746	13.715	20.3500
1.250	.750	54.	21.498	20.748	25.211	13.980	20.7480
1.250	.750	55.	21.896	21.146	25.676	14.245	21.1460
1.250	.750	56.	22.293	21.543	26.141	14.510	21.5430
1.250	.750	57.	22.691	21.941	26.606	14.775	21.9410
1.250	.750	58.	23.089	22.339	27.071	15.040	22.3390
1.250	.750	59.	23.487	22.737	27.536	15.305	22.7370

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TABLE XI CONTINUED

P	D	N	PD	BD	OD	MHD	CD
1.500	.875	59.	23.886	22.736	24.203	22.798	22.7277
1.250	.750	60.	23.884	23.134	24.601	23.196	23.1340
1.500	.875	5.	2.552	1.677	2.955	1.285	1.5521
1.500	.875	6.	3.000	2.125	3.498	1.818	2.1250
1.500	.875	7.	3.457	2.582	4.015	2.335	2.4953
1.500	.875	8.	3.920	3.045	4.522	2.841	3.0450
1.500	.875	9.	4.386	3.511	5.022	3.341	3.4444
1.500	.875	10.	4.854	3.979	5.517	3.837	3.9790
1.500	.875	11.	5.324	4.449	6.008	4.329	4.3948
1.500	.875	12.	5.796	4.921	6.499	4.818	4.9210
1.500	.875	13.	6.268	5.393	6.986	5.306	5.3473
1.500	.875	14.	6.741	5.866	7.472	5.792	5.8660
1.500	.875	15.	7.215	6.340	7.957	6.277	6.3400
1.500	.875	16.	7.689	6.814	8.441	6.761	6.8140
1.500	.875	17.	8.163	7.288	8.924	7.244	7.2880
1.500	.875	18.	8.638	7.762	9.407	7.727	7.7620
1.500	.875	19.	9.113	8.238	9.889	8.209	8.2380
1.500	.875	20.	9.589	8.714	10.371	8.691	8.7140
1.500	.875	21.	10.064	9.189	10.852	9.172	9.1890
1.500	.875	22.	10.540	9.665	11.333	9.653	9.6650
1.500	.875	23.	11.016	10.141	11.813	10.133	10.1410
1.500	.875	24.	11.492	10.617	12.294	10.614	10.6170
1.500	.875	25.	11.968	11.093	12.774	11.094	11.0930
1.500	.875	26.	12.444	11.569	13.253	11.574	11.5690
1.500	.875	27.	12.921	12.046	13.734	12.053	12.0460
1.500	.875	28.	13.397	12.522	14.213	12.533	12.5220
1.500	.875	29.	13.874	12.999	14.693	13.012	13.0120
1.500	.875	30.	14.350	13.475	15.171	13.492	13.4750
1.500	.875	31.	14.827	13.952	15.651	13.971	13.9520
1.500	.875	32.	15.303	14.428	16.129	14.450	14.4280
1.500	.875	33.	15.780	14.905	16.609	14.929	14.8871
1.500	.875	34.	16.257	15.382	17.088	15.408	15.3820
1.500	.875	35.	16.734	15.859	17.567	15.886	15.8421
1.500	.875	36.	17.211	16.336	18.046	16.365	16.3360
1.500	.875	37.	17.687	16.812	18.523	16.844	16.7961
1.500	.875	38.	18.164	17.289	19.002	17.322	17.2890
1.500	.875	39.	18.641	17.766	19.481	17.801	17.7590
1.500	.875	40.	19.118	18.243	19.959	18.279	18.2430
1.500	.875	41.	19.595	18.720	20.438	18.758	18.7056
1.500	.875	42.	20.072	19.197	20.916	19.236	19.1970
1.500	.875	43.	20.549	19.674	21.394	19.714	19.6603
1.500	.875	44.	21.026	20.151	21.872	20.193	20.1510
1.500	.875	45.	21.503	20.628	22.351	20.671	20.6149
1.500	.875	46.	21.980	21.105	22.829	21.149	21.1050
1.500	.875	47.	22.458	21.583	23.308	21.627	21.5705
1.500	.875	48.	22.935	22.060	23.786	22.106	22.0600
1.500	.875	49.	23.412	22.537	24.264	22.584	22.5250
1.500	.875	50.	23.889	23.014	24.742	23.062	23.0140
1.500	.875	51.	24.366	23.491	25.220	23.540	23.4794
1.500	.875	52.	24.843	23.968	25.698	24.018	23.9580
1.500	.875	53.	25.320	24.445	26.176	24.496	24.4339
1.500	.875	54.	25.798	24.923	26.655	24.974	24.9230
1.500	.875	55.	26.275	25.400	27.132	25.452	25.3893
1.500	.875	56.	26.752	25.877	27.610	25.930	25.8770
1.500	.875	57.	27.229	26.354	28.088	26.408	26.3437
1.500	.875	58.	27.707	26.832	28.566	26.886	26.8320
1.500	.875	59.	28.184	27.309	29.044	27.364	27.2990
1.500	.875	60.	28.661	27.786	29.522	27.842	27.7860
2.000	1.125	5.	4.003	2.278	3.953	2.434	2.1114
2.000	1.125	6.	4.610	3.485	5.354	3.123	3.3694
2.000	1.125	7.	5.226	4.101	6.028	3.798	4.1010
2.000	1.125	8.	5.848	4.723	6.695	4.465	4.6342
2.000	1.125	9.	6.472	5.347	7.355	5.125	5.3470
2.000	1.125	10.	7.099	5.974	8.012	5.781	5.9740
2.000	1.125	11.	7.727	6.602	8.664	6.434	6.6020
2.000	1.125	12.	8.357	7.232	9.314	7.084	7.2320
2.000	1.125	13.	8.988	7.863	9.963	7.733	7.8630
2.000	1.125	14.	9.619	8.494	10.609	8.379	8.4940
2.000	1.125	15.	10.252	9.127	11.255	9.025	9.1270
2.000	1.125	16.	10.884	9.759	11.899	9.669	9.7590
2.000	1.125	17.	11.518	10.393	12.543	10.313	10.3930
2.000	1.125	18.	12.151	11.026	13.185	10.955	10.9845
2.000	1.125	19.	12.785	11.660	13.828	11.598	11.6600
2.000	1.125	20.	13.419	12.294	14.469	12.239	12.2585
2.000	1.125	21.	14.053	12.928	15.110	12.880	12.9280
2.000	1.125	22.	14.688	13.563	15.751	13.521	13.5288
2.000	1.125	23.	15.323	14.198	16.392	14.162	14.1980
2.000	1.125	24.	15.957	14.832	17.031	14.802	14.8050
2.000	1.125	25.	16.592	15.467	17.671	15.441	15.4670
2.000	1.125	26.	17.228	16.103	18.312	16.081	16.0739
2.000	1.125	27.	17.863	16.738	18.951	16.720	16.7380
2.000	1.125	28.	18.498	17.373	19.590	17.360	17.3459
2.000	1.125	29.	19.134	18.009	20.229	17.999	18.0090
2.000	1.125	30.	19.769	18.644	20.868	18.636	18.6186
2.000	1.125	31.	20.405	19.280	21.507	19.276	19.2800
2.000	1.125	32.	21.040	19.915	22.145	19.915	19.9120
2.000	1.125	33.	21.676	20.551	22.784	20.553	20.5510
2.000	1.125	34.	22.312	21.187	23.422	21.192	21.1645
2.000	1.125	35.	22.947	21.822	24.060	21.830	21.8220
2.000	1.125	36.	23.583	22.458	24.698	22.468	22.4368
2.000	1.125	37.	24.219	23.094	25.336	23.106	23.0940
2.000	1.125	38.	24.855	23.730	25.975	23.744	23.7098
2.000	1.125	39.	25.491	24.366	26.613	24.382	24.3660
2.000	1.125	40.	26.127	25.002	27.250	25.020	24.9828
2.000	1.125	41.	26.763	25.638	27.888	25.658	25.6380
2.000	1.125	42.	27.399	26.274	28.526	26.296	26.2557
2.000	1.125	43.	28.035	26.910	29.164	26.934	26.9100
2.000	1.125	44.	28.671	27.546	29.801	27.571	27.5285
2.000	1.125	45.	29.307	28.182	30.439	28.209	28.1820
2.000	1.125	46.	29.943	28.818	31.076	28.847	28.8013
2.000	1.125	47.	30.580	29.455	31.715	29.484	29.4550
2.000	1.125	48.	31.216	30.091	32.352	30.122	30.0750
2.000	1.125	49.	31.852	30.727	32.989	30.759	30.7270
2.000	1.125	50.	32.488	31.363	33.626	31.397	31.3476
2.000	1.125	51.	33.124	31.999	34.264	32.034	31.9990
2.000	1.125	52.	33.761	32.636	34.902	32.671	32.6212
2.000	1.125	53.	34.397	33.272	35.539	33.309	33.2720
2.000	1.125	54.	35.033	33.908	36.176	33.946	33.8937
2.000	1.125	55.	35.669	34.544	36.813	34.583	34.5440
2.000	1.125	56.	36.305	35.180	37.450	35.220	35.1800
2.000	1.125	57.	36.941	35.816	38.087	35.856	35.8160
2.000	1.125	58.	37.577	36.452	38.724	36.493	36.4520
2.000	1.125	59.	38.213	37.088	39.361	37.129	37.0880
2.000	1.125	60.	38.849	37.724	40.000	37.770	37.7240

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TABLE II CONTINUED

P	D	N	PD	BD	OD	MHD	CD
2.500	1.125	57.	36.306	35.181	37.451	35.221	35.1672
2.500	1.125	58.	36.942	35.817	38.088	35.858	35.8170
2.500	1.125	59.	37.578	36.453	38.725	36.495	36.4397
2.500	1.125	60.	38.215	37.090	39.363	37.132	37.0900
2.500	1.563	5.	4.253	2.690	4.941	2.161	2.4818
2.500	1.563	6.	5.000	3.437	5.830	3.080	3.4370
2.500	1.563	7.	5.762	4.199	6.692	3.911	4.80545
2.500	1.563	8.	6.533	4.970	7.536	4.756	4.9700
2.500	1.563	9.	7.310	5.747	8.369	5.599	5.6359
2.500	1.563	10.	8.090	6.527	9.194	6.414	6.5270
2.500	1.563	11.	8.874	7.311	10.015	7.234	7.2207
2.500	1.563	12.	9.659	8.096	10.830	8.050	8.0960
2.500	1.563	13.	10.446	8.883	11.643	8.853	8.8068
2.500	1.563	14.	11.235	9.672	12.454	9.673	9.6720
2.500	1.563	15.	12.024	10.461	13.261	10.482	10.3951
2.500	1.563	16.	12.815	11.252	14.069	11.288	11.2520
2.500	1.563	17.	13.605	12.042	14.874	12.094	11.9840
2.500	1.563	18.	14.397	12.834	15.679	12.898	12.8340
2.500	1.563	19.	15.189	13.626	16.482	13.702	13.6260
2.500	1.563	20.	15.981	14.418	17.284	14.504	14.4180
2.500	1.563	21.	16.774	15.211	18.087	15.306	15.1641
2.500	1.563	22.	17.567	16.004	18.888	16.108	16.0040
2.500	1.563	23.	18.360	16.797	19.689	16.909	16.7542
2.500	1.563	24.	19.153	17.590	20.489	17.709	17.5900
2.500	1.563	25.	19.947	18.384	21.290	18.510	18.3846
2.500	1.563	26.	20.741	19.178	22.090	19.309	19.1780
2.500	1.563	27.	21.534	19.971	22.889	20.109	19.9710
2.500	1.563	28.	22.329	20.766	23.689	20.908	20.7660
2.500	1.563	29.	23.123	21.560	24.488	21.707	21.5600
2.500	1.563	30.	23.917	22.354	25.286	22.506	22.3540
2.500	1.563	31.	24.711	23.148	26.084	23.305	23.1480
2.500	1.563	32.	25.506	23.943	26.883	24.103	23.9430
2.500	1.563	33.	26.300	24.737	27.681	24.901	24.7370
2.500	1.563	34.	27.095	25.532	28.480	25.699	25.5320
2.500	1.563	35.	27.890	26.327	29.278	26.497	26.3270
2.500	1.563	36.	28.684	27.121	30.075	27.295	27.1210
2.500	1.563	37.	29.479	27.916	30.873	28.093	27.9160
2.500	1.563	38.	30.274	28.711	31.671	28.891	28.7110
2.500	1.563	39.	31.069	29.506	32.469	29.688	29.5060
2.500	1.563	40.	31.864	30.301	33.266	30.486	30.3010
2.500	1.563	41.	32.659	31.096	34.063	31.283	31.0960
2.500	1.563	42.	33.454	31.891	34.861	32.080	31.8910
2.500	1.563	43.	34.249	32.686	35.658	32.877	32.6860
2.500	1.563	44.	35.044	33.481	36.455	33.675	33.4810
2.500	1.563	45.	35.839	34.276	37.252	34.472	34.2760
2.500	1.563	46.	36.634	35.071	38.049	35.269	35.0710
2.500	1.563	47.	37.429	35.866	38.846	36.066	35.8660
2.500	1.563	48.	38.224	36.661	39.642	36.863	36.6610
2.500	1.563	49.	39.020	37.457	40.440	37.660	37.4570
2.500	1.563	50.	39.815	38.252	41.237	38.456	38.2520
2.500	1.563	51.	40.610	39.047	42.033	39.253	39.0470
2.500	1.563	52.	41.405	39.842	42.830	40.050	39.8420
2.500	1.563	53.	42.201	40.638	43.627	40.847	40.6380
2.500	1.563	54.	42.996	41.433	44.424	41.644	41.4330
2.500	1.563	55.	43.791	42.228	45.220	42.440	42.2280
2.500	1.563	56.	44.586	43.023	46.017	43.237	43.0230
2.500	1.563	57.	45.381	43.818	46.814	44.034	43.8180
2.500	1.563	58.	46.176	44.613	47.611	44.831	44.6130
2.500	1.563	59.	46.971	45.408	48.408	45.628	45.4080
2.500	1.563	60.	47.766	46.203	49.205	46.425	46.2030
2.500	1.563	61.	48.561	46.998	50.002	47.222	46.9980
2.500	1.563	62.	49.356	47.793	50.799	48.019	47.7930
2.500	1.563	63.	50.151	48.588	51.596	48.816	48.5880
2.500	1.563	64.	50.946	49.383	52.393	49.613	49.3830
2.500	1.563	65.	51.741	50.178	53.190	50.410	50.1780
2.500	1.563	66.	52.536	50.973	53.987	51.207	50.9730
2.500	1.563	67.	53.331	51.768	54.784	52.004	51.7680
2.500	1.563	68.	54.126	52.563	55.581	52.801	52.5630
2.500	1.563	69.	54.921	53.358	56.378	53.598	53.3580
2.500	1.563	70.	55.716	54.153	57.175	54.395	54.1530
2.500	1.563	71.	56.511	54.948	57.972	55.192	54.9480
2.500	1.563	72.	57.306	55.743	58.769	55.989	55.7430
2.500	1.563	73.	58.101	56.538	59.566	56.786	56.5380
2.500	1.563	74.	58.896	57.333	60.363	57.583	57.3330
2.500	1.563	75.	59.691	58.128	61.160	58.380	58.1280
2.500	1.563	76.	60.486	58.923	61.957	59.177	58.9230
2.500	1.563	77.	61.281	59.718	62.754	59.974	59.7180
2.500	1.563	78.	62.076	60.513	63.551	60.771	60.5130
2.500	1.563	79.	62.871	61.308	64.348	61.568	61.3080
2.500	1.563	80.	63.666	62.103	65.145	62.365	62.1030
2.500	1.563	81.	64.461	62.898	65.942	63.162	62.8980
2.500	1.563	82.	65.256	63.693	66.739	63.959	63.6930
2.500	1.563	83.	66.051	64.488	67.536	64.756	64.4880
2.500	1.563	84.	66.846	65.283	68.333	65.553	65.2830
2.500	1.563	85.	67.641	66.078	69.130	66.350	66.0780
2.500	1.563	86.	68.436	66.873	69.927	67.147	66.8730
2.500	1.563	87.	69.231	67.668	70.724	67.944	67.6680
2.500	1.563	88.	70.026	68.463	71.521	68.741	68.4630
2.500	1.563	89.	70.821	69.258	72.318	69.538	69.2580
2.500	1.563	90.	71.616	70.053	73.115	70.335	70.0530
2.500	1.563	91.	72.411	70.848	73.912	71.132	70.8480
2.500	1.563	92.	73.206	71.643	74.709	71.929	71.6430
2.500	1.563	93.	74.001	72.438	75.506	72.726	72.4380
2.500	1.563	94.	74.796	73.233	76.303	73.523	73.2330
2.500	1.563	95.	75.591	74.028	77.100	74.320	74.0280
2.500	1.563	96.	76.386	74.823	77.897	75.117	74.8230
2.500	1.563	97.	77.181	75.618	78.694	75.914	75.6180
2.500	1.563	98.	77.976	76.413	79.491	76.711	76.4130
2.500	1.563	99.	78.771	77.208	80.288	77.508	77.2080
2.500	1.563	100.	79.566	78.003	81.085	78.305	78.0030
2.500	1.563	101.	80.361	78.798	81.882	79.102	78.7980
2.500	1.563	102.	81.156	79.593	82.679	79.899	79.5930
2.500	1.563	103.	81.951	80.388	83.476	80.696	80.3880
2.500	1.563	104.	82.746	81.183	84.273	81.493	81.1830
2.500	1.563	105.	83.541	81.978	85.070	82.290	81.9780
2.500	1.563	106.	84.336	82.773	85.867	83.087	82.7730
2.500	1.563	107.	85.131	83.568	86.664	83.884	83.5680
2.500	1.563	108.	85.926	84.363	87.461	84.681	84.3630
2.500	1.563	109.	86.721	85.158	88.258	85.478	85.1580
2.500	1.563	110.	87.516	85.953	89.055	86.275	85.9530
2.500	1.563	111.	88.311	86.748	89.852	87.072	86.7480
2.500	1.563	112.	89.106	87.543	90.649	87.869	87.5430
2.500	1.563	113.	89.901	88.338	91.446	88.666	88.3380
2.500	1.563	114.	90.696	89.133	92.243	89.463	89.1330
2.500	1.563	115.	91.491	89.928	93.040	90.260	89.9280
2.500	1.563	116.	92.286	90.723	93.837	91.057	90.7230
2.500	1.563	117.	93.081	91.518	94.634	91.854	91.5180
2.500	1.563	118.	93.876	92.313	95.431	92.651	92.3130
2.500	1.563	119.	94.671	93.108	96.228	93.448	93.1080
2.500	1.563	120.	95.466	93.903	97.025	94.245	93.9030
2.500	1.563	121.	96.261	94.698	97.822	95.042	94.6980
2.500	1.563	122.	97.056	95.493	98.619	95.839	95.4930
2.500	1.563	123.	97.851	96.288	99.416	96.636	96.2880
2.500	1.563	124.	98.646	97.083	100.213	97.433	97.0830
2.500	1.563	125.	99.441	97.878	101.010	98.230	97.8780
2.500	1.563	126.	100.236	98.673	101.807	99.027	98.6730
2.500	1.563	127.	101.031	99.468	102.604	99.824	99.4680
2.500	1.563	128.	101.826	100.263	103.401	100.621	100.2630
2.500	1.563	129.	102.621	101.058	104.198	101.418	101.0580
2.500	1.563	130.	103.416	101.853	104.995	102.215	101.8530
2.500	1.563	131.	104.211	102.648	105.792	103.012	102.6480
2.500	1.563	132.	105.006	103.443	106.589	103.809	103.4430
2.500	1.563	133.	105.801	104.238	107.386	104.606	104.2380
2.500	1.563	134.	106.596	105.033	108.183	105.403	105.0330
2.500	1.563	135.	107.391	105.828	108.980	106.200	105.8280
2.500	1.563	136.	108.186	106.623	109.777	106.997	106.6230
2.500	1.563	137.					

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TABLE XI CONTINUED

P	D	N	PD	BD	OD	MHD	CD
3.000	1.750	55.	52.550	50.800	54.265	50.934	50.7786
3.000	1.750	56.	53.504	51.754	55.220	51.890	51.7540
3.000	1.750	57.	54.459	52.709	56.177	52.846	52.6883
3.000	1.750	58.	55.413	53.663	57.132	53.802	53.6630
3.000	1.750	59.	56.367	54.617	58.087	54.758	54.5970
3.000	1.750	60.	57.322	55.572	59.044	55.713	55.5720
4.000	2.250	5.	6.805	4.555	7.905	3.476	4.2219
4.000	2.250	6.	8.000	5.750	9.328	4.898	5.7500
4.000	2.250	7.	9.219	6.969	10.706	6.276	6.7379
4.000	2.250	8.	10.453	8.203	12.057	7.627	8.2030
4.000	2.250	9.	11.695	9.445	13.390	8.960	9.2673
4.000	2.250	10.	12.944	10.694	14.711	10.281	10.6940
4.000	2.250	11.	14.198	11.948	16.023	11.593	11.8035
4.000	2.250	12.	15.455	13.205	17.329	12.898	13.2050
4.000	2.250	13.	16.714	14.464	18.628	14.199	14.3421
4.000	2.250	14.	17.976	15.726	19.926	15.495	15.7260
4.000	2.250	15.	19.239	16.989	21.219	16.789	16.8836
4.000	2.250	16.	20.503	18.253	22.509	18.079	18.2530
4.000	2.250	17.	21.769	19.519	23.797	19.368	19.4261
4.000	2.250	18.	23.035	20.785	25.081	20.655	20.7850
4.000	2.250	19.	24.302	22.052	26.371	21.941	21.9690
4.000	2.250	20.	25.570	23.320	27.655	23.225	23.3200
4.000	2.250	21.	26.838	24.588	28.938	24.508	24.5130
4.000	2.250	22.	28.107	25.857	30.221	25.791	25.8570
4.000	2.250	23.	29.376	27.126	31.502	27.072	27.0575
4.000	2.250	24.	30.645	28.395	32.783	28.353	28.3950
4.000	2.250	25.	31.915	29.665	34.063	29.633	29.6020
4.000	2.250	26.	33.185	30.935	35.343	30.913	30.9350
4.000	2.250	27.	34.455	32.205	36.622	32.192	32.1457
4.000	2.250	28.	35.726	33.476	37.902	33.471	33.4760
4.000	2.250	29.	36.996	34.746	39.179	34.749	34.6917
4.000	2.250	30.	38.267	36.017	40.457	36.027	36.0170
4.000	2.250	31.	39.538	37.288	41.735	37.305	37.2373
4.000	2.250	32.	40.809	38.559	43.013	38.583	38.5590
4.000	2.250	33.	42.080	39.830	44.290	39.860	39.7823
4.000	2.250	34.	43.352	41.102	45.567	41.137	41.1020
4.000	2.250	35.	44.623	42.373	46.843	42.414	42.3281
4.000	2.250	36.	45.895	43.645	48.121	43.690	43.6450
4.000	2.250	37.	47.167	44.917	49.397	44.967	44.8745
4.000	2.250	38.	48.438	46.188	50.673	46.243	46.1880
4.000	2.250	39.	49.710	47.460	51.949	47.519	47.4197
4.000	2.250	40.	50.982	48.732	53.225	48.795	48.7320
4.000	2.250	41.	52.254	50.004	54.501	50.071	49.9657
4.000	2.250	42.	53.526	51.276	55.776	51.346	51.2760
4.000	2.250	43.	54.798	52.548	57.052	52.622	52.5114
4.000	2.250	44.	56.070	53.820	58.327	53.897	53.8200
4.000	2.250	45.	57.342	55.092	59.602	55.173	55.0571
4.000	2.250	46.	58.615	56.365	60.879	56.448	56.3650
4.000	2.250	47.	59.887	57.637	62.153	57.723	57.6036
4.000	2.250	48.	61.159	58.909	63.428	58.998	58.9090
4.000	2.250	49.	62.432	60.182	64.704	60.273	60.1499
4.000	2.250	50.	63.704	61.454	65.978	61.548	61.4540
4.000	2.250	51.	64.976	62.726	67.253	62.823	62.6952
4.000	2.250	52.	66.249	63.999	68.528	64.098	63.9990
4.000	2.250	53.	67.521	65.271	69.803	65.373	65.2413

P	D	N	PD	BD	OD	MHD	CD
4.000	2.250	54.	68.794	66.544	71.078	66.647	66.5440
4.000	2.250	55.	70.066	67.816	72.352	67.922	67.7874
4.000	2.250	56.	71.339	69.089	73.627	69.197	69.0890
4.000	2.250	57.	72.611	70.361	74.901	70.471	70.3334
4.000	2.250	58.	73.884	71.634	76.176	71.746	71.6340
4.000	2.250	59.	75.157	72.907	77.451	73.020	72.8804
4.000	2.250	60.	76.429	74.179	78.726	74.295	74.1790

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## 5. SPROCKET WHEELS FOR ROLLER CHAINS (ASA B29.10) MIL-STD-424

## A. TYPES AND CROSS-SECTIONS

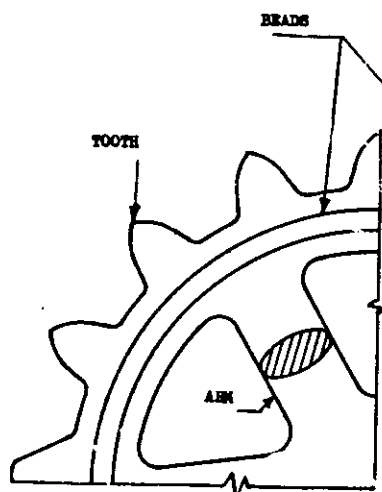


FIGURE 25 - PROFILE

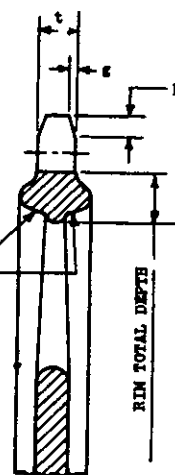


FIGURE 26 - WEB CENTER

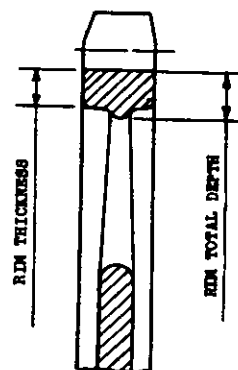


FIGURE 27 - PLATE CENTER

## ARM TYPES

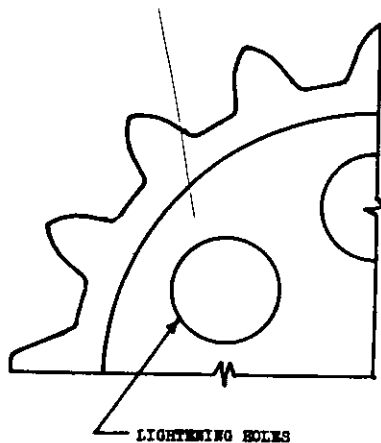


FIGURE 28 - PROFILE

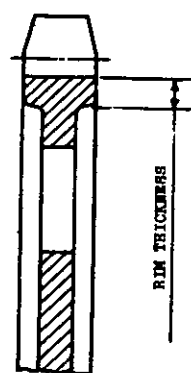


FIGURE 29 - WEB CENTER

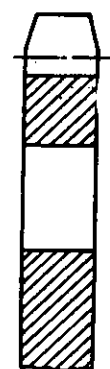


FIGURE 30 - PLATE CENTER

## SOLID CENTER TYPES

R = Roller Diameter.

W = Inside Width of Chain Between Sidebars.

g = approximately .2 t

h = approximately .5 R

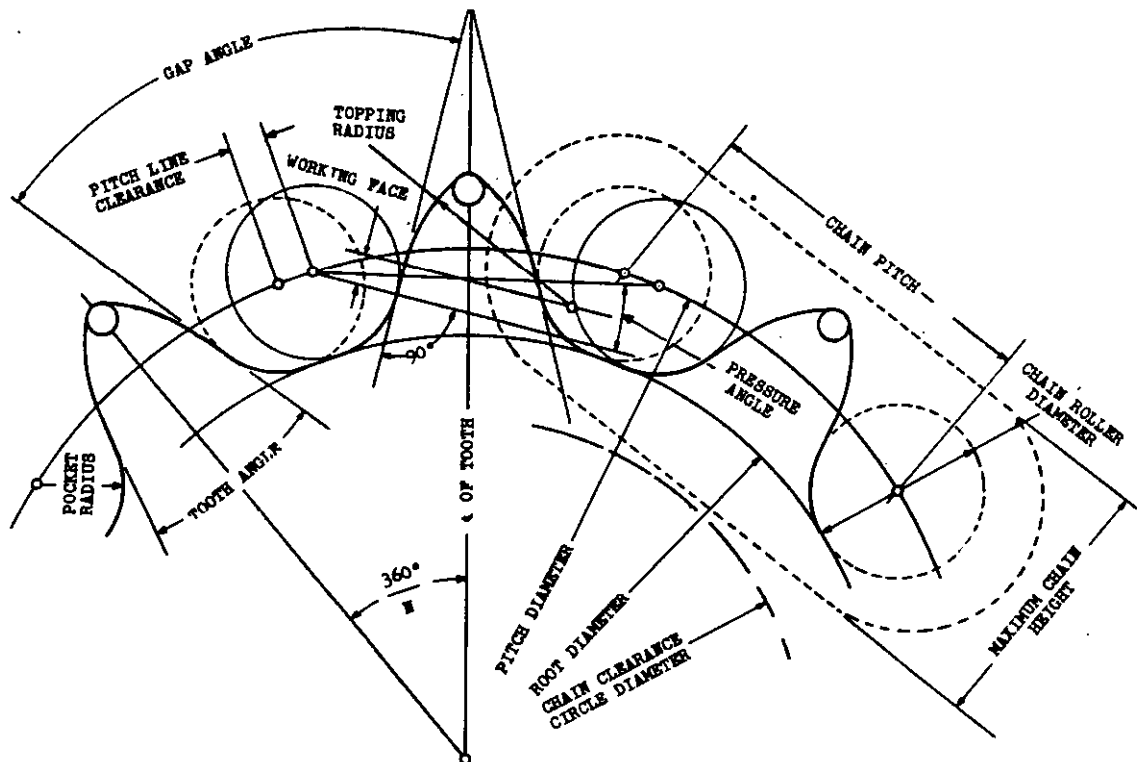
t (Max.) = .9 W

t (Max.) + allowable face run-out = .95 W

Maximum allowable face run-out = 1/16 inch per 12 inches of Pitch Diameter

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## B. TOOTH FORM AND MAXIMUM HUB DIAMETER



### LEGEND:

P = Chain Pitch  
C = Clearance Circle Factor  
U = Maximum Chain Height  
M = Pitch Diameter Factor  
N = Number of Teeth  
R = Chain Roller Diameter

FIGURE 31 - TOOTH FORM

### NOTES:

See Table 12 for Pressure Angle, Tooth Angle, C, M and N.

The elements of a chain sprocket and the tooth form may be determined by the followings:

$$\begin{aligned} \text{Pitch Diameter} &= (P)(M) = \frac{P}{\sin \frac{180^\circ}{N}} \\ * \text{Root Diameter (Maximum)} &= (P)(M) - R \\ ** \text{Chain Clearance Circle} &= (P)(C) - U \\ \text{Pitch Line Clearance} &= 0.1(P) \\ \text{Pitch Diameter Factor} &= \csc \frac{180}{N} \\ \text{Clearance Circle Factor} &= \cot \frac{180}{N} - .05 \\ \text{Gap Angle as shown} & \\ \text{Pressure Angle as shown} & \\ *** \text{Working Face} &= 0.01(P)(N) \\ * \text{Pocket Radius (Maximum)} &= R/2 \\ \text{Topping Radius} &= 0.5(P) \\ \text{Tooth Angle as shown} & \end{aligned}$$

\* Root diameters and pocket radii must not exceed the maximums obtained from these formulae. Oversize dimensions cause improper chain and sprocket action and excessive chain loads.

\*\* No portion of hub, beads, lugs, or fillets shall extend beyond this circle in the sidebar zone.

\*\*\* Tooth working face length provides for approximately 6 percent chain pitch elongation for sprockets having less than 40 teeth. As the number of teeth increases, the possible chain pitch elongation is progressively reduced to less than 2 percent at 100 teeth.

SPROCKET TOOTH FORM



## TOOTH FORM CONTINUED

TABLE XII - FACTORS FOR DETERMINING TOOTH FORM

N	M	PRESSURE ANGLE	TOOTH ANGLE	C	N	M	PRESSURE ANGLE	TOOTH ANGLE	C
7	2.304	10°	25°	2.02	54	17.198	27°	55°	17.11
8	2.613	11°	26°	2.36	55	17.516	27°	55°	17.43
9	2.923	12°	28°	2.69	56	17.834	27°	55°	17.75
10	3.236	13°	30°	3.02	57	18.152	27°	55°	18.07
11	3.549	14°	31°	3.35	58	18.471	27°	55°	18.39
12	3.863	15°	33°	3.68	59	18.789	27°	55°	18.71
13	4.178	16°	35°	4.00	60	19.107	27°	55°	19.03
14	4.494	17°	36°	4.33	61	19.425	27°	55°	19.35
15	4.809	18°	38°	4.65	62	19.743	27°	55°	19.66
16	5.125	19°	40°	4.97	63	20.061	27°	55°	19.98
17	5.442	20°	42°	5.29	64	20.380	27°	55°	20.30
18	5.758	20°	42°	5.62	65	20.698	27°	55°	20.62
19	6.075	21°	44°	5.94	66	21.016	27°	55°	20.94
20	6.392	21°	44°	6.26	67	21.334	27°	55°	21.26
21	6.709	22°	46°	6.58	68	21.652	27°	55°	21.58
22	7.026	22°	46°	6.89	69	21.971	27°	55°	21.89
23	7.343	22°	46°	7.22	70	22.289	27°	55°	22.21
24	7.661	23°	47°	7.54	71	22.607	28°	56°	22.53
25	7.978	23°	47°	7.86	72	22.925	28°	56°	22.85
26	8.296	23°	47°	8.18	73	23.243	28°	56°	23.17
27	8.613	23°	47°	8.50	74	23.562	28°	56°	23.49
28	8.931	24°	49°	8.82	75	23.880	28°	56°	23.80
29	9.249	24°	49°	9.14	76	24.198	28°	56°	24.12
30	9.566	24°	49°	9.46	77	24.516	28°	56°	24.44
31	9.884	24°	49°	9.78	78	24.834	28°	56°	24.76
32	10.202	24°	49°	10.10	79	25.153	28°	56°	25.08
33	10.520	25°	51°	10.42	80	25.471	28°	56°	25.40
34	10.837	25°	51°	10.74	81	25.789	28°	56°	25.72
35	11.155	25°	51°	11.07	82	26.107	28°	56°	26.04
36	11.473	25°	51°	11.38	83	26.426	28°	56°	26.35
37	11.791	25°	51°	11.69	84	26.744	28°	56°	26.67
38	12.109	25°	51°	12.06	85	27.062	28°	56°	26.99
39	12.427	25°	51°	12.33	86	27.380	28°	56°	27.31
40	12.745	25°	51°	12.65	87	27.699	28°	56°	27.63
41	13.063	26°	53°	12.97	88	28.017	28°	56°	27.95
42	13.381	26°	53°	13.29	89	28.335	28°	56°	28.26
43	13.699	26°	53°	13.61	90	28.653	28°	56°	28.58
44	14.017	26°	53°	13.93	91	28.971	28°	56°	28.90
45	14.335	26°	53°	14.25	92	29.290	28°	56°	29.22
46	14.653	26°	53°	14.56	93	29.608	28°	56°	29.54
47	14.971	26°	53°	14.88	94	29.926	28°	56°	29.86
48	15.289	26°	53°	15.20	95	30.244	28°	56°	30.17
49	15.607	26°	53°	15.48	96	30.563	28°	56°	30.49
50	15.926	26°	53°	15.84	97	30.881	29°	58°	30.81
51	16.244	26°	53°	16.16	98	31.199	29°	58°	31.13
52	16.562	26°	53°	16.48	99	31.518	29°	58°	31.45
53	16.880	27°	55°	16.80	100	31.836	29°	58°	31.78

## LEGEND

P = Chain Pitch  
D = Roller Diameter  
PD = Pitch Diameter  
PA = Pressure Angle  
WF = Working Face  
TR = Topping Radius  
N = Number of Teeth

CD = Caliper Diameter  
OD = Outside Diameter  
PR = Pitch Radius  
F = Pitch Line Clearance  
DR = Diameter Over Rollers  
BD = RD = Bottom or Root Diameter

$$PD = \frac{P}{\sin \frac{180^\circ}{N}} \quad PR = \frac{PD}{2} \quad F = 0.10P \quad WF = 0.10 \cdot 0.01(P)(N)$$

$$TR = 0.50P \quad \frac{F}{PD} = \sin \alpha$$

Formulas for calculating the Caliper Diameter (CD) of sprockets with pitch line clearance. See Figure 32.

$$\theta = 180^\circ - \left( \frac{180^\circ}{N} + 2\alpha \right) \quad \sin \theta = \sin \left[ 180^\circ - \left( \frac{180^\circ}{N} + 2\alpha \right) \right]$$

$$p = \frac{180^\circ - \theta}{2} = \frac{\left( \frac{180^\circ}{N} + 2\alpha \right)}{2} \quad \sin p = \sin \frac{\left( \frac{180^\circ}{N} + 2\alpha \right)}{2} \quad h = \frac{PR \sin \theta}{\sin p}$$

DR = Caliper Diameter = h + D for a sprocket having an odd number of teeth.

BD = (P)(N) - D = Caliper Diameter for a sprocket having an even number of teeth.

Formulas for calculating the Outside Diameter (OD) of sprockets with Pitch Line Clearance. See Figure 33.

$$\frac{OD}{2} = \frac{PD}{2} \cdot \cos \left( \frac{180^\circ}{N} - Z \right) - \left( \frac{D}{2} + TR + WF \tan C \right) \cdot \left\{ TR^2 + \left[ Y_b - \frac{\tan C (D/2 + TR + WF)}{(1 + \tan^2 C)^{1/2}} \right]^2 \right\}^{1/2}$$

$$Z = \arcsin \left( 0.1 \sin \frac{180^\circ}{N} \right) \quad C = \alpha^\circ - (Z + PA) \quad Y_b = \frac{PD}{2} \sin \left( \frac{180^\circ}{N} - Z \right)$$

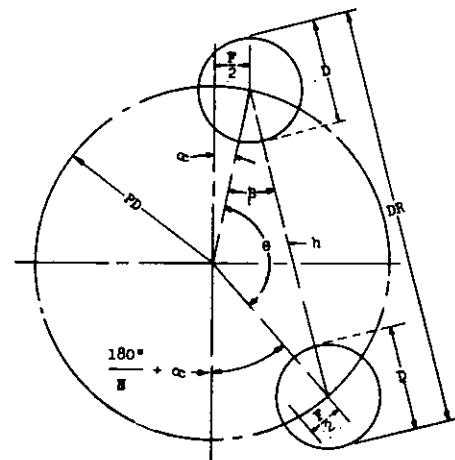


FIGURE 32 - SHOWING CALIPER DIAMETER

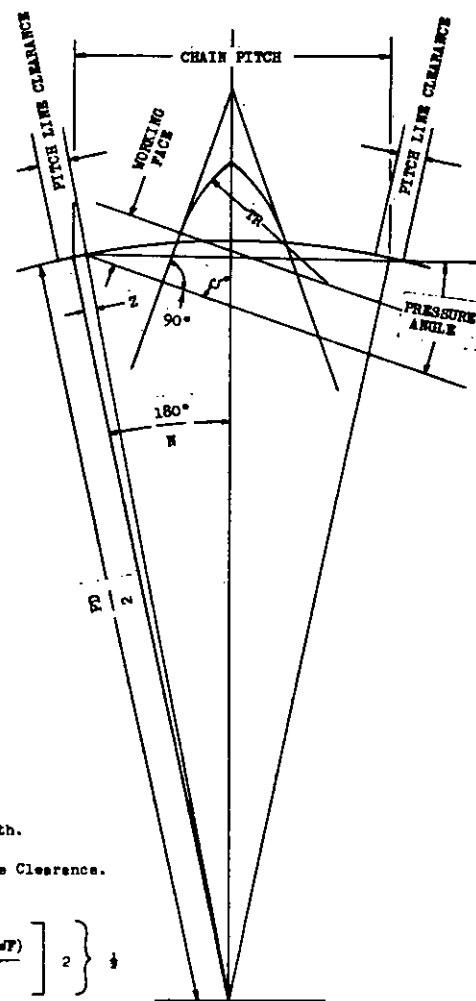


FIGURE 33 - SHOWING TECHNICAL ELEMENTS FOR OUTSIDE DIAMETER

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TABLE XIII - APPROXIMATE WEIGHTS FOR BALL BEARINGS (ASA B29.10) MIL-STD-627-1-23

P	D	N	PD	BD	OD	MHD	CD
1.500	.875	7.	3.437	2.582	3.960	1.601	2.4558
1.500	.875	8.	3.920	3.045	4.478	2.108	3.0458
1.500	.875	9.	4.364	3.511	4.960	2.608	3.6158
1.500	.875	10.	4.854	3.979	5.440	3.103	3.9790
1.500	.875	11.	5.324	4.449	5.986	3.595	4.3714
1.500	.875	12.	5.796	4.921	6.376	4.085	4.9210
1.500	.875	13.	6.268	5.393	6.928	4.573	5.3274
1.500	.875	14.	6.741	5.866	7.390	5.059	5.8660
1.500	.875	15.	7.215	6.340	7.778	5.543	6.2832
1.500	.875	16.	7.689	6.814	8.246	6.028	6.8140
1.500	.875	17.	8.163	7.288	8.712	6.511	7.2380
1.500	.875	18.	8.638	7.763	9.230	6.994	7.7630
1.500	.875	19.	9.113	8.238	9.750	7.475	8.1933
1.500	.875	20.	9.589	8.714	10.248	7.957	8.7140
1.500	.875	21.	10.064	9.189	10.700	8.438	9.1890
1.500	.875	22.	10.540	9.665	11.198	8.920	9.6650
1.500	.875	23.	11.016	10.141	11.694	9.400	10.1410
1.500	.875	24.	11.492	10.617	12.150	9.880	10.6170
1.500	.875	25.	11.968	11.093	12.644	10.360	11.0930
1.500	.875	26.	12.444	11.569	13.054	10.840	11.5690
1.500	.875	27.	12.921	12.046	13.548	11.320	12.0460
1.500	.875	28.	13.397	12.522	14.000	11.800	12.5220
1.500	.875	29.	13.874	12.999	14.570	12.278	12.9990
1.500	.875	30.	14.350	13.475	15.062	12.758	13.4750
1.500	.875	31.	14.827	13.952	15.550	13.237	13.9520
1.500	.875	32.	15.303	14.428	16.038	13.717	14.4280
1.500	.875	33.	15.780	14.905	16.494	14.195	14.8793
1.500	.875	34.	16.257	15.382	16.980	14.674	15.3820
1.500	.875	35.	16.734	15.859	17.468	15.152	15.8590
1.500	.875	36.	17.211	16.336	17.994	15.632	16.3360
1.500	.875	37.	17.687	16.812	18.440	16.111	16.7891
1.500	.875	38.	18.164	17.289	18.924	16.589	17.2890
1.500	.875	39.	18.641	17.766	19.408	17.068	17.7660
1.500	.875	40.	19.118	18.243	19.890	17.546	18.2430
1.500	.875	41.	19.595	18.720	20.346	18.025	18.6993
1.500	.875	42.	20.072	19.197	20.804	18.503	19.1970
1.500	.875	43.	20.549	19.674	21.266	18.980	19.6543
1.500	.875	44.	21.026	20.151	21.762	19.459	20.1510
1.500	.875	45.	21.503	20.628	22.236	19.937	20.6091
1.500	.875	46.	21.980	21.105	22.712	20.416	21.1050
1.500	.875	47.	22.458	21.583	23.184	20.894	21.5649
1.500	.875	48.	22.935	22.060	23.654	21.373	22.0600
1.500	.875	49.	23.412	22.537	24.122	21.850	22.5197
1.500	.875	50.	23.889	23.014	24.580	22.328	23.0140
1.500	.875	51.	24.366	23.491	25.040	22.807	23.4744
1.500	.875	52.	24.843	23.968	25.494	23.284	23.9680
1.500	.875	53.	25.320	24.445	25.926	23.762	24.4290
1.500	.875	54.	25.798	24.923	26.128	24.241	24.9230
1.500	.875	55.	26.275	25.400	26.632	24.719	25.3846
1.500	.875	56.	26.752	25.877	27.138	25.196	25.8770
1.500	.875	57.	27.229	26.354	27.640	25.675	26.3391
1.500	.875	58.	27.707	26.832	28.146	26.152	26.8320
1.500	.875	59.	28.184	27.309	28.652	26.630	27.2946
1.500	.875	60.	28.661	27.786	29.154	27.109	27.7860
1.500	.875	7.	3.812	2.937	4.500	2.226	2.6011

P	D	N	PD	BD	OD	MHD	CD
1.654	.875	8.	4.322	3.447	5.038	2.785	3.4470
1.654	.875	9.	4.836	3.961	5.566	3.336	3.8560
1.654	.875	10.	5.332	4.477	6.090	3.882	4.4770
1.654	.875	11.	5.871	4.996	6.614	4.424	4.9104
1.654	.875	12.	6.391	5.516	7.222	4.965	5.5160
1.654	.875	13.	6.911	6.036	7.848	5.503	5.9637
1.654	.875	14.	7.433	6.558	8.174	6.038	6.5580
1.654	.875	15.	7.955	7.080	8.768	6.573	7.0174
1.654	.875	16.	8.478	7.603	9.282	7.107	7.6030
1.654	.875	17.	9.001	8.126	9.712	7.640	8.0708
1.654	.875	18.	9.525	8.650	10.264	8.172	8.6500
1.654	.875	19.	10.049	9.174	10.772	8.703	9.1247
1.654	.875	20.	10.573	9.698	11.322	9.234	9.6980
1.654	.875	21.	11.098	10.223	11.920	9.765	10.1784
1.654	.875	22.	11.622	10.747	12.468	10.296	10.7470
1.654	.875	23.	12.147	11.272	13.014	10.825	11.2313
1.654	.875	24.	12.672	11.797	13.518	11.354	11.7970
1.654	.875	25.	13.197	12.322	14.064	11.884	12.2845
1.654	.875	26.	13.722	12.847	14.610	12.413	12.8470
1.654	.875	27.	14.247	13.372	15.154	12.942	13.3373
1.654	.875	28.	14.773	13.898	15.658	13.472	13.8980
1.654	.875	29.	15.298	14.423	16.204	13.999	14.3907
1.654	.875	30.	15.823	14.948	16.744	14.528	14.9480
1.654	.875	31.	16.349	15.474	17.290	15.056	15.4438
1.654	.875	32.	16.875	16.000	17.832	15.585	16.0000
1.654	.875	33.	17.400	16.525	18.328	16.113	16.4966
1.654	.875	34.	17.926	17.051	18.868	16.641	17.0510
1.654	.875	35.	18.452	17.577	19.410	17.168	17.5933
1.654	.875	36.	18.978	18.103	19.950	17.698	18.1030
1.654	.875	37.	19.503	18.628	20.488	18.225	18.6027
1.654	.875	38.	20.029	19.154	21.024	18.753	19.1340
1.654	.875	39.	20.554	19.680	21.564	19.280	19.6560
1.654	.875	40.	21.081	20.206	21.984	19.808	20.2060
1.654	.875	41.	21.607	20.732	22.470	20.336	20.7092
1.654	.875	42.	22.133	21.258	23.004	20.863	21.2580
1.654	.875	43.	22.659	21.784	23.536	21.389	21.7622
1.654	.875	44.	23.185	22.310	24.066	21.917	22.3100
1.654	.875	45.	23.711	22.836	24.594	22.445	22.8152
1.654	.875	46.	24.237	23.362	25.122	22.972	23.3620
1.654	.875	47.	24.763	23.888	25.650	23.500	23.8681
1.654	.875	48.	25.289	24.414	26.170	24.027	24.4140
1.654	.875	49.	25.815	24.940	26.696	24.553	24.9209
1.654	.875	50.	26.342	25.467	27.300	25.081	25.4670
1.654	.875	51.	26.868	25.993	27.878	25.609	25.9747
1.654	.875	52.	27.394	26.519	28.406	26.135	26.5190
1.654	.875	53.	27.920	27.045	28.840	26.662	27.0273
1.654	.875	54.	28.446	27.571	29.354	27.190	27.5710
1.654	.875	55.	28.972	28.097	29.856	27.717	28.0800
1.654	.875	56.	29.499	28.624	30.358	28.243	28.6240
1.654	.875	57.	30.025	29.150	30.844	28.771	29.1336
1.654	.875	58.	30.551	29.676	31.320	29.297	29.6760
1.654	.875	59.	31.077	30.202	31.714	29.825	30.1861
1.654	.875	60.	31.604	30.729	32.188	30.352	30.7290
1.750	1.000	7.	4.033	3.033	4.634	1.921	2.8892
1.750	1.000	8.	4.555	3.553	5.224	2.512	3.3730

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P	D	N	PD	BD	OD	MHD	CD
1.750	1.000	9.	5.117	4.117	5.818	3.095	4.0059
1.750	1.000	10.	6.663	4.663	6.368	3.672	4.6630
1.750	1.000	11.	6.212	5.212	7.004	4.266	5.1214
1.750	1.000	12.	6.761	5.761	7.666	4.819	5.7610
1.750	1.000	13.	7.313	6.313	8.104	5.387	6.2385
1.750	1.000	14.	7.864	6.864	8.566	5.954	6.8640
1.750	1.000	15.	8.417	7.417	9.104	6.520	7.3508
1.750	1.000	16.	8.970	7.970	9.730	7.085	7.9700
1.750	1.000	17.	9.524	8.524	10.278	7.648	8.4656
1.750	1.000	18.	10.078	9.078	10.860	8.212	9.0780
1.750	1.000	19.	10.632	9.632	11.396	8.774	9.5788
1.750	1.000	20.	11.187	10.187	11.890	9.335	10.1870
1.750	1.000	21.	11.742	10.742	12.428	9.897	10.6968
1.750	1.000	22.	12.297	11.297	13.004	10.459	11.2970
1.750	1.000	23.	12.852	11.852	13.670	11.019	11.8089
1.750	1.000	24.	13.407	12.407	14.204	11.579	12.4070
1.750	1.000	25.	13.963	12.963	14.780	12.139	12.9234
1.750	1.000	26.	14.518	13.518	15.356	12.699	13.5180
1.750	1.000	27.	15.074	14.074	15.934	13.259	14.0373
1.750	1.000	28.	15.630	14.630	16.460	13.819	14.6300
1.750	1.000	29.	16.186	15.186	17.036	14.377	15.1818
1.750	1.000	30.	16.742	15.742	17.606	14.937	15.7420
1.750	1.000	31.	17.298	16.298	18.178	15.495	16.2661
1.750	1.000	32.	17.854	16.854	18.750	16.055	16.8540
1.750	1.000	33.	18.410	17.410	19.272	16.614	17.3800
1.750	1.000	34.	18.966	17.966	19.842	17.172	17.9660
1.750	1.000	35.	19.523	18.523	20.410	17.730	18.4947
1.750	1.000	36.	20.079	19.079	20.978	18.290	19.0790
1.750	1.000	37.	20.635	19.635	21.544	18.848	19.6082
1.750	1.000	38.	21.192	20.192	22.116	19.407	20.1920
1.750	1.000	39.	21.748	20.748	22.680	19.965	20.7226
1.750	1.000	40.	22.305	21.305	23.244	20.523	21.3050
1.750	1.000	41.	22.861	21.861	23.748	21.081	21.8369
1.750	1.000	42.	23.418	22.418	24.312	21.640	22.4180
1.750	1.000	43.	23.974	22.974	24.870	22.196	22.9710
1.750	1.000	44.	24.531	23.531	25.432	22.754	23.5310
1.750	1.000	45.	25.087	24.087	25.988	23.313	24.0850
1.750	1.000	46.	25.644	24.644	26.542	23.871	24.6440
1.750	1.000	47.	26.200	25.200	27.098	24.429	25.1789
1.750	1.000	48.	26.757	25.757	27.646	24.987	25.7370
1.750	1.000	49.	27.314	26.314	28.198	25.544	26.2938
1.750	1.000	50.	27.870	26.870	28.742	26.102	26.8700
1.750	1.000	51.	28.427	27.427	29.278	26.660	27.4076
1.750	1.000	52.	28.984	27.984	29.818	27.217	27.9840
1.750	1.000	53.	29.541	28.541	30.248	27.775	28.5223
1.750	1.000	54.	30.097	29.097	30.740	28.333	29.0970
1.750	1.000	55.	30.654	29.654	31.164	28.892	29.6540
1.750	1.000	56.	31.211	30.211	31.668	29.448	30.2110
1.750	1.000	57.	31.767	30.767	32.256	30.006	30.7696
1.750	1.000	58.	32.324	31.324	32.846	30.563	31.3240
1.750	1.000	59.	32.881	31.881	33.436	31.121	31.8842
1.750	1.000	60.	33.438	32.438	34.024	31.679	32.4380
2.000	1.125	7.	4.010	3.010	5.356	2.302	3.3207
2.000	1.125	8.	5.226	4.101	6.044	2.978	4.1010
2.000	1.125	9.	5.848	4.723	6.674	3.644	4.5961
P	D	N	PD	BD	OD	MHD	CD
2.000	1.125	10.	6.472	5.347	7.312	4.304	5.3470
2.000	1.125	11.	7.099	5.974	7.936	4.960	5.9705
2.000	1.125	12.	7.727	6.602	8.568	5.614	6.6020
2.000	1.125	13.	8.357	7.232	9.197	6.264	7.1446
2.000	1.125	14.	8.988	7.863	9.814	6.912	7.8630
2.000	1.125	15.	9.619	8.494	10.440	7.558	8.4183
2.000	1.125	16.	10.252	9.127	11.144	8.204	9.1270
2.000	1.125	17.	10.884	9.759	11.884	8.848	9.6923
2.000	1.125	18.	11.518	10.393	12.548	9.492	10.3930
2.000	1.125	19.	12.151	11.026	13.264	10.134	11.0260
2.000	1.125	20.	12.785	11.660	13.908	10.776	11.6600
2.000	1.125	21.	13.419	12.294	14.574	11.418	12.2400
2.000	1.125	22.	14.053	12.928	15.240	12.060	12.9280
2.000	1.125	23.	14.688	13.563	15.950	12.700	13.5138
2.000	1.125	24.	15.323	14.198	16.650	13.340	14.1980
2.000	1.125	25.	15.957	14.832	17.350	13.980	14.8320
2.000	1.125	26.	16.592	15.467	18.050	14.620	15.4670
2.000	1.125	27.	17.228	16.103	18.750	15.260	16.1030
2.000	1.125	28.	17.863	16.738	19.450	15.900	16.7380
2.000	1.125	29.	18.498	17.373	20.150	16.538	17.3730
2.000	1.125	30.	19.134	18.009	20.850	17.178	18.0090
2.000	1.125	31.	19.769	18.644	21.550	17.816	18.6440
2.000	1.125	32.	20.405	19.280	22.250	18.456	19.2800
2.000	1.125	33.	21.040	19.915	22.950	19.094	19.9150
2.000	1.125	34.	21.676	20.551	23.650	19.732	20.5510
2.000	1.125	35.	22.312	21.187	24.350	20.370	21.1870
2.000	1.125	36.	22.947	21.822	25.050	21.010	21.8220
2.000	1.125	37.	23.583	22.458	25.750	21.648	22.4580
2.000	1.125	38.	24.219	23.094	26.450	22.286	23.0940
2.000	1.125	39.	24.855	23.730	27.150	22.924	23.7300
2.000	1.125	40.	25.491	24.366	27.850	23.562	24.3660
2.000	1.125	41.	26.127	25.002	28.550	24.200	25.0020
2.000	1.125	42.	26.763	25.638	29.250	24.838	25.6380
2.000	1.125	43.	27.399	26.274	29.950	25.474	26.2740
2.000	1.125	44.	28.035	26.910	30.650	26.112	26.9100
2.000	1.125	45.	28.671	27.546	31.350	26.750	27.5460
2.000	1.125	46.	29.307	28.182	32.050	27.388	28.1820
2.000	1.125	47.	29.943	28.818	32.750	28.026	28.8180
2.000	1.125	48.	30.580	29.455	33.450	28.664	29.4550
2.000	1.125	49.	31.216	30.091	34.150	29.302	30.0910
2.000	1.125	50.	31.852	30.727	34.850	29.940	30.7270
2.000	1.125	51.	32.488	31.363	35.550	30.576	31.3630
2.000	1.125	52.	33.124	31.999	36.250	31.212	31.9990
2.000	1.125	53.	33.761	32.636	36.950	31.850	32.6360
2.000	1.125	54.	34.397	33.272	37.650	32.488	33.2720
2.000	1.125	55.	35.033	33.908	38.350	33.126	33.9080
2.000	1.125	56.	35.669	34.544	39.050	33.762	34.5440
2.000	1.125	57.	36.306	35.181	39.750	34.400	35.1810
2.000	1.125	58.	36.942	35.817	40.450	35.036	35.8170
2.000	1.125	59.	37.578	36.453	41.150	35.672	36.4530
2.000	1.125	60.	38.215	37.089	41.850	36.308	37.0890
2.000	1.125	61.	38.851	37.726	42.550	36.944	37.7260
2.000	1.125	62.	39.487	38.362	43.250	37.580	38.3620
2.000	1.125	63.	40.124	38.999	43.950	38.216	38.9990
2.000	1.125	64.	40.760	39.635	44.650	38.852	39.6350

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TABLE XIII CONTINUED

P	D	N	PD	BD	OD	MHD	CD
2.000	1.125	65.	41.396	40.271	42.256	39.498	40.2536
2.000	1.125	66.	42.033	40.908	42.928	40.134	40.9080
2.000	1.125	67.	42.669	41.544	43.600	40.772	41.5271
2.000	1.125	68.	43.306	42.181	44.274	41.408	42.1810
2.000	1.125	69.	43.942	42.817	44.948	42.046	42.8170
2.000	1.125	70.	44.578	43.453	45.622	42.682	43.4530
2.000	1.125	71.	45.215	44.090	46.292	43.320	44.0900
2.000	1.125	72.	45.851	44.726	46.964	43.956	44.7260
2.000	1.125	73.	46.488	45.363	47.640	44.594	45.3630
2.000	1.125	74.	47.124	45.999	48.312	45.230	45.9990
2.000	1.125	75.	47.760	46.635	48.984	45.868	46.6350
2.000	1.125	76.	48.397	47.272	49.656	46.504	47.2720
2.000	1.125	77.	49.033	47.908	50.328	47.142	47.9080
2.000	1.125	78.	49.670	48.545	51.002	47.778	48.5450
2.000	1.125	79.	50.306	49.181	51.674	48.416	49.1810
2.000	1.125	80.	50.943	49.818	52.346	49.052	49.8180
2.000	1.125	81.	51.579	50.454	53.018	49.689	50.4540
2.000	1.125	82.	52.216	51.091	53.692	50.326	51.0910
2.000	1.125	83.	52.852	51.727	54.366	50.964	51.7270
2.000	1.125	84.	53.489	52.364	55.036	51.600	52.3640
2.000	1.125	85.	54.125	53.000	55.708	52.238	52.9857
2.000	1.125	86.	54.761	53.636	56.380	52.874	53.6360
2.000	1.125	87.	55.398	54.273	57.054	53.510	54.2730
2.000	1.125	88.	56.034	54.909	57.728	54.148	54.9090
2.000	1.125	89.	56.671	55.546	58.402	54.784	55.5460
2.000	1.125	90.	57.307	56.182	59.076	55.422	56.1820
2.000	1.125	91.	57.944	56.819	59.750	56.058	56.8190
2.000	1.125	92.	58.580	57.455	60.424	56.696	57.4550
2.000	1.125	93.	59.217	58.092	61.098	57.332	58.0920
2.000	1.125	94.	59.853	58.728	61.762	57.968	58.7280
2.000	1.125	95.	60.490	59.365	62.436	58.606	59.3650
2.000	1.125	96.	61.126	60.001	63.108	59.242	60.0010
2.000	1.125	97.	61.763	60.638	63.780	59.880	60.6380
2.000	1.125	98.	62.399	61.274	64.452	60.516	61.2740
2.000	1.125	99.	63.036	61.911	65.126	61.154	61.9110
2.000	1.125	100.	63.672	62.547	65.796	61.790	62.5470
2.500	1.250	7.	5.762	4.512	6.850	3.190	4.5120
2.500	1.250	8.	6.593	5.283	7.644	4.035	5.2830
2.500	1.250	9.	7.310	6.060	8.520	4.868	6.0600
2.500	1.250	10.	8.090	6.840	9.268	5.693	6.8400
2.500	1.250	11.	8.874	7.624	10.104	6.513	7.6240
2.500	1.250	12.	9.659	8.409	10.888	7.330	8.4090
2.500	1.250	13.	10.446	9.196	11.672	8.143	9.1960
2.500	1.250	14.	11.235	9.985	12.454	8.953	9.9850
2.500	1.250	15.	12.024	10.776	13.234	9.760	10.7760
2.500	1.250	16.	12.815	11.565	14.014	10.568	11.5650
2.500	1.250	17.	13.605	12.355	14.890	11.373	12.3550
2.500	1.250	18.	14.397	13.147	15.722	12.178	13.1470
2.500	1.250	19.	15.189	13.939	16.398	12.980	13.9390
2.500	1.250	20.	15.981	14.731	17.230	13.783	14.7310
2.500	1.250	21.	16.774	15.524	18.000	14.585	15.5240
2.500	1.250	22.	17.567	16.317	18.930	15.388	16.3170
2.500	1.250	23.	18.360	17.110	19.760	16.188	17.1100
2.500	1.250	24.	19.153	17.903	20.518	16.988	17.9030
2.500	1.250	25.	19.947	18.697	21.346	17.788	18.6970
2.500	1.250	26.	20.740	19.490	22.174	18.588	19.4900
2.500	1.250	27.	21.533	20.283	22.998	19.388	20.2830
2.500	1.250	28.	22.326	21.076	23.818	20.188	21.0760
2.500	1.250	29.	23.119	21.869	24.638	20.988	21.8690
2.500	1.250	30.	23.912	22.662	25.458	21.788	22.6620
2.500	1.250	31.	24.705	23.455	26.278	22.588	23.4550
2.500	1.250	32.	25.498	24.248	27.098	23.388	24.2480
2.500	1.250	33.	26.291	25.041	27.918	24.188	25.0410
2.500	1.250	34.	27.084	25.834	28.738	24.988	25.8340
2.500	1.250	35.	27.877	26.627	29.558	25.788	26.6270
2.500	1.250	36.	28.670	27.420	30.378	26.588	27.4200
2.500	1.250	37.	29.463	28.213	31.198	27.388	28.2130
2.500	1.250	38.	30.256	29.006	32.018	28.188	29.0060
2.500	1.250	39.	31.049	29.799	32.838	28.988	29.7990
2.500	1.250	40.	31.842	30.592	33.658	29.788	30.5920
2.500	1.250	41.	32.635	31.385	34.478	30.588	31.3850
2.500	1.250	42.	33.428	32.178	35.298	31.388	32.1780
2.500	1.250	43.	34.221	32.971	36.118	32.188	32.9710
2.500	1.250	44.	35.014	33.764	36.938	32.988	33.7640
2.500	1.250	45.	35.807	34.557	37.758	33.788	34.5570
2.500	1.250	46.	36.600	35.350	38.578	34.588	35.3500
2.500	1.250	47.	37.393	36.143	39.398	35.388	36.1430
2.500	1.250	48.	38.186	36.936	40.218	36.188	36.9360
2.500	1.250	49.	38.979	37.729	41.038	36.988	37.7290
2.500	1.250	50.	39.772	38.522	41.858	37.788	38.5220
2.500	1.250	51.	40.565	39.315	42.678	38.588	39.3150
2.500	1.250	52.	41.358	40.108	43.498	39.388	40.1080
2.500	1.250	53.	42.151	40.901	44.318	40.188	40.9010
2.500	1.250	54.	42.944	41.694	45.138	40.988	41.6940
2.500	1.250	55.	43.737	42.487	45.958	41.788	42.4870
2.500	1.250	56.	44.530	43.280	46.778	42.588	43.2800
2.500	1.250	57.	45.323	44.073	47.598	43.388	44.0730
2.500	1.250	58.	46.116	44.866	48.418	44.188	44.8660
2.500	1.250	59.	46.909	45.659	49.238	44.988	45.6590
2.500	1.250	60.	47.702	46.452	50.058	45.788	46.4520
2.500	1.250	61.	48.495	47.245	50.878	46.588	47.2450
2.500	1.250	62.	49.288	48.038	51.698	47.388	48.0380
2.500	1.250	63.	50.081	48.831	52.518	48.188	48.8310
2.500	1.250	64.	50.874	49.624	53.338	48.988	49.6240
2.500	1.250	65.	51.667	50.417	54.158	49.788	50.4170
2.500	1.250	66.	52.460	51.210	54.978	50.588	51.2100
2.500	1.250	67.	53.253	52.003	55.798	51.388	52.0030
2.500	1.250	68.	54.046	52.796	56.618	52.188	52.7960
2.500	1.250	69.	54.839	53.589	57.438	52.988	53.5890
2.500	1.250	70.	55.632	54.382	58.258	53.788	54.3820
2.500	1.250	71.	56.425	55.175	59.078	54.588	55.1750
2.500	1.250	72.	57.218	55.968	59.898	55.388	55.9680
2.500	1.250	73.	58.011	56.761	60.718	56.188	56.7610
2.500	1.250	74.	58.804	57.554	61.538	56.988	57.5540
2.500	1.250	75.	59.597	58.347	62.358	57.788	58.3470
2.500	1.250	76.	60.390	59.140	63.178	58.588	59.1400
2.500	1.250	77.	61.183	59.933	63.998	59.388	59.9330
2.500	1.250	78.	61.976	60.726	64.818	60.188	60.7260
2.500	1.250	79.	62.769	61.519	65.638	60.988	61.5190
2.500	1.250	80.	63.562	62.312	66.458	61.788	62.3120
2.500	1.250	81.	64.355	63.105	67.278	62.588	63.1050
2.500	1.250	82.	65.148	63.898	68.098	63.388	63.8980
2.500	1.250	83.	65.941	64.691	68.918	64.188	64.6910
2.500	1.250	84.	66.734	65.484	69.738	64.988	65.4840
2.500	1.250	85.	67.527	66.277	70.558	65.788	66.2770
2.500	1.250	86.	68.320	67.070	71.378	66.588	67.0700
2.500	1.250	87.	69.113	67.863	72.198	67.388	67.8630
2.500	1.250	88.	69.906	68.656	73.018	68.188	68.6560
2.500	1.250	89.	70.699	69.449	73.838	68.988	69.4490
2.500	1.250	90.	71.492	70.242	74.658	69.788	70.2420
2.500	1.250	91.	72.285	71.035	75.478	70.588	71.0350
2.500	1.250	92.	73.078	71.828	76.298	71.388	71.8280
2.500	1.250	93.	73.871	72.621	77.118	72.188	72.6210
2.500	1.250	94.	74.664	73.414	77.938	72.988	73.4140
2.500	1.250	95.	75.457	74.207	78.758	73.788	74.2070
2.500	1.250	96.	76.250	75.000	79.578	74.588	75.0000
2.500	1.250	97.	77.043	75.793	80.398	75.388	75.7930
2.500	1.250	98.	77.836	76.586	81.218	76.188	76.5860
2.500	1.250	99.	78.629	77.379	82.038	76.988	77.3790
2.500	1.250	100.	79.422	78.172	82.858	77.788	78.1720
2.500	1.250	101.	80.215	78.965	83.678	78.588	78.9650
2.500	1.250	102.	81.008	79.758	84.498	79.388	79.7580
2.500	1.250	103.	81.801	80.551	85.318	80.188	80.5510
2.500	1.250	104.	82.594	81.344	86.138	80.988	81.3440
2.500	1.250	105.	83.387	82.137	86.958	81.788	82.1370
2.500	1.250	106.	84.180	82.930	87.778	82.588	82.9300
2.500	1.250	107.	84.973	83.723	88.598	83.388	83.7230
2.500	1						

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TABLE XIII CONTINUED

P	D	N	PD	BD	OD	MHD	CD
2.500	1.250	81.	64.474	63.224	66.344	62.425	63.2065
2.500	1.250	82.	65.269	64.019	67.184	63.220	64.0190
2.500	1.250	83.	66.065	64.815	68.024	64.018	64.7980
2.500	1.250	84.	66.861	65.611	68.866	64.813	65.6110
2.500	1.250	85.	67.656	66.406	69.706	65.610	66.3894
2.500	1.250	86.	68.452	67.202	70.550	66.405	67.2020
2.500	1.250	87.	69.247	67.997	71.388	67.200	67.9937
2.500	1.250	88.	70.043	68.793	72.230	67.998	68.7930
2.500	1.250	89.	70.839	69.589	73.070	68.793	69.5890
2.500	1.250	90.	71.634	70.384	73.910	69.590	70.3840
2.500	1.250	91.	72.430	71.180	74.754	70.385	71.1645
2.500	1.250	92.	73.226	71.976	75.594	71.183	71.9760
2.500	1.250	93.	74.021	72.771	76.432	71.978	72.7758
2.500	1.250	94.	74.817	73.567	77.272	72.773	73.5670
2.500	1.250	95.	75.612	74.362	78.114	73.570	74.3671
2.500	1.250	96.	76.408	75.158	78.954	74.365	75.1580
2.500	1.250	97.	77.204	75.954	79.796	75.163	75.9594
2.500	1.250	98.	77.999	76.749	80.636	75.958	76.7490
2.500	1.250	99.	78.795	77.545	81.476	76.755	77.5307
2.500	1.250	100.	79.591	78.341	82.318	77.550	78.3410
2.500	1.250	101.	80.387	79.137	83.160	78.347	79.1370
2.500	1.250	102.	81.183	79.933	84.002	79.144	80.0000
2.500	1.250	103.	81.979	80.729	84.844	80.000	80.7290
2.500	1.250	104.	82.775	81.525	85.686	80.729	81.5250
2.500	1.250	105.	83.571	82.321	86.528	81.525	82.3210
2.500	1.250	106.	84.367	83.117	87.370	82.321	83.1170
2.500	1.250	107.	85.163	83.913	88.212	83.117	83.9130
2.500	1.250	108.	85.959	84.709	89.054	83.913	84.7090
2.500	1.250	109.	86.755	85.505	89.896	84.709	85.5050
2.500	1.250	110.	87.551	86.301	90.738	85.505	86.3010
2.500	1.250	111.	88.347	87.097	91.580	86.301	87.0970
2.500	1.250	112.	89.143	87.893	92.422	87.097	87.8930
2.500	1.250	113.	89.939	88.689	93.264	87.893	88.6890
2.500	1.250	114.	90.735	89.485	94.106	88.689	89.4850
2.500	1.250	115.	91.531	90.281	94.948	89.485	90.2810
2.500	1.250	116.	92.327	91.077	95.790	90.281	91.0770
2.500	1.250	117.	93.123	91.873	96.632	91.077	91.8730
2.500	1.250	118.	93.919	92.669	97.474	91.873	92.6690
2.500	1.250	119.	94.715	93.465	98.316	92.669	93.4650
2.500	1.250	120.	95.511	94.261	99.158	93.465	94.2610
2.500	1.250	121.	96.307	95.057	100.000	94.261	95.0570
2.500	1.250	122.	97.103	95.853	100.842	95.057	95.8530
2.500	1.250	123.	97.899	96.649	101.684	95.853	96.6490
2.500	1.250	124.	98.695	97.445	102.526	96.649	97.4450
2.500	1.250	125.	99.491	98.241	103.368	97.445	98.2410
2.500	1.250	126.	100.287	99.037	104.210	98.241	99.0370
2.500	1.250	127.	101.083	99.833	105.052	99.037	99.8330
2.500	1.250	128.	101.879	100.629	105.894	99.833	100.6290
2.500	1.250	129.	102.675	101.425	106.736	100.629	101.4250
2.500	1.250	130.	103.471	102.221	107.578	101.425	102.2210
2.500	1.250	131.	104.267	103.017	108.420	102.221	103.0170
2.500	1.250	132.	105.063	103.813	109.262	103.017	103.8130
2.500	1.250	133.	105.859	104.609	110.104	103.813	104.6090
2.500	1.250	134.	106.655	105.405	110.946	104.609	105.4050
2.500	1.250	135.	107.451	106.201	111.788	105.405	106.2010
2.500	1.250	136.	108.247	106.997	112.630	106.201	106.9970
2.500	1.250	137.	109.043	107.793	113.472	106.997	107.7930
2.500	1.250	138.	109.839	108.589	114.314	107.793	108.5890
2.500	1.250	139.	110.635	109.385	115.156	108.589	109.3850
2.500	1.250	140.	111.431	110.181	116.000	109.385	110.1810
2.500	1.250	141.	112.227	110.977	116.842	110.181	110.9770
2.500	1.250	142.	113.023	111.773	117.684	110.977	111.7730
2.500	1.250	143.	113.819	112.569	118.526	111.773	112.5690
2.500	1.250	144.	114.615	113.365	119.368	112.569	113.3650
2.500	1.250	145.	115.411	114.161	120.210	113.365	114.1610
2.500	1.250	146.	116.207	114.957	121.052	114.161	114.9570
2.500	1.250	147.	117.003	115.753	121.894	114.957	115.7530
2.500	1.250	148.	117.799	116.549	122.736	115.753	116.5490
2.500	1.250	149.	118.595	117.345	123.578	116.549	117.3450
2.500	1.250	150.	119.391	118.141	124.420	117.345	118.1410
2.500	1.250	151.	120.187	118.937	125.262	118.141	118.9370
2.500	1.250	152.	120.983	119.733	126.104	118.937	119.7330
2.500	1.250	153.	121.779	120.529	126.946	119.733	120.5290
2.500	1.250	154.	122.575	121.325	127.788	120.529	121.3250
2.500	1.250	155.	123.371	122.121	128.630	121.325	122.1210
2.500	1.250	156.	124.167	122.917	129.472	122.121	122.9170
2.500	1.250	157.	124.963	123.713	130.314	122.917	123.7130
2.500	1.250	158.	125.759	124.509	131.156	123.713	124.5090
2.500	1.250	159.	126.555	125.305	132.000	124.509	125.3050
2.500	1.250	160.	127.351	126.101	132.842	125.305	126.1010
2.500	1.250	161.	128.147	126.897	133.684	126.101	126.8970
2.500	1.250	162.	128.943	127.693	134.526	126.897	127.6930
2.500	1.250	163.	129.739	128.489	135.370	127.693	128.4890
2.500	1.250	164.	130.535	129.285	136.212	128.489	129.2850
2.500	1.250	165.	131.331	130.081	137.054	129.285	130.0810
2.500	1.250	166.	132.127	130.877	137.896	130.081	130.8770
2.500	1.250	167.	132.923	131.673	138.740	130.877	131.6730
2.500	1.250	168.	133.719	132.469	139.582	131.673	132.4690
2.500	1.250	169.	134.515	133.265	140.424	132.469	133.2650
2.500	1.250	170.	135.311	134.061	141.270	133.265	134.0610
2.500	1.250	171.	136.107	134.857	142.112	134.061	134.8570
2.500	1.250	172.	136.903	135.653	142.954	134.857	135.6530
2.500	1.250	173.	137.699	136.449	143.796	135.653	136.4490
2.500	1.250	174.	138.495	137.245	144.640	136.449	137.2450
2.500	1.250	175.	139.291	138.041	145.482	137.245	138.0410
2.500	1.250	176.	140.087	138.837	146.324	138.041	138.8370
2.500	1.250	177.	140.883	139.633	147.170	138.837	139.6330
2.500	1.250	178.	141.679	140.429	148.012	139.633	140.4290
2.500	1.250	179.	142.475	141.225	148.854	140.429	141.2250
2.500	1.250	180.	143.271	142.021	149.696	141.225	142.0210
2.500	1.250	181.	144.067	142.817	150.540	142.021	142.8170
2.500	1.250	182.	144.863	143.613	151.382	142.817	143.6130
2.500	1.250	183.	145.659	144.409	152.224	143.613	144.4090
2.500	1.250	184.	146.455	145.205	153.070	144.409	145.2050
2.500	1.250	185.	147.251	146.001	153.912	145.205	146.0010
2.500	1.250	186.	148.047	146.797	154.754	146.001	146.7970
2.500	1.250	187.	148.843	147.593	155.596	146.797	147.5930
2.500	1.250	188.	149.639	148.389	156.440	147.593	148.3890
2.500	1.250	189.	150.435	149.185	157.282	148.389	149.1850
2.500	1.250	190.	151.231	150.000	158.124	149.185	150.0000
2.500	1.250	191.	152.027	150.796	158.970	150.000	150.7960
2.500	1.250	192.	152.823	151.592	159.812	150.796	151.5920
2.500	1.250	193.	153.619	152.388	160.654	151.592	152.3880
2.500	1.250	194.	154.415	153.184	161.496	152.388	153.1840
2.500	1.250	195.	155.211	153.980	162.340	153.184	153.9800
2.500	1.250	196.	156.007	154.776	163.182	153.980	154.7760
2.500	1.250	197.	156.803	155.572	164.024	154.776	155.5720
2.500	1.250	198.	157.599	156.368	164.870	155.572	156.3680
2.500	1.250	199.	158.395	157.164	165.712	156.368	157.1640
2.500	1.250	200.	159.191	157.960	166.554	157.164	157.9600
2.500	1.250	201.	160.000	158.756	167.400	157.960	158.7560
2.500	1.250	202.	160.800	159.552	168.242	158.756	159.5520
2.500	1.250	203.	161.600	160.348	169.084	159.552	160.3480
2.500	1.250	204.	162.400	161.144	169.930	160.348	161.1440
2.500	1.250	205.	163.200	161.940	170.772	161.144	161.9400
2.500	1.250	206.	164.000	162.736	171.614	161.940	162.7360
2.500	1.250	207.	164.800	163.532	172.456	162.736	163.5320
2.500	1.250	208.	165.600	164.328	173.298	163.532	164.3280
2.500	1.250	209.	166.400	165.124	174.140	164.328	165.1240
2.500	1.250	210.	167.200	165.920	174.982	165.124	165.9200
2.500	1.250	211.	168.000	166.716	175.824	165.920	



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P	D	N	PD	BD	OD	MHD	CD
3.067	1.625	43.	42.016	40.391	43.858	39.373	40.3506
3.067	1.625	44.	42.992	41.367	44.848	40.351	41.3670
3.067	1.625	45.	43.967	42.342	45.838	41.330	42.3034
3.067	1.625	46.	44.943	43.318	46.828	42.308	43.3180
3.067	1.625	47.	45.918	44.293	47.818	43.286	44.2561
3.067	1.625	48.	46.894	45.269	48.808	44.265	45.2690
3.067	1.625	49.	47.869	46.244	49.798	45.244	46.2086
3.067	1.625	50.	48.845	47.220	50.788	46.219	47.2200
3.067	1.625	51.	49.821	48.196	51.778	47.197	48.1620
3.067	1.625	52.	50.796	49.171	52.768	48.172	49.1710
3.067	1.625	53.	51.772	50.147	53.758	49.151	50.1143
3.067	1.625	54.	52.748	51.123	54.748	50.129	51.1230
3.067	1.625	55.	53.723	52.098	55.738	51.107	52.0665
3.067	1.625	56.	54.699	53.074	56.728	52.083	53.0740
3.067	1.625	57.	55.675	54.050	57.718	53.061	54.0196
3.067	1.625	58.	56.651	55.026	58.708	54.036	55.0260
3.067	1.625	59.	57.626	56.001	59.698	55.015	56.0016
3.067	1.625	60.	58.602	56.977	60.688	55.993	57.0000
3.067	1.625	61.	59.578	57.953	61.678	56.968	58.0000
3.067	1.625	62.	60.554	58.929	62.668	57.947	59.0000
3.067	1.625	63.	61.530	59.905	63.658	58.922	60.0000
3.067	1.625	64.	62.506	60.881	64.648	59.897	61.0000
3.067	1.625	65.	63.481	61.856	65.638	60.879	62.0000
3.067	1.625	66.	64.457	62.832	66.628	61.854	63.0000
3.067	1.625	67.	65.433	63.808	67.618	62.832	64.0000
3.067	1.625	68.	66.409	64.784	68.608	63.808	65.0000
3.067	1.625	69.	67.385	65.760	69.598	64.784	66.0000
3.067	1.625	70.	68.361	66.736	70.588	65.760	67.0000
3.067	1.625	71.	69.337	67.712	71.578	66.736	68.0000
3.067	1.625	72.	70.313	68.688	72.568	67.712	69.0000
3.067	1.625	73.	71.289	69.664	73.558	68.688	70.0000
3.067	1.625	74.	72.265	70.640	74.548	69.664	71.0000
3.067	1.625	75.	73.241	71.616	75.538	70.640	72.0000
3.067	1.625	76.	74.217	72.592	76.528	71.616	73.0000
3.067	1.625	77.	75.193	73.568	77.518	72.592	74.0000
3.067	1.625	78.	76.169	74.544	78.508	73.568	75.0000
3.067	1.625	79.	77.145	75.520	79.498	74.544	76.0000
3.067	1.625	80.	78.121	76.496	80.488	75.520	77.0000
3.067	1.625	81.	79.097	77.472	81.478	76.496	78.0000
3.067	1.625	82.	80.073	78.448	82.468	77.472	79.0000
3.067	1.625	83.	81.049	79.424	83.458	78.448	80.0000
3.067	1.625	84.	82.025	80.400	84.448	79.424	81.0000
3.067	1.625	85.	83.001	81.376	85.438	80.400	82.0000
3.067	1.625	86.	83.977	82.352	86.428	81.376	83.0000
3.067	1.625	87.	84.953	83.328	87.418	82.352	84.0000
3.067	1.625	88.	85.929	84.304	88.408	83.328	85.0000
3.067	1.625	89.	86.905	85.280	89.398	84.304	86.0000
3.067	1.625	90.	87.881	86.256	90.388	85.280	87.0000
3.067	1.625	91.	88.857	87.232	91.378	86.256	88.0000
3.067	1.625	92.	89.833	88.208	92.368	87.232	89.0000
3.067	1.625	93.	90.809	89.184	93.358	88.208	90.0000
3.067	1.625	94.	91.785	90.160	94.348	89.184	91.0000
3.067	1.625	95.	92.761	91.136	95.338	90.160	92.0000
3.067	1.625	96.	93.737	92.112	96.328	91.136	93.0000
3.067	1.625	97.	94.713	93.088	97.318	92.112	94.0000

P	D	N	PD	BD	OD	MHD	CD
3.067	1.625	98.	95.690	94.065	98.866	93.110	94.0650
3.067	1.625	99.	96.666	95.041	99.842	94.088	95.0410
3.067	1.625	100.	97.642	96.017	100.818	95.064	96.0170
3.075	1.250	7.	7.087	6.785	7.087	4.542	5.5844
3.075	1.250	8.	8.035	7.741	8.035	5.581	6.7850
3.075	1.250	9.	8.991	8.701	8.991	6.605	7.7410
3.075	1.250	10.	9.951	9.665	9.951	7.629	8.7010
3.075	1.250	11.	10.915	10.631	10.915	8.653	9.6650
3.075	1.250	12.	11.881	11.599	11.881	9.677	10.6310
3.075	1.250	13.	12.849	12.569	12.849	10.699	11.5990
3.075	1.250	14.	13.819	13.540	13.819	11.723	12.5690
3.075	1.250	15.	14.793	14.512	14.793	12.747	13.5400
3.075	1.250	16.	15.762	15.485	15.762	13.771	14.5120
3.075	1.250	17.	16.735	16.458	16.735	14.795	15.4850
3.075	1.250	18.	17.708	17.432	17.708	15.819	16.4580
3.075	1.250	19.	18.682	18.407	18.682	16.843	17.4320
3.075	1.250	20.	19.655	19.382	19.655	17.867	18.4070
3.075	1.250	21.	20.632	20.357	20.632	18.891	19.3820
3.075	1.250	22.	21.607	21.333	21.607	19.915	20.3570
3.075	1.250	23.	22.583	22.308	22.583	20.939	21.3330
3.075	1.250	24.	23.558	23.285	23.558	21.963	22.3080
3.075	1.250	25.	24.535	24.261	24.535	22.987	23.2850
3.075	1.250	26.	25.511	25.237	25.511	24.011	24.2610
3.075	1.250	27.	26.486	26.214	26.486	25.035	25.2370
3.075	1.250	28.	27.464	27.191	27.464	26.059	26.2140
3.075	1.250	29.	28.441	28.168	28.441	27.083	27.1910
3.075	1.250	30.	29.418	29.145	29.418	28.107	28.1680
3.075	1.250	31.	30.395	30.122	30.395	29.131	29.1450
3.075	1.250	32.	31.372	31.099	31.372	30.155	30.1220
3.075	1.250	33.	32.349	32.077	32.349	31.179	31.0990
3.075	1.250	34.	33.327	33.054	33.327	32.203	32.0770
3.075	1.250	35.	34.304	34.032	34.304	33.227	33.0540
3.075	1.250	36.	35.282	35.009	35.282	34.251	34.0320
3.075	1.250	37.	36.259	35.987	36.259	35.275	35.0090
3.075	1.250	38.	37.237	36.965	37.237	36.299	35.9870
3.075	1.250	39.	38.215	37.942	38.215	37.323	36.9650
3.075	1.250	40.	39.192	38.920	39.192	38.347	37.9420
3.075	1.250	41.	40.170	39.898	40.170	39.371	38.9200
3.075	1.250	42.	41.148	40.876	41.148	40.395	39.8980
3.075	1.250	43.	42.126	41.854	42.126	41.419	40.8760
3.075	1.250	44.	43.104	42.832	43.104	42.443	41.8540
3.075	1.250	45.	44.082	43.810	44.082	43.467	42.8320
3.075	1.250	46.	45.060	44.788	45.060	44.491	43.8100
3.075	1.250	47.	46.038	45.766	46.038	45.515	44.7880
3.075	1.250	48.	47.016	46.744	47.016	46.539	45.7660
3.075	1.250	49.	47.994	47.722	47.994	47.563	46.7440
3.075	1.250	50.	48.972	48.701	48.972	48.587	47.7220
3.075	1.250	51.	49.951	49.679	49.951	49.611	48.7010
3.075	1.250	52.	50.929	50.657	50.929	50.635	49.6790
3.075	1.250	53.	51.907	51.635	51.907	51.659	50.6570
3.075	1.250	54.	52.885	52.613	52.885	52.683	51.6350
3.075	1.250	55.	53.863	53.592	53.863	53.707	52.6130
3.075	1.250	56.	54.841	54.570	54.841	54.731	53.5920
3.075	1.250	57.	55.820	55.548	55.820	55.755	54.5700
3.075	1.250	58.	56.798	56.526	56.798	56.779	55.5480



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P	D	N	PD	BD	OD	MHD	CD
3.075	1.750	59.	57.777	56.527	60.390	55.851	56.4975
3.075	1.750	50.	58.755	57.505	61.366	56.852	57.5050
3.500	1.750	8.	8.067	5.317	9.596	4.716	6.0295
3.500	1.750	9.	10.233	6.483	11.854	5.899	7.3960
3.500	1.750	10.	11.326	9.576	13.052	8.220	8.2609
3.500	1.750	11.	12.423	10.673	14.108	9.368	9.5760
3.500	1.750	12.	13.523	11.773	15.212	10.512	10.4919
3.500	1.750	13.	14.625	12.875	16.308	11.650	11.7750
3.500	1.750	14.	15.729	13.979	17.456	12.784	12.7720
3.500	1.750	15.	16.834	15.084	18.548	13.914	13.9750
3.500	1.750	16.	17.940	16.190	19.638	15.045	14.9516
3.500	1.750	17.	19.048	17.298	20.840	16.172	16.1900
3.500	1.750	18.	20.156	18.406	21.892	17.299	17.1812
3.500	1.750	19.	21.264	19.514	22.976	18.422	18.4050
3.500	1.750	20.	22.374	20.624	24.256	19.546	19.4096
3.500	1.750	21.	23.483	21.733	25.336	20.669	20.6260
3.500	1.750	22.	24.593	22.843	26.500	21.793	21.6386
3.500	1.750	23.	25.704	23.954	27.556	22.913	22.8430
3.500	1.750	24.	26.815	25.065	28.606	24.033	23.8678
3.500	1.750	25.	27.926	26.176	29.888	25.153	25.0650
3.500	1.750	26.	29.037	27.287	31.044	26.273	26.0967
3.500	1.750	27.	30.148	28.398	32.198	27.393	27.2870
3.500	1.750	28.	31.260	29.510	33.262	28.513	28.3246
3.500	1.750	29.	32.372	30.622	34.414	29.629	29.5100
3.500	1.750	30.	33.484	31.734	35.570	30.749	30.5937
3.500	1.750	31.	34.596	32.846	36.718	31.866	31.7340
3.500	1.750	32.	35.708	33.958	37.868	32.986	32.8921
3.500	1.750	33.	36.820	35.070	38.922	34.102	33.9800
3.500	1.750	34.	37.933	36.183	40.070	35.219	35.0100
3.500	1.750	35.	39.045	37.295	41.216	36.335	36.1830
3.500	1.750	36.	40.158	38.408	42.364	37.455	37.2384
3.500	1.750	37.	41.271	39.521	43.508	38.572	38.4080
3.500	1.750	38.	42.383	40.633	44.502	39.688	39.4675
3.500	1.750	39.	43.496	41.746	45.502	40.805	40.6330
3.500	1.750	40.	44.609	42.859	46.778	41.921	41.6952
3.500	1.750	41.	45.722	43.972	47.806	43.038	42.8590
3.500	1.750	42.	46.835	45.085	48.936	44.154	43.9231
3.500	1.750	43.	47.948	46.198	50.068	45.267	45.0850
3.500	1.750	44.	49.061	47.311	51.196	46.384	46.1520
3.500	1.750	45.	50.175	48.425	52.488	47.500	47.3110
3.500	1.750	46.	51.288	49.538	53.622	48.617	48.3810
3.500	1.750	47.	52.401	50.651	54.748	49.733	49.5380
3.500	1.750	48.	53.514	51.764	55.874	50.850	50.6089
3.500	1.750	49.	54.628	52.878	56.998	51.963	51.7640
3.500	1.750	50.	55.741	53.991	58.114	53.079	52.8776
3.500	1.750	51.	56.854	55.104	59.232	54.196	53.9910
3.500	1.750	52.	57.968	56.218	60.348	55.309	55.0652
3.500	1.750	53.	59.081	57.331	61.408	56.425	56.2180
3.500	1.750	54.	60.195	58.445	62.410	57.542	57.2936
3.500	1.750	55.	61.308	59.558	63.506	58.658	58.4450
3.500	1.750	56.	62.421	60.671	64.594	59.771	59.5220
3.500	1.750	57.	63.535	61.785	65.677	60.888	60.6710
3.500	1.750	58.	64.649	62.899	66.744	62.001	61.7850
3.500	1.750	59.	65.762	64.012	67.796	63.117	62.8990
3.500	1.750	60.	66.875	65.125	68.848	64.233	63.9784
3.075	1.750	59.	57.777	56.527	60.390	55.851	56.4975
3.075	1.750	50.	58.755	57.505	61.366	56.852	57.5050
3.500	1.750	8.	8.067	5.317	9.596	4.716	6.0295
3.500	1.750	9.	10.233	6.483	11.854	5.899	7.3960
3.500	1.750	10.	11.326	9.576	13.052	8.220	8.2609
3.500	1.750	11.	12.423	10.673	14.108	9.368	9.5760
3.500	1.750	12.	13.523	11.773	15.212	10.512	10.4919
3.500	1.750	13.	14.625	12.875	16.308	11.650	11.7750
3.500	1.750	14.	15.729	13.979	17.456	12.784	12.7720
3.500	1.750	15.	16.834	15.084	18.548	13.914	13.9750
3.500	1.750	16.	17.940	16.190	19.638	15.045	14.9516
3.500	1.750	17.	19.048	17.298	20.840	16.172	16.1900
3.500	1.750	18.	20.156	18.406	21.892	17.299	17.1812
3.500	1.750	19.	21.264	19.514	22.976	18.422	18.4050
3.500	1.750	20.	22.374	20.624	24.256	19.546	19.4096
3.500	1.750	21.	23.483	21.733	25.336	20.669	20.6260
3.500	1.750	22.	24.593	22.843	26.500	21.793	21.6386
3.500	1.750	23.	25.704	23.954	27.556	22.913	22.8430
3.500	1.750	24.	26.815	25.065	28.606	24.033	23.8678
3.500	1.750	25.	27.926	26.176	29.888	25.153	25.0650
3.500	1.750	26.	29.037	27.287	31.044	26.273	26.0967
3.500	1.750	27.	30.148	28.398	32.198	27.393	27.2870
3.500	1.750	28.	31.260	29.510	33.262	28.513	28.3246
3.500	1.750	29.	32.372	30.622	34.414	29.629	29.5100
3.500	1.750	30.	33.484	31.734	35.570	30.749	30.5937
3.500	1.750	31.	34.596	32.846	36.718	31.866	31.7340
3.500	1.750	32.	35.708	33.958	37.868	32.986	32.8921
3.500	1.750	33.	36.820	35.070	38.922	34.102	33.9800
3.500	1.750	34.	37.933	36.183	40.070	35.219	35.0100
3.500	1.750	35.	39.045	37.295	41.216	36.335	36.1830
3.500	1.750	36.	40.158	38.408	42.364	37.455	37.2384
3.500	1.750	37.	41.271	39.521	43.508	38.572	38.4080
3.500	1.750	38.	42.383	40.633	44.502	39.688	39.4675
3.500	1.750	39.	43.496	41.746	45.502	40.805	40.6330
3.500	1.750	40.	44.609	42.859	46.778	41.921	41.6952
3.500	1.750	41.	45.722	43.972	47.806	43.038	42.8590
3.500	1.750	42.	46.835	45.085	48.936	44.154	43.9231
3.500	1.750	43.	47.948	46.198	50.068	45.267	45.0850
3.500	1.750	44.	49.061	47.311	51.196	46.384	46.1520
3.500	1.750	45.	50.175	48.425	52.488	47.500	47.3110
3.500	1.750	46.	51.288	49.538	53.622	48.617	48.3810
3.500	1.750	47.	52.401	50.651	54.748	49.733	49.5380
3.500	1.750	48.	53.514	51.764	55.874	50.850	50.6089
3.500	1.750	49.	54.628	52.878	56.998	51.963	51.7640
3.500	1.750	50.	55.741	53.991	58.114	53.079	52.8776
3.500	1.750	51.	56.854	55.104	59.232	54.196	53.9910
3.500	1.750	52.	57.968	56.218	60.348	55.309	55.0652
3.500	1.750	53.	59.081	57.331	61.408	56.425	56.2180
3.500	1.750	54.	60.195	58.445	62.410	57.542	57.2936
3.500	1.750	55.	61.308	59.558	63.506	58.658	58.4450
3.500	1.750	56.	62.421	60.671	64.594	59.771	59.5220
3.500	1.750	57.	63.535	61.785	65.677	60.888	60.6710
3.500	1.750	58.	64.649	62.899	66.744	62.001	61.7850
3.500	1.750	59.	65.762	64.012	67.796	63.117	62.8990
3.500	1.750	60.	66.875	65.125	68.848	64.233	63.9784
3.075	1.750	59.	57.777	56.527	60.390	55.851	56.4975
3.075	1.750	50.	58.755	57.505	61.366	56.852	57.5050
3.500	1.750	8.	8.067	5.317	9.596	4.716	6.0295
3.500	1.750	9.	10.233	6.483	11.854	5.899	7.3960
3.500	1.750	10.	11.326	9.576	13.052	8.220	8.2609
3.500	1.750	11.	12.423	10.673	14.108	9.368	9.5760
3.500	1.750	12.	13.523	11.773	15.212	10.512	10.4919
3.500	1.750	13.	14.625	12.875	16.308	11.650	11.7750
3.500	1.750	14.	15.729	13.979	17.456	12.784	12.7720
3.500	1.750	15.	16.834	15.084	18.548	13.914	13.9750
3.500	1.750	16.	17.940	16.190	19.638	15.045	14.9516
3.500	1.750	17.	19.048	17.298	20.840	16.172	16.1900
3.500	1.750	18.	20.156	18.406	21.892	17.299	17.1812
3.500	1.750	19.	21.264	19.514	22.976	18.422	18.4050
3.500	1.750	20.	22.374	20.624	24.256	19.546	19.4096
3.500	1.750	21.	23.483	21.733	25.336	20.669	20.6260
3.500	1.750	22.	24.593	22.843	26.500	21.793	21.6386
3.500	1.750	23.	25.704	23.954	27.556	22.913	22.8430
3.500	1.750	24.	26.815	25.065	28.606	24.033	23.8678
3.500	1.750	25.	27.926	26.176	29.888	25.153	25.0650
3.500	1.750	26.	29.037	27.287	31.044	26.273	26.0967
3.500	1.750	27.	30.148	28.398	32.198	27.393	27.2870
3.500	1.750	28.	31.260	29.510	33.262	28.513	28.3246
3.500	1.750	29.	32.372	30.622	34.414	29.629	29.5100
3.500	1.750	30.	33.484	31.734	35.570	30.749	30.5937
3.500	1.750	31.	34.596	32.846	36.718	31.866	31.7340
3.500	1.750	32.	35.708	33.958	37.868	32.986	32.8921
3.500	1.750	33.</					

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TABLE XIII CONTINUED

P	D	N	PD	BD	OD	MHD	CD
4.073	1.781	7.	9.387	7.606	11.374	5.752	7.2714
4.073	1.781	8.	10.843	8.862	12.726	7.129	8.8626
4.073	1.781	9.	11.509	10.128	14.084	8.485	9.8895
4.073	1.781	10.	13.181	11.400	15.386	9.929	11.4000
4.073	1.781	11.	14.957	12.676	16.674	11.165	12.6552
4.073	1.781	12.	15.737	13.956	17.970	12.497	13.9560
4.073	1.781	13.	17.019	15.238	19.252	13.821	15.0400
4.073	1.781	14.	18.304	16.523	20.568	15.140	16.5230
4.073	1.781	15.	19.590	17.809	21.844	16.456	17.8090
4.073	1.781	16.	20.878	19.097	23.114	17.771	19.0970
4.073	1.781	17.	22.166	20.385	24.388	19.083	20.2491
4.073	1.781	18.	23.455	21.674	25.682	20.394	21.6740
4.073	1.781	19.	24.746	22.965	26.974	21.702	22.8435
4.073	1.781	20.	26.036	24.255	28.272	23.009	24.2550
4.073	1.781	21.	27.328	25.547	29.568	24.317	25.5471
4.073	1.781	22.	28.620	26.839	31.126	25.624	26.8390
4.073	1.781	23.	29.912	28.131	32.482	26.927	28.0307
4.073	1.781	24.	31.204	29.423	33.592	28.231	29.4230
4.073	1.781	25.	32.496	30.716	34.940	29.534	30.6238
4.073	1.781	26.	33.791	32.010	36.288	30.838	32.0100
4.073	1.781	27.	35.084	33.303	37.782	32.141	33.2176
4.073	1.781	28.	36.378	34.597	39.028	33.444	34.5970
4.073	1.781	29.	37.671	35.890	40.374	34.744	35.8105
4.073	1.781	30.	38.965	37.184	41.720	36.047	37.1840
4.073	1.781	31.	40.260	38.479	43.066	37.346	38.4046
4.073	1.781	32.	41.554	39.773	44.410	38.650	39.7730
4.073	1.781	33.	42.848	41.067	45.636	39.949	40.9772
4.073	1.781	34.	44.143	42.362	46.978	41.248	42.3620
4.073	1.781	35.	45.438	43.657	48.318	42.547	43.5911
4.073	1.781	36.	46.732	44.951	49.658	43.851	44.9510
4.073	1.781	37.	48.027	46.246	50.826	45.150	46.1837
4.073	1.781	38.	49.322	47.541	52.162	46.449	47.5410
4.073	1.781	39.	50.617	48.836	53.494	47.749	48.7769
4.073	1.781	40.	51.912	50.131	54.824	49.048	50.1310
4.073	1.781	41.	53.208	51.427	56.214	50.347	51.3708
4.073	1.781	42.	54.503	52.722	57.362	51.646	52.7220
4.073	1.781	43.	55.798	54.017	58.870	52.942	53.9634
4.073	1.781	44.	57.093	55.312	60.196	54.241	55.3120
4.073	1.781	45.	58.389	56.608	61.524	55.540	56.5568
4.073	1.781	46.	59.684	57.903	62.850	56.840	57.9030
4.073	1.781	47.	60.980	59.199	64.176	58.139	59.1990
4.073	1.781	48.	62.275	60.494	65.496	59.438	60.4940
4.073	1.781	49.	63.571	61.790	66.818	60.733	61.7930
4.073	1.781	50.	64.866	63.085	68.136	62.033	63.0850
4.073	1.781	51.	66.162	64.381	69.454	63.332	64.3358
4.073	1.781	52.	67.458	65.677	70.770	64.627	65.6770
4.073	1.781	53.	68.753	66.972	71.912	65.926	66.9285
4.073	1.781	54.	70.049	68.268	73.216	67.226	68.2680
4.073	1.781	55.	71.345	69.564	74.522	68.525	69.5221
4.073	1.781	56.	72.641	70.860	75.822	69.820	70.8600
4.073	1.781	57.	73.937	72.156	77.120	71.119	72.1156
4.073	1.781	58.	75.232	73.451	78.412	72.415	73.4510
4.073	1.781	59.	76.528	74.747	79.700	73.714	74.7080
4.073	1.781	60.	77.824	76.043	80.980	75.013	76.0430
4.500	2.250	7.	10.371	8.121	12.300	5.992	7.7512
4.073	1.781	18.	23.455	21.674	25.682	20.394	21.6740
4.073	1.781	19.	24.746	22.965	26.974	21.702	22.8435
4.073	1.781	20.	26.036	24.255	28.272	23.009	24.2550
4.073	1.781	21.	27.328	25.547	29.568	24.317	25.5471
4.073	1.781	22.	28.620	26.839	31.126	25.624	26.8390
4.073	1.781	23.	29.912	28.131	32.482	26.927	28.0307
4.073	1.781	24.	31.204	29.423	33.592	28.231	29.4230
4.073	1.781	25.	32.496	30.716	34.940	29.534	30.6238
4.073	1.781	26.	33.791	32.010	36.288	30.838	32.0100
4.073	1.781	27.	35.084	33.303	37.782	32.141	33.2176
4.073	1.781	28.	36.378	34.597	39.028	33.444	34.5970
4.073	1.781	29.	37.671	35.890	40.374	34.744	35.8105
4.073	1.781	30.	38.965	37.184	41.720	36.047	37.1840
4.073	1.781	31.	40.260	38.479	43.066	37.346	38.4046
4.073	1.781	32.	41.554	39.773	44.410	38.650	39.7730
4.073	1.781	33.	42.848	41.067	45.636	39.949	40.9772
4.073	1.781	34.	44.143	42.362	46.978	41.248	42.3620
4.073	1.781	35.	45.438	43.657	48.318	42.547	43.5911
4.073	1.781	36.	46.732	44.951	49.658	43.851	44.9510
4.073	1.781	37.	48.027	46.246	50.826	45.150	46.1837
4.073	1.781	38.	49.322	47.541	52.162	46.449	47.5410
4.073	1.781	39.	50.617	48.836	53.494	47.749	48.7769
4.073	1.781	40.	51.912	50.131	54.824	49.048	50.1310
4.073	1.781	41.	53.208	51.427	56.214	50.347	51.3708
4.073	1.781	42.	54.503	52.722	57.362	51.646	52.7220
4.073	1.781	43.	55.798	54.017	58.870	52.942	53.9634
4.073	1.781	44.	57.093	55.312	60.196	54.241	55.3120
4.073	1.781	45.	58.389	56.608	61.524	55.540	56.5568
4.073	1.781	46.	59.684	57.903	62.850	56.840	57.9030
4.073	1.781	47.	60.980	59.199	64.176	58.139	59.1990
4.073	1.781	48.	62.275	60.494	65.496	59.438	60.4940
4.073	1.781	49.	63.571	61.790	66.818	60.733	61.7930
4.073	1.781	50.	64.866	63.085	68.136	62.033	63.0850
4.073	1.781	51.	66.162	64.381	69.454	63.332	64.3358
4.073	1.781	52.	67.458	65.677	70.770	64.627	65.6770
4.073	1.781	53.	68.753	66.972	71.912	65.926	66.9285
4.073	1.781	54.	70.049	68.268	73.216	67.226	68.2680
4.073	1.781	55.	71.345	69.564	74.522	68.525	69.5221
4.073	1.781	56.	72.641	70.860	75.822	69.820	70.8600
4.073	1.781	57.	73.937	72.156	77.120	71.119	72.1156
4.073	1.781	58.	75.232	73.451	78.412	72.415	73.4510
4.073	1.781	59.	76.528	74.747	79.700	73.714	74.7080
4.073	1.781	60.	77.824	76.043	80.980	75.013	76.0430
4.500	2.250	7.	10.371	8.121	12.300	5.992	7.7512
4.500	2.250	8.	13.066	10.566	15.346	8.195	10.5660
4.500	2.250	9.	14.361	11.861	16.641	9.490	11.8610
4.500	2.250	10.	15.656	13.156	17.936	10.785	13.1560
4.500	2.250	11.	16.951	14.451	19.231	12.080	14.4510
4.500	2.250	12.	18.246	15.746	20.526	13.375	15.7460
4.500	2.250	13.	19.541	17.041	21.821	14.670	17.0410
4.500	2.250	14.	20.836	18.336	23.116	15.965	18.3360
4.500	2.250	15.	22.131	19.631	24.411	17.260	19.6310
4.500	2.250	16.	23.426	20.926	25.706	18.555	20.9260
4.500	2.250	17.	24.721	22.221	27.001	19.850	22.2210
4.500	2.250	18.	26.016	23.516	28.296	21.145	23.5160
4.500	2.250	19.	27.311	24.811	29.591	22.440	24.8110
4.500	2.250	20.	28.606	26.106	30.886	23.735	26.1060
4.500	2.250	21.	29.901	27.401	32.181	25.030	27.4010
4.500	2.250	22.	31.196	28.696	33.476	26.325	28.6960
4.500	2.250	23.	32.491	29.991	34.771	27.620	29.9910
4.500	2.250	24.	33.786	31.286	36.066	28.915	31.2860
4.500	2.250	25.	35.081	32.581	37.361	30.210	32.5810
4.500	2.250	26.	36.376	33.876	38.656	31.505	33.8760
4.500	2.250	27.	37.671	35.171	39.951	32.800	35.1710
4.500	2.250	28.	38.966	36.466	41.246	34.095	36.4660
4.500	2.250	29.	40.261	37.761	42.541	35.390	37.7610
4.500	2.250	30.	41.556	39.056	43.836	36.685	39.0560
4.500	2.250	31.	42.851	40.351	45.131	37.980	40.3510
4.500	2.250	32.	44.146	41.646	46.426	39.275	41.6460
4.500	2.250	33.	45.441	42.941	47.721	40.570	42.9410
4.500	2.250	34.	46.736	44.236	49.016	41.865	44.2360
4.500	2.250	35.	48.031	45.531	50.311	43.160	45.5310
4.500	2.250	36.	49.326	46.826	51.606	44.455	46.8260
4.500	2.250	37.	50.621	48.121	52.901	45.750	48.1210
4.500	2.250	38.	51.916	49.416	54.196	47.045	49.4160
4.500	2.250	39.	53.211	50.711	55.491	48.340	50.7110
4.500	2.250	40.	54.506	52.006	56.786	49.635	52.0060
4.500	2.250	41.	55.801	53.301	58.081	50.930	53.3010
4.500	2.250	42.	57.096	54.596	59.376	52.225	54.5960
4.500	2.250	43.	58.391	55.891	60.671	53.520	55.8910
4.500	2.250	44.	59.686	57.186	61.966	54.815	57.1860
4.500	2.250	45.	60.981	58.481	63.261	56.110	58.4810
4.500</							

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TABLE XIII CONTINUED

P	D	N	PD	BD	OD	MHD	CD	P	D	N	PD	BD	OD	MHD	CD
5.000	2.500	9.	14.619	12.119	16.948	9.860	11.8017	6.000	3.000	10.	19.416	16.416	22.318	14.037	16.4160
5.000	2.500	10.	16.180	13.680	18.618	13.510	13.6800	6.000	3.000	11.	21.297	18.297	24.240	16.005	17.9865
5.000	2.500	11.	17.747	15.247	20.198	13.150	14.9882	6.000	3.000	12.	23.182	20.182	26.134	17.967	20.1820
5.000	2.500	12.	19.319	16.819	21.832	14.785	16.1790	6.000	3.000	13.	25.071	22.071	28.016	19.917	21.8088
5.000	2.500	13.	20.893	18.393	23.466	16.410	18.1745	6.000	3.000	14.	26.964	23.964	29.960	21.861	23.9640
5.000	2.500	14.	22.470	19.970	25.098	18.030	19.9700	6.000	3.000	15.	28.858	25.858	31.832	23.799	25.6310
5.000	2.500	15.	24.049	21.549	26.730	19.645	21.5998	6.000	3.000	16.	30.755	27.755	33.702	25.737	27.7550
5.000	2.500	16.	25.629	23.129	28.360	21.260	23.1290	6.000	3.000	17.	32.653	29.653	35.562	27.659	29.6529
5.000	2.500	17.	27.211	24.711	29.992	22.870	24.7110	6.000	3.000	18.	34.583	31.583	37.462	29.601	31.5530
5.000	2.500	18.	28.794	26.294	31.624	24.480	26.2940	6.000	3.000	19.	36.533	33.533	39.422	31.527	33.5270
5.000	2.500	19.	30.378	27.878	33.256	26.085	27.8780	6.000	3.000	20.	38.535	35.535	41.418	33.423	35.5350
5.000	2.500	20.	31.962	29.462	34.888	27.690	29.4620	6.000	3.000	21.	40.257	37.257	43.266	35.379	37.0951
5.000	2.500	21.	33.548	31.048	36.519	29.295	30.9131	6.000	3.000	22.	42.160	39.160	45.124	37.305	39.1600
5.000	2.500	22.	35.133	32.633	37.112	30.900	32.6330	6.000	3.000	23.	44.064	41.064	47.014	39.223	40.9163
5.000	2.500	23.	36.720	34.220	38.746	32.500	34.2200	6.000	3.000	24.	45.968	42.968	48.908	41.145	42.9680
5.000	2.500	24.	38.306	35.806	40.380	34.100	35.8060	6.000	3.000	25.	47.872	44.872	50.802	43.065	44.8720
5.000	2.500	25.	39.894	37.394	42.014	35.700	37.3940	6.000	3.000	26.	49.777	46.777	52.696	44.985	46.7770
5.000	2.500	26.	41.481	38.981	43.648	37.300	38.9810	6.000	3.000	27.	51.683	48.683	54.590	46.905	48.6830
5.000	2.500	27.	43.069	40.569	45.282	38.900	40.5690	6.000	3.000	28.	53.588	50.588	56.484	48.825	50.5880
5.000	2.500	28.	44.657	42.157	46.916	40.500	42.1570	6.000	3.000	29.	55.494	52.494	58.378	50.739	52.4940
5.000	2.500	29.	46.245	43.745	48.549	42.095	43.7450	6.000	3.000	30.	57.401	54.401	60.272	52.659	54.4010
5.000	2.500	30.	47.834	45.334	50.184	43.695	45.3340	6.000	3.000	31.	59.307	56.307	62.166	54.573	56.3070
5.000	2.500	31.	49.423	46.923	51.818	45.290	46.9230	6.000	3.000	32.	61.214	58.214	64.060	56.493	58.2140
5.000	2.500	32.	51.011	48.511	53.450	46.890	48.5110	6.000	3.000	33.	63.121	60.121	65.958	58.407	60.1210
5.000	2.500	33.	52.601	50.101	55.082	48.485	50.1010	6.000	3.000	34.	65.028	62.028	67.856	60.321	62.0280
5.000	2.500	34.	54.190	51.690	56.714	50.080	51.6900	6.000	3.000	35.	66.935	63.935	69.754	62.235	63.9350
5.000	2.500	35.	55.779	53.279	58.346	51.675	53.2790	6.000	3.000	36.	68.842	65.842	71.652	64.153	65.8420
5.000	2.500	36.	57.369	54.869	60.012	53.275	54.8690	6.000	3.000	37.	70.750	67.750	73.550	66.069	67.7500
5.000	2.500	37.	58.958	56.458	61.648	54.870	56.4580	6.000	3.000	38.	72.657	69.657	75.449	67.983	69.6570
5.000	2.500	38.	60.548	58.048	63.280	56.465	58.0480	6.000	3.000	39.	74.565	71.565	77.348	69.897	71.5650
5.000	2.500	39.	62.138	59.638	64.912	58.060	59.6380	6.000	3.000	40.	76.473	73.473	79.247	71.811	73.4730
5.000	2.500	40.	63.727	61.227	66.556	59.655	61.2270	6.000	3.000	41.	78.381	75.381	81.146	73.725	75.3810
5.000	2.500	41.	65.317	62.817	68.190	61.250	62.8170	6.000	3.000	42.	80.289	77.289	83.045	75.639	77.2890
5.000	2.500	42.	66.907	64.407	69.822	62.845	64.4070	6.000	3.000	43.	82.197	79.197	84.944	77.547	79.1970
5.000	2.500	43.	68.498	65.998	71.454	64.435	65.9980	6.000	3.000	44.	84.105	81.105	86.844	79.461	81.1050
5.000	2.500	44.	70.088	67.588	73.086	66.030	67.5880	6.000	3.000	45.	86.014	83.014	88.743	81.375	83.0140
5.000	2.500	45.	71.678	69.178	74.678	67.625	69.1780	6.000	3.000	46.	87.922	84.922	90.642	83.289	84.9220
5.000	2.500	46.	73.268	70.768	76.268	69.220	70.7680	6.000	3.000	47.	89.830	86.830	92.541	85.203	86.8300
5.000	2.500	47.	74.859	72.359	77.859	70.815	72.3590	6.000	3.000	48.	91.739	88.739	94.440	87.117	88.7390
5.000	2.500	48.	76.449	73.949	79.449	72.410	73.9490	6.000	3.000	49.	93.647	90.647	96.339	89.031	90.6470
5.000	2.500	49.	78.039	75.539	81.039	74.000	75.5390	6.000	3.000	50.	95.556	92.556	98.238	90.945	92.5560
5.000	2.500	50.	79.630	77.130	82.630	75.595	77.1300	6.000	3.000	51.	97.464	94.464	100.137	92.859	94.4640
5.000	2.500	51.	81.220	78.720	84.440	77.190	78.7200	6.000	3.000	52.	99.373	96.373	102.036	94.773	96.3730
5.000	2.500	52.	82.811	80.311	86.031	78.780	80.3110	6.000	3.000	53.	101.282	98.282	103.931	96.675	98.2820
5.000	2.500	53.	84.402	81.902	87.622	80.375	81.9020	6.000	3.000	54.	103.191	100.191	105.830	98.589	100.1910
5.000	2.500	54.	85.992	83.492	89.212	81.970	83.4920	6.000	3.000	55.	105.099	102.099	107.729	100.503	102.0990
5.000	2.500	55.	87.583	85.083	90.793	83.565	85.0830	6.000	3.000	56.	107.008	104.008	109.628	102.417	104.0080
5.000	2.500	56.	89.174	86.674	92.384	85.155	86.6740	6.000	3.000	57.	108.917	105.917	111.527	104.331	105.9170
5.000	2.500	57.	90.764	88.264	93.974	86.750	88.2640	6.000	3.000	58.	110.826	107.826	113.426	106.245	107.8260
5.000	2.500	58.	92.355	89.855	95.565	88.340	90.8550	6.000	3.000	59.	112.735	109.735	115.325	108.159	109.7350
5.000	2.500	59.	93.946	91.446	97.156	89.935	91.4460	6.000	3.000	60.	114.644	111.644	117.224	110.073	111.6440
5.000	2.500	60.	95.537	93.037	98.747	91.530	93.0370	6.000	3.000	61.	116.553	113.553	119.123	111.987	113.5530
5.000	2.500	61.	97.128	94.628	100.338	93.615	95.1280	6.000	3.000	62.	118.462	115.462	121.022	113.901	115.4620
5.000	2.500	62.	98.719	96.219	101.929	95.700	97.2190	6.000	3.000	63.	120.371	117.371	122.921	115.815	117.3710
5.000	2.500	63.	100.310	97.810	103.520	97.785	99.3100	6.000	3.000	64.	122.282	119.282	124.822	117.729	119.2820
5.000	2.500	64.	101.901	99.401	105.111	99.870	100.9010	6.000	3.000	65.	124.193	121.193	126.723	119.643	121.1930
5.000	2.500	65.	103.492	100.992	106.702	101.955	102.4920	6.000	3.000	66.	126.104	123.104	128.624	121.557	123.1040
5.000	2.500	66.	105.083	102.583	108.293	103.040	104.0830	6.000	3.000	67.	128.015	125.015	130.525	123.471	125.0150
5.000	2.500	67.	106.674	104.174	109.884	104.125	105.6740	6.000	3.000	68.	129.926	126.926	132.426	125.385	126.9260
5.000	2.500	68.	108.265	105.765	111.475	105.210	106.8650	6.000	3.000	69.	131.837	128.837	134.327	127.299	128.8370
5.000	2.500	69.	109.856	107.356	113.066	106.295	108.4560	6.000	3.000	70.	133.748	130.748	136.228	129.213	130.7480
5.000	2.500	70.	111.447	108.947	114.657	107.380	109.6470	6.000	3.000	71.	135.659	132.659	138.129	131.127	132.6590
5.000	2.500	71.	113.038	110.538	116.248	108.465	111.2380	6.000	3.000	72.	137.570	134.570	140.030	133.041	134.5700
5.000	2.500	72.	114.629	112.129	117.839	109.550	112.8290	6.000	3.000	73.	139.481	136.481	141.931	134.955	136.4810
5.000	2.500	73.	116.220	113.720	119.430	110.635	114.4200	6.000	3.000	74.	141.392	138.392	143.832	136.869	138.3920
5.000	2.500	74.	117.811	115.311	121.021	111.720	116.0110	6.000	3.000	75.	143.303	140.303	145.733	138.783	140.3030
5.000	2.500	75.	119.402	116.902	122.612	112.805	117.6020	6.000	3.000	76.	145.214	142.214	147.634	140.697	142.2140
5.000	2.500	76.	120.993	118.493	124.203	113.890	119.1930	6.000	3.000	77.	147.125	144.125	149.535	142.611	144.1250
5.000	2.500	77.	122.584	120.084	125.794	114.975	120.7840	6.000	3.000	78.	149.036	146.036	151.436	144.525	146.0360
5.000	2.500	78.	124.175	121.675	127.385										

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P	D	N	PD	BD	OD	MHD	CD
7.000	3.500	11.	29.846	21.346	28.248	18.235	20.9837
7.000	3.500	12.	27.046	23.546	30.520	20.524	23.5460
7.000	3.500	13.	29.250	25.750	32.724	22.793	25.4440
7.000	3.500	14.	31.458	27.958	34.912	25.067	27.9580
7.000	3.500	15.	33.668	30.168	37.140	27.338	29.9032
7.000	3.500	16.	35.881	32.381	39.320	29.599	32.3810
7.000	3.500	17.	38.095	34.595	41.450	31.863	34.3615
7.000	3.500	18.	40.311	36.811	43.630	34.087	36.6110
7.000	3.500	19.	42.529	39.029	45.894	36.344	38.8202
7.000	3.500	20.	44.747	41.247	48.120	38.591	41.2470
7.000	3.500	21.	46.967	43.467	50.474	40.838	43.4722
7.000	3.500	22.	49.187	45.687	52.796	43.085	45.6870
7.000	3.500	23.	51.408	47.908	55.118	45.325	47.9356
7.000	3.500	24.	53.629	50.129	57.460	47.565	50.1290
7.000	3.500	25.	55.851	52.351	59.874	49.805	52.3510
7.000	3.500	26.	58.074	54.574	62.288	52.045	54.5740
7.000	3.500	27.	60.297	56.797	64.696	54.285	56.7960
7.000	3.500	28.	62.520	59.020	67.102	56.525	59.0200
7.000	3.500	29.	64.743	61.243	69.508	58.765	61.2430
7.000	3.500	30.	66.967	63.467	71.914	60.998	63.4670
7.000	3.500	31.	69.192	65.692	74.320	63.231	65.6920
7.000	3.500	32.	71.416	67.916	76.728	65.471	67.9160
7.000	3.500	33.	73.641	70.141	79.132	67.704	70.1410
7.000	3.500	34.	75.866	72.366	81.538	69.937	72.3660
7.000	3.500	35.	78.091	74.591	83.944	72.170	74.5910
7.000	3.500	36.	80.316	76.816	86.350	74.402	76.8160
7.000	3.500	37.	82.541	79.041	88.756	76.633	78.9300
7.000	3.500	38.	84.767	81.267	91.162	78.866	81.2670
7.000	3.500	39.	86.993	83.493	93.568	81.099	83.4930
7.000	3.500	40.	89.218	85.718	95.974	83.332	85.7180
7.000	3.500	41.	91.444	87.944	98.380	85.565	87.9440
7.000	3.500	42.	93.670	90.170	100.786	87.798	90.1700
7.000	3.500	43.	95.897	92.397	103.192	90.034	92.3970
7.000	3.500	44.	98.123	94.623	105.598	92.267	94.6230
7.000	3.500	45.	100.349	96.849	107.960	94.500	96.8490
7.000	3.500	46.	102.575	99.075	110.322	96.733	99.0750
7.000	3.500	47.	104.802	101.302	112.684	98.966	101.3020
7.000	3.500	48.	107.029	103.529	115.046	101.199	103.5290
7.000	3.500	49.	109.255	105.755	117.408	103.432	105.7550
7.000	3.500	50.	111.482	107.982	119.770	105.665	107.9820
7.000	3.500	51.	113.709	110.209	122.132	107.898	110.2090
7.000	3.500	52.	115.935	112.435	124.494	110.131	112.4350
7.000	3.500	53.	118.162	114.662	126.856	112.364	114.6620
7.000	3.500	54.	120.389	116.889	129.218	114.597	116.8890
7.000	3.500	55.	122.616	119.116	131.580	116.830	118.8900
7.000	3.500	56.	124.843	121.343	133.942	119.063	121.3430
7.000	3.500	57.	127.070	123.570	136.304	121.295	123.5700
7.000	3.500	58.	129.297	125.797	138.666	123.548	125.7970
7.000	3.500	59.	131.524	128.024	141.028	125.801	128.0240
7.000	3.500	60.	133.751	130.251	143.390	128.054	130.2510

P	D	N	PD	BD	OD	MHD	CD
1.500	.875	7.	3.457	2.582	3.960	1.601	2.4588
1.500	.875	8.	3.920	3.045	4.478	2.108	3.0450
1.500	.875	9.	4.384	3.511	4.960	2.608	3.6118
1.500	.875	10.	4.848	3.975	5.440	3.103	4.1714
1.500	.875	11.	5.312	4.439	5.926	3.595	4.7374
1.500	.875	12.	5.776	4.901	6.376	4.085	5.2974
1.500	.875	13.	6.240	5.363	6.828	4.573	5.8574
1.500	.875	14.	6.704	5.825	7.280	5.059	6.4174
1.500	.875	15.	7.168	6.287	7.732	5.543	6.9774
1.500	.875	16.	7.632	6.749	8.184	6.028	7.5374
1.500	.875	17.	8.096	7.211	8.636	6.512	8.0974
1.500	.875	18.	8.560	7.673	9.088	6.994	8.6574
1.500	.875	19.	9.024	8.135	9.540	7.476	9.2174
1.500	.875	20.	9.488	8.597	10.000	7.958	9.7774
1.500	.875	21.	9.952	9.059	10.460	8.440	10.3374
1.500	.875	22.	10.416	9.521	10.920	8.922	10.8974
1.500	.875	23.	10.880	9.983	11.380	9.404	11.4574
1.500	.875	24.	11.344	10.445	11.840	9.886	12.0174
1.500	.875	25.	11.808	10.907	12.300	10.368	12.5774
1.500	.875	26.	12.272	11.369	12.760	10.850	13.1374
1.500	.875	27.	12.736	11.831	13.220	11.332	13.6974
1.500	.875	28.	13.200	12.293	13.680	11.814	14.2574
1.500	.875	29.	13.664	12.755	14.140	12.296	14.8174
1.500	.875	30.	14.128	13.217	14.600	12.778	15.3774
1.500	.875	31.	14.592	13.679	15.060	13.260	15.9374
1.500	.875	32.	15.056	14.141	15.520	13.742	16.4974
1.500	.875	33.	15.520	14.603	15.980	14.224	17.0574
1.500	.875	34.	15.984	15.065	16.440	14.706	17.6174
1.500	.875	35.	16.448	15.527	16.900	15.188	18.1774
1.500	.875	36.	16.912	15.989	17.360	15.670	18.7374
1.500	.875	37.	17.376	16.451	17.820	16.152	19.2974
1.500	.875	38.	17.840	16.913	18.280	16.634	19.8574
1.500	.875	39.	18.304	17.375	18.740	17.116	20.4174
1.500	.875	40.	18.768	17.837	19.200	17.598	20.9774
1.500	.875	41.	19.232	18.299	19.660	18.080	21.5374
1.500	.875	42.	19.696	18.761	20.120	18.562	22.0974
1.500	.875	43.	20.160	19.223	20.580	19.044	22.6574
1.500	.875	44.	20.624	19.685	21.040	19.526	23.2174
1.500	.875	45.	21.088	20.147	21.500	20.008	23.7774
1.500	.875	46.	21.552	20.609	21.960	20.490	24.3374
1.500	.875	47.	22.016	21.071	22.420	20.972	24.8974
1.500	.875	48.	22.480	21.533	22.880	21.454	25.4574
1.500	.875	49.	22.944	21.995	23.340	21.936	26.0174
1.500	.875	50.	23.408	22.457	23.800	22.418	26.5774
1.500	.875	51.	23.872	22.919	24.260	22.900	27.1374
1.500	.875	52.	24.336	23.381	24.720	23.382	27.6974
1.500	.875	53.	24.800	23.843	25.180	23.864	28.2574
1.500	.875	54.	25.264	24.305	25.640	24.346	28.8174
1.500	.875	55.	25.728	24.767	26.100	24.828	29.3774
1.500	.875	56.	26.192	25.229	26.560	25.310	29.9374
1.500	.875	57.	26.656	25.691	27.020	25.792	30.4974
1.500	.875	58.	27.120	26.153	27.480	26.274	31.0574
1.500	.875	59.	27.584	26.615	27.940	26.756	31.6174
1.500	.875	60.	28.048	27.077	28.400	27.238	32.1774

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P	D	N	PD	BD	OD	MHD	CD
1.654	.875	8	4.322	3.447	5.038	2.785	3.4470
1.654	.875	9	4.836	3.961	5.566	3.336	3.8560
1.654	.875	10	5.352	4.477	6.090	3.882	4.2710
1.654	.875	11	5.871	4.996	6.614	4.424	4.6860
1.654	.875	12	6.391	5.516	7.138	4.965	5.1010
1.654	.875	13	6.911	6.036	7.668	5.507	5.5160
1.654	.875	14	7.433	6.558	8.194	6.038	5.9310
1.654	.875	15	7.955	7.080	8.718	6.573	6.3460
1.654	.875	16	8.478	7.603	9.242	7.107	6.7610
1.654	.875	17	9.001	8.126	9.766	7.640	7.1760
1.654	.875	18	9.525	8.650	10.290	8.172	7.5910
1.654	.875	19	10.049	9.174	10.814	8.703	8.0060
1.654	.875	20	10.573	9.698	11.338	9.234	8.4210
1.654	.875	21	11.098	10.223	11.862	9.765	8.8360
1.654	.875	22	11.622	10.747	12.386	10.296	9.2510
1.654	.875	23	12.147	11.272	12.910	10.825	9.6660
1.654	.875	24	12.672	11.797	13.434	11.354	10.0810
1.654	.875	25	13.197	12.322	13.958	11.884	10.4960
1.654	.875	26	13.722	12.847	14.482	12.413	10.9110
1.654	.875	27	14.247	13.372	15.006	12.942	11.3260
1.654	.875	28	14.773	13.898	15.530	13.472	11.7410
1.654	.875	29	15.298	14.423	16.054	13.999	12.1560
1.654	.875	30	15.823	14.948	16.578	14.528	12.5710
1.654	.875	31	16.349	15.474	17.102	15.056	12.9860
1.654	.875	32	16.875	16.000	17.626	15.585	13.4010
1.654	.875	33	17.400	16.525	18.150	16.113	13.8160
1.654	.875	34	17.926	17.051	18.674	16.641	14.2310
1.654	.875	35	18.452	17.577	19.198	17.168	14.6460
1.654	.875	36	18.978	18.103	19.722	17.696	15.0610
1.654	.875	37	19.503	18.628	20.246	18.223	15.4760
1.654	.875	38	20.029	19.154	20.770	18.750	15.8910
1.654	.875	39	20.555	19.680	21.294	19.278	16.3060
1.654	.875	40	21.081	20.206	21.818	19.806	16.7210
1.654	.875	41	21.607	20.732	22.342	20.334	17.1360
1.654	.875	42	22.133	21.258	22.866	20.862	17.5510
1.654	.875	43	22.659	21.784	23.390	21.390	17.9660
1.654	.875	44	23.185	22.310	23.914	21.918	18.3810
1.654	.875	45	23.711	22.836	24.438	22.446	18.7960
1.654	.875	46	24.237	23.362	24.962	22.974	19.2110
1.654	.875	47	24.763	23.888	25.486	23.502	19.6260
1.654	.875	48	25.289	24.414	26.010	24.030	20.0410
1.654	.875	49	25.815	24.940	26.534	24.558	20.4560
1.654	.875	50	26.341	25.467	27.058	25.086	20.8710
1.654	.875	51	26.867	25.993	27.582	25.614	21.2860
1.654	.875	52	27.393	26.519	28.106	26.142	21.7010
1.654	.875	53	27.919	27.045	28.630	26.670	22.1160
1.654	.875	54	28.445	27.571	29.154	27.198	22.5310
1.654	.875	55	28.971	28.097	29.678	27.726	22.9460
1.654	.875	56	29.497	28.623	30.202	28.254	23.3610
1.654	.875	57	30.023	29.149	30.726	28.782	23.7760
1.654	.875	58	30.549	29.675	31.250	29.310	24.1910
1.654	.875	59	31.075	30.201	31.774	29.838	24.6060
1.654	.875	60	31.601	30.727	32.298	30.366	25.0210
1.654	.875	7	4.033	3.033	4.654	1.921	2.8892
1.750	1.000	8	4.573	3.573	5.224	2.512	3.5730
1.750	1.000	9	5.117	4.117	5.818	3.095	4.0059
1.750	1.000	10	5.663	4.663	6.368	3.672	4.4360
1.750	1.000	11	6.211	5.212	6.914	4.246	4.8660
1.750	1.000	12	6.761	5.761	7.466	4.819	5.2960
1.750	1.000	13	7.313	6.313	8.018	5.392	5.7260
1.750	1.000	14	7.864	6.864	8.566	5.965	6.1560
1.750	1.000	15	8.417	7.417	9.114	6.538	6.5860
1.750	1.000	16	8.970	7.970	9.666	7.111	7.0160
1.750	1.000	17	9.524	8.524	10.218	7.684	7.4460
1.750	1.000	18	10.078	9.078	10.770	8.257	7.8760
1.750	1.000	19	10.632	9.632	11.322	8.830	8.3060
1.750	1.000	20	11.187	10.187	11.874	9.403	8.7360
1.750	1.000	21	11.742	10.742	12.426	9.976	9.1660
1.750	1.000	22	12.297	11.297	12.978	10.549	9.5960
1.750	1.000	23	12.852	11.852	13.530	11.122	10.0260
1.750	1.000	24	13.407	12.407	14.082	11.695	10.4560
1.750	1.000	25	13.963	12.963	14.634	12.268	10.8860
1.750	1.000	26	14.518	13.518	15.186	12.841	11.3160
1.750	1.000	27	15.074	14.074	15.738	13.414	11.7460
1.750	1.000	28	15.630	14.630	16.290	13.987	12.1760
1.750	1.000	29	16.186	15.186	16.842	14.560	12.6060
1.750	1.000	30	16.742	15.742	17.394	15.133	13.0360
1.750	1.000	31	17.298	16.298	17.946	15.706	13.4660
1.750	1.000	32	17.854	16.854	18.498	16.279	13.8960
1.750	1.000	33	18.410	17.410	19.050	16.852	14.3260
1.750	1.000	34	18.966	17.966	19.602	17.425	14.7560
1.750	1.000	35	19.522	18.522	20.154	17.998	15.1860
1.750	1.000	36	20.079	19.079	20.706	18.571	15.6160
1.750	1.000	37	20.635	19.635	21.258	19.144	16.0460
1.750	1.000	38	21.192	20.192	21.810	19.717	16.4760
1.750	1.000	39	21.748	20.748	22.362	20.290	16.9060
1.750	1.000	40	22.305	21.305	22.914	20.863	17.3360
1.750	1.000	41	22.861	21.861	23.466	21.436	17.7660
1.750	1.000	42	23.418	22.418	24.018	22.009	18.1960
1.750	1.000	43	23.974	22.974	24.570	22.582	18.6260
1.750	1.000	44	24.531	23.531	25.122	23.155	19.0560
1.750	1.000	45	25.087	24.087	25.674	23.728	19.4860
1.750	1.000	46	25.644	24.644	26.226	24.301	19.9160
1.750	1.000	47	26.200	25.200	26.778	24.874	20.3460
1.750	1.000	48	26.757	25.757	27.330	25.447	20.7760
1.750	1.000	49	27.314	26.314	27.882	26.020	21.2060
1.750	1.000	50	27.870	26.870	28.434	26.593	21.6360
1.750	1.000	51	28.427	27.427	28.986	27.166	22.0660
1.750	1.000	52	28.984	27.984	29.538	27.739	22.4960
1.750	1.000	53	29.541	28.541	30.090	28.312	22.9260
1.750	1.000	54	30.097	29.097	30.642	28.885	23.3560
1.750	1.000	55	30.654	29.654	31.194	29.458	23.7860
1.750	1.000	56	31.211	30.211	31.746	30.031	24.2160
1.750	1.000	57	31.767	30.767	32.298	30.604	24.6460
1.750	1.000	58	32.324	31.324	32.850	31.177	25.0760
1.750	1.000	59	32.881	31.881	33.402	31.750	25.5060
1.750	1.000	60	33.438	32.438	33.954	32.323	25.9360
2.000	1.125	7	4.610	3.485	5.356	2.302	3.3207
2.000	1.125	8	5.226	4.101	6.044	2.978	4.0101
2.000	1.125	9	5.848	4.723	6.674	3.644	4.5961



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P	D	N	PD	BD	OD	MHD	CD
2.000	1.125	10.	6.472	5.347	7.312	4.304	5.3470
2.000	1.125	11.	7.099	5.974	7.936	4.960	5.8705
2.000	1.125	12.	7.727	6.602	8.568	5.614	6.6020
2.000	1.125	13.	8.357	7.232	9.190	6.264	7.1446
2.000	1.125	14.	8.988	7.863	9.814	6.912	7.8630
2.000	1.125	15.	9.619	8.494	10.440	7.558	8.4933
2.000	1.125	16.	10.252	9.127	11.064	8.204	9.1270
2.000	1.125	17.	10.884	9.759	11.684	8.848	9.7593
2.000	1.125	18.	11.518	10.393	12.308	9.492	10.3930
2.000	1.125	19.	12.151	11.026	12.934	10.134	10.9663
2.000	1.125	20.	12.785	11.660	13.560	10.776	11.6600
2.000	1.125	21.	13.419	12.294	14.184	11.418	12.2940
2.000	1.125	22.	14.053	12.928	14.808	12.060	12.9280
2.000	1.125	23.	14.688	13.563	15.432	12.700	13.5630
2.000	1.125	24.	15.323	14.198	16.056	13.340	14.1980
2.000	1.125	25.	15.957	14.832	16.680	13.980	14.8320
2.000	1.125	26.	16.592	15.467	17.304	14.620	15.4670
2.000	1.125	27.	17.228	16.103	17.928	15.260	16.1030
2.000	1.125	28.	17.863	16.738	18.552	15.900	16.7380
2.000	1.125	29.	18.498	17.373	19.176	16.540	17.3730
2.000	1.125	30.	19.134	18.009	19.800	17.180	18.0090
2.000	1.125	31.	19.769	18.644	20.424	17.816	18.6440
2.000	1.125	32.	20.405	19.280	21.048	18.456	19.2800
2.000	1.125	33.	21.040	19.915	21.672	19.096	19.9150
2.000	1.125	34.	21.676	20.551	22.296	19.732	20.5510
2.000	1.125	35.	22.312	21.187	22.920	20.370	21.1870
2.000	1.125	36.	22.947	21.822	23.544	21.010	21.8220
2.000	1.125	37.	23.583	22.458	24.168	21.648	22.4580
2.000	1.125	38.	24.219	23.094	24.792	22.286	23.0940
2.000	1.125	39.	24.855	23.730	25.416	22.924	23.7300
2.000	1.125	40.	25.491	24.366	26.040	23.562	24.3660
2.000	1.125	41.	26.127	25.002	26.664	24.200	25.0020
2.000	1.125	42.	26.763	25.638	27.288	24.838	25.6380
2.000	1.125	43.	27.399	26.274	27.912	25.474	26.2740
2.000	1.125	44.	28.035	26.910	28.536	26.112	26.9100
2.000	1.125	45.	28.671	27.546	29.160	26.750	27.5460
2.000	1.125	46.	29.307	28.182	29.784	27.388	28.1820
2.000	1.125	47.	29.943	28.818	30.408	28.026	28.8180
2.000	1.125	48.	30.580	29.455	31.032	28.664	29.4550
2.000	1.125	49.	31.216	30.091	31.656	29.300	30.0910
2.000	1.125	50.	31.852	30.727	32.280	29.938	30.7270
2.000	1.125	51.	32.488	31.363	32.904	30.576	31.3630
2.000	1.125	52.	33.124	31.999	33.528	31.212	31.9990
2.000	1.125	53.	33.761	32.636	34.152	31.850	32.6360
2.000	1.125	54.	34.397	33.272	34.776	32.488	33.2720
2.000	1.125	55.	35.033	33.908	35.400	33.126	33.9080
2.000	1.125	56.	35.669	34.544	36.024	33.764	34.5440
2.000	1.125	57.	36.306	35.181	36.648	34.400	35.1810
2.000	1.125	58.	36.942	35.817	37.272	35.036	35.8170
2.000	1.125	59.	37.578	36.453	37.896	35.672	36.4530
2.000	1.125	60.	38.215	37.090	38.520	36.312	37.0900
2.000	1.125	61.	38.851	37.726	39.144	36.948	37.7260
2.000	1.125	62.	39.488	38.362	39.768	37.584	38.3620
2.000	1.125	63.	40.124	38.999	40.392	38.220	38.9990
2.000	1.125	64.	40.760	39.635	41.016	38.856	39.6350
2.000	1.125	65.	41.396	40.271	41.640	39.492	40.2710
2.000	1.125	66.	42.033	40.908	42.264	40.128	40.9080
2.000	1.125	67.	42.669	41.544	42.888	40.764	41.5440
2.000	1.125	68.	43.306	42.181	43.512	41.400	42.1810
2.000	1.125	69.	43.942	42.817	44.136	42.036	42.8170
2.000	1.125	70.	44.578	43.453	44.760	42.672	43.4530
2.000	1.125	71.	45.215	44.089	45.384	43.308	44.0890
2.000	1.125	72.	45.851	44.726	46.008	43.944	44.7260
2.000	1.125	73.	46.488	45.363	46.632	44.580	45.3630
2.000	1.125	74.	47.124	45.999	47.256	45.216	45.9990
2.000	1.125	75.	47.760	46.635	47.880	45.852	46.6350
2.000	1.125	76.	48.397	47.272	48.504	46.488	47.2720
2.000	1.125	77.	49.033	47.908	49.128	47.124	47.9080
2.000	1.125	78.	49.670	48.545	49.752	47.760	48.5450
2.000	1.125	79.	50.306	49.181	50.376	48.396	49.1810
2.000	1.125	80.	50.943	49.818	51.000	49.032	49.8180
2.000	1.125	81.	51.579	50.454	51.624	49.668	50.4540
2.000	1.125	82.	52.216	51.091	52.248	50.304	51.0910
2.000	1.125	83.	52.852	51.727	52.872	50.940	51.7270
2.000	1.125	84.	53.489	52.364	53.496	51.576	52.3640
2.000	1.125	85.	54.125	53.000	54.120	52.212	53.0000
2.000	1.125	86.	54.761	53.636	54.756	52.848	53.6360
2.000	1.125	87.	55.398	54.273	55.392	53.484	54.2730
2.000	1.125	88.	56.034	54.909	56.028	54.120	54.9090
2.000	1.125	89.	56.671	55.546	56.664	54.756	55.5460
2.000	1.125	90.	57.307	56.182	57.300	55.392	56.1820
2.000	1.125	91.	57.944	56.819	57.944	56.028	56.8190
2.000	1.125	92.	58.580	57.455	58.580	56.664	57.4550
2.000	1.125	93.	59.217	58.092	59.217	57.300	58.0920
2.000	1.125	94.	59.853	58.728	59.853	57.936	58.7280
2.000	1.125	95.	60.490	59.365	60.490	58.572	59.3650
2.000	1.125	96.	61.126	60.001	61.126	59.208	60.0010
2.000	1.125	97.	61.763	60.636	61.763	59.844	60.6360
2.000	1.125	98.	62.399	61.274	62.399	60.480	61.2740
2.000	1.125	99.	63.036	61.911	63.036	61.116	61.9110
2.000	1.125	100.	63.672	62.547	63.672	61.752	62.5470
2.500	1.250	7.	5.762	4.512	6.830	3.150	4.3066
2.500	1.250	8.	6.533	5.283	7.644	4.035	5.2830
2.500	1.250	9.	7.310	6.060	8.520	4.868	6.0600
2.500	1.250	10.	8.090	6.840	9.268	5.693	6.8400
2.500	1.250	11.	8.874	7.624	10.104	6.513	7.6240
2.500	1.250	12.	9.659	8.409	10.888	7.330	8.4090
2.500	1.250	13.	10.446	9.196	11.672	8.143	9.1960
2.500	1.250	14.	11.235	9.985	12.454	8.953	9.9850
2.500	1.250	15.	12.024	10.774	13.234	9.760	10.7740
2.500	1.250	16.	12.815	11.565	14.014	10.568	11.5650
2.500	1.250	17.	13.605	12.355	14.890	11.373	12.3550
2.500	1.250	18.	14.397	13.147	15.722	12.178	13.1470
2.500	1.250	19.	15.189	13.939	16.398	12.980	13.9390
2.500	1.250	20.	15.981	14.731	17.230	13.783	14.7310
2.500	1.250	21.	16.774	15.524	18.060	14.585	15.5240
2.500	1.250	22.	17.567	16.317	18.930	15.388	16.3170
2.500	1.250	23.	18.360	17.110	19.760	16.188	17.1100
2.500	1.250	24.	19.153	17.903	20.518	16.988	17.9030
2.500	1.250	25.	19.947	18.697	21.346	17.788	18.6970



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P	D	N	PD	BD	OD	MHD	CD
2.500	1.250	26.	20.741	19.491	22.174	18.588	19.491Q
2.500	1.250	27.	21.534	20.284	22.998	19.388	20.2316
2.500	1.250	28.	22.327	21.079	23.758	20.188	21.079Q
2.500	1.250	29.	23.123	21.873	24.592	20.985	21.873Q
2.500	1.250	30.	23.917	22.667	25.404	21.785	22.667Q
2.500	1.250	31.	24.711	23.461	26.226	22.583	23.461Q
2.500	1.250	32.	25.506	24.256	27.050	23.383	24.256Q
2.500	1.250	33.	26.300	25.050	27.875	24.180	25.050Q
2.500	1.250	34.	27.095	25.845	28.700	24.978	25.845Q
2.500	1.250	35.	27.890	26.640	29.526	25.775	26.640Q
2.500	1.250	36.	28.684	27.434	30.352	26.575	27.434Q
2.500	1.250	37.	29.479	28.229	31.178	27.373	28.229Q
2.500	1.250	38.	30.274	29.024	31.999	28.170	29.024Q
2.500	1.250	39.	31.069	29.819	32.820	28.968	29.819Q
2.500	1.250	40.	31.864	30.614	33.642	29.765	30.614Q
2.500	1.250	41.	32.659	31.409	34.464	30.563	31.409Q
2.500	1.250	42.	33.454	32.204	35.286	31.360	32.204Q
2.500	1.250	43.	34.249	32.999	36.108	32.155	33.000Q
2.500	1.250	44.	35.044	33.794	36.930	32.953	33.794Q
2.500	1.250	45.	35.839	34.589	37.752	33.750	34.589Q
2.500	1.250	46.	36.634	35.384	38.574	34.548	35.384Q
2.500	1.250	47.	37.429	36.179	39.396	35.345	36.179Q
2.500	1.250	48.	38.224	36.974	40.218	36.143	36.974Q
2.500	1.250	49.	39.020	37.770	41.040	36.938	37.770Q
2.500	1.250	50.	39.815	38.565	41.862	37.735	38.565Q
2.500	1.250	51.	40.610	39.360	42.684	38.533	39.360Q
2.500	1.250	52.	41.405	40.155	43.506	39.330	40.155Q
2.500	1.250	53.	42.200	40.950	44.328	40.125	40.950Q
2.500	1.250	54.	43.000	41.746	45.150	40.923	41.746Q
2.500	1.250	55.	43.800	42.541	45.972	41.720	42.541Q
2.500	1.250	56.	44.600	43.337	46.794	42.515	43.337Q
2.500	1.250	57.	45.400	44.132	47.616	43.313	44.132Q
2.500	1.250	58.	46.200	44.928	48.438	44.108	44.928Q
2.500	1.250	59.	47.000	45.723	49.260	44.905	45.723Q
2.500	1.250	60.	47.800	46.518	50.082	45.703	46.518Q
2.500	1.250	61.	48.600	47.314	50.904	46.500	47.314Q
2.500	1.250	62.	49.400	48.109	51.726	47.298	48.109Q
2.500	1.250	63.	50.200	48.905	52.548	48.090	48.905Q
2.500	1.250	64.	51.000	49.700	53.370	48.882	49.700Q
2.500	1.250	65.	51.800	50.496	54.192	49.675	50.496Q
2.500	1.250	66.	52.600	51.291	55.014	50.468	51.291Q
2.500	1.250	67.	53.400	52.086	55.836	51.260	52.086Q
2.500	1.250	68.	54.200	52.882	56.658	52.053	52.882Q
2.500	1.250	69.	55.000	53.677	57.480	52.845	53.677Q
2.500	1.250	70.	55.800	54.473	58.302	53.638	54.473Q
2.500	1.250	71.	56.600	55.268	59.124	54.430	55.268Q
2.500	1.250	72.	57.400	56.064	59.946	55.223	56.064Q
2.500	1.250	73.	58.200	56.859	60.768	56.015	56.859Q
2.500	1.250	74.	59.000	57.655	61.590	56.808	57.655Q
2.500	1.250	75.	59.800	58.451	62.412	57.600	58.451Q
2.500	1.250	76.	60.600	59.246	63.234	58.393	59.246Q
2.500	1.250	77.	61.400	60.042	64.056	59.185	60.042Q
2.500	1.250	78.	62.200	60.837	64.878	59.978	60.837Q
2.500	1.250	79.	63.000	61.633	65.700	60.770	61.633Q
2.500	1.250	80.	63.800	62.428	66.522	61.563	62.428Q
2.500	1.250	81.	64.600	63.224	67.344	62.355	63.224Q
2.500	1.250	82.	65.400	64.020	68.166	63.148	64.020Q
2.500	1.250	83.	66.200	64.816	68.988	63.940	64.816Q
2.500	1.250	84.	67.000	65.612	69.810	64.733	65.612Q
2.500	1.250	85.	67.800	66.408	70.632	65.525	66.408Q
2.500	1.250	86.	68.600	67.204	71.454	66.318	67.204Q
2.500	1.250	87.	69.400	68.000	72.276	67.110	68.000Q
2.500	1.250	88.	70.200	68.796	73.098	67.903	68.796Q
2.500	1.250	89.	71.000	69.592	73.920	68.695	69.592Q
2.500	1.250	90.	71.800	70.388	74.742	69.488	70.388Q
2.500	1.250	91.	72.600	71.184	75.564	70.280	71.184Q
2.500	1.250	92.	73.400	71.980	76.386	71.073	71.980Q
2.500	1.250	93.	74.200	72.776	77.208	71.865	72.776Q
2.500	1.250	94.	75.000	73.572	78.030	72.658	73.572Q
2.500	1.250	95.	75.800	74.368	78.852	73.450	74.368Q
2.500	1.250	96.	76.600	75.164	79.674	74.243	75.164Q
2.500	1.250	97.	77.400	75.960	80.496	75.035	75.960Q
2.500	1.250	98.	78.200	76.756	81.318	75.828	76.756Q
2.500	1.250	99.	79.000	77.552	82.140	76.620	77.552Q
2.500	1.250	100.	79.800	78.348	82.962	77.413	78.348Q
2.500	1.250	101.	80.600	79.144	83.784	78.205	79.144Q
2.500	1.250	102.	81.400	79.940	84.606	78.998	79.940Q
2.500	1.250	103.	82.200	80.736	85.428	79.790	80.736Q
2.500	1.250	104.	83.000	81.532	86.250	80.583	81.532Q
2.500	1.250	105.	83.800	82.328	87.072	81.375	82.328Q
2.500	1.250	106.	84.600	83.124	87.894	82.168	83.124Q
2.500	1.250	107.	85.400	83.920	88.716	82.960	83.920Q
2.500	1.250	108.	86.200	84.716	89.538	83.753	84.716Q
2.500	1.250	109.	87.000	85.512	90.360	84.545	85.512Q
2.500	1.250	110.	87.800	86.308	91.182	85.338	86.308Q
2.500	1.250	111.	88.600	87.104	92.004	86.130	87.104Q
2.500	1.250	112.	89.400	87.900	92.826	86.923	87.900Q
2.500	1.250	113.	90.200	88.696	93.648	87.715	88.696Q
2.500	1.250	114.	91.000	89.492	94.470	88.508	89.492Q
2.500	1.250	115.	91.800	90.288	95.292	89.300	90.288Q
2.500	1.250	116.	92.600	91.084	96.114	90.093	91.084Q
2.500	1.250	117.	93.400	91.880	96.936	90.885	91.880Q
2.500	1.250	118.	94.200	92.676	97.758	91.678	92.676Q
2.500	1.250	119.	95.000	93.472	98.580	92.470	93.472Q
2.500	1.250	120.	95.800	94.268	99.402	93.263	94.268Q
2.500	1.250	121.	96.600	95.064	100.224	94.055	95.064Q
2.500	1.250	122.	97.400	95.860	101.046	94.848	95.860Q
2.500	1.250	123.	98.200	96.656	101.868	95.640	96.656Q
2.500	1.250	124.	99.000	97.452	102.690	96.433	97.452Q
2.500	1.250	125.	99.800	98.248	103.512	97.225	98.248Q
2.500	1.250	126.	100.600	99.044	104.334	98.018	99.044Q
2.500	1.250	127.	101.400	99.840	105.156	98.810	99.840Q
2.500	1.250	128.	102.200	100.636	105.978	99.603	100.636Q
2.500	1.250	129.	103.000	101.432	106.800	100.395	101.432Q
2.500	1.250	130.	103.800	102.228	107.622	101.188	102.228Q
2.500	1.250	131.	104.600	103.024	108.444	101.980	103.024Q
2.500	1.250	132.	105.400	103.820	109.266	102.773	103.820Q
2.500	1.250	133.	106.200	104.616	110.088	103.565	104.616Q
2.500	1.250	134.	107.000	105.412	110.910	104.358	105.412Q
2.500	1.250	135.	107.800	106.208	111.732	105.150	106.208Q
2.500	1.250	136.	108.600	107.004	112.554	105.943	107.004Q
2.500	1.250	137.	109.400	107.800	113.376	106.735	107.800Q
2.500	1.250	138.	110.200	108.596	114.198	107.528	108.596Q
2.500	1.250	139.	111.000	109.392	115.020	108.320	109.392Q
2.500	1.250	140.	111.800	110.188	115.842	109.113	110.188Q
2.500	1.250	141.	112.600	110.984	116.664	109.905	110.984Q
2.500	1.250	142.	113.400	111.780	117.486	110.698	111.780Q
2.500	1.250	143.	114.200	112.576	118.308	111.490	112.576Q
2.500	1.250	144.	115.000	113.372	119.130	112.283	113.372Q
2.500	1.250	145.	115.800	114.168	120.000	113.075	114.168Q
2.500	1.250	146.	116.600	114.964	120.822	113.868	114.964Q
2.500	1.250	147.	117.400	115.760	121.644	114.660	115.760Q
2.500	1.250	148.	118.200	116.556	122.466	115.453	116.556Q
2.500	1.250	149.	119.000	117.352	123.288	116.245	117.352Q
2.500	1.250	150.	119.800	118.148	124.110	117.038	118.148Q
2.500	1.250	151.	120.600	118.944	124.932	117.830	118.944Q
2.500	1.250	152.	121.400	119.740	125.754	118.623	119.740Q
2.500	1.250	153.	122.200	120.536	126.576	119.415	120.536Q
2.500	1.250	154.	123.000	121.332	127.398	120.208	121.332Q
2.500	1.250	155.	123.800	122.128	128.220	121.000	122.128Q
2.500	1.250	156.	124.600	122.924	129.042	121.793	122.924Q
2.500	1.250	157.	125.400	123.720	129.864	122.585	123.720Q
2.500	1.250	158.	126.200	124.516	130.686	123.378	124.516Q
2.500	1.250	159.	127.000	125.312	131.508	124.170	125.312Q
2.500	1.250	160.	127.800	126.108	132.330	124.963	126.108Q
2.500	1.250	161.	128.600	126.904	133.1		

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P	D	N	PD	BD	OD	MHD	CD
2.609	.875	42.	34.912	34.037	37.216	33.359	34.0370
2.609	.875	43.	35.742	34.867	38.076	34.389	34.8670
2.609	.875	44.	36.572	35.697	38.932	35.221	35.6970
2.609	.875	45.	37.402	36.527	39.788	36.053	36.5270
2.609	.875	46.	38.231	37.356	40.644	36.886	37.3560
2.609	.875	47.	39.061	38.186	41.500	37.718	38.1860
2.609	.875	48.	39.891	39.016	42.354	38.550	39.0160
2.609	.875	49.	40.721	39.846	43.208	39.380	39.8460
2.609	.875	50.	41.551	40.676	44.064	40.212	40.6760
2.609	.875	51.	42.381	41.506	44.914	41.044	41.5060
2.609	.875	52.	43.211	42.336	45.768	41.874	42.3360
2.609	.875	53.	44.041	43.166	46.622	42.706	43.1660
2.609	.875	54.	44.871	43.996	47.476	43.538	43.9960
2.609	.875	55.	45.701	44.826	48.330	44.371	44.8260
2.609	.875	56.	46.531	45.656	49.184	45.200	45.6560
2.609	.875	57.	47.361	46.486	50.038	46.033	46.4860
2.609	.875	58.	48.191	47.316	50.892	46.862	47.3160
2.609	.875	59.	49.021	48.146	51.746	47.693	48.1460
2.609	.875	60.	49.851	48.976	52.600	48.527	48.9760
3.067	1.625	7.	7.069	5.444	8.316	3.839	5.1920
3.067	1.625	8.	8.014	6.389	9.342	4.875	6.3890
3.067	1.625	9.	8.967	7.342	10.286	5.897	7.1473
3.067	1.625	10.	9.925	8.300	11.290	6.909	8.3000
3.067	1.625	11.	10.886	9.261	12.298	7.915	9.1023
3.067	1.625	12.	11.850	10.225	13.244	8.918	10.2250
3.067	1.625	13.	12.816	11.191	14.230	9.914	11.1910
3.067	1.625	14.	13.783	12.158	15.202	10.908	12.1580
3.067	1.625	15.	14.751	13.126	16.136	11.899	13.1260
3.067	1.625	16.	15.721	14.096	17.208	12.889	14.0960
3.067	1.625	17.	16.691	15.064	18.044	13.877	15.0640
3.067	1.625	18.	17.662	16.037	19.066	14.865	16.0370
3.067	1.625	19.	18.634	17.009	20.130	15.849	17.0090
3.067	1.625	20.	19.606	17.981	21.152	16.834	17.9810
3.067	1.625	21.	20.578	18.953	22.094	17.818	18.9530
3.067	1.625	22.	21.551	19.926	23.110	18.803	19.9260
3.067	1.625	23.	22.524	20.899	24.000	19.784	20.8990
3.067	1.625	24.	23.497	21.872	24.942	20.766	21.8720
3.067	1.625	25.	24.471	22.846	25.932	21.747	22.8460
3.067	1.625	26.	25.445	23.820	27.086	22.728	23.8200
3.067	1.625	27.	26.418	24.793	28.098	23.710	24.7930
3.067	1.625	28.	27.393	25.768	29.030	24.691	25.7680
3.067	1.625	29.	28.367	26.742	30.038	25.670	26.7420
3.067	1.625	30.	29.341	27.716	31.044	26.651	27.7160
3.067	1.625	31.	30.316	28.691	32.052	27.629	28.6910
3.067	1.625	32.	31.290	29.665	33.058	28.611	29.6650
3.067	1.625	33.	32.265	30.640	34.062	29.589	30.6400
3.067	1.625	34.	33.240	31.615	34.982	30.568	31.6150
3.067	1.625	35.	34.215	32.590	35.900	31.546	32.5900
3.067	1.625	36.	35.190	33.565	36.986	32.527	33.5650
3.067	1.625	37.	36.165	34.540	37.980	33.506	34.5400
3.067	1.625	38.	37.140	35.515	38.982	34.484	35.5150
3.067	1.625	39.	38.115	36.490	39.978	35.463	36.4900
3.067	1.625	40.	39.090	37.465	40.976	36.441	37.4650
3.067	1.625	41.	40.066	38.441	41.976	37.419	38.4410
3.067	1.625	42.	41.041	39.416	42.868	38.398	39.4160
3.067	1.625	43.	42.016	40.391	43.760	39.379	40.3910
3.067	1.625	44.	42.992	41.366	44.654	40.360	41.3660
3.067	1.625	45.	43.967	42.341	45.550	41.341	42.3410
3.067	1.625	46.	44.943	43.316	46.448	42.322	43.3160
3.067	1.625	47.	45.918	44.291	47.348	43.303	44.2910
3.067	1.625	48.	46.894	45.266	48.250	44.284	45.2660
3.067	1.625	49.	47.869	46.241	49.154	45.265	46.2410
3.067	1.625	50.	48.845	47.216	50.060	46.246	47.2160
3.067	1.625	51.	49.821	48.191	50.968	47.227	48.1910
3.067	1.625	52.	50.796	49.166	51.878	48.208	49.1660
3.067	1.625	53.	51.772	50.141	52.788	49.189	50.1410
3.067	1.625	54.	52.748	51.116	53.698	50.170	51.1160
3.067	1.625	55.	53.723	52.091	54.608	51.151	52.0910
3.067	1.625	56.	54.699	53.066	55.518	52.132	53.0660
3.067	1.625	57.	55.675	54.041	56.428	53.113	54.0410
3.067	1.625	58.	56.651	55.016	57.338	54.094	55.0160
3.067	1.625	59.	57.626	55.991	58.248	55.075	56.0000
3.067	1.625	60.	58.602	56.966	59.158	56.056	57.0000
3.067	1.625	61.	59.578	57.941	60.068	57.037	58.0000
3.067	1.625	62.	60.554	58.916	60.978	58.018	59.0000
3.067	1.625	63.	61.530	59.891	61.888	59.000	60.0000
3.067	1.625	64.	62.506	60.866	62.798	59.981	61.0000
3.067	1.625	65.	63.481	61.841	63.708	60.962	62.0000
3.067	1.625	66.	64.457	62.816	64.618	61.943	63.0000
3.067	1.625	67.	65.433	63.791	65.528	62.924	64.0000
3.067	1.625	68.	66.409	64.766	66.438	63.905	65.0000
3.067	1.625	69.	67.385	65.741	67.348	64.886	66.0000
3.067	1.625	70.	68.361	66.716	68.258	65.867	67.0000
3.067	1.625	71.	69.337	67.691	69.168	66.848	68.0000
3.067	1.625	72.	70.313	68.666	70.078	67.829	69.0000
3.067	1.625	73.	71.289	69.641	70.988	68.810	70.0000
3.067	1.625	74.	72.265	70.616	71.898	69.791	71.0000
3.067	1.625	75.	73.241	71.591	72.808	70.772	72.0000
3.067	1.625	76.	74.217	72.566	73.718	71.753	73.0000
3.067	1.625	77.	75.193	73.541	74.628	72.734	74.0000
3.067	1.625	78.	76.169	74.516	75.538	73.715	75.0000
3.067	1.625	79.	77.145	75.491	76.448	74.696	76.0000
3.067	1.625	80.	78.121	76.466	77.358	75.677	77.0000
3.067	1.625	81.	79.097	77.441	78.268	76.658	78.0000
3.067	1.625	82.	80.073	78.416	79.178	77.639	79.0000
3.067	1.625	83.	81.049	79.391	80.088	78.620	80.0000
3.067	1.625	84.	82.025	80.366	80.998	79.601	81.0000
3.067	1.625	85.	83.001	81.341	81.908	80.582	82.0000
3.067	1.625	86.	83.977	82.316	82.818	81.563	83.0000
3.067	1.625	87.	84.953	83.291	83.728	82.544	84.0000
3.067	1.625	88.	85.929	84.266	84.638	83.525	85.0000
3.067	1.625	89.	86.905	85.241	85.548	84.506	86.0000
3.067	1.625	90.	87.881	86.216	86.458	85.487	87.0000
3.067	1.625	91.	88.857	87.191	87.368	86.468	88.0000
3.067	1.625	92.	89.833	88.166	88.278	87.449	89.0000
3.067	1.625	93.	90.809	89.141	89.188	88.430	90.0000
3.067	1.625	94.	91.785	90.116	90.098	89.411	91.0000
3.067	1.625	95.	92.761	91.091	91.008	90.392	92.0000
3.067	1.625	96.	93.737	92.066	91.918	91.373	93.0000
3.067	1.625	97.	94.713	93.041	92.828	92.354	94.0000

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P	D	N	PD	BD	OD	MHD	CD
3.067	1.250	98.	95.690	94.065	98.886	93.110	94.0650
3.067	1.250	99.	96.666	95.041	99.916	94.088	95.0235
3.067	1.250	100.	97.642	96.017	100.946	95.064	96.0170
3.075	1.250	7.	7.087	5.837	8.630	4.842	5.5844
3.075	1.250	8.	8.035	6.785	9.668	5.581	6.7858
3.075	1.250	9.	8.991	7.741	10.684	6.505	7.7458
3.075	1.250	10.	9.951	8.701	11.672	7.220	8.7010
3.075	1.250	11.	10.915	9.665	12.650	8.029	9.6659
3.075	1.250	12.	11.881	10.631	13.626	8.824	10.6310
3.075	1.250	13.	12.849	11.599	14.630	9.634	11.5990
3.075	1.250	14.	13.819	12.569	15.598	10.434	12.5690
3.075	1.250	15.	14.790	13.540	16.684	11.223	13.5400
3.075	1.250	16.	15.762	14.512	17.524	12.016	14.5120
3.075	1.250	17.	16.735	15.485	18.486	12.816	15.4850
3.075	1.250	18.	17.708	16.458	19.634	13.624	16.4580
3.075	1.250	19.	18.682	17.432	20.590	14.446	17.4320
3.075	1.250	20.	19.657	18.407	21.498	15.284	18.4070
3.075	1.250	21.	20.632	19.382	22.450	16.136	19.3820
3.075	1.250	22.	21.607	20.357	23.472	17.004	20.3570
3.075	1.250	23.	22.583	21.333	24.462	17.884	21.3330
3.075	1.250	24.	23.558	22.308	25.566	18.784	22.3080
3.075	1.250	25.	24.535	23.285	26.590	19.696	23.2850
3.075	1.250	26.	25.511	24.261	27.610	20.624	24.2610
3.075	1.250	27.	26.487	25.237	28.628	21.568	25.2370
3.075	1.250	28.	27.464	26.214	29.570	22.524	26.2140
3.075	1.250	29.	28.441	27.191	30.586	23.496	27.1910
3.075	1.250	30.	29.418	28.168	31.608	24.484	28.1680
3.075	1.250	31.	30.395	29.145	32.694	25.488	29.1450
3.075	1.250	32.	31.372	30.122	33.758	26.508	30.1220
3.075	1.250	33.	32.349	31.099	34.808	27.544	31.0990
3.075	1.250	34.	33.327	32.077	35.850	28.596	32.0770
3.075	1.250	35.	34.304	33.054	36.896	29.664	33.0540
3.075	1.250	36.	35.281	34.032	37.610	30.748	34.0320
3.075	1.250	37.	36.259	35.009	38.620	31.846	35.0090
3.075	1.250	38.	37.237	35.987	39.632	32.956	36.0200
3.075	1.250	39.	38.215	36.965	40.642	34.076	37.0400
3.075	1.250	40.	39.192	37.942	41.652	35.204	38.0700
3.075	1.250	41.	40.170	38.920	42.674	36.340	39.1000
3.075	1.250	42.	41.148	39.898	43.696	37.484	40.1300
3.075	1.250	43.	42.126	40.876	44.718	38.636	41.1600
3.075	1.250	44.	43.104	41.854	45.740	39.796	42.1900
3.075	1.250	45.	44.082	42.832	46.762	40.964	43.2200
3.075	1.250	46.	45.060	43.810	47.600	42.144	44.2500
3.075	1.250	47.	46.038	44.788	48.600	43.332	45.2800
3.075	1.250	48.	47.016	45.766	49.604	44.528	46.3100
3.075	1.250	49.	47.994	46.744	50.604	45.732	47.3400
3.075	1.250	50.	48.972	47.722	51.602	46.944	48.3700
3.075	1.250	51.	49.951	48.701	52.602	48.164	49.4000
3.075	1.250	52.	50.929	49.679	53.598	49.392	50.4300
3.075	1.250	53.	51.907	50.657	54.598	50.628	51.4600
3.075	1.250	54.	52.885	51.635	55.598	51.872	52.4900
3.075	1.250	55.	53.863	52.613	56.598	53.124	53.5200
3.075	1.250	56.	54.842	53.592	57.448	54.384	54.5500
3.075	1.250	57.	55.820	54.570	58.426	55.648	55.5800
3.075	1.250	58.	56.798	55.548	59.408	56.916	56.6100
3.075	1.250	59.	57.776	56.526	60.390	58.188	57.6400
3.075	1.250	60.	58.755	57.505	61.372	59.464	58.6700
3.075	1.250	61.	59.733	58.483	62.354	60.744	59.7000
3.075	1.250	62.	60.711	59.461	63.336	62.024	60.7300
3.075	1.250	63.	61.689	60.439	64.318	63.304	61.7600
3.075	1.250	64.	62.667	61.417	65.300	64.584	62.7900
3.075	1.250	65.	63.645	62.395	66.282	65.864	63.8200
3.075	1.250	66.	64.623	63.373	67.264	67.144	64.8500
3.075	1.250	67.	65.601	64.351	68.246	68.424	65.8800
3.075	1.250	68.	66.579	65.329	69.228	69.704	66.9100
3.075	1.250	69.	67.557	66.307	70.210	70.984	67.9400
3.075	1.250	70.	68.535	67.285	71.192	72.264	68.9700
3.075	1.250	71.	69.513	68.263	72.174	73.544	69.0000
3.075	1.250	72.	70.491	69.241	73.156	74.824	70.0300
3.075	1.250	73.	71.469	70.219	74.138	76.104	71.0600
3.075	1.250	74.	72.447	71.197	75.120	77.384	72.0900
3.075	1.250	75.	73.425	72.175	76.102	78.664	73.1200
3.075	1.250	76.	74.403	73.153	77.084	79.944	74.1500
3.075	1.250	77.	75.381	74.131	78.066	81.224	75.1800
3.075	1.250	78.	76.359	75.109	79.048	82.504	76.2100
3.075	1.250	79.	77.337	76.087	80.030	83.784	77.2400
3.075	1.250	80.	78.315	77.065	81.012	85.064	78.2700
3.075	1.250	81.	79.293	78.043	82.000	86.344	79.3000
3.075	1.250	82.	80.271	79.021	82.982	87.624	80.3300
3.075	1.250	83.	81.249	80.000	83.964	88.904	81.3600
3.075	1.250	84.	82.227	80.978	84.946	90.184	82.3900
3.075	1.250	85.	83.205	81.956	85.928	91.464	83.4200
3.075	1.250	86.	84.183	82.934	86.910	92.744	84.4500
3.075	1.250	87.	85.161	83.912	87.892	94.024	85.4800
3.075	1.250	88.	86.139	84.890	88.874	95.304	86.5100
3.075	1.250	89.	87.117	85.868	89.856	96.584	87.5400
3.075	1.250	90.	88.095	86.846	90.838	97.864	88.5700
3.075	1.250	91.	89.073	87.824	91.820	99.144	89.6000
3.075	1.250	92.	90.051	88.802	92.802	100.424	90.6300
3.075	1.250	93.	91.029	89.780	93.784	101.704	91.6600
3.075	1.250	94.	92.007	90.758	94.766	102.984	92.6900
3.075	1.250	95.	92.985	91.736	95.748	104.264	93.7200
3.075	1.250	96.	93.963	92.714	96.730	105.544	94.7500
3.075	1.250	97.	94.941	93.692	97.712	106.824	95.7800
3.075	1.250	98.	95.919	94.670	98.694	108.104	96.8100
3.075	1.250	99.	96.897	95.648	99.676	109.384	97.8400
3.075	1.250	100.	97.875	96.626	100.658	110.664	98.8700
3.075	1.250	101.	98.853	97.604	101.640	111.944	99.9000
3.075	1.250	102.	99.831	98.582	102.622	113.224	100.9300
3.075	1.250	103.	100.809	99.560	103.604	114.504	101.9600
3.075	1.250	104.	101.787	100.538	104.586	115.784	102.9900
3.075	1.250	105.	102.765	101.516	105.568	117.064	104.0200
3.075	1.250	106.	103.743	102.494	106.550	118.344	105.0500
3.075	1.250	107.	104.721	103.472	107.532	119.624	106.0800
3.075	1.250	108.	105.699	104.450	108.514	120.904	107.1100
3.075	1.250	109.	106.677	105.428	109.496	122.184	108.1400
3.075	1.250	110.	107.655	106.406	110.478	123.464	109.1700
3.075	1.250	111.	108.633	107.384	111.460	124.744	110.2000
3.075	1.250	112.	109.611	108.362	112.442	126.024	111.2300
3.075	1.250	113.	110.589	109.340	113.424	127.304	112.2600
3.075	1.250	114.	111.567	110.318	114.406	128.584	113.2900
3.075	1.250	115.	112.545	111.296	115.388	129.864	114.3200
3.075	1.250	116.	113.523	112.274	116.370	131.144	115.3500
3.075	1.250	117.	114.501	113.252	117.352	132.424	116.3800
3.075	1.250	118.	115.479	114.230	118.334	133.704	117.4100
3.075	1.250	119.	116.457	115.208	119.316	134.984	118.4400
3.075	1.250	120.	117.435	116.186	120.298	136.264	119.4700
3.075	1.250	121.	118.413	117.164	121.280	137.544	120.5000
3.075	1.250	122.	119.391	118.142	122.262	138.824	121.5300
3.075	1.250	123.	120.369	119.120	123.244	140.104	122.5600
3.075	1.250	124.	121.347	120.098	124.226	141.384	123.5900
3.075	1.250	125.	122.325	121.076	125.208	142.664	124.6200
3.075	1.250	126.	123.303	122.054	126.190	143.944	125.6500
3.075	1.250	127.	124.281	123.032	127.172	145.224	126.6800
3.075	1.250	128.	125.259	124.010	128.154	146.504	127.7100
3.075	1.250	129.	126.237	124.988	129.136	147.784	128.7400
3.075	1.250	130.	127.215	125.966	130.118	149.064	129.7700
3.075	1.250	131.	128.193	126.944	131.100	150.344	130.8000
3.075	1.250	132.	129.171	127.922	132.082	151.624	131.8300
3.075	1.250	133.	130.149	128.900	133.064	152.904	132.8600
3.075	1.250	134.	131.127	129.878	134.046	154.184	133.8900
3.075	1.250	135.	132.105	130.856	135.028	155.464	134.9200
3.075	1.250	136.	133.083	131.834	136.010	156.744	135.9500
3.075	1.250	137.	134.061	132.812	136.992	158.024	136.9800
3.075	1.250	138.	135.039	13			

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P	D	N	PD	BD	OD	MHD	CD
4.063	1.750	60.	66.876	65.126	68.628	64.234	65.1260
4.063	1.750	7.	9.364	7.614	11.574	6.107	7.2802
4.063	1.750	8.	10.617	8.867	12.690	7.480	8.8620
4.063	1.750	9.	11.879	10.129	14.024	8.833	9.8711
4.063	1.750	10.	13.168	11.398	15.370	10.174	11.3980
4.063	1.750	11.	14.421	12.671	16.658	11.506	12.4607
4.063	1.750	12.	15.698	13.948	17.986	12.835	13.9480
4.063	1.750	13.	16.978	15.228	19.264	14.155	15.0504
4.063	1.750	14.	18.259	16.509	20.540	15.472	16.5090
4.063	1.750	15.	19.542	17.792	21.814	16.784	17.6383
4.063	1.750	16.	20.826	19.076	23.084	18.097	19.0760
4.063	1.750	17.	22.112	20.362	24.486	19.405	20.2265
4.063	1.750	18.	23.398	21.648	25.712	20.713	21.6480
4.063	1.750	19.	24.685	22.935	27.106	22.017	22.8138
4.063	1.750	20.	25.973	24.223	28.464	23.322	24.2230
4.063	1.750	21.	27.261	25.511	29.584	24.626	25.4014
4.063	1.750	22.	28.549	26.799	30.934	25.930	26.7990
4.063	1.750	23.	29.838	28.088	32.424	27.230	27.9880
4.063	1.750	24.	31.128	29.378	33.676	28.530	29.3780
4.063	1.750	25.	32.418	30.668	35.024	29.830	30.5760
4.063	1.750	26.	33.708	31.958	36.372	31.131	31.9580
4.063	1.750	27.	34.998	33.248	37.720	32.431	33.1828
4.063	1.750	28.	36.288	34.538	38.816	33.731	34.5380
4.063	1.750	29.	37.579	35.829	40.156	35.027	35.7997
4.063	1.750	30.	38.870	37.120	41.498	36.327	37.1200
4.063	1.750	31.	40.161	38.411	42.838	37.623	38.3368
4.063	1.750	32.	41.452	39.702	44.130	38.923	39.7020
4.063	1.750	33.	42.743	40.993	45.360	40.220	40.9930
4.063	1.750	34.	44.036	42.285	46.898	41.516	42.2850
4.063	1.750	35.	45.326	43.576	48.234	42.812	43.5760
4.063	1.750	36.	46.618	44.868	49.572	44.112	44.8680
4.063	1.750	37.	47.909	46.159	50.904	45.408	46.1590
4.063	1.750	38.	49.201	47.451	52.240	46.704	47.4510
4.063	1.750	39.	50.493	48.743	53.574	48.000	48.6841
4.063	1.750	40.	51.785	50.035	54.906	49.296	50.0350
4.063	1.750	41.	53.077	51.327	56.110	50.592	51.2709
4.063	1.750	42.	54.369	52.619	57.438	51.889	52.6190
4.063	1.750	43.	55.661	53.911	58.766	53.181	53.8375
4.063	1.750	44.	56.953	55.203	60.092	54.477	55.2030
4.063	1.750	45.	58.245	56.495	61.416	55.773	56.4439
4.063	1.750	46.	59.538	57.788	62.740	57.069	57.7880
4.063	1.750	47.	60.830	59.080	64.062	58.365	59.0311
4.063	1.750	48.	62.122	60.372	65.380	59.661	60.3720
4.063	1.750	49.	63.415	61.665	66.698	60.953	61.6181
4.063	1.750	50.	64.707	62.957	68.014	62.249	62.9570
4.063	1.750	51.	66.000	64.250	69.332	63.545	64.2049
4.063	1.750	52.	67.292	65.542	70.646	64.837	65.5620
4.063	1.750	53.	68.585	66.835	71.958	66.133	66.7916
4.063	1.750	54.	69.877	68.127	73.269	67.429	68.1270
4.063	1.750	55.	71.170	69.420	74.594	68.726	69.3782
4.063	1.750	56.	72.462	70.712	75.904	70.014	70.7120
4.063	1.750	57.	73.755	72.005	76.988	71.314	71.9647
4.063	1.750	58.	75.048	73.298	78.282	72.606	73.2980
4.063	1.750	59.	76.340	74.590	79.575	73.902	74.5910
4.063	1.750	60.	77.633	75.883	80.852	75.198	75.8830
P	D	N	PD	BD	OD	MHD	CD
4.073	1.781	7.	9.387	7.606	11.374	5.752	7.2714
4.073	1.781	8.	10.643	8.862	12.726	7.129	8.8620
4.073	1.781	9.	11.909	10.128	14.084	8.485	9.8695
4.073	1.781	10.	13.181	11.400	15.386	9.829	11.4000
4.073	1.781	11.	14.457	12.676	16.674	11.165	12.4652
4.073	1.781	12.	15.737	13.956	17.970	12.497	13.9560
4.073	1.781	13.	17.019	15.238	19.252	13.821	15.0600
4.073	1.781	14.	18.304	16.523	20.568	15.140	16.5230
4.073	1.781	15.	19.590	17.809	21.844	16.456	17.6549
4.073	1.781	16.	20.878	19.097	23.114	17.771	19.0970
4.073	1.781	17.	22.166	20.385	24.388	19.083	20.2491
4.073	1.781	18.	23.455	21.674	25.682	20.394	21.6740
4.073	1.781	19.	24.746	22.965	27.014	21.702	22.8435
4.073	1.781	20.	26.036	24.255	28.372	23.009	24.2550
4.073	1.781	21.	27.328	25.547	29.768	24.317	25.4371
4.073	1.781	22.	28.620	26.839	31.126	25.624	26.8390
4.073	1.781	23.	29.912	28.131	32.482	26.927	28.0307
4.073	1.781	24.	31.204	29.423	33.852	28.231	29.4230
4.073	1.781	25.	32.497	30.716	35.240	29.534	30.6238
4.073	1.781	26.	33.791	32.010	36.648	30.838	32.0100
4.073	1.781	27.	35.084	33.303	37.982	32.141	33.2176
4.073	1.781	28.	36.378	34.597	39.302	33.444	34.5970
4.073	1.781	29.	37.671	35.890	40.674	34.744	35.8105
4.073	1.781	30.	38.965	37.184	42.070	36.047	37.1840
4.073	1.781	31.	40.260	38.479	43.466	37.346	38.4046
4.073	1.781	32.	41.554	39.773	44.840	38.650	39.7730
4.073	1.781	33.	42.848	41.067	46.236	39.949	40.9972
4.073	1.781	34.	44.143	42.362	47.638	41.248	42.3620
4.073	1.781	35.	45.438	43.657	49.038	42.547	43.6571
4.073	1.781	36.	46.732	44.951	50.438	43.851	44.9510
4.073	1.781	37.	48.027	46.246	51.836	45.150	46.2460
4.073	1.781	38.	49.322	47.541	53.232	46.449	47.5410
4.073	1.781	39.	50.617	48.836	54.624	47.749	48.8360
4.073	1.781	40.	51.912	50.131	56.024	49.048	50.1310
4.073	1.781	41.	53.208	51.427	57.424	50.347	51.4270
4.073	1.781	42.	54.503	52.722	58.824	51.646	52.7220
4.073	1.781	43.	55.798	54.017	60.224	52.942	54.0170
4.073	1.781	44.	57.093	55.312	61.624	54.241	55.3120
4.073	1.781	45.	58.389	56.608	63.024	55.540	56.6080
4.073	1.781	46.	59.684	57.903	64.424	56.840	57.9030
4.073	1.781	47.	60.980	59.199	65.824	58.139	59.1990
4.073	1.781	48.	62.275	60.494	67.224	59.438	60.4940
4.073	1.781	49.	63.571	61.790	68.624	60.733	61.7900
4.073	1.781	50.	64.866	63.085	69.992	62.033	63.0850
4.073	1.781	51.	66.162	64.381	71.392	63.332	64.3810
4.073	1.781	52.	67.458	65.677	72.792	64.627	65.6770
4.073	1.781	53.	68.753	66.972	74.192	65.926	66.9720
4.073	1.781	54.	70.049	68.268	75.592	67.226	68.2680
4.073	1.781	55.	71.345	69.564	76.992	68.525	69.5640
4.073	1.781	56.	72.641	70.860	78.392	69.825	70.8600
4.073	1.781	57.	73.937	72.156	79.792	71.119	72.1560
4.073	1.781	58.	75.233	73.451	81.192	72.415	73.4510
4.073	1.781	59.	76.528	74.747	82.592	73.714	74.7470
4.073	1.781	60.	77.824	76.043	83.992	75.013	76.0430
4.500	2.250	7.	10.371	8.121	12.300	5.992	7.7513

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P	D	N	PD	BD	OD	MHD	CD
4.500	2.250	8.	11.759	9.509	13.796	7.513	9.5090
4.500	2.250	9.	13.157	10.907	15.266	9.012	10.6214
4.500	2.250	10.	14.562	12.312	16.736	10.497	12.3120
4.500	2.250	11.	15.973	13.723	18.156	11.973	13.9501
4.500	2.250	12.	17.387	15.137	19.578	13.444	15.4440
4.500	2.250	13.	18.804	16.554	21.032	14.907	16.9573
4.500	2.250	14.	20.223	17.973	22.440	16.365	18.4730
4.500	2.250	15.	21.644	19.394	23.850	17.818	19.9927
4.500	2.250	16.	23.066	20.816	25.268	19.272	21.5160
4.500	2.250	17.	24.490	22.240	26.646	20.721	22.0899
4.500	2.250	18.	25.914	23.664	28.144	22.170	23.6640
4.500	2.250	19.	27.340	25.090	29.688	23.614	24.9558
4.500	2.250	20.	28.766	26.516	31.036	25.059	26.5160
4.500	2.250	21.	30.193	27.943	32.418	26.503	27.8216
4.500	2.250	22.	31.620	29.370	33.914	27.948	29.3700
4.500	2.250	23.	33.046	30.798	35.564	29.388	30.8872
4.500	2.250	24.	34.476	32.226	36.936	30.826	32.2260
4.500	2.250	25.	35.904	33.654	38.426	32.268	33.5521
4.500	2.250	26.	37.333	35.083	39.758	33.708	35.0830
4.500	2.250	27.	38.762	36.512	41.264	35.148	36.4176
4.500	2.250	28.	40.191	37.941	42.604	36.588	37.9410
4.500	2.250	29.	41.621	39.371	44.248	38.023	39.2832
4.500	2.250	30.	43.050	40.800	45.730	39.463	40.8000
4.500	2.250	31.	44.480	42.230	47.210	40.893	42.1478
4.500	2.250	32.	45.910	43.660	48.688	42.339	43.6600
4.500	2.250	33.	47.340	45.090	50.004	43.774	45.0128
4.500	2.250	34.	48.771	46.521	51.520	45.210	46.5210
4.500	2.250	35.	50.201	47.951	52.992	46.645	47.9782
4.500	2.250	36.	51.632	49.382	54.464	48.085	49.3820
4.500	2.250	37.	53.062	50.812	55.936	49.521	50.7432
4.500	2.250	38.	54.493	52.243	57.406	50.956	52.2430
4.500	2.250	39.	55.924	53.674	58.876	52.392	53.6087
4.500	2.250	40.	57.355	55.105	60.338	53.827	55.1050
4.500	2.250	41.	58.786	56.536	61.660	55.263	56.4739
4.500	2.250	42.	60.217	57.967	63.122	56.698	57.9670
4.500	2.250	43.	61.648	59.398	64.580	58.129	59.3388
4.500	2.250	44.	63.079	60.829	65.824	59.565	60.8290
4.500	2.250	45.	64.510	62.260	67.276	61.000	62.2034
4.500	2.250	46.	65.941	63.691	68.722	62.436	63.6910
4.500	2.250	47.	67.373	65.123	70.166	63.871	65.0688
4.500	2.250	48.	68.804	66.554	71.606	65.307	66.5340
4.500	2.250	49.	70.235	67.985	73.046	66.738	67.9331
4.500	2.250	50.	71.667	69.417	74.480	68.173	69.4170
4.500	2.250	51.	73.098	70.848	76.158	69.609	70.7981
4.500	2.250	52.	74.530	72.280	77.592	71.040	72.2800
4.500	2.250	53.	75.961	73.711	78.832	72.475	73.6630
4.500	2.250	54.	77.393	75.143	80.250	73.911	75.1430
4.500	2.250	55.	78.825	76.575	81.658	75.346	76.5287
4.500	2.250	56.	80.256	78.006	83.062	76.777	78.0060
4.500	2.250	57.	81.688	79.438	84.468	78.213	79.3933
4.500	2.250	58.	83.120	80.870	85.828	79.644	80.8700
4.500	2.250	59.	84.551	82.301	87.186	81.079	82.2579
4.500	2.250	60.	85.983	83.733	88.510	82.515	83.7330
4.500	2.250	7.	11.524	9.824	13.592	6.505	8.6132
4.500	2.250	8.	13.056	10.566	15.346	8.195	10.5660
4.500	2.250	9.	14.588	12.098	17.098	9.885	12.0980
4.500	2.250	10.	16.120	13.630	18.850	11.575	13.6300
4.500	2.250	11.	17.652	15.162	20.602	13.265	15.1620
4.500	2.250	12.	19.184	16.694	22.354	14.955	16.6940
4.500	2.250	13.	20.716	18.226	24.106	16.645	18.2260
4.500	2.250	14.	22.248	19.758	25.858	18.335	19.7580
4.500	2.250	15.	23.780	21.290	27.610	20.025	21.2900
4.500	2.250	16.	25.312	22.822	29.362	21.715	22.8220
4.500	2.250	17.	26.844	24.354	31.114	23.405	24.3540
4.500	2.250	18.	28.376	25.886	32.866	25.095	25.8860
4.500	2.250	19.	29.908	27.418	34.618	26.785	27.4180
4.500	2.250	20.	31.440	28.950	36.370	28.475	28.9500
4.500	2.250	21.	32.972	30.482	38.122	30.165	30.4820
4.500	2.250	22.	34.504	32.014	39.874	31.855	32.0140
4.500	2.250	23.	36.036	33.546	41.626	33.545	33.5460
4.500	2.250	24.	37.568	35.078	43.378	35.235	35.0780
4.500	2.250	25.	39.100	36.610	45.130	36.925	36.6100
4.500	2.250	26.	40.632	38.142	46.882	38.615	38.1420
4.500	2.250	27.	42.164	39.674	48.634	40.305	39.6740
4.500	2.250	28.	43.696	41.206	50.386	41.995	41.2060
4.500	2.250	29.	45.228	42.738	52.138	43.685	42.7380
4.500	2.250	30.	46.760	44.270	53.890	45.375	44.2700
4.500	2.250	31.	48.292	45.802	55.642	47.065	45.8020
4.500	2.250	32.	49.824	47.334	57.394	48.755	47.3340
4.500	2.250	33.	51.356	48.866	59.146	50.445	48.8660
4.500	2.250	34.	52.888	50.398	60.898	52.135	50.3980
4.500	2.250	35.	54.420	51.930	62.650	53.825	51.9300
4.500	2.250	36.	55.952	53.462	64.402	55.515	53.4620
4.500	2.250	37.	57.484	54.994	66.154	57.205	54.9940
4.500	2.250	38.	59.016	56.526	67.906	58.895	56.5260
4.500	2.250	39.	60.548	58.058	69.658	60.585	58.0580
4.500	2.250	40.	62.080	59.590	71.410	62.275	59.5900
4.500	2.250	41.	63.612	61.122	73.162	63.965	61.1220
4.500	2.250	42.	65.144	62.654	74.914	65.655	62.6540
4.500	2.250	43.	66.676	64.186	76.666	67.345	64.1860
4.500	2.250	44.	68.208	65.718	78.418	69.035	65.7180
4.500	2.250	45.	69.740	67.250	80.170	70.725	67.2500
4.500	2.250	46.	71.272	68.782	81.922	72.415	68.7820
4.500	2.250	47.	72.804	70.314	83.674	74.105	70.3140
4.500	2.250	48.	74.336	71.846	85.426	75.795	71.8460
4.500	2.250	49.	75.868	73.378	87.178	77.485	73.3780
4.500	2.250	50.	77.400	74.910	88.930	79.175	74.9100
4.500	2.250	51.	78.932	76.442	90.682	80.865	76.4420
4.500	2.250	52.	80.464	77.974	92.434	82.555	77.9740
4.500	2.250	53.	81.996	79.506	94.186	84.245	79.5060
4.500	2.250	54.	83.528	81.038	95.938	85.935	81.0380
4.500	2.250	55.	85.060	82.570	97.690	87.625	82.5700
4.500	2.250	56.	86.592	84.102	99.442	89.315	84.1020
4.500	2.250	57.	88.124	85.634	101.194	91.005	85.6340
4.500	2.250	58.	89.656	87.166	102.946	92.695	87.1660
4.500	2.250	59.	91.188	88.698	104.698	94.385	88.6980
4.500	2.250	60.	92.720	90.230	106.450	96.075	90.2300
4.500	2.250	61.	94.252	91.762	108.202	97.765	91.7620
4.500	2.250	62.	95.784	93.294	109.954	99.455	93.2940
4.500	2.250	63.	97.316	94.826	111.706	101.145	94.8260
4.500	2.250	64.	98.848	96.358	113.458	102.835	96.3580
4.500	2.250	65.	100.380	97.890	115.210	104.525	97.8900
4.500	2.250	66.	101.912	99.422	116.962	106.215	99.4220
4.500	2.250	67.	103.444	100.954	118.714	107.905	100.9540
4.500	2.250	68.	104.976	102.486	120.466	109.595	102.4860
4.500	2.250	69.	106.508	104.018	122.218	111.285	104.0180
4.500	2.250	70.	108.040	105.550	123.970	112.975	105.5500
4.500	2.250	71.	109.572	107.082	125.722	114.665	107.0820
4.500	2.250	72.	111.104	108.614	127.474	116.355	108.6140
4.500	2.250	73.	112.636	110.146	129.226	118.045	110.1460
4.500	2.250	74.	114.168	111.678	130.978	119.735	111.6780
4.500	2.250	75.	115.700	113.210	132.730	121.425	113.2100
4.500	2.250	76.	117.232	114.742	134.482	123.115	114.7420
4.500	2.250	77.	118.764	116.274	136.234	124.805	116.2740
4.500	2.250	78.	120.296	117.806	137.986	126.495	117.8060
4.500	2.250	79.	121.828	119.338	139.738	128.185	119.3380
4.500	2.250	80.	123.360	120.870	141.490	129.875	120.8700
4.500	2.250	81.	124.892	122.402	143.242	131.565	122.4020
4.500	2.250	82.	126.424	123.934	144.994	133.255	123.9340
4.500	2.250	83.	127.956	125.466	146.746	134.945	125.4660
4.500	2.250	84.	129.488	126.998	148.498	136.635	126.9980
4.500	2.250	85.	131.020	128.530	150.250	138.325	128.5300
4.500	2.250	86.	132.552	130.062	151.952	140.015	130.0620
4.500	2.250	87.	134.084	131.594	153.704	141.705	131.5940
4.500	2.250	88.	135.616	133.126	155.456	143.395	133.1260
4.500	2.250	89.	13				



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P	D	N	PD	BD	OD	MHD	CD
6.000	3.000	10.	19.416	16.416	22.316	14.037	16.416
6.000	3.000	11.	21.297	18.297	24.240	16.003	17.9865
6.000	3.000	12.	23.182	20.182	26.134	17.967	20.1820
6.000	3.000	13.	25.071	22.071	28.016	19.917	22.0888
6.000	3.000	14.	26.964	23.964	29.960	21.861	23.9640
6.000	3.000	15.	28.858	25.858	31.832	23.799	25.8310
6.000	3.000	16.	30.755	27.755	33.702	25.737	27.7520
6.000	3.000	17.	32.653	29.653	35.582	27.669	29.6529
6.000	3.000	18.	34.553	31.553	37.462	29.601	31.5530
6.000	3.000	19.	36.453	33.453	39.342	31.527	33.4520
6.000	3.000	20.	38.355	35.355	41.218	33.453	35.3550
6.000	3.000	21.	40.257	37.257	43.096	35.379	37.2570
6.000	3.000	22.	42.160	39.160	44.974	37.305	39.1600
6.000	3.000	23.	44.064	41.064	46.852	39.225	41.0630
6.000	3.000	24.	45.968	42.968	48.730	41.145	42.9680
6.000	3.000	25.	47.872	44.872	50.608	43.065	44.8710
6.000	3.000	26.	49.777	46.777	52.486	44.985	46.7770
6.000	3.000	27.	51.683	48.683	54.364	46.905	48.6820
6.000	3.000	28.	53.588	50.588	56.242	48.825	50.5880
6.000	3.000	29.	55.494	52.494	58.120	50.745	52.4940
6.000	3.000	30.	57.401	54.401	60.000	52.665	54.4010
6.000	3.000	31.	59.307	56.307	61.876	54.573	56.3070
6.000	3.000	32.	61.214	58.214	63.752	56.493	58.2140
6.000	3.000	33.	63.121	60.121	65.628	58.407	60.1210
6.000	3.000	34.	65.028	62.028	67.504	60.321	62.0280
6.000	3.000	35.	66.935	63.935	69.380	62.235	63.9350
6.000	3.000	36.	68.842	65.842	71.256	64.155	65.8420
6.000	3.000	37.	70.750	67.750	73.132	66.069	67.7500
6.000	3.000	38.	72.657	69.657	75.008	67.983	69.6570
6.000	3.000	39.	74.565	71.565	76.884	69.897	71.5650
6.000	3.000	40.	76.473	73.473	78.760	71.811	73.4730
6.000	3.000	41.	78.381	75.381	80.636	73.725	75.3810
6.000	3.000	42.	80.289	77.289	82.512	75.639	77.2890
6.000	3.000	43.	82.197	79.197	84.388	77.547	79.1970
6.000	3.000	44.	84.105	81.105	86.264	79.461	81.1050
6.000	3.000	45.	86.014	83.014	88.140	81.375	83.0140
6.000	3.000	46.	87.922	84.922	90.016	83.289	84.9220
6.000	3.000	47.	89.830	86.830	91.892	85.203	86.8300
6.000	3.000	48.	91.739	88.739	93.768	87.117	88.7390
6.000	3.000	49.	93.647	90.647	95.644	89.031	90.6470
6.000	3.000	50.	95.556	92.556	97.520	90.945	92.5560
6.000	3.000	51.	97.464	94.464	99.396	92.859	94.4640
6.000	3.000	52.	99.373	96.373	101.272	94.773	96.3730
6.000	3.000	53.	101.282	98.282	103.148	96.687	98.2820
6.000	3.000	54.	103.191	100.191	105.024	98.601	100.1910
6.000	3.000	55.	105.099	102.099	106.900	100.515	102.0990
6.000	3.000	56.	107.008	104.008	108.776	102.429	104.0080
6.000	3.000	57.	108.917	105.917	110.652	104.343	105.9170
6.000	3.000	58.	110.826	107.826	112.528	106.257	107.8260
6.000	3.000	59.	112.735	109.735	114.404	108.171	109.7350
6.000	3.000	60.	114.644	111.644	116.280	110.085	111.6440
7.000	3.500	7.	16.133	12.633	19.170	8.932	12.0579
7.000	3.500	8.	18.292	14.792	21.486	11.298	14.7920
7.000	3.500	9.	20.457	16.957	23.776	13.659	16.9570
7.000	3.500	10.	22.622	19.122	26.010	15.999	19.1220



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P	D	N	PD	BD	OD	MHD	CD
1.500	.875	7.	3.457	2.582	3.960	1.601	2.4588
1.500	.875	8.	3.920	3.045	4.478	2.108	3.0450
1.500	.875	9.	4.386	3.511	4.960	2.608	3.6158
1.500	.875	10.	4.854	3.979	5.440	3.103	3.9790
1.500	.875	11.	5.324	4.449	5.986	3.555	4.3714
1.500	.875	12.	5.796	4.921	6.476	4.055	4.9210
1.500	.875	13.	6.268	5.393	6.922	4.573	5.3224
1.500	.875	14.	6.741	5.866	7.390	5.053	5.8660
1.500	.875	15.	7.215	6.340	7.778	5.543	6.2832
1.500	.875	16.	7.689	6.814	8.246	6.028	6.8140
1.500	.875	17.	8.163	7.288	8.712	6.511	7.2380
1.500	.875	18.	8.638	7.763	9.288	6.994	7.7630
1.500	.875	19.	9.113	8.238	9.750	7.475	8.1933
1.500	.875	20.	9.589	8.714	10.248	7.957	8.7140
1.500	.875	21.	10.064	9.189	10.700	8.438	9.1885
1.500	.875	22.	10.540	9.665	11.198	8.920	9.6650
1.500	.875	23.	11.016	10.141	11.694	9.400	10.1401
1.500	.875	24.	11.492	10.617	12.150	9.880	10.6170
1.500	.875	25.	11.968	11.093	12.644	10.360	11.0930
1.500	.875	26.	12.444	11.569	13.154	10.840	11.5690
1.500	.875	27.	12.921	12.046	13.648	11.320	12.0465
1.500	.875	28.	13.397	12.522	14.100	11.800	12.5220
1.500	.875	29.	13.874	12.999	14.570	12.278	12.9997
1.500	.875	30.	14.350	13.475	15.062	12.758	13.4750
1.500	.875	31.	14.827	13.952	15.550	13.237	13.9524
1.500	.875	32.	15.303	14.428	16.038	13.717	14.4280
1.500	.875	33.	15.780	14.905	16.494	14.195	14.8993
1.500	.875	34.	16.257	15.382	16.980	14.674	15.3820
1.500	.875	35.	16.734	15.859	17.468	15.154	15.8597
1.500	.875	36.	17.211	16.336	17.954	15.632	16.3360
1.500	.875	37.	17.687	16.812	18.440	16.111	16.7891
1.500	.875	38.	18.164	17.289	18.924	16.589	17.2890
1.500	.875	39.	18.641	17.766	19.408	17.068	17.7662
1.500	.875	40.	19.118	18.243	19.890	17.546	18.2430
1.500	.875	41.	19.595	18.720	20.326	18.025	18.6993
1.500	.875	42.	20.072	19.197	20.804	18.503	19.1970
1.500	.875	43.	20.549	19.674	21.286	18.980	19.6543
1.500	.875	44.	21.026	20.151	21.762	19.459	20.1310
1.500	.875	45.	21.503	20.628	22.236	19.937	20.6091
1.500	.875	46.	21.980	21.105	22.712	20.416	21.1050
1.500	.875	47.	22.458	21.583	23.184	20.894	21.5849
1.500	.875	48.	22.935	22.060	23.654	21.373	22.0600
1.500	.875	49.	23.412	22.537	24.122	21.850	22.5197
1.500	.875	50.	23.889	23.014	24.580	22.328	23.0140
1.500	.875	51.	24.366	23.491	25.040	22.807	23.4744
1.500	.875	52.	24.843	23.968	25.494	23.284	23.9680
1.500	.875	53.	25.320	24.445	25.926	23.762	24.4290
1.500	.875	54.	25.798	24.923	26.128	24.241	24.9230
1.500	.875	55.	26.275	25.400	26.632	24.719	25.3846
1.500	.875	56.	26.752	25.877	27.138	25.196	25.8770
1.500	.875	57.	27.229	26.354	27.640	25.675	26.3391
1.500	.875	58.	27.707	26.832	28.146	26.152	26.8320
1.500	.875	59.	28.184	27.309	28.652	26.630	27.2946
1.500	.875	60.	28.661	27.786	29.154	27.109	27.7860
1.500	.875	7.	3.812	2.937	4.500	2.426	2.8011
1.654	.875	8.	4.322	3.447	5.038	2.785	3.4470
1.654	.875	9.	4.836	3.961	5.566	3.233	3.9610
1.654	.875	10.	5.351	4.477	6.090	3.682	4.4770
1.654	.875	11.	5.871	4.996	6.614	4.130	4.9960
1.654	.875	12.	6.391	5.516	7.138	4.579	5.5160
1.654	.875	13.	6.911	6.036	7.662	5.028	6.0360
1.654	.875	14.	7.433	6.558	8.186	5.477	6.5580
1.654	.875	15.	7.955	7.080	8.710	5.926	7.0800
1.654	.875	16.	8.478	7.603	9.234	6.375	7.6030
1.654	.875	17.	9.001	8.126	9.758	6.824	8.1260
1.654	.875	18.	9.525	8.650	10.282	7.273	8.6500
1.654	.875	19.	10.049	9.174	10.806	7.722	9.1740
1.654	.875	20.	10.573	9.698	11.330	8.171	9.6980
1.654	.875	21.	11.098	10.223	11.854	8.620	10.2230
1.654	.875	22.	11.622	10.747	12.378	9.069	10.7470
1.654	.875	23.	12.147	11.272	12.902	9.518	11.2720
1.654	.875	24.	12.671	11.797	13.426	9.967	11.7970
1.654	.875	25.	13.196	12.322	13.950	10.416	12.3220
1.654	.875	26.	13.720	12.847	14.474	10.865	12.8470
1.654	.875	27.	14.245	13.372	15.000	11.314	13.3720
1.654	.875	28.	14.769	13.896	15.524	11.763	13.8960
1.654	.875	29.	15.294	14.421	16.048	12.212	14.4210
1.654	.875	30.	15.818	14.945	16.572	12.661	14.9450
1.654	.875	31.	16.343	15.470	17.096	13.110	15.4700
1.654	.875	32.	16.867	16.000	17.620	13.559	16.0000
1.654	.875	33.	17.400	16.525	18.144	14.008	16.5250
1.654	.875	34.	17.926	17.051	18.668	14.457	17.0510
1.654	.875	35.	18.452	17.577	19.192	14.906	17.5770
1.654	.875	36.	18.978	18.103	19.716	15.355	18.1030
1.654	.875	37.	19.503	18.628	20.240	15.804	18.6280
1.654	.875	38.	20.029	19.154	20.764	16.253	19.1540
1.654	.875	39.	20.555	19.680	21.288	16.702	19.6800
1.654	.875	40.	21.081	20.206	21.812	17.151	20.2060
1.654	.875	41.	21.607	20.732	22.336	17.600	20.7320
1.654	.875	42.	22.133	21.258	22.860	18.049	21.2580
1.654	.875	43.	22.659	21.784	23.384	18.498	21.7840
1.654	.875	44.	23.185	22.310	23.908	18.947	22.3100
1.654	.875	45.	23.711	22.836	24.432	19.396	22.8360
1.654	.875	46.	24.237	23.362	24.956	19.845	23.3620
1.654	.875	47.	24.763	23.888	25.480	20.294	23.8880
1.654	.875	48.	25.289	24.414	26.004	20.743	24.4140
1.654	.875	49.	25.815	24.940	26.528	21.192	24.9400
1.654	.875	50.	26.342	25.467	27.052	21.641	25.4670
1.654	.875	51.	26.868	25.993	27.576	22.090	25.9930
1.654	.875	52.	27.394	26.519	28.100	22.539	26.5190
1.654	.875	53.	27.920	27.045	28.624	22.988	27.0450
1.654	.875	54.	28.446	27.571	29.148	23.437	27.5710
1.654	.875	55.	28.972	28.097	29.672	23.886	28.0970
1.654	.875	56.	29.499	28.624	30.196	24.335	28.6240
1.654	.875	57.	30.025	29.150	30.720	24.784	29.1500
1.654	.875	58.	30.551	29.676	31.244	25.233	29.6760
1.654	.875	59.	31.077	30.202	31.768	25.682	30.2020
1.654	.875	60.	31.604	30.729	32.292	26.131	30.7290
1.750	1.000	7.	4.033	3.033	4.654	2.454	2.8892
1.750	1.000	8.	4.573	3.573	5.224	2.924	3.4592

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P	D	N	PD	BD	OD	MHD	CD
1.750	1.000	9.	5.117	4.117	5.818	3.095	4.0059
1.750	1.000	10.	5.663	4.663	6.368	3.672	4.6630
1.750	1.000	11.	6.212	5.212	7.004	4.246	5.2124
1.750	1.000	12.	6.761	5.761	7.666	4.819	5.7610
1.750	1.000	13.	7.313	6.313	8.104	5.387	6.3135
1.750	1.000	14.	7.864	6.864	8.566	5.954	6.8640
1.750	1.000	15.	8.417	7.417	9.104	6.520	7.4170
1.750	1.000	16.	8.970	7.970	9.730	7.085	7.9700
1.750	1.000	17.	9.524	8.524	10.278	7.648	8.5240
1.750	1.000	18.	10.078	9.078	10.860	8.212	9.0780
1.750	1.000	19.	10.632	9.632	11.396	8.774	9.5798
1.750	1.000	20.	11.187	10.187	11.890	9.335	10.1870
1.750	1.000	21.	11.742	10.742	12.428	9.897	10.6948
1.750	1.000	22.	12.297	11.297	13.004	10.459	11.2970
1.750	1.000	23.	12.852	11.852	13.670	11.019	11.8089
1.750	1.000	24.	13.407	12.407	14.204	11.579	12.4070
1.750	1.000	25.	13.963	12.963	14.780	12.139	12.9630
1.750	1.000	26.	14.518	13.518	15.356	12.699	13.5180
1.750	1.000	27.	15.074	14.074	15.934	13.259	14.0740
1.750	1.000	28.	15.630	14.630	16.460	13.819	14.6300
1.750	1.000	29.	16.186	15.186	17.036	14.377	15.1860
1.750	1.000	30.	16.742	15.742	17.606	14.937	15.7420
1.750	1.000	31.	17.298	16.298	18.178	15.495	16.2980
1.750	1.000	32.	17.854	16.854	18.750	16.055	16.8540
1.750	1.000	33.	18.410	17.410	19.322	16.614	17.4100
1.750	1.000	34.	18.966	17.966	19.894	17.172	17.9660
1.750	1.000	35.	19.523	18.523	20.440	17.730	18.5230
1.750	1.000	36.	20.079	19.079	20.978	18.290	19.0790
1.750	1.000	37.	20.635	19.635	21.544	18.848	19.6350
1.750	1.000	38.	21.192	20.192	22.116	19.407	20.1920
1.750	1.000	39.	21.748	20.748	22.680	19.965	20.7480
1.750	1.000	40.	22.305	21.305	23.244	20.523	21.3050
1.750	1.000	41.	22.861	21.861	23.748	21.081	21.8610
1.750	1.000	42.	23.418	22.418	24.312	21.640	22.4180
1.750	1.000	43.	23.974	22.974	24.876	22.196	22.9740
1.750	1.000	44.	24.531	23.531	25.432	22.754	23.5310
1.750	1.000	45.	25.087	24.087	25.988	23.313	24.0870
1.750	1.000	46.	25.644	24.644	26.542	23.871	24.6440
1.750	1.000	47.	26.200	25.200	27.098	24.429	25.2000
1.750	1.000	48.	26.757	25.757	27.656	24.987	25.7570
1.750	1.000	49.	27.314	26.314	28.198	25.544	26.3140
1.750	1.000	50.	27.870	26.870	28.742	26.102	26.8700
1.750	1.000	51.	28.427	27.427	29.278	26.660	27.4270
1.750	1.000	52.	28.984	27.984	29.818	27.217	27.9840
1.750	1.000	53.	29.541	28.541	30.368	27.775	28.5410
1.750	1.000	54.	30.097	29.097	30.940	28.333	29.0970
1.750	1.000	55.	30.654	29.654	31.164	28.892	29.6540
1.750	1.000	56.	31.211	30.211	31.668	29.448	30.2110
1.750	1.000	57.	31.767	30.767	32.256	30.006	30.7670
1.750	1.000	58.	32.324	31.324	32.846	30.563	31.3240
1.750	1.000	59.	32.881	31.881	33.436	31.121	31.8810
1.750	1.000	60.	33.438	32.438	34.026	31.679	32.4380
2.000	1.125	7.	4.610	3.610	5.356	2.302	3.3207
2.000	1.125	8.	5.226	4.101	6.044	2.978	4.1010
2.000	1.125	9.	5.848	4.723	6.674	3.644	4.5961
P	D	N	PD	BD	OD	MHD	CD
2.000	1.125	10.	6.472	5.347	7.312	4.304	5.3470
2.000	1.125	11.	7.099	5.974	7.936	4.960	5.9740
2.000	1.125	12.	7.727	6.602	8.568	5.614	6.6020
2.000	1.125	13.	8.357	7.232	9.190	6.264	7.2320
2.000	1.125	14.	8.988	7.863	9.814	6.912	7.8630
2.000	1.125	15.	9.619	8.494	10.440	7.558	8.4940
2.000	1.125	16.	10.252	9.127	11.064	8.204	9.1270
2.000	1.125	17.	10.884	9.759	11.684	8.848	9.7590
2.000	1.125	18.	11.518	10.393	12.348	9.492	10.3930
2.000	1.125	19.	12.151	11.026	12.964	10.134	11.0260
2.000	1.125	20.	12.785	11.660	13.578	10.776	11.6600
2.000	1.125	21.	13.419	12.294	14.194	11.418	12.2940
2.000	1.125	22.	14.053	12.928	14.816	12.060	12.9280
2.000	1.125	23.	14.688	13.563	15.436	12.700	13.5630
2.000	1.125	24.	15.323	14.198	16.060	13.340	14.1980
2.000	1.125	25.	15.957	14.832	16.688	13.980	14.8320
2.000	1.125	26.	16.592	15.467	17.318	14.620	15.4670
2.000	1.125	27.	17.228	16.103	17.952	15.260	16.1030
2.000	1.125	28.	17.863	16.738	18.584	15.900	16.7380
2.000	1.125	29.	18.498	17.373	19.218	16.538	17.3730
2.000	1.125	30.	19.134	18.009	19.854	17.178	18.0090
2.000	1.125	31.	19.769	18.644	20.490	17.816	18.6440
2.000	1.125	32.	20.405	19.280	21.126	18.456	19.2800
2.000	1.125	33.	21.040	19.915	21.766	19.094	19.9150
2.000	1.125	34.	21.676	20.551	22.406	19.732	20.5510
2.000	1.125	35.	22.312	21.187	23.046	20.370	21.1870
2.000	1.125	36.	22.947	21.822	23.686	21.008	21.8220
2.000	1.125	37.	23.583	22.458	24.326	21.646	22.4580
2.000	1.125	38.	24.219	23.094	24.966	22.284	23.0940
2.000	1.125	39.	24.855	23.730	25.606	22.922	23.7300
2.000	1.125	40.	25.491	24.366	26.246	23.560	24.3660
2.000	1.125	41.	26.127	25.002	26.886	24.198	25.0020
2.000	1.125	42.	26.763	25.638	27.526	24.836	25.6380
2.000	1.125	43.	27.399	26.274	28.166	25.474	26.2740
2.000	1.125	44.	28.035	26.910	28.806	26.112	26.9100
2.000	1.125	45.	28.671	27.546	29.446	26.750	27.5460
2.000	1.125	46.	29.307	28.182	30.086	27.388	28.1820
2.000	1.125	47.	29.943	28.818	30.726	28.026	28.8180
2.000	1.125	48.	30.580	29.454	31.366	28.664	29.4540
2.000	1.125	49.	31.216	30.090	32.006	29.302	30.0900
2.000	1.125	50.	31.852	30.726	32.646	29.940	30.7260
2.000	1.125	51.	32.488	31.362	33.286	30.578	31.3620
2.000	1.125	52.	33.124	31.998	33.926	31.216	31.9980
2.000	1.125	53.	33.761	32.634	34.566	31.854	32.6340
2.000	1.125	54.	34.397	33.270	35.206	32.492	33.2700
2.000	1.125	55.	35.033	33.906	35.846	33.130	33.9060
2.000	1.125	56.	35.669	34.542	36.486	33.768	34.5420
2.000	1.125	57.	36.306	35.178	37.126	34.406	35.1780
2.000	1.125	58.	36.942	35.814	37.766	35.044	35.8140
2.000	1.125	59.	37.578	36.450	38.406	35.682	36.4500
2.000	1.125	60.	38.214	37.086	39.046	36.320	37.0860
2.000	1.125	61.	38.850	37.722	39.686	36.958	37.7220
2.000	1.125	62.	39.486	38.358	40.326	37.596	38.3580
2.000	1.125	63.	40.122	38.994	40.966	38.234	38.9940
2.000	1.125	64.	40.758	39.630	41.606	38.872	39.6300

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TABLE XIII CONTINUED

P	D	N	PD	BD	OD	MHD	CD
2.000	1.125	65.	41.396	40.271	42.256	39.498	40.2536
2.000	1.125	66.	42.033	40.908	42.928	40.134	40.9080
2.000	1.125	67.	42.669	41.544	43.600	40.772	41.5271
2.000	1.125	68.	43.306	42.181	44.274	41.408	42.1810
2.000	1.125	69.	43.942	42.817	44.948	42.046	42.8006
2.000	1.125	70.	44.578	43.453	45.622	42.682	43.4530
2.000	1.125	71.	45.215	44.090	46.292	43.320	44.0741
2.000	1.125	72.	45.851	44.726	46.964	43.956	44.7260
2.000	1.125	73.	46.488	45.363	47.640	44.594	45.3635
2.000	1.125	74.	47.124	45.999	48.312	45.230	45.9990
2.000	1.125	75.	47.760	46.635	48.984	45.868	46.6359
2.000	1.125	76.	48.397	47.272	49.656	46.504	47.2720
2.000	1.125	77.	49.033	47.908	50.328	47.142	47.9083
2.000	1.125	78.	49.670	48.545	51.002	47.778	48.5450
2.000	1.125	79.	50.306	49.181	51.674	48.416	49.1810
2.000	1.125	80.	50.943	49.818	52.346	49.052	49.8180
2.000	1.125	81.	51.579	50.454	53.018	49.690	50.4540
2.000	1.125	82.	52.216	51.091	53.692	50.326	51.0910
2.000	1.125	83.	52.852	51.727	54.366	50.964	51.7270
2.000	1.125	84.	53.489	52.364	55.036	51.600	52.3640
2.000	1.125	85.	54.125	53.000	55.708	52.238	52.9867
2.000	1.125	86.	54.761	53.636	56.380	52.874	53.6360
2.000	1.125	87.	55.398	54.273	57.054	53.510	54.2730
2.000	1.125	88.	56.034	54.909	57.728	54.148	54.9090
2.000	1.125	89.	56.671	55.546	58.402	54.784	55.5460
2.000	1.125	90.	57.307	56.182	59.076	55.422	56.1820
2.000	1.125	91.	57.944	56.819	59.744	56.058	56.8190
2.000	1.125	92.	58.580	57.455	60.418	56.696	57.4550
2.000	1.125	93.	59.217	58.092	61.090	57.332	58.0920
2.000	1.125	94.	59.853	58.728	61.760	57.968	58.7280
2.000	1.125	95.	60.490	59.365	62.436	58.606	59.3650
2.000	1.125	96.	61.126	60.001	63.108	59.242	60.0010
2.000	1.125	97.	61.763	60.638	63.780	59.880	60.6380
2.000	1.125	98.	62.399	61.274	64.452	60.516	61.2740
2.000	1.125	99.	63.036	61.911	65.126	61.154	61.9110
2.000	1.125	100.	63.672	62.547	65.796	61.790	62.5470
2.500	1.250	8.	5.762	4.512	6.830	3.190	4.3066
2.500	1.250	8.	6.533	5.283	7.844	4.035	5.2830
2.500	1.250	9.	7.310	6.060	8.820	4.868	5.9013
2.500	1.250	10.	8.090	6.840	9.768	5.693	6.8400
2.500	1.250	11.	8.874	7.624	10.704	6.513	7.6240
2.500	1.250	12.	9.659	8.409	11.640	7.330	8.4090
2.500	1.250	13.	10.446	9.196	12.572	8.143	9.1960
2.500	1.250	14.	11.235	9.985	13.504	8.953	9.9850
2.500	1.250	15.	12.024	10.774	14.436	9.764	10.7740
2.500	1.250	16.	12.815	11.565	15.368	10.576	11.5650
2.500	1.250	17.	13.605	12.355	16.300	11.373	12.3550
2.500	1.250	18.	14.397	13.147	17.232	12.178	13.1470
2.500	1.250	19.	15.189	13.939	18.164	12.980	13.9390
2.500	1.250	20.	15.981	14.731	19.096	13.783	14.7310
2.500	1.250	21.	16.774	15.524	20.032	14.585	15.5240
2.500	1.250	22.	17.567	16.317	20.968	15.388	16.3170
2.500	1.250	23.	18.360	17.110	21.904	16.188	17.1100
2.500	1.250	24.	19.153	17.903	22.840	16.988	17.9030
2.500	1.250	25.	19.947	18.697	23.776	17.788	18.6970
2.500	1.250	26.	20.740	19.490	24.712	18.588	19.4900
2.500	1.250	27.	21.533	20.283	25.648	19.388	20.2830
2.500	1.250	28.	22.326	21.076	26.584	20.188	21.0760
2.500	1.250	29.	23.119	21.869	27.520	20.988	21.8690
2.500	1.250	30.	23.912	22.662	28.456	21.788	22.6620
2.500	1.250	31.	24.705	23.455	29.392	22.588	23.4550
2.500	1.250	32.	25.498	24.248	30.328	23.388	24.2480
2.500	1.250	33.	26.291	25.041	31.264	24.188	25.0410
2.500	1.250	34.	27.084	25.834	32.200	24.988	25.8340
2.500	1.250	35.	27.877	26.627	33.136	25.788	26.6270
2.500	1.250	36.	28.670	27.420	34.072	26.588	27.4200
2.500	1.250	37.	29.463	28.213	35.008	27.388	28.2130
2.500	1.250	38.	30.256	29.006	35.944	28.188	29.0060
2.500	1.250	39.	31.049	29.799	36.880	28.988	29.7990
2.500	1.250	40.	31.842	30.592	37.816	29.788	30.5920
2.500	1.250	41.	32.635	31.385	38.752	30.588	31.3850
2.500	1.250	42.	33.428	32.178	39.688	31.388	32.1780
2.500	1.250	43.	34.221	32.971	40.624	32.188	32.9710
2.500	1.250	44.	35.014	33.764	41.560	32.988	33.7640
2.500	1.250	45.	35.807	34.557	42.496	33.788	34.5570
2.500	1.250	46.	36.600	35.350	43.432	34.588	35.3500
2.500	1.250	47.	37.393	36.143	44.368	35.388	36.1430
2.500	1.250	48.	38.186	36.936	45.304	36.188	36.9360
2.500	1.250	49.	38.979	37.729	46.240	36.988	37.7290
2.500	1.250	50.	39.772	38.522	47.176	37.788	38.5220
2.500	1.250	51.	40.565	39.315	48.112	38.588	39.3150
2.500	1.250	52.	41.358	40.108	49.048	39.388	40.1080
2.500	1.250	53.	42.151	40.901	49.984	40.188	40.9010
2.500	1.250	54.	42.944	41.694	50.920	40.988	41.6940
2.500	1.250	55.	43.737	42.487	51.856	41.788	42.4870
2.500	1.250	56.	44.530	43.280	52.792	42.588	43.2800
2.500	1.250	57.	45.323	44.073	53.728	43.388	44.0730
2.500	1.250	58.	46.116	44.866	54.664	44.188	44.8660
2.500	1.250	59.	46.909	45.659	55.600	44.988	45.6590
2.500	1.250	60.	47.702	46.452	56.536	45.788	46.4520
2.500	1.250	61.	48.495	47.245	57.472	46.588	47.2450
2.500	1.250	62.	49.288	48.038	58.408	47.388	48.0380
2.500	1.250	63.	50.081	48.831	59.344	48.188	48.8310
2.500	1.250	64.	50.874	49.624	60.280	48.988	49.6240
2.500	1.250	65.	51.667	50.417	61.216	49.788	50.4170
2.500	1.250	66.	52.460	51.210	62.152	50.588	51.2100
2.500	1.250	67.	53.253	52.003	63.088	51.388	52.0030
2.500	1.250	68.	54.046	52.796	64.024	52.188	52.7960
2.500	1.250	69.	54.839	53.589	64.960	52.988	53.5890
2.500	1.250	70.	55.632	54.382	65.896	53.788	54.3820
2.500	1.250	71.	56.425	55.175	66.832	54.588	55.1750
2.500	1.250	72.	57.218	55.968	67.768	55.388	55.9680
2.500	1.250	73.	58.011	56.761	68.704	56.188	56.7610
2.500	1.250	74.	58.804	57.554	69.640	56.988	57.5540
2.500	1.250	75.	59.597	58.347	70.576	57.788	58.3470
2.500	1.250	76.	60.390	59.140	71.512	58.588	59.1400
2.500	1.250	77.	61.183	59.933	72.448	59.388	59.9330
2.500	1.250	78.	61.976	60.726	73.384	60.188	60.7260
2.500	1.250	79.	62.769	61.519	74.320	60.988	61.5190
2.500	1.250	80.	63.562	62.312	75.256	61.788	62.3120
2.500	1.250	81.	64.355	63.105	76.192	62.588	63.1050
2.500	1.250	82.	65.148	63.898	77.128	63.388	63.8980
2.500	1.250	83.	65.941	64.691	78.064	64.188	64.6910
2.500	1.250	84.	66.734	65.484	79.000	64.988	65.4840
2.500	1.250	85.	67.527	66.277	79.936	65.788	66.2770
2.500	1.250	86.	68.320	67.070	80.872	66.588	67.0700
2.500	1.250	87.	69.113	67.863	81.808	67.388	67.8630
2.500	1.250	88.	69.906	68.656	82.744	68.188	68.6560
2.500	1.250	89.	70.699	69.449	83.680	68.988	69.4490
2.500	1.250	90.	71.492	70.242	84.616	69.788	70.2420
2.500	1.250	91.	72.285	71.035	85.552	70.588	71.0350
2.500	1.250	92.	73.078	71.828	86.488	71.388	71.8280
2.500	1.250	93.	73.871	72.621	87.424	72.188	72.6210
2.500	1.250	94.	74.664	73.414	88.360	72.988	73.4140
2.500	1.250	95.	75.457	74.207	89.296	73.788	74.2070
2.500	1.250	96.	76.250	75.000	90.232	74.588	75.0000
2.500	1.250	97.	77.043	75.793	91.168	75.388	75.7930
2.500	1.250	98.	77.836	76.586	92.104	76.188	76.5860
2.500	1.250	99.	78.629	77.379	93.040	76.988	77.3790
2.500	1.250	100.	79.422	78.172	93.976	77.788	78.1720
2.500	1.250	101.	80.215	78.965	94.912	78.588	78.9650
2.500	1.250	102.	81.008	79.758	95.848	79.388	79.7580
2.500	1.250	103.	81.801	80.551	96.784	80.188	80.5510
2.500	1.250	104.	82.594	81.344	97.720	80.988	81.3440
2.500	1.250	105.	83.387	82.137	98.656	81.788	82.1370
2.500	1.250	106.	84.180	82.930	99.592	82.588	82.9300
2.500	1.250	107.	84.973	83.723	100.528	83.388	83.7230
2.500	1.250	108.	85.766	84.516	101.464	84.188	84.5160
2.500	1.250	109.	86.559	85.309	1		

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TABLE XIII CONTINUED

P	D	N	PD	BD	OD	MHD	CD
2.500	1.250	81.	64.474	63.224	66.344	62.425	63.2065
2.500	1.250	82.	65.269	64.019	67.184	63.220	64.0190
2.500	1.250	83.	66.065	64.815	68.024	64.018	64.7980
2.500	1.250	84.	66.861	65.611	68.866	64.813	65.5910
2.500	1.250	85.	67.656	66.406	69.706	65.610	66.3894
2.500	1.250	86.	68.452	67.202	70.550	66.405	67.1880
2.500	1.250	87.	69.247	67.997	71.388	67.200	67.9807
2.500	1.250	88.	70.043	68.793	72.230	67.998	68.7730
2.500	1.250	89.	70.839	69.589	73.070	68.793	69.5651
2.500	1.250	90.	71.634	70.384	73.910	69.590	70.3571
2.500	1.250	91.	72.430	71.180	74.754	70.385	71.1495
2.500	1.250	92.	73.226	71.976	75.594	71.183	71.9460
2.500	1.250	93.	74.021	72.771	76.432	71.978	72.7425
2.500	1.250	94.	74.817	73.567	77.272	72.773	73.5390
2.500	1.250	95.	75.612	74.362	78.114	73.570	74.3355
2.500	1.250	96.	76.408	75.158	78.954	74.365	75.1320
2.500	1.250	97.	77.204	75.954	79.796	75.163	75.9285
2.500	1.250	98.	77.999	76.749	80.636	75.958	76.7250
2.500	1.250	99.	78.795	77.545	81.476	76.755	77.5215
2.500	1.250	100.	79.591	78.341	82.318	77.550	78.3180
2.609	.875	7.	6.013	5.138	7.498	4.161	4.9237
2.609	.875	8.	6.818	5.943	8.362	5.043	5.9430
2.609	.875	9.	7.628	6.753	9.200	5.911	6.5874
2.609	.875	10.	8.443	7.568	10.074	6.772	7.5880
2.609	.875	11.	9.261	8.386	10.910	7.628	8.2150
2.609	.875	12.	10.080	9.205	11.744	8.481	9.2050
2.609	.875	13.	10.902	10.027	12.570	9.329	9.9130
2.609	.875	14.	11.725	10.850	13.396	10.175	10.8500
2.609	.875	15.	12.549	11.674	14.212	11.017	11.5753
2.609	.875	16.	13.373	12.498	15.036	11.860	12.4980
2.609	.875	17.	14.199	13.324	15.854	12.700	13.3270
2.609	.875	18.	15.025	14.150	16.672	13.540	14.1500
2.609	.875	19.	15.851	14.976	17.492	14.378	14.9882
2.609	.875	20.	16.678	15.803	18.316	15.215	15.8030
2.609	.875	21.	17.505	16.630	19.128	16.053	16.5896
2.609	.875	22.	18.333	17.458	19.938	16.890	17.4280
2.609	.875	23.	19.160	18.285	20.746	17.725	18.2208
2.609	.875	24.	19.988	19.113	21.576	18.560	19.1130
2.609	.875	25.	20.817	19.942	22.404	19.395	19.8829
2.609	.875	26.	21.645	20.770	23.232	20.230	20.7700
2.609	.875	27.	22.473	21.598	24.060	21.065	21.5433
2.609	.875	28.	23.302	22.427	24.886	21.899	22.4270
2.609	.875	29.	24.131	23.256	25.712	22.732	23.2051
2.609	.875	30.	24.960	24.085	26.538	23.567	24.0850
2.609	.875	31.	25.789	24.914	27.362	24.399	24.8644
2.609	.875	32.	26.618	25.743	28.188	25.234	25.7430
2.609	.875	33.	27.447	26.572	29.014	26.066	26.5273
2.609	.875	34.	28.276	27.401	29.840	26.898	27.4010
2.609	.875	35.	29.105	28.231	30.666	27.731	28.1888
2.609	.875	36.	29.934	29.060	31.492	28.565	29.0600
2.609	.875	37.	30.764	29.889	32.318	29.398	29.8891
2.609	.875	38.	31.594	30.719	33.144	30.230	30.7190
2.609	.875	39.	32.423	31.548	33.970	31.062	31.5480
2.609	.875	40.	33.253	32.378	34.796	31.895	32.3780
2.609	.875	41.	34.083	33.208	35.622	32.727	33.2080
2.609	.875	42.	34.913	34.038	36.448	33.558	34.0380
2.609	.875	43.	35.743	34.868	37.274	34.389	34.8680
2.609	.875	44.	36.573	35.698	38.100	35.220	35.6980
2.609	.875	45.	37.403	36.528	38.926	36.051	36.5280
2.609	.875	46.	38.233	37.358	39.752	36.882	37.3580
2.609	.875	47.	39.063	38.188	40.578	37.713	38.1880
2.609	.875	48.	39.893	39.018	41.404	38.544	39.0180
2.609	.875	49.	40.723	39.848	42.230	39.375	39.8480
2.609	.875	50.	41.553	40.678	43.056	40.206	40.6780
2.609	.875	51.	42.383	41.508	43.882	41.037	41.5080
2.609	.875	52.	43.213	42.338	44.708	41.868	42.3380
2.609	.875	53.	44.043	43.168	45.534	42.699	43.1680
2.609	.875	54.	44.873	43.998	46.360	43.530	43.9980
2.609	.875	55.	45.703	44.828	47.186	44.361	44.8280
2.609	.875	56.	46.533	45.658	48.012	45.192	45.6580
2.609	.875	57.	47.363	46.488	48.838	46.023	46.4880
2.609	.875	58.	48.193	47.318	49.664	46.854	47.3180
2.609	.875	59.	49.023	48.148	50.490	47.685	48.1480
2.609	.875	60.	49.853	48.978	51.316	48.516	48.9780
2.609	.875	61.	50.683	49.808	52.142	49.347	49.8080
2.609	.875	62.	51.513	50.638	52.968	50.178	50.6380
2.609	.875	63.	52.343	51.468	53.794	51.009	51.4680
2.609	.875	64.	53.173	52.298	54.620	51.840	52.2980
2.609	.875	65.	54.003	53.128	55.446	52.671	53.1280
2.609	.875	66.	54.833	53.958	56.272	53.502	53.9580
2.609	.875	67.	55.663	54.788	57.098	54.333	54.7880
2.609	.875	68.	56.493	55.618	57.924	55.164	55.6180
2.609	.875	69.	57.323	56.448	58.750	55.995	56.4480
2.609	.875	70.	58.153	57.278	59.576	56.826	57.2780
2.609	.875	71.	58.983	58.108	60.402	57.657	58.1080
2.609	.875	72.	59.813	58.938	61.228	58.488	58.9380
2.609	.875	73.	60.643	59.768	62.054	59.319	59.7680
2.609	.875	74.	61.473	60.598	62.880	60.150	60.5980
2.609	.875	75.	62.303	61.428	63.706	60.981	61.4280
2.609	.875	76.	63.133	62.258	64.532	61.812	62.2580
2.609	.875	77.	63.963	63.088	65.358	62.643	63.0880
2.609	.875	78.	64.793	63.918	66.184	63.474	63.9180
2.609	.875	79.	65.623	64.748	67.010	64.305	64.7480
2.609	.875	80.	66.453	65.578	67.836	65.136	65.5780
2.609	.875	81.	67.283	66.408	68.662	65.967	66.4080
2.609	.875	82.	68.113	67.238	69.488	66.798	67.2380
2.609	.875	83.	68.943	68.068	70.314	67.629	68.0680
2.609	.875	84.	69.773	68.898	71.140	68.460	68.8980
2.609	.875	85.	70.603	69.728	71.966	69.291	69.7280
2.609	.875	86.	71.433	70.558	72.792	70.122	70.5580
2.609	.875	87.	72.263	71.388	73.618	70.953	71.3880
2.609	.875	88.	73.093	72.218	74.444	71.784	72.2180
2.609	.875	89.	73.923	73.048	75.270	72.615	73.0480
2.609	.875	90.	74.753	73.878	76.096	73.446	73.8780
2.609	.875	91.	75.583	74.708	76.922	74.277	74.7080
2.609	.875	92.	76.413	75.538	77.748	75.108	75.5380
2.609	.875	93.	77.243	76.368	78.574	75.939	76.3680
2.609	.875	94.	78.073	77.198	79.400	76.770	77.1980
2.609	.875	95.	78.903	78.028	80.226	77.601	78.0280
2.609	.875	96.	79.733	78.858	81.052	78.432	78.8580
2.609	.875	97.	80.563	79.688	81.878	79.263	79.6880
2.609	.875	98.	81.393	80.518	82.704	80.094	80.5180
2.609	.875	99.	82.223	81.348	83.530	80.925	81.3480
2.609	.875	100.	83.053	82.178	84.356	81.756	82.1780
2.609	.875	101.	83.883	83.008	85.182	82.587	83.0080
2.609	.875	102.	84.713	83.838	86.008	83.418	83.8380
2.609	.875	103.	85.543	84.668	86.834	84.249	84.6680
2.609	.875	104.	86.373	85.498	87.660	85.080	85.4980
2.609	.875	105.	87.203	86.328	88.486	85.911	86.3280
2.609	.875	106.	88.033	87.158	89.312	86.742	87.1580
2.609	.875	107.	88.863	87.988	90.138	87.573	87.9880
2.609	.875	108.	89.693	88.818	90.964	88.404	88.8180
2.609	.875	109.	90.523	89.648	91.790	89.235	89.6480
2.609	.875	110.	91.353	90.478	92.616	90.066	90.4780
2.609	.875	111.	92.183	91.308	93.442	90.897	91.3080
2.609	.875	112.	93.013	92.138	94.268	91.728	92.1380
2.609	.875	113.	93.843	92.968	95.094	92.559	92.9680
2.609	.875	114.	94.673	93.798	95.920	93.390	93.7980
2.609	.875	115.	95.503	94.628	96.746	94.221	94.6280
2.609	.875	116.	96.333	95.458	97.572	95.052	95.4580
2.609	.875	117.	97.163	96.288	98.398	95.883	96.2880
2.609	.875	118.	97.993	97.118	99.224	96.714	97.1180
2.609	.875	119.	98.823	97.948	100.050	97.545	97.9480
2.609	.875	120.	99.653	98.778	100.876	98.376	98.7780
2.609	.875	121.	100.483	99.608	101.702	99.207	99.6080
2.609	.875	122.	101.313	100.438	102.528	100.038	100.4380
2.609	.875	123.	102.143	101.268	103.354	100.869	101.2680
2.609	.875	124.	102.973	102.098	104.180	101.700	102.0980
2.609	.875	125.	103.803	102.928	105.006	102.531	102.9280
2.609	.875	126.</					

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P	D	N	PD	BD	OD	MHD	CD
3.067	1.625	43.	42.016	40.391	43.858	39.373	40.3506
3.067	1.625	44.	42.992	41.367	44.848	40.351	41.3670
3.067	1.625	45.	43.967	42.342	45.848	41.330	42.3034
3.067	1.625	46.	44.943	43.318	46.848	42.308	43.3180
3.067	1.625	47.	45.918	44.293	47.848	43.286	44.2561
3.067	1.625	48.	46.894	45.269	48.848	44.265	45.2269
3.067	1.625	49.	47.869	46.244	49.848	45.240	46.2086
3.067	1.625	50.	48.845	47.220	50.848	46.219	47.2200
3.067	1.625	51.	49.821	48.196	51.848	47.197	48.1620
3.067	1.625	52.	50.796	49.171	52.848	48.172	49.1710
3.067	1.625	53.	51.772	50.147	53.848	49.151	50.1473
3.067	1.625	54.	52.748	51.123	54.848	50.129	51.1230
3.067	1.625	55.	53.723	52.098	55.848	51.107	52.0665
3.067	1.625	56.	54.699	53.074	56.848	52.083	53.0740
3.067	1.625	57.	55.675	54.050	57.848	53.061	54.0196
3.067	1.625	58.	56.651	55.026	58.848	54.036	55.0260
3.067	1.625	59.	57.626	56.001	59.848	55.015	56.0016
3.067	1.625	60.	58.602	56.977	60.848	55.993	57.0000
3.067	1.625	61.	59.578	57.953	61.848	56.968	58.0000
3.067	1.625	62.	60.554	58.929	62.848	57.947	59.0000
3.067	1.625	63.	61.530	59.905	63.848	58.922	60.0000
3.067	1.625	64.	62.506	60.881	64.848	59.900	61.0000
3.067	1.625	65.	63.481	61.856	65.848	60.879	62.0000
3.067	1.625	66.	64.457	62.832	66.848	61.854	63.0000
3.067	1.625	67.	65.433	63.808	67.848	62.832	64.0000
3.067	1.625	68.	66.409	64.784	68.848	63.808	65.0000
3.067	1.625	69.	67.385	65.760	69.848	64.786	66.0000
3.067	1.625	70.	68.361	66.736	70.848	65.761	67.0000
3.067	1.625	71.	69.337	67.712	71.848	66.740	68.0000
3.067	1.625	72.	70.313	68.688	72.848	67.715	69.0000
3.067	1.625	73.	71.289	69.664	73.848	68.694	70.0000
3.067	1.625	74.	72.265	70.640	74.848	69.669	71.0000
3.067	1.625	75.	73.241	71.616	75.848	70.647	72.0000
3.067	1.625	76.	74.217	72.592	76.848	71.623	73.0000
3.067	1.625	77.	75.193	73.568	77.848	72.601	74.0000
3.067	1.625	78.	76.169	74.544	78.848	73.576	75.0000
3.067	1.625	79.	77.145	75.520	79.848	74.555	76.0000
3.067	1.625	80.	78.121	76.496	80.848	75.530	77.0000
3.067	1.625	81.	79.097	77.472	81.848	76.508	78.0000
3.067	1.625	82.	80.073	78.448	82.848	77.484	79.0000
3.067	1.625	83.	81.049	79.424	83.848	78.462	80.0000
3.067	1.625	84.	82.025	80.400	84.848	79.440	81.0000
3.067	1.625	85.	83.001	81.376	85.848	80.418	82.0000
3.067	1.625	86.	83.977	82.352	86.848	81.391	83.0000
3.067	1.625	87.	84.953	83.328	87.848	82.366	84.0000
3.067	1.625	88.	85.929	84.304	88.848	83.345	85.0000
3.067	1.625	89.	86.905	85.280	89.848	84.320	86.0000
3.067	1.625	90.	87.881	86.256	90.848	85.298	87.0000
3.067	1.625	91.	88.857	87.232	91.848	86.274	88.0000
3.067	1.625	92.	89.833	88.208	92.848	87.252	89.0000
3.067	1.625	93.	90.809	89.184	93.848	88.230	90.0000
3.067	1.625	94.	91.785	90.160	94.848	89.208	91.0000
3.067	1.625	95.	92.761	91.136	95.848	90.186	92.0000
3.067	1.625	96.	93.737	92.112	96.848	91.164	93.0000
3.067	1.625	97.	94.713	93.088	97.848	92.142	94.0000
P	D	N	PD	BD	OD	MHD	CD
3.067	1.625	98.	95.689	94.065	98.848	93.110	95.0000
3.067	1.625	99.	96.665	95.041	99.848	94.088	96.0000
3.067	1.625	100.	97.642	96.017	100.848	95.064	97.0000
3.075	1.625	7.	7.087	5.837	8.630	4.542	5.5844
3.075	1.625	8.	8.035	6.785	9.668	5.561	6.7850
3.075	1.625	9.	8.991	7.741	10.684	6.605	7.9458
3.075	1.625	10.	9.951	8.701	11.672	7.620	9.1010
3.075	1.625	11.	10.915	9.665	12.650	8.629	10.2559
3.075	1.625	12.	11.881	10.631	13.626	9.634	11.4110
3.075	1.625	13.	12.849	11.599	14.630	10.634	12.5660
3.075	1.625	14.	13.819	12.569	15.598	11.630	13.7210
3.075	1.625	15.	14.790	13.540	16.584	12.623	14.8760
3.075	1.625	16.	15.762	14.512	17.524	13.616	16.0310
3.075	1.625	17.	16.735	15.485	18.486	14.606	17.1860
3.075	1.625	18.	17.708	16.458	19.434	15.597	18.3410
3.075	1.625	19.	18.682	17.432	20.590	16.584	19.4960
3.075	1.625	20.	19.657	18.407	21.498	17.571	20.6510
3.075	1.625	21.	20.632	19.382	22.450	18.558	21.8060
3.075	1.625	22.	21.607	20.357	23.472	19.545	22.9610
3.075	1.625	23.	22.583	21.333	24.622	20.529	24.1160
3.075	1.625	24.	23.558	22.308	25.566	21.513	25.2710
3.075	1.625	25.	24.535	23.285	26.590	22.497	26.4260
3.075	1.625	26.	25.511	24.261	27.610	23.481	27.5810
3.075	1.625	27.	26.487	25.237	28.628	24.465	28.7360
3.075	1.625	28.	27.464	26.214	29.570	25.449	29.8910
3.075	1.625	29.	28.441	27.191	30.586	26.430	31.0460
3.075	1.625	30.	29.418	28.168	31.608	27.414	32.2010
3.075	1.625	31.	30.395	29.145	32.644	28.395	33.3560
3.075	1.625	32.	31.372	30.122	33.680	29.379	34.5110
3.075	1.625	33.	32.349	31.099	34.838	30.360	35.6660
3.075	1.625	34.	33.327	32.077	35.450	31.341	36.8210
3.075	1.625	35.	34.304	33.054	36.596	32.322	37.9760
3.075	1.625	36.	35.282	34.032	37.610	33.308	39.1310
3.075	1.625	37.	36.259	35.009	38.620	34.286	40.2860
3.075	1.625	38.	37.237	35.987	39.632	35.267	41.4410
3.075	1.625	39.	38.215	36.965	40.642	36.248	42.5960
3.075	1.625	40.	39.192	37.942	41.652	37.229	43.7510
3.075	1.625	41.	40.170	38.920	42.674	38.210	44.9060
3.075	1.625	42.	41.148	39.898	43.680	39.191	46.0610
3.075	1.625	43.	42.126	40.876	44.686	40.169	47.2160
3.075	1.625	44.	43.104	41.854	45.692	41.150	48.3710
3.075	1.625	45.	44.082	42.832	46.594	42.131	49.5260
3.075	1.625	46.	45.060	43.810	47.600	43.112	50.6810
3.075	1.625	47.	46.038	44.788	48.600	44.093	51.8360
3.075	1.625	48.	47.016	45.766	49.604	45.074	52.9910
3.075	1.625	49.	47.994	46.744	50.604	46.051	54.1460
3.075	1.625	50.	48.972	47.722	51.602	47.032	55.3010
3.075	1.625	51.	49.951	48.701	52.602	48.013	56.4560
3.075	1.625	52.	50.929	49.679	53.598	48.991	57.6110
3.075	1.625	53.	51.907	50.657	54.588	49.972	58.7660
3.075	1.625	54.	52.885	51.635	55.566	50.953	59.9210
3.075	1.625	55.	53.863	52.613	56.548	51.934	61.0760
3.075	1.625	56.	54.842	53.592	57.524	52.912	62.2310
3.075	1.625	57.	55.820	54.570	58.426	53.893	63.3860
3.075	1.625	58.	56.798	55.548	59.408	54.870	64.5410



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P	D	N	PD	BD	OD	MHD	CD
3.075	1.250	59.	57.777	56.527	60.390	55.851	56.4975
3.075	1.250	60.	58.755	57.505	61.366	56.832	57.5050
3.500	1.750	7.	8.067	6.317	9.596	4.716	6.0295
3.500	1.750	8.	9.164	7.396	10.728	5.859	7.3960
3.500	1.750	9.	10.233	8.483	11.854	7.065	8.2609
3.500	1.750	10.	11.326	9.576	13.052	8.220	9.5760
3.500	1.750	11.	12.423	10.673	14.108	9.368	10.4919
3.500	1.750	12.	13.523	11.773	15.212	10.512	11.7730
3.500	1.750	13.	14.625	12.875	16.308	11.650	12.7220
3.500	1.750	14.	15.729	13.979	17.456	12.784	13.9790
3.500	1.750	15.	16.834	15.084	18.548	13.914	15.0840
3.500	1.750	16.	17.940	16.190	19.638	15.045	16.1900
3.500	1.750	17.	19.048	17.298	20.840	16.172	17.2980
3.500	1.750	18.	20.156	18.406	21.892	17.299	18.4060
3.500	1.750	19.	21.264	19.514	22.976	18.424	19.5140
3.500	1.750	20.	22.374	20.624	24.024	19.546	20.6240
3.500	1.750	21.	23.483	21.733	25.336	20.669	21.7330
3.500	1.750	22.	24.593	22.843	26.500	21.793	22.8430
3.500	1.750	23.	25.704	23.954	27.536	22.913	23.8678
3.500	1.750	24.	26.815	25.065	28.606	24.033	25.0650
3.500	1.750	25.	27.926	26.176	29.688	25.153	26.0967
3.500	1.750	26.	29.037	27.287	31.044	26.273	27.2870
3.500	1.750	27.	30.148	28.398	32.198	27.393	28.3246
3.500	1.750	28.	31.260	29.510	33.262	28.513	29.5100
3.500	1.750	29.	32.372	30.622	34.414	29.629	30.6220
3.500	1.750	30.	33.484	31.734	35.570	30.749	31.7340
3.500	1.750	31.	34.596	32.846	36.718	31.866	32.8460
3.500	1.750	32.	35.708	33.958	37.868	32.986	33.9580
3.500	1.750	33.	36.820	35.070	38.922	34.102	35.0700
3.500	1.750	34.	37.933	36.183	40.070	35.219	36.1830
3.500	1.750	35.	39.045	37.295	41.216	36.338	37.2950
3.500	1.750	36.	40.158	38.408	42.364	37.455	38.4080
3.500	1.750	37.	41.271	39.521	43.508	38.572	39.5210
3.500	1.750	38.	42.383	40.633	44.502	39.688	40.6330
3.500	1.750	39.	43.496	41.746	45.642	40.805	41.7460
3.500	1.750	40.	44.609	42.859	46.778	41.921	42.8590
3.500	1.750	41.	45.722	43.972	47.806	43.038	43.9720
3.500	1.750	42.	46.835	45.085	48.936	44.154	45.0850
3.500	1.750	43.	47.948	46.198	50.068	45.267	46.1980
3.500	1.750	44.	49.061	47.311	51.196	46.384	47.3110
3.500	1.750	45.	50.175	48.425	52.488	47.500	48.4250
3.500	1.750	46.	51.288	49.538	53.622	48.617	49.5380
3.500	1.750	47.	52.401	50.651	54.748	49.733	50.6510
3.500	1.750	48.	53.514	51.764	55.874	50.850	51.7640
3.500	1.750	49.	54.628	52.878	56.998	51.963	52.8780
3.500	1.750	50.	55.741	53.991	58.114	53.079	53.9910
3.500	1.750	51.	56.854	55.104	59.232	54.196	55.1040
3.500	1.750	52.	57.968	56.218	60.348	55.309	56.2180
3.500	1.750	53.	59.081	57.331	61.308	56.425	57.3310
3.500	1.750	54.	60.195	58.445	62.410	57.542	58.4450
3.500	1.750	55.	61.308	59.558	63.506	58.658	59.5580
3.500	1.750	56.	62.421	60.671	64.594	59.771	60.6710
3.500	1.750	57.	63.535	61.785	65.674	60.888	61.7850
3.500	1.750	58.	64.649	62.899	66.744	62.001	62.8990
3.500	1.750	59.	65.762	64.012	67.796	63.117	63.9784

P	D	N	PD	BD	OD	MHD	CD
3.500	1.750	60.	66.876	65.126	68.828	64.234	65.1260
4.063	1.750	7.	9.364	7.614	11.374	6.107	7.2802
4.063	1.750	8.	10.617	8.867	12.690	7.480	8.8670
4.063	1.750	9.	11.879	10.129	14.024	8.833	9.8711
4.063	1.750	10.	13.148	11.398	15.370	10.174	11.3980
4.063	1.750	11.	14.421	12.671	16.658	11.506	12.6710
4.063	1.750	12.	15.698	13.948	17.986	12.835	13.9480
4.063	1.750	13.	16.978	15.228	19.264	14.155	15.2280
4.063	1.750	14.	18.259	16.509	20.540	15.472	16.5090
4.063	1.750	15.	19.542	17.792	21.814	16.784	17.7920
4.063	1.750	16.	20.826	19.076	23.084	18.097	19.0760
4.063	1.750	17.	22.112	20.362	24.486	19.405	20.3620
4.063	1.750	18.	23.398	21.648	25.712	20.713	21.6480
4.063	1.750	19.	24.685	22.935	27.106	22.017	22.9350
4.063	1.750	20.	25.973	24.223	28.464	23.322	24.2230
4.063	1.750	21.	27.261	25.511	29.844	24.626	25.5110
4.063	1.750	22.	28.549	26.799	30.934	25.930	26.7990
4.063	1.750	23.	29.838	28.088	32.424	27.230	27.9980
4.063	1.750	24.	31.128	29.378	33.676	28.530	29.3780
4.063	1.750	25.	32.418	30.668	35.024	29.830	30.6680
4.063	1.750	26.	33.708	31.958	36.372	31.131	31.9580
4.063	1.750	27.	34.998	33.248	37.720	32.431	33.2480
4.063	1.750	28.	36.288	34.538	38.816	33.731	34.5380
4.063	1.750	29.	37.579	35.829	40.156	35.027	35.8290
4.063	1.750	30.	38.870	37.120	41.498	36.327	37.1200
4.063	1.750	31.	40.161	38.411	42.838	37.623	38.4110
4.063	1.750	32.	41.452	39.702	44.130	38.923	39.7020
4.063	1.750	33.	42.743	40.993	45.560	40.220	40.9930
4.063	1.750	34.	44.035	42.285	46.898	41.516	42.2850
4.063	1.750	35.	45.326	43.576	48.234	42.812	43.5760
4.063	1.750	36.	46.618	44.868	49.572	44.112	44.8680
4.063	1.750	37.	47.909	46.159	50.904	45.408	46.1590
4.063	1.750	38.	49.201	47.451	52.240	46.704	47.4510
4.063	1.750	39.	50.493	48.743	53.574	48.000	48.7430
4.063	1.750	40.	51.785	50.035	54.906	49.296	50.0350
4.063	1.750	41.	53.077	51.327	56.110	50.592	51.3270
4.063	1.750	42.	54.369	52.619	57.438	51.889	52.6190
4.063	1.750	43.	55.661	53.911	58.766	53.181	53.9110
4.063	1.750	44.	56.953	55.203	60.092	54.477	55.2030
4.063	1.750	45.	58.245	56.495	61.416	55.773	56.4950
4.063	1.750	46.	59.538	57.788	62.740	57.069	57.7880
4.063	1.750	47.	60.830	59.080	64.062	58.365	59.0800
4.063	1.750	48.	62.122	60.372	65.380	59.661	60.3720
4.063	1.750	49.	63.415	61.665	66.698	60.953	61.6650
4.063	1.750	50.	64.707	62.957	68.014	62.249	62.9570
4.063	1.750	51.	66.000	64.250	69.332	63.545	64.2500
4.063	1.750	52.	67.292	65.542	70.646	64.837	65.5420
4.063	1.750	53.	68.585	66.835	71.966	66.133	66.8350
4.063	1.750	54.	69.877	68.127	73.092	67.429	68.1270
4.063	1.750	55.	71.170	69.420	74.394	68.726	69.4200
4.063	1.750	56.	72.462	70.712	75.694	70.018	70.7120
4.063	1.750	57.	73.755	72.005	76.988	71.314	71.9647
4.063	1.750	58.	75.048	73.298	78.282	72.606	73.2980
4.063	1.750	59.	76.340	74.590	79.570	73.902	74.5900
4.063	1.750	60.	77.633	75.883	80.852	75.198	75.8830



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P	D	N	PD	BD	OD	MHD	CD
4.073	1.781	7.	9.387	7.606	11.374	5.752	7.2714
4.073	1.781	8.	10.643	8.862	12.726	7.129	8.8620
4.073	1.781	9.	11.909	10.128	14.084	8.485	9.8895
4.073	1.781	10.	13.181	11.400	15.386	9.829	11.4000
4.073	1.781	11.	14.457	12.676	16.674	11.165	12.8652
4.073	1.781	12.	15.737	13.956	17.970	12.497	13.9560
4.073	1.781	13.	17.019	15.238	19.252	13.821	15.0600
4.073	1.781	14.	18.304	16.523	20.568	15.140	16.5230
4.073	1.781	15.	19.590	17.809	21.864	16.456	17.8549
4.073	1.781	16.	20.878	19.097	23.114	17.771	19.0970
4.073	1.781	17.	22.168	20.385	24.388	19.083	20.2491
4.073	1.781	18.	23.455	21.674	25.682	20.394	21.6740
4.073	1.781	19.	24.746	22.965	26.974	21.702	22.9650
4.073	1.781	20.	26.036	24.255	28.372	23.009	24.2550
4.073	1.781	21.	27.328	25.547	29.768	24.317	25.5471
4.073	1.781	22.	28.620	26.839	31.126	25.624	26.8390
4.073	1.781	23.	29.912	28.131	32.482	26.927	28.0307
4.073	1.781	24.	31.204	29.423	33.829	28.231	29.4230
4.073	1.781	25.	32.497	30.716	34.940	29.534	30.6238
4.073	1.781	26.	33.791	32.010	36.288	30.838	32.0100
4.073	1.781	27.	35.084	33.303	37.762	32.141	33.2176
4.073	1.781	28.	36.378	34.597	39.028	33.444	34.5970
4.073	1.781	29.	37.671	35.890	40.374	34.744	35.8905
4.073	1.781	30.	38.965	37.184	41.720	36.047	37.1840
4.073	1.781	31.	40.260	38.479	43.066	37.346	38.4790
4.073	1.781	32.	41.554	39.773	44.410	38.650	39.7730
4.073	1.781	33.	42.848	41.067	45.636	39.949	40.9972
4.073	1.781	34.	44.143	42.362	46.978	41.248	42.3620
4.073	1.781	35.	45.438	43.657	48.318	42.547	43.6571
4.073	1.781	36.	46.732	44.951	49.658	43.851	44.9510
4.073	1.781	37.	48.027	46.246	50.826	45.150	46.1832
4.073	1.781	38.	49.322	47.541	52.162	46.449	47.5410
4.073	1.781	39.	50.617	48.836	53.494	47.749	48.7769
4.073	1.781	40.	51.912	50.131	54.824	49.048	50.1310
4.073	1.781	41.	53.208	51.427	56.214	50.347	51.3708
4.073	1.781	42.	54.503	52.722	57.562	51.646	52.7220
4.073	1.781	43.	55.798	54.017	58.870	52.942	53.9634
4.073	1.781	44.	57.093	55.312	60.196	54.241	55.3120
4.073	1.781	45.	58.389	56.608	61.524	55.540	56.5568
4.073	1.781	46.	59.684	57.903	62.852	56.840	57.9030
4.073	1.781	47.	60.980	59.199	64.176	58.139	59.1500
4.073	1.781	48.	62.275	60.494	65.496	59.438	60.4940
4.073	1.781	49.	63.571	61.790	66.818	60.733	61.7900
4.073	1.781	50.	64.866	63.085	68.136	62.033	63.0850
4.073	1.781	51.	66.162	64.381	69.454	63.332	64.3358
4.073	1.781	52.	67.458	65.677	70.770	64.637	65.6770
4.073	1.781	53.	68.753	66.972	71.912	65.926	66.9285
4.073	1.781	54.	70.049	68.268	73.212	67.226	68.2260
4.073	1.781	55.	71.345	69.564	74.522	68.525	69.5221
4.073	1.781	56.	72.641	70.860	75.822	69.820	70.8600
4.073	1.781	57.	73.937	72.156	77.120	71.119	72.1156
4.073	1.781	58.	75.233	73.451	78.412	72.415	73.4510
4.073	1.781	59.	76.528	74.747	79.700	73.714	74.7080
4.073	1.781	60.	77.824	76.043	80.980	75.013	76.0430
4.500	2.250	7.	10.371	8.121	12.300	5.992	7.7513
4.500	2.250	8.	11.666	9.416	13.595	7.286	8.8620
4.500	2.250	9.	12.961	10.711	14.890	8.581	9.8895
4.500	2.250	10.	14.256	12.006	16.185	9.876	11.4000
4.500	2.250	11.	15.551	13.301	17.480	11.171	12.8652
4.500	2.250	12.	16.846	14.596	18.775	12.466	13.9560
4.500	2.250	13.	18.141	15.891	20.070	13.761	15.0600
4.500	2.250	14.	19.436	17.186	21.365	15.056	16.5230
4.500	2.250	15.	20.731	18.481	22.660	16.351	17.8549
4.500	2.250	16.	22.026	19.776	23.955	17.646	19.0970
4.500	2.250	17.	23.321	21.071	25.250	18.941	20.2491
4.500	2.250	18.	24.616	22.366	26.545	20.236	21.6740
4.500	2.250	19.	25.911	23.661	27.840	21.531	22.9650
4.500	2.250	20.	27.206	24.956	29.135	22.826	24.2550
4.500	2.250	21.	28.501	26.251	30.430	24.121	25.5471
4.500	2.250	22.	29.796	27.546	31.725	25.416	26.8390
4.500	2.250	23.	31.091	28.841	33.020	26.711	28.0307
4.500	2.250	24.	32.386	30.136	34.315	28.006	29.4230
4.500	2.250	25.	33.681	31.431	35.610	29.301	30.6238
4.500	2.250	26.	34.976	32.726	36.905	30.596	32.0100
4.500	2.250	27.	36.271	34.021	38.200	31.891	33.2176
4.500	2.250	28.	37.566	35.316	39.495	33.186	34.5970
4.500	2.250	29.	38.861	36.611	40.790	34.481	35.8905
4.500	2.250	30.	40.156	37.906	42.085	35.776	37.1840
4.500	2.250	31.	41.451	39.201	43.380	37.071	38.4790
4.500	2.250	32.	42.746	40.496	44.675	38.366	39.7730
4.500	2.250	33.	44.041	41.791	45.970	39.661	40.9972
4.500	2.250	34.	45.336	43.086	47.265	40.956	42.3620
4.500	2.250	35.	46.631	44.381	48.560	42.251	43.6571
4.500	2.250	36.	47.926	45.676	49.855	43.546	44.9510
4.500	2.250	37.	49.221	46.971	51.150	44.841	46.1832
4.500	2.250	38.	50.516	48.266	52.445	46.136	47.5410
4.500	2.250	39.	51.811	49.561	53.740	47.431	48.7769
4.500	2.250	40.	53.106	50.856	55.035	48.726	50.1310
4.500	2.250	41.	54.401	52.151	56.330	50.021	51.3708
4.500	2.250	42.	55.696	53.446	57.625	51.316	52.7220
4.500	2.250	43.	56.991	54.741	58.920	52.611	53.9634
4.500	2.250	44.	58.286	56.036	60.215	53.906	55.3120
4.500	2.250	45.	59.581	57.331	61.510	55.201	56.5568
4.500	2.250	46.	60.876	58.626	62.805	56.496	57.9030
4.500	2.250	47.	62.171	59.921	64.100	57.791	59.1500
4.500	2.250	48.	63.466	61.216	65.395	59.086	60.4940
4.500	2.250	49.	64.761	62.511	66.690	60.381	61.7900
4.500	2.250	50.	66.056	63.806	67.985	61.676	63.0850
4.500	2.250	51.	67.351	65.101	69.280	62.971	64.3358
4.500	2.250	52.	68.646	66.396	70.575	64.266	65.6770
4.500	2.250	53.	69.941	67.691	71.870	65.561	66.9285
4.500	2.250	54.	71.236	68.986	73.165	66.856	68.2260
4.500	2.250	55.	72.531	70.281	74.460	68.151	69.5221
4.500	2.250	56.	73.826	71.576	75.755	69.446	70.8600
4.500	2.250	57.	75.121	72.871	77.050	70.741	72.1156
4.500	2.250	58.	76.416	74.166	78.345	72.036	73.4510
4.500	2.250	59.	77.711	75.461	79.640	73.331	74.7080
4.500	2.250	60.	79.006	76.756	80.935	74.626	76.0430
4.500	2.250	7.	11.524	9.024	13.592	8.195	7.7513
4.500	2.250	8.	12.819	10.319	14.887	9.490	8.8620
4.500	2.250	9.	14.114	11.614	16.182	10.785	9.8895
4.500	2.250	10.	15.409	12.909	17.477	12.080	11.4000
4.500	2.250	11.	16.704	14.204	18.772	13.375	12.8652
4.500	2.250	12.	17.999	15.499	20.067	14.670	13.9560
4.500	2.250	13.	19.294	16.794	21.362	15.965	15.0600
4.500	2.250	14.	20.589	18.089	22.657	17.260	16.5230
4.500	2.250	15.	21.884	19.384	23.952	18.555	17.8549
4.500	2.250	16.	23.179	20.679	25.247	19.850	19.0970
4.500	2.250	17.	24.474	21.974	26.542	21.145	20.2491
4.500	2.250	18.	25.769	23.269	27.837	22.440	21.6740
4.500	2.250	19.	27.064	24.564	29.132	23.735	22.9650
4.500	2.250	20.	28.359	25.859	30.427	25.030	24.2550
4.500	2.250	21.	29.654	27.154	31.722	26.325	25.5471
4.500	2.250	22.	30.949	28.449	33.017	27.620	26.8390
4.500	2.250	23.	32.244	29.744	34.312	28.915	28.0307
4.500	2.250	24.	33.539	31.039	35.607	30.210	29.4230
4.500	2.250	25.	34.834	32.334	36.902	31.505	30.6238
4.500	2.250	26.	36.129	33.629	38.197	32.800	32.0100
4.500	2.250	27.	37.424	34.924	39.492	34.095	33.2176
4.500	2.250	28.	38.719	36.219	40.787	35.390	34.5970
4.500	2.250	29.	40.014	37.514	42.082	36.685	35.8905
4.500	2.250	30.	41.309	38.809	43.377	37.980	37.1840
4.500	2.250	31.	42.604	40.104	44.672	39.275	38.4790
4.500	2.250	32.	43.899	41.399	45.967	40.570	39.7730
4.500	2.250	33.	45.194	42.694	47.262	41.865	40.9972
4.500	2.250	34.	46.489	43.989	48.557	43.160	42.3620
4.500	2.250	35.	47.784	45.284	49.852	44.455	43.6571
4.500							

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TABLE XIII CONTINUED

P	D	N	PD	RD	OD	MHD	CD
5.000	2.500	9.	14.619	12.119	16.948	9.860	11.8017
5.000	2.500	10.	16.180	13.680	18.618	11.510	13.6800
5.000	2.500	11.	17.747	15.247	20.198	13.150	15.9882
5.000	2.500	12.	19.319	16.819	21.832	14.785	16.8190
5.000	2.500	13.	20.893	18.393	23.346	16.410	18.1745
5.000	2.500	14.	22.470	19.970	24.968	18.030	19.9700
5.000	2.500	15.	24.049	21.549	26.530	19.645	21.5498
5.000	2.500	16.	25.629	23.129	28.080	21.260	23.1290
5.000	2.500	17.	27.211	24.711	29.638	22.870	24.7110
5.000	2.500	18.	28.794	26.294	31.306	24.485	26.2940
5.000	2.500	19.	30.378	27.878	32.850	26.085	27.8780
5.000	2.500	20.	31.962	29.462	34.654	27.690	29.4620
5.000	2.500	21.	33.548	31.048	36.196	29.295	30.9131
5.000	2.500	22.	35.133	32.633	37.712	30.500	32.6330
5.000	2.500	23.	36.720	34.220	39.370	32.000	34.2200
5.000	2.500	24.	38.306	35.806	41.042	34.100	35.8060
5.000	2.500	25.	39.894	37.394	42.698	35.700	37.3940
5.000	2.500	26.	41.481	38.981	44.350	37.300	38.9810
5.000	2.500	27.	43.069	40.569	45.850	38.900	40.5690
5.000	2.500	28.	44.657	42.157	47.368	40.500	42.1570
5.000	2.500	29.	46.245	43.745	49.014	42.095	43.7450
5.000	2.500	30.	47.834	45.334	50.814	43.695	45.3340
5.000	2.500	31.	49.423	46.923	52.460	45.290	46.9230
5.000	2.500	32.	51.011	48.511	54.102	46.890	48.5110
5.000	2.500	33.	52.600	50.101	55.600	48.485	50.1010
5.000	2.500	34.	54.190	51.690	57.240	50.080	51.6900
5.000	2.500	35.	55.779	53.279	58.876	51.675	53.2790
5.000	2.500	36.	57.369	54.869	60.512	53.275	54.8690
5.000	2.500	37.	58.958	56.458	62.148	54.870	56.4580
5.000	2.500	38.	60.548	58.048	63.780	56.465	58.0480
5.000	2.500	39.	62.138	59.638	65.410	58.060	59.6380
5.000	2.500	40.	63.727	61.227	67.038	59.655	61.2270
5.000	2.500	41.	65.317	62.817	68.512	61.250	62.8170
5.000	2.500	42.	66.907	64.407	70.138	62.845	64.4070
5.000	2.500	43.	68.498	65.998	71.760	64.435	65.9980
5.000	2.500	44.	70.088	67.588	73.380	66.030	67.5880
5.000	2.500	45.	71.678	69.178	74.994	67.625	69.1780
5.000	2.500	46.	73.268	70.768	76.608	69.220	70.7680
5.000	2.500	47.	74.859	72.359	78.012	70.815	72.3590
5.000	2.500	48.	76.449	73.949	79.614	72.410	73.9490
5.000	2.500	49.	78.039	75.539	81.212	74.000	75.5390
5.000	2.500	50.	79.630	77.130	82.810	75.595	77.1300
5.000	2.500	51.	81.220	78.720	84.402	77.190	78.7200
5.000	2.500	52.	82.811	80.311	85.984	78.780	80.3110
5.000	2.500	53.	84.402	81.902	87.594	80.375	81.9020
5.000	2.500	54.	85.992	83.492	89.164	81.970	83.4920
5.000	2.500	55.	87.583	85.083	90.730	83.565	85.0830
5.000	2.500	56.	89.174	86.674	92.290	85.155	86.6740
5.000	2.500	57.	90.764	88.264	93.836	86.750	88.2640
5.000	2.500	58.	92.355	89.855	95.362	88.340	89.8550
5.000	2.500	59.	93.946	91.446	96.868	89.935	91.4460
5.000	2.500	60.	95.537	93.037	98.350	91.530	93.0370
6.000	3.000	7.	13.829	10.829	16.432	8.031	10.8290
6.000	3.000	8.	15.679	12.679	18.440	10.059	12.6790
6.000	3.000	9.	17.543	14.543	20.356	12.057	14.5430
P	D	N	PD	RD	OD	MHD	CD
6.000	3.000	10.	19.416	16.416	22.318	14.037	16.4160
6.000	3.000	11.	21.297	18.297	24.240	16.005	18.2970
6.000	3.000	12.	23.182	20.182	26.134	17.967	20.1820
6.000	3.000	13.	25.071	22.071	28.016	19.917	22.0710
6.000	3.000	14.	26.964	23.964	29.860	21.861	23.9640
6.000	3.000	15.	28.858	25.858	31.682	23.799	25.8580
6.000	3.000	16.	30.755	27.755	33.502	25.737	27.7550
6.000	3.000	17.	32.653	29.653	35.362	27.669	29.6530
6.000	3.000	18.	34.553	31.553	37.262	29.601	31.5530
6.000	3.000	19.	36.453	33.453	39.142	31.527	33.4530
6.000	3.000	20.	38.355	35.355	41.018	33.453	35.3550
6.000	3.000	21.	40.257	37.257	42.886	35.379	37.2570
6.000	3.000	22.	42.160	39.160	44.744	37.305	39.1600
6.000	3.000	23.	44.064	41.064	46.594	39.225	41.0640
6.000	3.000	24.	45.968	42.968	48.438	41.145	42.9680
6.000	3.000	25.	47.872	44.872	50.276	43.065	44.8720
6.000	3.000	26.	49.777	46.777	52.108	44.985	46.7770
6.000	3.000	27.	51.683	48.683	53.934	46.905	48.6830
6.000	3.000	28.	53.588	50.588	55.756	48.825	50.5880
6.000	3.000	29.	55.494	52.494	57.572	50.739	52.4940
6.000	3.000	30.	57.401	54.401	59.384	52.659	54.4010
6.000	3.000	31.	59.307	56.307	61.190	54.573	56.3070
6.000	3.000	32.	61.214	58.214	62.992	56.493	58.2140
6.000	3.000	33.	63.121	60.121	64.796	58.407	60.1210
6.000	3.000	34.	65.028	62.028	66.594	60.321	62.0280
6.000	3.000	35.	66.935	63.935	68.388	62.235	63.9350
6.000	3.000	36.	68.842	65.842	70.178	64.155	65.8420
6.000	3.000	37.	70.750	67.750	71.964	66.069	67.7500
6.000	3.000	38.	72.657	69.657	73.746	67.982	69.6570
6.000	3.000	39.	74.565	71.565	75.524	69.897	71.5650
6.000	3.000	40.	76.473	73.473	77.298	71.811	73.4730
6.000	3.000	41.	78.381	75.381	79.068	73.725	75.3810
6.000	3.000	42.	80.289	77.289	80.834	75.639	77.2890
6.000	3.000	43.	82.197	79.197	82.596	77.547	79.1970
6.000	3.000	44.	84.105	81.105	84.354	79.461	81.1050
6.000	3.000	45.	86.014	83.014	86.108	81.375	82.9386
6.000	3.000	46.	87.922	84.922	87.858	83.289	84.9220
6.000	3.000	47.	89.830	86.830	89.604	85.203	86.8300
6.000	3.000	48.	91.739	88.739	91.346	87.117	88.7390
6.000	3.000	49.	93.647	90.647	93.084	89.025	90.6470
6.000	3.000	50.	95.556	92.556	94.818	90.939	92.5560
6.000	3.000	51.	97.464	94.464	96.548	92.853	94.4640
6.000	3.000	52.	99.373	96.373	98.272	94.761	96.3730
6.000	3.000	53.	101.282	98.282	100.000	96.675	98.2820
6.000	3.000	54.	103.191	100.191	101.728	98.589	100.1910
6.000	3.000	55.	105.099	102.099	103.454	100.503	102.0990
6.000	3.000	56.	107.008	104.008	105.178	102.411	104.0080
6.000	3.000	57.	108.917	105.917	106.904	104.325	105.9170
6.000	3.000	58.	110.826	107.826	108.630	106.239	107.8260
6.000	3.000	59.	112.735	109.735	110.356	108.153	109.7350
6.000	3.000	60.	114.644	111.644	112.082	110.067	111.6440
6.000	3.000	7.	16.133	12.633	19.170	8.932	12.6330
6.000	3.000	8.	18.292	14.792	21.486	11.298	14.7920
6.000	3.000	9.	20.467	16.967	23.776	13.629	16.9670
6.000	3.000	10.	22.652	19.152	26.010	15.959	19.1520

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TABLE XIII CONTINUED

P	D	N	PD	BD	OD	MHD	CD
7.000	3.500	11.	24.846	21.346	28.248	18.235	20.9837
7.000	3.500	12.	27.046	23.546	30.520	20.524	23.5460
7.000	3.500	13.	29.250	25.750	32.724	22.799	25.4440
7.000	3.500	14.	31.458	27.958	34.912	25.067	27.9580
7.000	3.500	15.	33.668	30.168	37.140	27.328	29.9032
7.000	3.500	16.	35.881	32.381	39.320	29.589	32.3810
7.000	3.500	17.	38.095	34.595	41.450	31.843	34.3615
7.000	3.500	18.	40.311	36.811	43.830	34.097	36.8110
7.000	3.500	19.	42.529	39.029	45.994	36.344	38.8202
7.000	3.500	20.	44.747	41.247	48.320	38.591	41.2470
7.000	3.500	21.	46.967	43.467	50.474	40.838	43.2782
7.000	3.500	22.	49.187	45.687	52.796	43.085	45.6870
7.000	3.500	23.	51.408	47.908	55.118	45.325	47.7356
7.000	3.500	24.	53.629	50.129	57.460	47.565	50.1290
7.000	3.500	25.	55.851	52.351	59.574	49.805	52.1925
7.000	3.500	26.	58.074	54.574	61.886	52.045	54.5740
7.000	3.500	27.	60.297	56.797	64.196	54.285	56.6502
7.000	3.500	28.	62.520	59.020	66.532	56.525	59.0200
7.000	3.500	29.	64.743	61.243	68.838	58.758	61.1064
7.000	3.500	30.	66.967	63.467	71.142	60.998	63.4670
7.000	3.500	31.	69.192	65.692	73.448	63.231	65.5642
7.000	3.500	32.	71.416	67.916	75.748	65.471	67.9160
7.000	3.500	33.	73.641	70.141	77.622	67.704	70.0210
7.000	3.500	34.	75.866	72.366	79.914	69.937	72.3660
7.000	3.500	35.	78.091	74.591	82.202	72.170	74.4778
7.000	3.500	36.	80.316	76.816	84.724	74.410	76.8160
7.000	3.500	37.	82.541	79.041	87.012	76.643	78.9340
7.000	3.500	38.	84.767	81.267	89.296	78.876	81.2670
7.000	3.500	39.	86.993	83.493	91.582	81.109	83.3914
7.000	3.500	40.	89.218	85.718	93.862	83.342	85.7180
7.000	3.500	41.	91.444	87.944	95.918	85.575	87.8474
7.000	3.500	42.	93.670	90.170	98.190	87.808	90.1700
7.000	3.500	43.	95.897	92.397	100.456	90.034	92.3049
7.000	3.500	44.	98.123	94.623	102.722	92.267	94.6230
7.000	3.500	45.	100.349	96.849	104.986	94.500	96.7610
7.000	3.500	46.	102.576	99.076	107.246	96.733	99.0760
7.000	3.500	47.	104.802	101.302	109.500	98.966	101.2177
7.000	3.500	48.	107.029	103.529	111.752	101.199	103.5290
7.000	3.500	49.	109.255	105.755	113.998	103.425	105.6742
7.000	3.500	50.	111.482	107.982	116.240	105.658	107.9820
7.000	3.500	51.	113.709	110.209	118.478	107.891	110.1314
7.000	3.500	52.	115.935	112.435	120.706	110.117	112.4350
7.000	3.500	53.	118.162	114.662	122.630	112.350	114.5873
7.000	3.500	54.	120.389	116.889	124.832	114.583	116.8890
7.000	3.500	55.	122.616	119.116	127.030	116.816	119.0440
7.000	3.500	56.	124.843	121.343	128.818	119.042	121.3430
7.000	3.500	57.	127.070	123.570	130.960	121.275	123.5005
7.000	3.500	58.	129.297	125.797	133.070	123.501	125.7970
7.000	3.500	59.	131.524	128.024	135.146	125.734	127.9569
7.000	3.500	60.	133.751	130.251	137.140	127.967	130.2510

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# 6. SPROCKET WHEELS FOR SILENT CHAINS 60 DEGREE INVERTED TOOTH (ASA B29.2) MIL-STD-425

## a. DIAMETERS

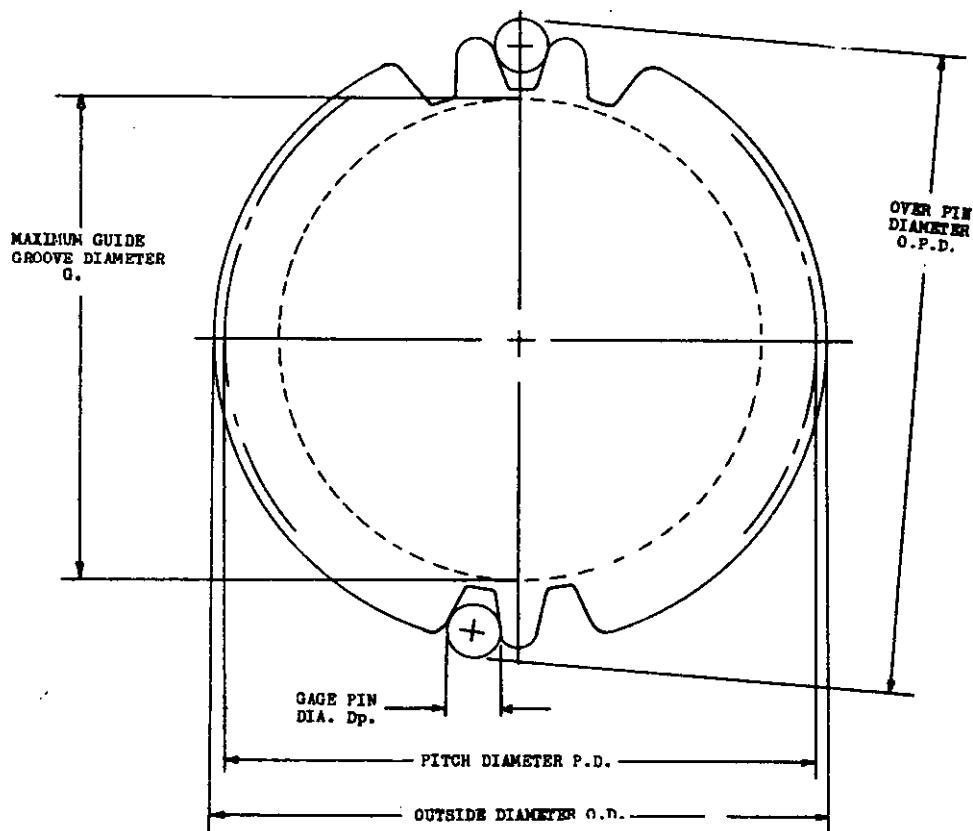


FIGURE 34 - DIAMETERS

$$PD = \frac{P}{\sin \frac{180^\circ}{N}}$$

$$Dp = 0.625P$$

$$OPD \text{ (For Even No. of Teeth)} = PD - 0.125P \csc \left( 30 - \frac{180^\circ}{N} \right) + 0.625P$$

$$OPD \text{ (For Odd No. of Teeth)} = \cos \frac{90^\circ}{N} \left\{ PD - 0.125P \csc \left( 30 - \frac{180^\circ}{N} \right) \right\} + 0.625P$$

$$OD \text{ (For Rounded Teeth)} = P \left( \cot \frac{180^\circ}{N} + 0.08 \right)$$

$$OD \text{ (For Square Teeth)} = 2 \sqrt{X^2 + L^2 - 2XL \cos \alpha}$$

$$\begin{cases} X = Y \cos \alpha - \sqrt{(0.15P)^2 - (Y \sin \alpha)^2} \\ Y = P (0.500 - 0.375 \sec \alpha) \cot \alpha + 0.11P \\ \text{WHERE } L = Y + \frac{E}{2} \text{ (See Fig. 35 for E)} \\ \alpha = \left( 30 - \frac{360^\circ}{N} \right) \end{cases}$$

$$G \text{ (max.)} = P \left( \cot \frac{180^\circ}{N} - 1.16 \right)$$

### LEGEND

P = Chain Pitch  
PD = Pitch Diameter  
OD = Outside Diameter  
Dp = Gage Pin Diameter  
N = Number of Teeth  
E = Diameter to Center of Topping Curve  
OPD = Over Pin Diameter  
G = Maximum Guide Groove Diameter

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## a. DIAMETERS CONTINUED

## SPROCKET DIAMETER TOLERANCES AND MAXIMUM HUB DIAMETERS

Tolerance for Outside Diameter of sprockets with square top teeth = plus 0.000; minus 0.050 x pitch (in.).

Tolerance for Guide Groove Diameter "G" = plus 0.000; minus 1/32 (in.).

Tolerance for Maximum Eccentricity (total indicator reading) Pitch Diameter with respect to Bore = 0.001 x PD (in.) but not less than 0.006 nor more than 0.032.

TABLE XIV - OVER PIN DIAMETER TOLERANCES (Inches)

All tolerances are negative. Tolerance =  $(0.004 + 0.001 \sqrt{PN})$ , Where P = Chain Pitch, N = Number of Teeth.

PITCH	Up to 15	16-24	25-35	36-48	49-63	64-80	81-99	100-120	121-143	144 up
3/8	0.005	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008
1/2	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.009	0.009	0.010
5/8	0.006	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.012
3/4	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.012	0.013	0.014
1	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.015	0.016
1-1/4	0.008	0.009	0.010	0.011	0.013	0.014	0.015	0.017	0.018	0.019
1-1/2	0.008	0.010	0.011	0.013	0.014	0.016	0.017	0.019	0.020	0.022
2	0.010	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.026	0.028

## FORMULAS FOR CALCULATING MAXIMUM HUB DIAMETERS (MHD)

$$\text{MHD (For Hobbed Teeth)} = P \left( \cot \frac{180^\circ}{N} - 1.33 \right)$$

$$\text{MHD (For Straddle Cut Teeth)} = P \left( \cot \frac{180^\circ}{N} - 1.25 \right)$$

MHD for other methods of cutting teeth may differ from the above.

TABLE XV - MAXIMUM HUB DIAMETER (Inches) 1 INCH PITCH SILENT CHAIN

For other chain pitches (3/8 pitch and larger) multiply these values by chain pitch.

NO. TEETH	HOB CUT	STRADDLE CUT	NO. TEETH	HOB CUT	STRADDLE CUT	NO. TEETH	HOB CUT	STRADDLE CUT
17	4.019	4.099	22	5.626	5.706	27	7.226	7.306
18	4.341	4.421	23	5.946	6.026	28	7.546	7.626
19	4.662	4.742	24	6.265	6.345	29	7.865	7.945
20	4.983	5.063	25	6.586	6.666	30	8.185	8.265
21	5.304	5.384	26	6.905	6.985	31	8.503	8.583

Teeth of sprockets up to and including 31 teeth should have a Rockwell hardness of C50 min.





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TABLE XVI - STANDARD DIAMETERS OF SPROCKETS, 1 INCH PITCH SILENT CHAIN

For other pitches (3/8 pitch and larger) multiply these values by pitch.

(For tolerances, see Table 14)

No. Teeth	Pitch Diameter	Outside Diameter		Over-Pin Dia.	Max. Guide Groove Dia.	Oage Pin Dia.
		Rounded* Teeth	Square** Teeth			
17	5.442	5.429	5.298	5.669	4.189	0.625
18	5.759	5.751	5.623	6.018	4.511	0.625
19	6.076	6.072	5.947	6.324	4.832	0.625
20	6.393	6.393	6.271	6.669	5.153	0.625
21	6.710	6.714	6.595	6.974	5.474	0.625
22	7.027	7.036	6.919	7.315	5.796	0.625
23	7.344	7.356	7.243	7.621	6.116	0.625
24	7.661	7.675	7.568	7.960	6.435	0.625
25	7.979	7.996	7.890	8.266	6.756	0.625
26	8.296	8.315	8.213	8.602	7.075	0.625
27	8.614	8.636	8.536	8.909	7.396	0.625
28	8.932	8.956	8.859	9.244	7.716	0.625
29	9.249	9.275	9.181	9.551	8.035	0.625
30	9.567	9.595	9.504	9.884	8.355	0.625
31	9.885	9.913	9.828	10.192	8.673	0.625
32	10.202	10.233	10.150	10.524	8.993	0.625
33	10.520	10.553	10.471	10.833	9.313	0.625
34	10.838	10.872	10.793	11.164	9.632	0.625
35	11.156	11.191	11.115	11.472	9.951	0.625
36	11.474	11.510	11.437	11.803	10.270	0.625
37	11.792	11.829	11.757	12.112	10.589	0.625
38	12.110	12.148	12.077	12.442	10.909	0.625
39	12.428	12.468	12.397	12.751	11.228	0.625
40	12.746	12.787	12.717	13.080	11.547	0.625
41	13.064	13.106	13.037	13.390	11.866	0.625
42	13.382	13.425	13.357	13.718	12.185	0.625
43	13.700	13.743	13.677	14.028	12.503	0.625
44	14.018	14.062	13.997	14.356	12.822	0.625
45	14.336	14.381	14.317	14.667	13.141	0.625
46	14.654	14.700	14.637	14.994	13.460	0.625
47	14.972	15.018	14.957	15.305	13.778	0.625
48	15.290	15.337	15.277	15.632	14.097	0.625
49	15.608	15.656	15.597	15.943	14.416	0.625
50	15.926	15.975	15.917	16.270	14.735	0.625
51	16.244	16.293	16.236	16.581	15.053	0.625
52	16.562	16.612	16.556	16.907	15.372	0.625
53	16.880	16.930	16.876	17.218	15.690	0.625
54	17.198	17.249	17.196	17.544	16.009	0.625
55	17.517	17.568	17.515	17.857	16.328	0.625
56	17.835	17.887	17.834	18.183	16.647	0.625
57	18.153	18.205	18.154	18.494	16.965	0.625
58	18.471	18.524	18.473	18.820	17.284	0.625
59	18.789	18.842	18.793	19.131	17.602	0.625
60	19.107	19.161	19.112	19.457	17.921	0.625
61	19.426	19.480	19.431	19.769	18.240	0.625
62	19.744	19.799	19.750	20.095	18.559	0.625
63	20.062	20.117	20.070	20.407	18.877	0.625
64	20.380	20.435	20.388	20.731	19.195	0.625
65	20.698	20.754	20.708	21.044	19.514	0.625
66	21.016	21.072	21.027	21.368	19.832	0.625
67	21.335	21.391	21.346	21.682	20.151	0.625
68	21.653	21.710	21.665	22.006	20.470	0.625
69	21.971	22.028	21.984	22.319	20.788	0.625
70	22.289	22.347	22.303	22.643	21.107	0.625
71	22.607	22.665	22.622	22.955	21.425	0.625
72	22.926	22.984	22.941	23.280	21.744	0.625
73	23.244	23.302	23.259	23.593	22.062	0.625
74	23.562	23.621	23.578	23.917	22.381	0.625
75	23.880	23.939	23.897	24.230	22.699	0.625
76	24.198	24.257	24.216	24.553	23.017	0.625
77	24.517	24.577	24.535	24.868	23.337	0.625
78	24.835	24.895	24.853	25.191	23.655	0.625
79	25.153	25.213	25.172	25.504	23.973	0.625

\* Blank diameters shall be 0.020 larger than finished diameters tabulated above.

\*\* Diameters given are maximum; all tolerances must be negative.

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TABLE XVI CONTINUED

No. Teeth	Pitch Diameter	Outside Diameter		Over-Pin Dia.	Max. Guide Groove Dia.	Gage Pin Dia.
		Rounded* Teeth	Square** Teeth			
80	25.471	25.531	25.491	25.828	24.291	0.625
81	25.790	25.851	25.809	26.141	24.611	0.625
82	26.108	26.169	26.128	26.465	24.929	0.625
83	26.426	26.487	26.447	26.778	25.247	0.625
84	26.744	26.805	26.766	27.101	25.565	0.625
85	27.063	27.125	27.084	27.415	25.885	0.625
86	27.381	27.443	27.403	27.739	26.203	0.625
87	27.699	27.761	27.722	28.052	26.521	0.625
88	28.017	28.079	28.040	28.375	26.839	0.625
89	28.335	28.397	28.359	28.689	27.157	0.625
90	28.654	28.716	28.678	29.013	27.476	0.625
91	28.972	29.035	28.997	29.327	27.795	0.625
92	29.290	29.353	29.315	29.649	28.113	0.625
93	29.608	29.671	29.634	29.963	28.431	0.625
94	29.926	29.989	29.953	30.285	28.749	0.625
95	30.245	30.308	30.271	30.601	29.068	0.625
96	30.563	30.627	30.590	30.923	29.387	0.625
97	30.881	30.945	30.909	31.237	29.705	0.625
98	31.199	31.263	31.228	31.559	30.023	0.625
99	31.518	31.582	31.546	31.874	30.342	0.625
100	31.836	31.900	31.865	32.196	30.660	0.625
101	32.154	32.218	32.183	32.511	30.978	0.625
102	32.473	32.537	32.502	32.834	31.297	0.625
103	32.791	32.856	32.820	33.148	31.616	0.625
104	33.109	33.174	33.139	33.470	31.934	0.625
105	33.427	33.492	33.457	33.784	32.252	0.625
106	33.746	33.811	33.776	34.107	32.571	0.625
107	34.064	34.129	34.094	34.422	32.889	0.625
108	34.382	34.447	34.413	34.744	33.207	0.625
109	34.701	34.767	34.731	35.059	33.527	0.625
110	35.019	35.084	35.050	35.381	33.844	0.625
111	35.337	35.403	35.368	35.695	34.163	0.625
112	35.655	35.721	35.687	36.017	34.481	0.625
113	35.974	36.040	36.005	36.333	34.800	0.625
114	36.292	36.358	36.324	36.654	35.118	0.625
115	36.610	36.676	36.642	36.969	35.436	0.625
116	36.929	36.995	36.961	37.292	35.755	0.625
117	37.247	37.313	37.279	37.606	36.073	0.625
118	37.565	37.632	37.598	37.928	36.392	0.625
119	37.883	37.950	37.916	38.243	36.710	0.625
120	38.201	38.268	38.235	38.564	37.028	0.625
121	38.519	38.586	38.553	38.879	37.346	0.625
122	38.837	38.904	38.872	39.200	37.664	0.625
123	39.156	39.223	39.190	39.516	37.983	0.625
124	39.475	39.542	39.508	39.839	38.302	0.625
125	39.794	39.861	39.827	40.154	38.621	0.625
126	40.112	40.180	40.145	40.476	38.940	0.625
127	40.430	40.497	40.464	40.790	39.257	0.625
128	40.748	40.816	40.782	41.112	39.576	0.625
129	41.066	41.134	41.100	41.427	39.894	0.625
130	41.384	41.452	41.419	41.748	40.212	0.625
131	41.702	41.770	41.738	42.063	40.530	0.625
132	42.020	42.088	42.056	42.384	40.848	0.625
133	42.338	42.406	42.374	42.699	41.166	0.625
134	42.656	42.724	42.693	43.020	41.484	0.625
135	42.975	43.043	43.011	43.336	41.803	0.625
136	43.293	43.362	43.329	43.657	42.122	0.625
137	43.611	43.679	43.647	43.972	42.439	0.625
138	43.930	43.998	43.966	44.295	42.758	0.625
139	44.249	44.317	44.284	44.611	43.077	0.625
140	44.567	44.636	44.603	44.932	43.396	0.625
141	44.885	44.954	44.922	45.247	43.714	0.625
142	45.203	45.271	45.240	45.568	44.031	0.625
143	45.521	45.590	45.558	45.883	44.350	0.625
144	45.840	45.909	45.877	46.205	44.669	0.625
145	46.158	46.227	46.195	46.520	44.987	0.625
146	46.477	46.546	46.514	46.842	45.306	0.625
147	46.796	46.865	46.832	47.159	45.625	0.625
148	47.114	47.183	47.151	47.479	45.943	0.625
149	47.432	47.501	47.469	47.795	46.261	0.625
150	47.750	47.819	47.787	48.116	46.579	0.625

\* Blank diameters shall be 0.020 larger than finished diameters tabulated above.

\*\* Diameters given are maximum; all tolerances must be negative.

## C. SPROCKET FACE PROFILES

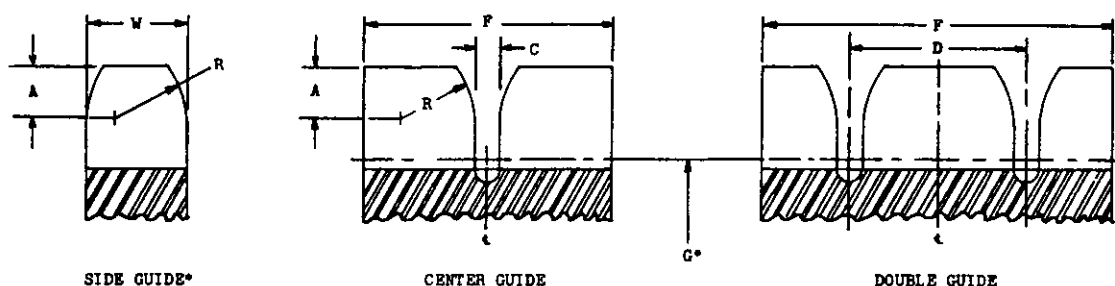


FIGURE 36 - SPROCKET PROFILES

\* Grooving tool may be either square or round end but groove must be full width down to diameter G. For values of G see Table 16.

All sprockets shall be marked with complete chain number and number of teeth. Example: SC304-25.

TABLE XVII - SPROCKET FACE DIMENSIONS

CHAIN NO.	CHAIN PITCH	TYPE	A	C ±0.005	D ±0.010	F +0.125 -0.000	R ±0.003	W +0.010 -0.000
SC302	3/8	Side Guide	0.133	...	...	...	0.200	0.410
SC303	3/8	Center Guide	0.133	0.100	...	0.750	0.200	...
SC304	3/8	Center Guide	0.133	0.100	...	1.000	0.200	...
SC305	3/8	Center Guide	0.133	0.100	...	1.250	0.200	...
SC306	3/8	Center Guide	0.133	0.100	...	1.500	0.200	...
SC307	3/8	Center Guide	0.133	0.100	...	1.750	0.200	...
SC308	3/8	Center Guide	0.133	0.100	...	2.000	0.200	...
SC309	3/8	Center Guide	0.133	0.100	...	2.250	0.200	...
SC310	3/8	Center Guide	0.133	0.100	...	2.500	0.200	...
SC312	3/8	Double Guide	0.133	0.100	1.000	3.000	0.200	...
SC316	3/8	Double Guide	0.133	0.100	1.000	4.000	0.200	...
SC320	3/8	Double Guide	0.133	0.100	1.000	5.000	0.200	...
SC324	3/8	Double Guide	0.133	0.100	1.000	6.000	0.200	...
SC402	1/2	Side Guide	0.133	...	...	...	0.200	0.410
SC403	1/2	Center Guide	0.133	0.100	...	0.750	0.200	...
SC404	1/2	Center Guide	0.133	0.100	...	1.000	0.200	...
SC405	1/2	Center Guide	0.133	0.100	...	1.250	0.200	...
SC406	1/2	Center Guide	0.133	0.100	...	1.500	0.200	...
SC407	1/2	Center Guide	0.133	0.100	...	1.750	0.200	...
SC408	1/2	Center Guide	0.133	0.100	...	2.000	0.200	...
SC409	1/2	Center Guide	0.133	0.100	...	2.250	0.200	...
SC410	1/2	Center Guide	0.133	0.100	...	2.500	0.200	...
SC411	1/2	Center Guide	0.133	0.100	...	2.750	0.200	...
SC412	1/2	Center Guide	0.133	0.100	...	3.000	0.200	...
SC414	1/2	Center Guide	0.133	0.100	...	3.500	0.200	...
SC416	1/2	Double Guide	0.133	0.100	1.000	4.000	0.200	...
SC420	1/2	Double Guide	0.133	0.100	1.000	5.000	0.200	...
SC424	1/2	Double Guide	0.133	0.100	1.000	6.000	0.200	...
SC432	1/2	Double Guide	0.133	0.100	1.000	8.000	0.200	...
SC504	5/8	Center Guide	0.177	0.125	...	1.000	0.250	...
SC505	5/8	Center Guide	0.177	0.125	...	1.250	0.250	...
SC506	5/8	Center Guide	0.177	0.125	...	1.500	0.250	...
SC507	5/8	Center Guide	0.177	0.125	...	1.750	0.250	...
SC508	5/8	Center Guide	0.177	0.125	...	2.000	0.250	...
SC510	5/8	Center Guide	0.177	0.125	...	2.500	0.250	...
SC512	5/8	Center Guide	0.177	0.125	...	3.000	0.250	...
SC516	5/8	Center Guide	0.177	0.125	...	4.000	0.250	...
SC520	5/8	Double Guide	0.177	0.125	2.000	5.000	0.250	...
SC524	5/8	Double Guide	0.177	0.125	2.000	6.000	0.250	...
SC528	5/8	Double Guide	0.177	0.125	2.000	7.000	0.250	...
SC532	5/8	Double Guide	0.177	0.125	2.000	8.000	0.250	...
SC540	5/8	Double Guide	0.177	0.125	2.000	10.000	0.250	...
SC604	3/4	Center Guide	0.274	0.180	...	1.000	0.360	...
SC605	3/4	Center Guide	0.274	0.180	...	1.250	0.360	...
SC606	3/4	Center Guide	0.274	0.180	...	1.500	0.360	...
SC608	3/4	Center Guide	0.274	0.180	...	2.000	0.360	...
SC610	3/4	Center Guide	0.274	0.180	...	2.500	0.360	...
SC612	3/4	Center Guide	0.274	0.180	...	3.000	0.360	...
SC614	3/4	Center Guide	0.274	0.180	...	3.500	0.360	...
SC616	3/4	Center Guide	0.274	0.180	...	4.000	0.360	...
SC620	3/4	Center Guide	0.274	0.180	...	5.000	0.360	...
SC624	3/4	Center Guide	0.274	0.180	...	6.000	0.360	...

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TABLE XVII CONTINUED

CHAIN NO.	CHAIN PITCH	TYPE	A	C ±0.005	D ±0.010	F +0.125 -0.000	R ±0.003	W +0.010 -0.000
SC628	3/4	Double Guide	0.274	0.180	4.000	7.000	0.360	...
SC632	3/4	Double Guide	0.274	0.180	4.000	8.000	0.360	...
SC636	3/4	Double Guide	0.274	0.180	4.000	9.000	0.360	...
SC640	3/4	Double Guide	0.274	0.180	4.000	10.000	0.360	...
SC648	3/4	Double Guide	0.274	0.180	4.000	12.000	0.360	...
SC808	1	Center Guide	0.274	0.180	...	2.000	0.360	...
SC810	1	Center Guide	0.274	0.180	...	2.500	0.360	...
SC812	1	Center Guide	0.274	0.180	...	3.000	0.360	...
SC816	1	Center Guide	0.274	0.180	...	4.000	0.360	...
SC820	1	Center Guide	0.274	0.180	...	5.000	0.360	...
SC824	1	Center Guide	0.274	0.180	...	6.000	0.360	...
SC828	1	Double Guide	0.274	0.180	4.000	7.000	0.360	...
SC832	1	Double Guide	0.274	0.180	4.000	8.000	0.360	...
SC836	1	Double Guide	0.274	0.180	4.000	9.000	0.360	...
SC840	1	Double Guide	0.274	0.180	4.000	10.000	0.360	...
SC848	1	Double Guide	0.274	0.180	4.000	12.000	0.360	...
SC856	1	Double Guide	0.274	0.180	4.000	14.000	0.360	...
SC864	1	Double Guide	0.274	0.180	4.000	16.000	0.360	...
SC1010	1 1/4	Center Guide	0.274	0.180	...	2.500	0.360	...
SC1012	1 1/4	Center Guide	0.274	0.180	...	3.000	0.360	...
SC1016	1 1/4	Center Guide	0.274	0.180	...	4.000	0.360	...
SC1020	1 1/4	Center Guide	0.274	0.180	...	5.000	0.360	...
SC1024	1 1/4	Center Guide	0.274	0.180	...	6.000	0.360	...
SC1028	1 1/4	Center Guide	0.274	0.180	...	7.000	0.360	...
SC1032	1 1/4	Double Guide	0.274	0.180	4.000	8.000	0.360	...
SC1036	1 1/4	Double Guide	0.274	0.180	4.000	9.000	0.360	...
SC1040	1 1/4	Double Guide	0.274	0.180	4.000	10.000	0.360	...
SC1048	1 1/4	Double Guide	0.274	0.180	4.000	12.000	0.360	...
SC1056	1 1/4	Double Guide	0.274	0.180	4.000	14.000	0.360	...
SC1064	1 1/4	Double Guide	0.274	0.180	4.000	16.000	0.360	...
SC1072	1 1/4	Double Guide	0.274	0.180	4.000	18.000	0.360	...
SC1080	1 1/4	Double Guide	0.274	0.180	4.000	20.000	0.360	...
SC1212	1 1/2	Center Guide	0.274	0.180	...	3.000	0.360	...
SC1216	1 1/2	Center Guide	0.274	0.180	...	4.000	0.360	...
SC1220	1 1/2	Center Guide	0.274	0.180	...	5.000	0.360	...
SC1224	1 1/2	Center Guide	0.274	0.180	...	6.000	0.360	...
SC1228	1 1/2	Center Guide	0.274	0.180	...	7.000	0.360	...
SC1232	1 1/2	Double Guide	0.274	0.180	4.000	8.000	0.360	...
SC1236	1 1/2	Double Guide	0.274	0.180	4.000	9.000	0.360	...
SC1240	1 1/2	Double Guide	0.274	0.180	4.000	10.000	0.360	...
SC1248	1 1/2	Double Guide	0.274	0.180	4.000	12.000	0.360	...
SC1256	1 1/2	Double Guide	0.274	0.180	4.000	14.000	0.360	...
SC1264	1 1/2	Double Guide	0.274	0.180	4.000	16.000	0.360	...
SC1272	1 1/2	Double Guide	0.274	0.180	4.000	18.000	0.360	...
SC1280	1 1/2	Double Guide	0.274	0.180	4.000	20.000	0.360	...
SC1288	1 1/2	Double Guide	0.274	0.180	4.000	22.000	0.360	...
SC1296	1 1/2	Double Guide	0.274	0.180	4.000	24.000	0.360	...
SC1616	2	Center Guide	0.274	0.218	...	4.000	0.360	...
SC1620	2	Center Guide	0.274	0.218	...	5.000	0.360	...
SC1624	2	Center Guide	0.274	0.218	...	6.000	0.360	...
SC1628	2	Center Guide	0.274	0.218	...	7.000	0.360	...
SC1632	2	Double Guide	0.274	0.218	4.000	8.000	0.360	...
SC1640	2	Double Guide	0.274	0.218	4.000	10.000	0.360	...
SC1648	2	Double Guide	0.274	0.218	4.000	12.000	0.360	...
SC1656	2	Double Guide	0.274	0.218	4.000	14.000	0.360	...
SC1664	2	Double Guide	0.274	0.218	4.000	16.000	0.360	...
SC1672	2	Double Guide	0.274	0.218	4.000	18.000	0.360	...
SC1680	2	Double Guide	0.274	0.218	4.000	20.000	0.360	...
SC1688	2	Double Guide	0.274	0.218	4.000	22.000	0.360	...
SC1696	2	Double Guide	0.274	0.218	4.000	24.000	0.360	...
SC16120	2	Double Guide	0.274	0.218	4.000	30.000	0.360	...

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## 7. ASA STANDARD INVERTED TOOTH (SILENT) CHAIN SPROCKET CUTTER DESIGN

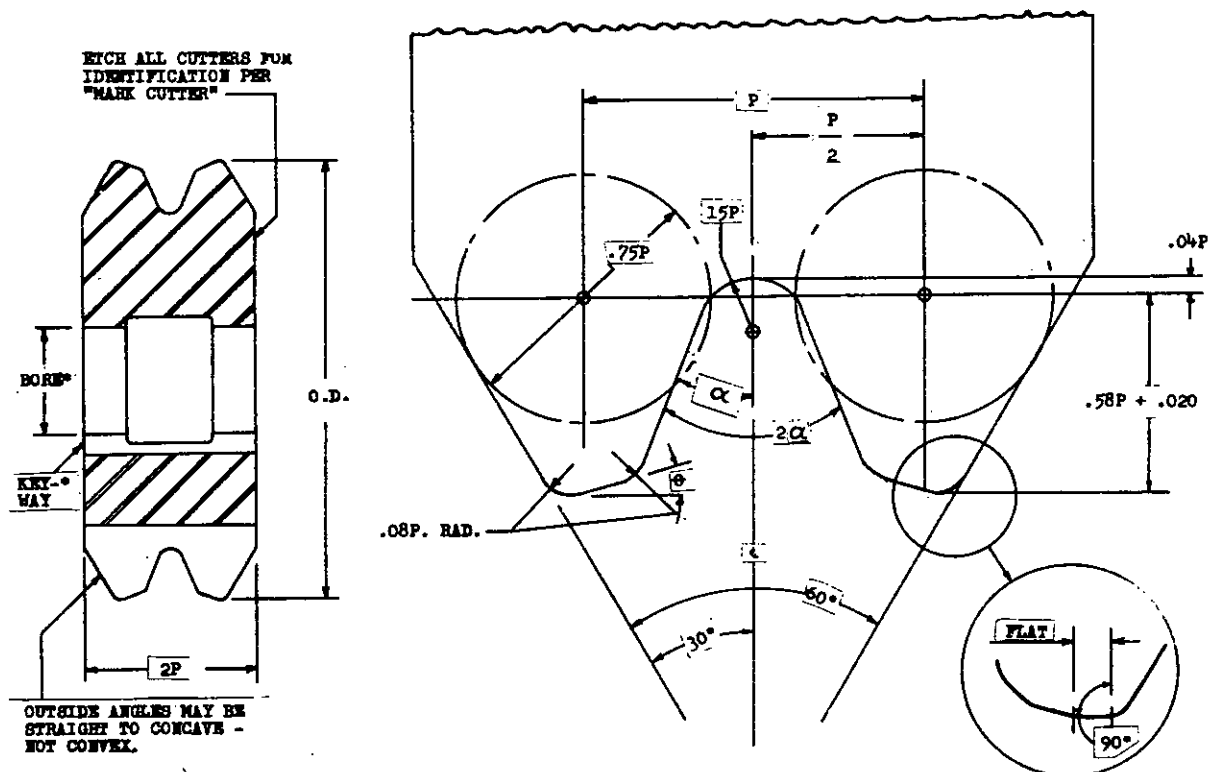


FIGURE 37 - CUTTER FORM

TABLE XVIII - CUTTER DATA

CHAIN PITCH P	MARK * CUTTER	OUTSIDE DIA.	.75P	$\alpha$	$\phi$	BORE **
0.375	SC3-15 thru 35 SC3-36 up	3.625	0.2813	22°-30' 27°-30'	12° 5°	1.250
0.500	SC4-15 thru 35 SC4-36 up	3.875	0.3750	22°-30' 27°-30'	12° 5°	1.250
0.625	SC5-15 thru 35 SC5-36 up	4.250	0.4688	22°-30' 27°-30'	12° 5°	1.250
0.750	SC6-15 thru 35 SC6-36 up	4.625	0.5625	22°-30' 27°-30'	12° 5°	1.250
1.000	SC8-15 thru 35 SC8-36 up	5.250	0.7500	22°-30' 27°-30'	12° 5°	1.500
1.250	SC10-15 thru 35 SC10-36 up	5.750	0.9375	22°-30' 27°-30'	12° 5°	1.500
1.500	SC12-15 thru 35 SC12-36 up	6.250	1.1250	22°-30' 27°-30'	12° 5°	1.750
2.000	SC16-15 thru 35 SC16-36 up	6.500	1.5000	22°-30' 27°-30'	12° 5°	1.750

\* Range of teeth is indicated in the cutter marking.

\*\* Bores other than standard must be specified.

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TABLE XIX - GENERATING DATA

Chain Pitch	Hob Number	Basic Number of Teeth	Tooth Range of Hob	Generating Diameter
SC3 = .375	1	20	17 - 23	2.311
	2	28	24 - 32	3.247
	3	38	33 - 43	4.428
	4	51	44 - 58	5.971
	5	69	59 - 79	8.114
	6	95	80 - 110	11.212
	7	130	111 - 150	15.385
SC4 = .500	1	20	17 - 23	3.082
	2	28	24 - 32	4.329
	3	38	33 - 43	5.904
	4	51	44 - 58	7.962
	5	69	59 - 79	10.818
	6	95	80 - 110	14.950
	7	130	111 - 150	20.513
SC5 = .625	1	20	17 - 23	3.852
	2	28	24 - 32	5.412
	3	38	33 - 43	7.381
	4	51	44 - 58	9.952
	5	69	59 - 79	13.522
	6	95	80 - 110	18.687
	7	130	111 - 150	25.641
SC6 = .750	1	20	17 - 23	4.623
	2	28	24 - 32	6.494
	3	38	33 - 43	8.857
	4	51	44 - 58	11.943
	5	69	59 - 79	16.227
	6	95	80 - 110	22.424
	7	130	111 - 150	30.770
SC8 = 1.000	1	20	17 - 23	6.163
	2	28	24 - 32	8.659
	3	38	33 - 43	11.809
	4	51	44 - 58	15.924
	5	69	59 - 79	21.636
	6	95	80 - 110	29.899
	7	130	111 - 150	41.026
SC10 = 1.250	1	20	17 - 23	7.704
	2	28	24 - 32	10.823
	3	38	33 - 43	14.761
	4	51	44 - 58	19.905
	5	69	59 - 79	27.045
	6	95	80 - 110	37.374
	7	130	111 - 150	51.283
SC12 = 1.500	1	20	17 - 23	9.245
	2	28	24 - 32	12.988
	3	38	33 - 43	17.713
	4	51	44 - 58	23.886
	5	69	59 - 79	32.454
	6	95	80 - 110	44.849
	7	130	111 - 150	61.539
SC16 = 2.000	1	20	17 - 23	12.327
	2	28	24 - 32	17.317
	3	38	33 - 43	23.618
	4	51	44 - 58	31.848
	5	69	59 - 79	43.272
	6	95	80 - 110	59.798
	7	130	111 - 150	82.052



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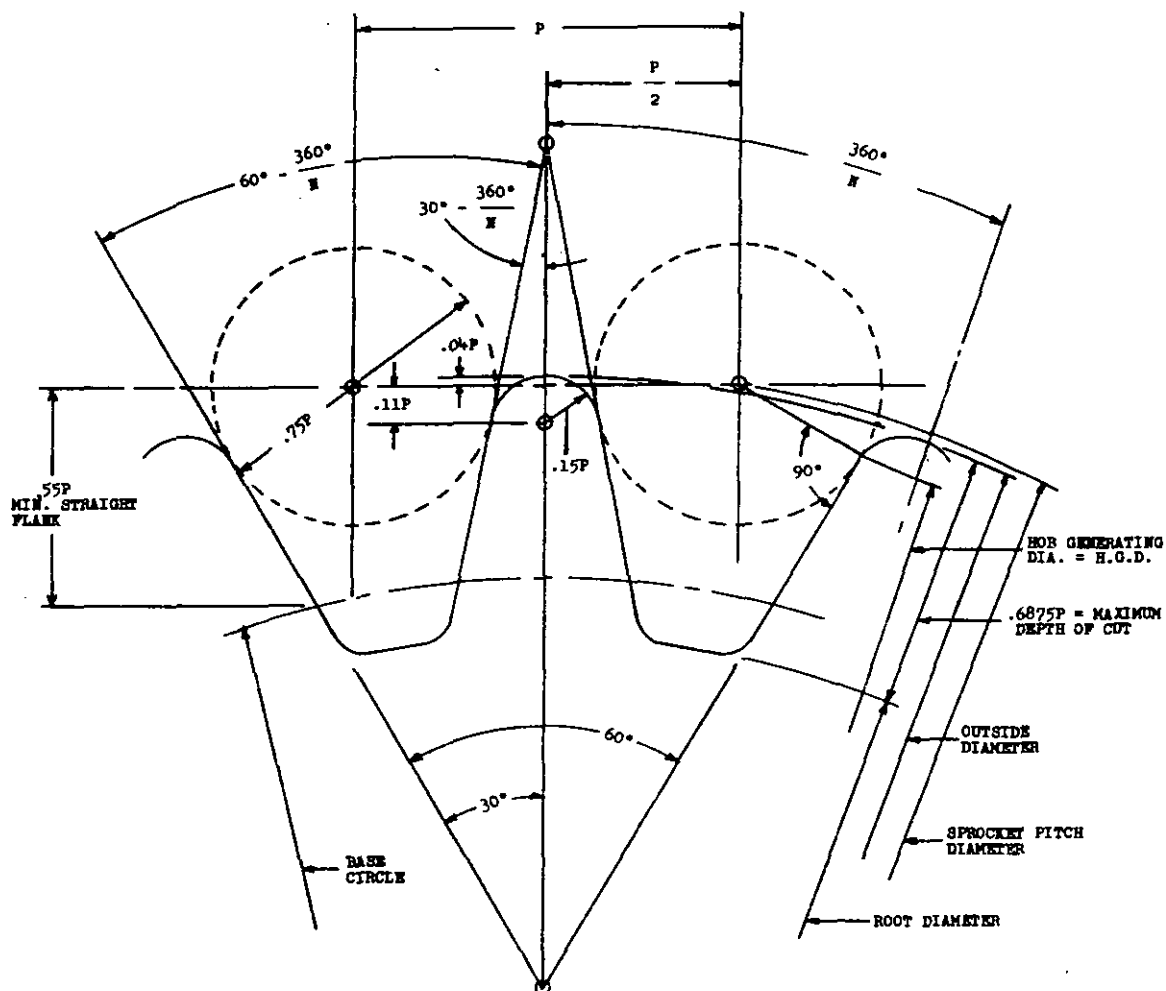


FIGURE 38 - HOB GENERATING CRITERIA

P = Chain Pitch  
N = Number Teeth

$$HGD = P \sqrt{\frac{1}{\sin^2 \frac{180^\circ}{N}} + .5625 - \frac{1.5 \sin \left(30 - \frac{180^\circ}{N}\right)}{\sin \frac{180^\circ}{N}}}$$

ALL HOBES MUST BE ETCHED FOR  
IDENTIFICATION AS SHOWN IN THE EXAMPLES

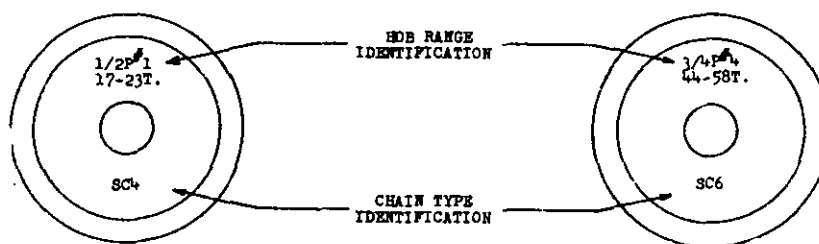


FIGURE 39 - HOB IDENTIFICATION

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## 8. ASA STANDARD ROLLER CHAIN SPROCKET CUTTER DESIGNS

Three kinds of sprocket cutters are used in cutting sprocket teeth for ASA chains B29.1, B29.3 and B29.4, namely:

- SPACE CUTTERS**, of which five will be required to cut from 7 teeth up for any given roller diameter. The ranges are respectively 7-8 teeth, 9-11 teeth, 12-17 teeth, 18-34 teeth, 35 teeth and over. Single-purpose cutters of this type are necessary for fewer than 7 teeth.
- HOBBS**, of which only one will be required, if non-topping, to cut any number of teeth for a given pitch and roller diameter. Refer to cutter manufacturer for cutter form.
- FELLOWS CUTTERS**, for use on the Fellows gear shaper, of which only one will be required, if non-topping, to cut 12 teeth and over for a given pitch and roller diameter. When sprockets of less than 12 teeth are to be produced on Fellows equipment consult the cutter manufacturer.

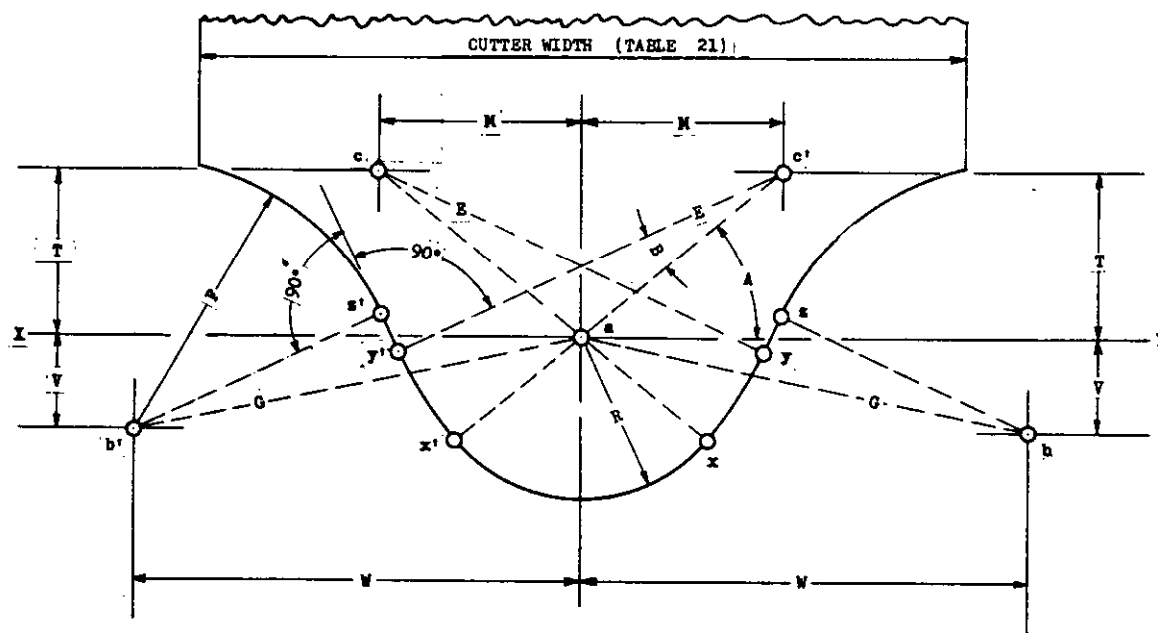
### a. STANDARD SPACE CUTTER DESIGN

Space cutters are made for the following ranges of teeth: 7-8, 9-11, 12-17, 18-34, 35 and over. The lowest number of teeth in any group is designated by  $N_1$  and the highest by  $N_2$ .

The cutters are based on an intermediate number of teeth,  $N_a$  equal to  $2N_1(N_2) \div (N_1 + N_2)$ ; but the topping curve radius ( $F$ ) is designed to produce adequate tooth height on a sprocket of  $N_2$  teeth with

$$OD = P(0.7 + \cot \frac{180^\circ}{N_2}).$$

The values of  $N_a$  for the several cutters are 7.47, 9.9, 14.07, 23.54 and 56.



NOTE:  $D_r = D = \text{Roller Diameter}$

FIGURE 40 - SPACE CUTTER LAYOUT

CONSTRUCTION REF: TABLE 1 PAGE 7, AND TABLE 20

The angle  $Yab$  is  $180^\circ/N$  when the cutter is made for a specific number of teeth; but it has values (determined by layout of a sprocket of  $N_2$  teeth with  $OD = P(0.7 + \cot \frac{180^\circ}{N_2})$ , as given in Table 20 for cutters

covering a range of teeth as here designed. The following formulas are special for cutters covering the standard ranges of teeth ( $N_a$  = intermediate values from above):

$$W = 1.4D_r \cos Yab; \quad V = 1.4D_r \sin Yab.$$

$$yz = D_r \left[ 1.4 \sin \left( 17^\circ + \frac{116^\circ}{N_a} - Yab \right) - 0.8 \sin \left( 18^\circ - \frac{56^\circ}{N_a} \right) \right]$$

$$F = D_r \left[ 0.8 \cos \left( 18^\circ - \frac{56^\circ}{N_a} \right) + 1.4 \cos \left( 17^\circ + \frac{116^\circ}{N_a} - Yab \right) - 1.3025 \right] - 0.0015.$$

For other points use the value of  $N_a$  for  $N$  in the standard formulas for Standard tooth form.

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TABLE XX - CONSTRUCTION DATA FOR SPACE CUTTER LAYOUT

Teeth Range	M	T	W	V	F	Chord xy	yz	Angle Yab
7-8	0.5848D <sub>r</sub>	0.5459D <sub>r</sub>	1.2790D <sub>r</sub>	0.5694D <sub>r</sub>	0.8686D <sub>r</sub> -0.0015	0.2384D <sub>r</sub> +0.0003*	.0618D <sub>r</sub>	24°
9-11	0.6032D <sub>r</sub>	0.5255D <sub>r</sub>	1.3302D <sub>r</sub>	.4365D <sub>r</sub>	0.8554D <sub>r</sub> -0.0015	0.28D <sub>r</sub> +0.0003	.0853D <sub>r</sub>	18° 10'
12-27	0.6194D <sub>r</sub>	0.5063D <sub>r</sub>	1.3694D <sub>r</sub>	.2911D <sub>r</sub>	0.8364D <sub>r</sub> -0.0015	0.3181D <sub>r</sub> +0.0004	.1269D <sub>r</sub>	12°
18-34	0.6343D <sub>r</sub>	0.4875D <sub>r</sub>	1.3947D <sub>r</sub>	.1220D <sub>r</sub>	0.8073D <sub>r</sub> -0.0015	0.354D <sub>r</sub> +0.0004	.1922D <sub>r</sub>	5°
35 up	0.6466D <sub>r</sub>	0.4710D <sub>r</sub>	1.4000D <sub>r</sub>	0	0.7857D <sub>r</sub> -0.0015	0.385D <sub>r</sub> +0.0004	.2235D <sub>r</sub>	0°

E (same for all ranges) = 1.3025 D<sub>r</sub> + 0.0015.  
 G (same for all ranges) = 1.4 D<sub>r</sub>.

TABLE XXI - RECOMMENDED SPACE CUTTER SIZES FOR ROLLER CHAIN SPROCKETS

Chain Pitch	Roll. Diam.	Cutter Diameter							Cutter Width							Dia. of Hole
		6T	7-8T	9-11T	12-17T	18-34T	35T and over		6T	7-8T	9-11T	12-17T	18-34T	35T and over		
1/4	0.130	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	5/16	5/16	5/16	5/16	5/16	9/32	9/32	1----	
3/8	0.200	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	15/32	15/32	15/32	15/32	7/16	7/16	13/32	1----	
1/2	0.313	3----	3----	3-1/8	3-1/8	3-1/8	3-1/8	3/4	3/4	3/4	3/4	3/4	23/32	11/16	1----	
5/8	0.400	3-1/8	3-1/8	3-1/4	3-1/4	3-1/4	3-1/4	3/4	3/4	3/4	3/4	3/4	23/32	11/16	1----	
3/4	0.469	3-1/4	3-1/4	3-3/8	3-3/8	3-3/8	3-3/8	29/32	29/32	29/32	29/32	7/8	27/32	13/16	1----	
1----	0.625	3-7/8	4----	4-1/8	4-1/8	4-1/4	4-1/4	1-1/2	1-1/2	1-1/2	1-15/32	1-15/32	1-13/32	1-11/32	1-1/4	
1-1/4	0.750	4-1/4	4-3/8	4-1/2	4-1/2	4-5/8	4-5/8	1-13/16	1-13/16	1-25/32	1-3/4	1-11/16	1-11/16	1-5/8	1-1/4	
1-1/2	0.875	4-3/8	4-1/2	4-5/8	4-5/8	4-3/4	4-3/4	1-13/16	1-13/16	1-25/32	1-3/4	1-11/16	1-11/16	1-5/8	1-1/4	
1-3/4	1.000	5----	5-1/8	5-1/4	5-3/8	5-1/2	5-1/2	2-3/32	2-3/32	2-1/16	2-1/32	2-1/32	1-31/32	1-7/8	1-1/2	
2----	1.125	5-3/8	5-1/2	5-5/8	5-3/4	5-7/8	5-7/8	2-13/32	2-13/32	2-3/8	2-5/16	2-1/4	2-5/16	2-5/32	1-1/2	
2-1/4	1.406	5-7/8	6----	6-1/4	6-3/8	6-1/2	6-1/2	2-11/16	2-11/16	2-21/32	2-19/32	2-15/32	2-15/32	2-13/32	1-1/2	
2-1/2	1.563	6-3/8	6-5/8	6-3/4	6-7/8	7----	7-1/8	3----	3----	2-15/16	2-29/32	2-29/32	2-3/4	2-11/16	1-3/4	
3----	1.875	7-1/2	7-3/4	7-7/8	8----	8----	8-1/4	3-19/32	3-19/32	3-17/32	3-15/32	3-11/32	3-11/32	3-7/32	2----	

TABLE XXII - ROLLER CHAIN SPROCKET HOBBS

CHAIN			HOB (RECOMMENDED DIMENSIONS)							
No.	Pitch	Roller Dia.	Hob Pitch P <sub>n</sub>	H	E	Outside Dia. OD	Width W	Bore	Keyway	No. of Flutes
25	1/4	.130	0.2527	0.0675	0.0075	2-5/8	2-1/2	1.250	1/4 x 1/8	13
35	3/8	.200	0.379	0.101	0.012	3-1/8	2-1/2	1.250	1/4 x 1/8	13
40	1/2	.313	0.506	0.135	0.015	3-3/8	2-1/2	1.250	1/4 x 1/8	12
50	5/8	.400	0.632	0.170	0.018	3-5/8	2-1/2	1.250	1/4 x 1/8	12
60	3/4	.469	0.759	0.202	0.023	3-3/4	2-7/8	1.250	1/4 x 1/8	11
80	1	.625	1.011	0.270	0.030	4-3/8	3-3/4	1.250	1/4 x 1/8	11
100	1-1/4	.750	1.264	0.337	0.038	4-3/4	4-1/2	1.250	1/4 x 1/8	10
120	1-1/2	.875	1.517	0.405	0.045	5-3/8	5-1/4	1.250	1/4 x 1/8	10
140	1-3/4	1.000	1.770	0.472	0.053	6-3/8	6	1.500	3/8 x 3/16	9
160	2	1.125	2.022	0.540	0.060	6-7/8	6-3/4	1.500	3/8 x 3/16	9
180	2-1/4	1.406	2.275	0.607	0.068	8	8-1/2	1.750	3/8 x 3/16	8
200	2-1/2	1.563	2.528	0.675	0.075	8-5/8	9-3/8	1.750	3/8 x 3/16	8
240	3	1.875	3.033	0.810	0.090	9-3/4	11-1/4	2.000	1/2 x 3/16	8

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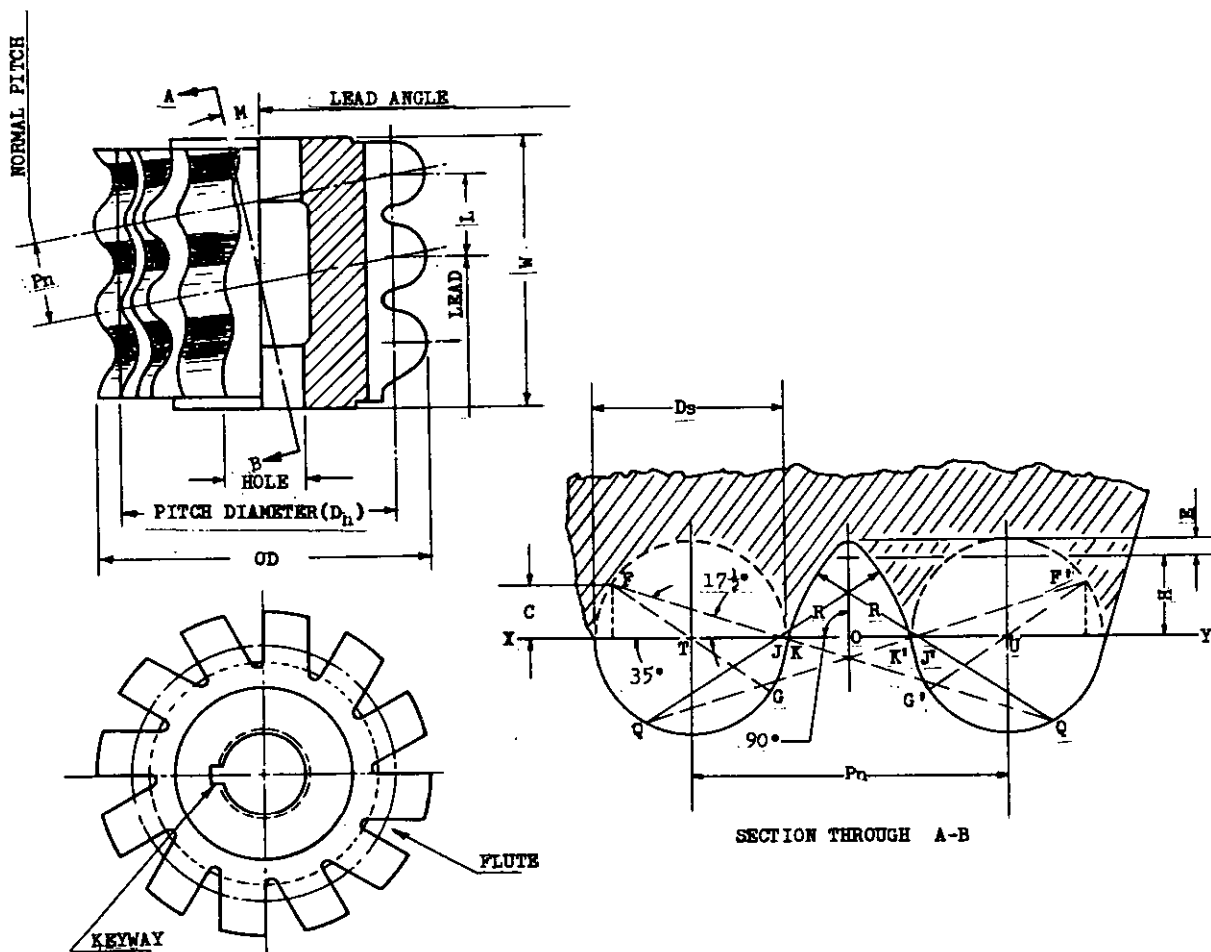


FIGURE 41 - HOB OUTLINE

CONSTRUCTION REF: TABLE 1 PAGE 7, AND TABLE 22 PAGE 85

b. RECOMMENDED HOB DESIGN FOR ROLLER CHAIN SPROCKETS

Hobs designed for a given roller diameter ( $D_r$ ) and chain pitch ( $P$ ) will cut any number of teeth.

$P$  = Chain Pitch       $P_n$  = Normal Pitch of Hob =  $1.011 P$ .

$D_s$  = Minimum Diameter of Seating Curve =  $1.005 D_r + 0.003$ .

$F$  = Radius Center for Arc GK;       $TO = OU = \frac{P_n}{2}$

$I = 0.27P$ ;       $E = 0.03P$  = Radius of Fillet Circle

$Q$  is located on line passing thru  $F$  and  $J$ . Point  $J$  is intersection of line  $XY$  with circle of diameter  $D_s$ .

$R$  is found by trial and is tangent to arc  $KG$  at  $K$  and to fillet radius.

$OD = 1.7 (Bore + D_r + 0.7 P)$  approximately.

$D_h = OD - D_s$ ;       $M = \sin^{-1} \frac{P_n}{\pi D_h}$ ;       $L = \frac{P_n}{\cos M}$ ;       $W$  = Not less than  $2 \times$  bore, or  $6 D_r$ , or  $3.2 P$ .

Marking of Hobs: All hobs are to be marked with chain pitch, roller diameter, lead angle, and flute lead.

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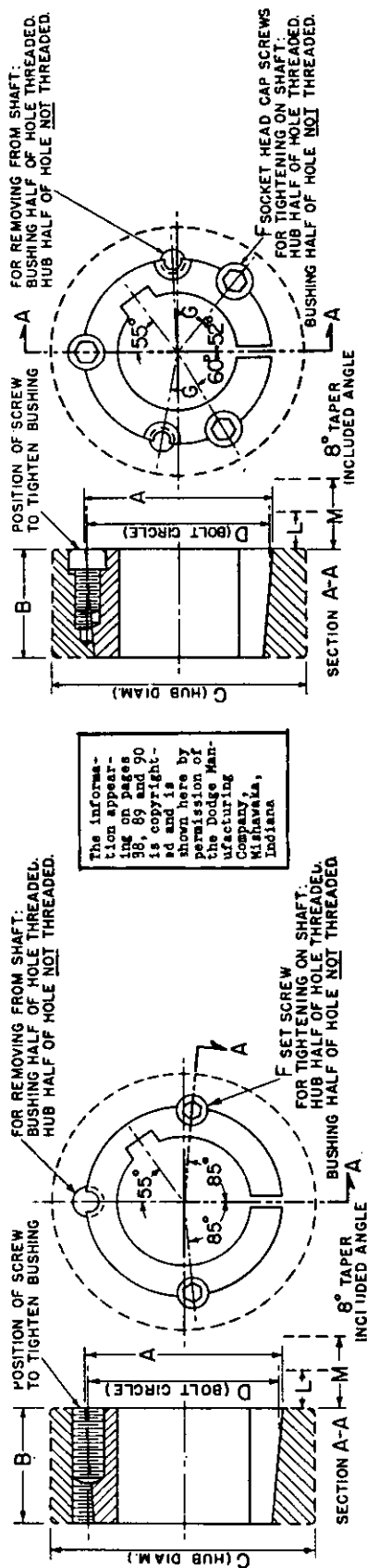
TABLE XXIII - MINUS TOLERANCES ON THE BOTTOM (ROOT) DIAMETERS OF SPROCKETS

NOTE: There are no plus tolerances.

TYPE DESIG- NATION	CHAIN PITCH	UP THRU 15	16 THRU 24	25 THRU 35	36 THRU 48	49 THRU 63	64 THRU 80	81 THRU 99	100 THRU 120	121 THRU 144	144 UP
1	1/4	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.006	0.006	0.006
1 2 3	3/8	0.004 0.031 0.031	0.004 0.031 0.031	0.004 0.031 0.031	0.005 0.031 0.031	0.005 0.031 0.031	0.006 0.047 0.047	0.006 0.047 0.047	0.006 0.047 0.047	0.007 0.047 0.047	0.007 0.047 0.047
1 2 3	1/2	0.004 0.031 0.031	0.005 0.031 0.031	0.005 0.031 0.031	0.006 0.047 0.047	0.006 0.047 0.047	0.007 0.047 0.047	0.007 0.047 0.047	0.008 0.047 0.047	0.008 0.047 0.047	0.009 0.047 0.047
1 2 3	5/8	0.005 0.031 0.031	0.005 0.031 0.031	0.006 0.047 0.047	0.007 0.047 0.047	0.008 0.047 0.047	0.009 0.063 0.063	0.009 0.063 0.063	0.009 0.063 0.063	0.010 0.063 0.063	0.011 0.063 0.063
1 2 3	3/4	0.005 0.031 0.031	0.006 0.047 0.047	0.007 0.047 0.047	0.008 0.047 0.047	0.009 0.063 0.063	0.010 0.063 0.063	0.010 0.063 0.063	0.011 0.063 0.063	0.012 0.078 0.078	0.013 0.078 0.078
1 2 3	1----	0.006 0.047 0.047	0.007 0.047 0.047	0.008 0.047 0.047	0.009 0.063 0.063	0.010 0.063 0.063	0.011 0.063 0.063	0.012 0.078 0.078	0.013 0.078 0.078	0.014 0.078 0.078	0.015
1 2 3	1-1/4	0.007 0.047 0.047	0.008 0.047 0.047	0.009 0.063 0.063	0.010 0.063 0.063	0.012 0.078 0.078	0.013 0.078 0.078	0.014 0.078 0.078	0.016 0.094 0.094	0.017 0.094 0.094	0.018
1 2 3	1-1/2	0.007 0.047 0.047	0.009 0.063 0.063	0.010 0.063 0.063	0.012 0.078 0.078	0.013 0.078 0.078	0.015 0.094 0.094	0.016 0.094 0.094	0.018 0.109 0.109	0.019 0.109 0.109	0.021
1 2 3	1-3/4	0.008 0.047 0.047	0.010 0.063 0.063	0.012 0.078 0.078	0.013 0.078 0.078	0.015 0.094 0.094	0.017 0.109 0.109	0.019 0.109 0.109	0.020	0.022	0.024
1 2 3	2----	0.009 0.063 0.063	0.011 0.063 0.063	0.013 0.078 0.078	0.015 0.094 0.094	0.017 0.109 0.109	0.019 0.109 0.109	0.021	0.023	0.025	0.027
1 2 3	2-1/4	0.010 0.063 0.063	0.012 0.078 0.078	0.014 0.078 0.078	0.016 0.094 0.094	0.018 0.109 0.109	0.021 0.125 0.125	0.023	0.025	0.028	0.030
1 2 3	2-1/2	0.010 0.063 0.063	0.013 0.078 0.078	0.015 0.094 0.094	0.018 0.109 0.109	0.020 0.125 0.125	0.023	0.025	0.028	0.030	0.033
1 2 3	3----	0.012 0.078 0.078	0.015 0.094 0.094	0.018 0.109 0.109	0.021 0.125 0.125	0.024	0.027	0.030	0.033	0.036	0.039
1 2 3	3-1/2	0.094 0.094	0.125 0.125								
1 2 3	4----	0.015 0.094 0.094	0.019 0.125 0.125	0.023	0.027	0.031					
1 2 3	4-1/2	0.094 0.094	0.125 0.125								
1 2 3	5----	0.094 0.094	0.125 0.125								
1 2 3	6----	0.094 0.094	0.125 0.125								
1 2 3	7----	0.094 0.094	0.125 0.125								

Line 1 - Cut Tooth Sprockets, Grade A  
 Line 2 - Cast Tooth Sprockets, Grade B  
 Line 3 - Burned Tooth Sprockets, Grade C

See Table 14 for Tolerances for Inverted Tooth Silent Chains.

FIGURE 43 - TAPER-LOCK BUSHING  
REF. TABLE NO. 26TABLE XXIV  
No. 1008 TO 1615 TAPER-LOCK BUSHINGS

BUSHING NUMBER	AVAILABLE BORES	A	B	C*****			D	F ***	BUSHING KEYSEAT	SHAFT KEYSEAT	WT. LBS.	L****		M*****	
				CAST IRON	SEMI STEEL	STEEL						STD. HEX KEY	SHORT KEY	STD. HEX KEY	SHORT KEY
1008	1/2 to 9/16 5/8 to 7/8 15/16 to 1	1.386	7/8	2-3/8	2-3/16	1-15/16	1-21/64	1/4 x 1/2	1/8 x 1/16 3/16 x 3/32 1/4 x 1/16*	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8	.27 .21 .16	1-1/8	5/8	1-1/4	3/4
1108	1/2 to 9/16 5/8 to 7/8 15/16 to 1 1-1/16 to 1-1/8	1.511	7/8	2-1/2	2-5/16	2-1/16	1-29/64	1/4 x 1/2	1/8 x 1/16 3/16 x 3/32 1/4 x 1/16*	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8	.33 .27 .22 .17	1-1/8	5/8	1-1/4	3/4
1210	1/2 to 9/16 5/8 to 7/8 15/16 to 1-1/4	1-7/8	1----	3-5/8	3-1/4	2-7/8	1-3/4	3/8 x 5/8	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8	.61 .55 .49	1-3/8	13/16	1-5/8	1-1/16
1215	1/2 to 9/16 5/8 to 7/8 15/16 to 1-1/4	1-7/8	1-1/2	3-1/8	2-7/8	2-5/8	1-3/4	3/8 x 5/8	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8	.80 .70 .60	1-3/8	13/16	1-5/8	1-1/16
1310	1/2 to 9/16 5/8 to 7/8 15/16 to 1-1/4 1-5/16 to 1-1/8 1-5/16 to 1-3/8 1-7/16 to 1-1/2 1-9/16 to 1-5/8	2-----	1-----	3-3/4	3-3/8	3-----	1-7/8	3/8 x 5/8	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8 5/16 x 3/32*	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8 5/16 x 5/32	.7 .6 .6 .6 .5	1-3/8	13/16	1-5/8	1-1/16
1610	1/2 to 9/16 5/8 to 7/8 15/16 to 1-1/4 1-5/16 to 1-3/8 1-7/16 to 1-1/2 1-9/16 to 1-5/8	2-1/4	1-----	4-----	3-5/8	3-1/4	2-1/8	3/8 x 5/8	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8 5/16 x 3/32 3/8 x 1/8*	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8 5/16 x 5/32 3/8 x 3/16	.8 .7 .7 .6 .5	1-3/8	13/16	1-5/8	1-1/16
1615	1/2 to 9/16 5/8 to 7/8 15/16 to 1-1/4 1-5/16 to 1-3/8 1-7/16 to 1-1/2 1-9/16 to 1-5/8	2-1/4	1-1/2	3-1/2	3-1/4	3-----	2-1/8	3/8 x 5/8	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8 5/16 x 3/32 3/8 x 1/8*	1/8 x 1/16 3/16 x 3/32 1/4 x 1/8 5/16 x 5/32 3/8 x 3/16	1.2 1.1 1.0 .9 .6	1-3/8	13/16	1-5/8	1-1/16

\*\*\*\*\*KEY FORMED FOR THESE SIZES ONLY.

\*\*\*\*\*STANDARD HEX KEY CUT TO MINIMUM USABLE LENGTH.

\*\*\*\*\*2 OR 3 SCREWS DEPENDING UPON BUSHING USED. USE IN POSITIONS SHOWN FOR TIGHTENING BUSHING ON SHAFT. IN REMOVING BUSHING FROM SHAFT REMOVE SCREWS AND USE FROM IN OTHER HOLES.

\*\*\*\*\*SPACE REQUIRED TO TIGHTEN BUSHING. ALSO SPACE REQUIRED TO LOOSEN SCREWS TO PERMIT REMOVAL OF HUB BY PULLER.

\*\*\*\*\*SPACE REQUIRED TO REMOVE BUSHING USING THE SCREWS AS JACKSCREWS - NO PULLER REQUIRED.

\*\*\*\*\*FOR GENERAL REFERENCE. SEVERAL CONDITIONS MAY REQUIRE LARGER HUB. HEAVY WELL LOCATED WEI MAY PERMIT SMALLER HUB. HUB DIAMETER REQUIRED DEPENDS UPON THE PARTICULAR APPLICATION. HUB DIAMETERS SHOWN ARE BASED ON 20,000, 30,000 AND 50,000 PSI MINIMUM TENSILE STRENGTH RESPECTIVELY FOR CAST IRON, SEMI-STEEL AND STEEL HUBS.



TABLE XIV  
No. 2012 to 3030 TAPER-LOCK BUSHINGS

BUSHING NUMBER	AVAILABLE BORES	A	B	C*****			D	P ***	BUSHING KEYS	SHAFT KEYS	WT. LBS.	L****			M*****	0
				CAST IRON	SMALL STEEL	STEEL						STD. KEY	KEY	KEY	STD. KEY	
2012	1/2 to 9/16	2-3/4	1-1/4				2-5/8	7/16 x 7/8	1/8 x 1/16	1/8 x 1/16	1.7		1-9/16	15/16	2-----	1-3/8
	5/8 to 7/8								3/16 x 3/32	3/16 x 3/32	1.6					
	15/16 to 1-1/4								1/4 x 1/8	1/4 x 1/8	1.5					
	1-5/16 to 1-3/8								5/16 x 5/32	5/16 x 5/32	1.4					
	1-7/16 to 1-3/4								3/8 x 3/16	3/8 x 3/16	1.2					
2517	1-13/16 to 1-7/8								1/2 x 1/4	1/2 x 1/4	1.0					
	1-15/16 to 2-----								1/2 x 3/16*	1/2 x 3/16*	1.0					
	1/2 to 9/16								1/8 x 1/16	1/8 x 1/16	3.5					
	5/8 to 7/8								3/16 x 3/32	3/16 x 3/32	3.4					
	15/16 to 1-1/4								1/4 x 1/8	1/4 x 1/8	3.3					
2525	1-5/16 to 1-3/8	3-3/8	1-3/4				3-1/4	1/2 x 1	5/16 x 5/32	5/16 x 5/32	3.0		1-5/8	1-----	2-1/4	1-5/8
	1-7/16 to 1-3/4								3/8 x 3/16	3/8 x 3/16	2.4					
	1-13/16 to 2-1/4								1/2 x 1/4	1/2 x 1/4	1.9					
	2-5/16 to 2-1/2								5/8 x 3/16*	5/8 x 3/16*	1.9					
	3/4 to 7/8								3/16 x 3/32	3/16 x 3/32	4.9					
3020	15/16 to 1-1/4	3-3/8	2-1/2				3-1/4	1/2 x 1	5/16 x 5/32	5/16 x 5/32	4.7		1-5/8	1-----	2-1/4	1-5/8
	1-5/16 to 1-3/8								3/8 x 3/16	3/8 x 3/16	4.5					
	1-7/16 to 1-3/4								1/2 x 1/4	1/2 x 1/4	4.2					
	1-13/16 to 2-1/4								5/8 x 3/16	5/8 x 3/16	3.5					
	2-5/16 to 2-1/2								3/4 x 1/4*	3/4 x 1/4*	6.5					
3030	15/16 to 1-1/4	4-1/4	3-----				4-----	5/8 x 1-1/4	5/16 x 5/32	5/16 x 5/32	6.3		1-13/16	1-3/16	2-11/16	2-1/16
	1-5/16 to 1-3/8								3/8 x 3/16	3/8 x 3/16	6.0					
	1-7/16 to 1-3/4								1/2 x 1/4	1/2 x 1/4	5.3					
	1-13/16 to 2-1/4								5/8 x 3/16	5/8 x 3/16	4.5					
	2-5/16 to 2-1/2								3/4 x 1/4*	3/4 x 1/4*	9.2		1-13/16	1-3/16	2-11/16	2-1/16

No. 3535 to 5050 TAPER-LOCK BUSHINGS

3535	1-3/16 to 1-1/4	5-----	3-1/2				4.83	1/2 x 1-1/2	1/4 x 1/8	1/4 x 1/8	14		2-----	1-5/16	3-3/8	2-11/16	39°
	1-5/16 to 1-3/8								5/16 x 5/32	5/16 x 5/32	14						
	1-7/16 to 1-3/4								3/8 x 3/16	3/8 x 3/16	13						
	1-13/16 to 2-1/4								1/2 x 1/4	1/2 x 1/4	11						
	2-5/16 to 2-1/2								5/8 x 3/16	5/8 x 3/16	8						
4040	1-7/16 to 1-3/4	5-3/4	4-----				5.54	5/8 x 1-3/4	3/8 x 3/16	3/8 x 3/16	22		2-3/8	1-5/8	4-1/8	3-3/8	40°
	1-13/16 to 2-1/4								1/2 x 1/4	1/2 x 1/4	21						
	1-5/16 to 1-3/8								5/16 x 5/32	5/16 x 5/32	19						
	1-7/16 to 1-3/4								3/8 x 3/16	3/8 x 3/16	17						
	2-5/16 to 2-1/2								1/2 x 1/4	1/2 x 1/4	16						
4545	1-15/16 to 2-1/4	6-3/8	4-1/2				6.13	3/4 x 2-----	3/8 x 3/16	3/8 x 3/16	30		2-5/8	1-15/16	4-3/4	4-1/16	40°
	1-13/16 to 2-1/4								5/8 x 5/16	5/8 x 5/16	28						
	1-7/16 to 1-3/8								3/4 x 3/16	3/4 x 3/16	25						
	1-5/16 to 1-3/4								1/2 x 1/4	1/2 x 1/4	23						
	2-5/16 to 2-1/2								5/8 x 3/16*	5/8 x 3/16*	18						
5050	1-15/16 to 2-1/4	7-----	5-----				6.72	7/8 x 2-1/4	5/8 x 5/16	5/8 x 5/16	38		2-13/16	2-5/16	5-1/4	4-13/16	39°
	1-13/16 to 2-1/4								3/4 x 3/16	3/4 x 3/16	35						
	1-7/16 to 1-3/8								5/8 x 5/16	5/8 x 5/16	32						
	1-5/16 to 1-3/4								3/4 x 3/16	3/4 x 3/16	27						
	2-5/16 to 2-1/2								5/8 x 3/16*	5/8 x 3/16*	24						

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TABLE XXVI  
SLIPPING TORQUE CAPACITY OF TAPER-LOCK BUSHINGS

BUSHING NO.	RECOMMENDED WRENCH TORQUE ON BUSHING SCREWS (POUND-INCHES)	SHAFT DIA. (INCHES)	AVERAGE* SLIPPING TORQUE ON SHAFTING WITHOUT SHAFT KEY (PD-INS)	BUSHING NO.	RECOMMENDED WRENCH TORQUE ON BUSHING SCREWS (POUND-INCHES)	SHAFT DIA. (INCHES)	AVERAGE* SLIPPING TORQUE ON SHAFTING WITHOUT SHAFT KEY (PD-INS)
1008	55	1/2 3/4 1-----	260 450 630	2517 & 2525	430	1-3/16 1-15/16 2-7/16	2360 4480 6050
1108	55	1/2 3/4 1-1/8	250 430 710	3020 & 3030	800	1-7/16 2-3/16 2-15/16	4520 8020 11300
1210 & 1215	175	5/8 15/16 1-1/4	730 1240 1750	3535	1000	1-11/16 2-7/16 3-7/16	9050 17200 22600
1310	175	3/4 15/16 1-3/8	730 1210 1920	4040	1700	1-15/16 2-15/16 3-15/16	15600 27800 39100
1610 & 1615	175	3/4 1-3/16 1-5/8	840 1570 2270	4545	2450	2-3/16 3-7/16 4-7/16	22600 41800 56500
2012	280	1----- 1-7/16 1-15/16	1600 2540 3630	5050	3100	2-7/16 3-15/16 4-15/16	26200 50800 65500

\* AVERAGE VALUES WERE BASED ON TESTS WITH BUSHINGS INSTALLED PER STANDARD INSTALLATION INSTRUCTIONS.

WHEN USING THIS DATA FOR DESIGN PURPOSES REDUCING FACTORS SHOULD BE APPLIED DEPENDING ON OPERATING CONDITIONS.

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TABLE XVII - MATERIAL REQUIREMENTS FOR CUT TOOTH SPROCKETS

	CHAIN SPEED IN FPM	NUMBER OF TEETH ON SPROCKET	MATERIAL AND HARDNESS SELECTION
NORMAL OPERATING CONDITIONS UNIFORM LOADING MINOR SHOCK	Up to 600	25 or less 26 and up	Grade B, Class 1 Grade A, Class 1 or Grade E-1
	600 to 3000	25 or less 26 and up	Grades B and D, Class IV and V Grade B, Class I; Grade E-1, Class 1
	Over 3000	25 or less 26 and up	Grades A and C, Class II; Grades B and D, Class III and IV Grade A, Class II; Grade C, Class II; Grade E-1, Class I; Grade B, Class IV; Grade D, Class IV and V
SEVERE OPERATING CONDITIONS PEAK LOADS MAJOR SHOCK	Up to 600	25 or less 26 and up	Grade A, Class II; Grade C, Class II; Grades B and D, Class IV and V Grades A and C, Class II; Grades B and D, Class I, IV and V
	600 and over	25 or less 26 and up	Grades A and C, Class II; Grades B and D, Class IV Grades B and D, Class IV and V

TABLE XVIII - MATERIAL REQUIREMENTS OF FORGED, ROLLED, AND CAST TOOTH SPROCKETS\*

	CHAIN SPEED IN FPM	NUMBER OF TEETH ON SPROCKET	MATERIAL AND HARDNESS SELECTION
NORMAL DUTY STEADY LOADS RELATIVELY CLEAN	Up to 100	15 or less	Grade B, Class III and IV; Grade E-2, Class I
		16 and up	Grade B, Class I; Grade E-1 and E-3, Class I
	101 - 250	15 or less	Grade B, Class IV; Grade E-2, Class I
		16 and up	Grade B, Class III and IV; Grade E-2 and E-3, Class I
	251 - 1000	15 or less	Grade B and D, Class IV and V
		16 and up	Grade B and D, Class IV and V; Grade E-2 and E-3, Class I
HEAVY DUTY FLUCTUATING LOADS DUSTY - DIRTY	Up to 100	15 or less	Grade B, Class III, IV and V
		16 and up	Grade B, Class III, and IV; Grade E-2 and E-3, Class I
	101 - 250	15 or less	Grade B and D, Class III, IV and V
		16 and up	Grade B and D, Class III and IV
	251 - 1000	15 or less	Grade B and D, Class IV and V
		16 and up	Grade B and D, Class III, IV and V

TABLE XXIX - MATERIALS AND HARDNESS FOR TOOTH SPROCKETS

MATERIALS	HARDNESS
Grade A: - Low Carbon steel (.25 carbon max.) 1. Cold finished bars & plates 2. Hot finished bars and plates 3. Castings 4. Forgings	Class I - Material in its normal machining conditions. Grades A-1, A-2, A-3, A-4, C-1, C-2, C-3, and C-4 - 114 Min BHN Grades B-1, B-2, B-3, B-4, D-1, D-2, D-3, and D-4 - 131 Min BHN Grade E-1 - 179 Min BHN Grade E-2 - (Teeth Only) - 363 Min BHN Grade E-2 - (Body Only) - 179 BHN Grade E-3 - 217 Min BHN
Grade B: - Medium carbon steel (.30 - .50 carbon) 1. Cold finished bars & plates 2. Hot finished bars and plates 3. Castings 4. Forgings	Class II - Case hardened all over; - 45-55 Rc Hardness Applicable only to Grades A-1, A-2, A-3, A-4, C-1, C-2, C-3 and C-4
Grade C: - Low carbon - alloy steel (.24 carbon max.) 1. Cold finished bars & plates 2. Hot finished bars and plates 3. Castings 4. Forgings	Class III - Through * hardened all over; - 321-429 BHN Applicable only to Grades B-1, B-2, B-3, B-4, D-1, D-2, D-3, and D-4
Grade D: - Medium carbon - alloy steel (.30 - .50 carbon) 1. Cold finished bars & plates 2. Hot finished bars and plates 3. Castings 4. Forgings	Class IV - Teeth only hardened; - 40-55 Rc Hardness on Surface Applicable only to Grades B-1, B-2, B-3, B-4, D-1, D-2, D-3, and D-4
Grade E: - Cast Iron 1. Gray Iron 2. Chill Iron 3. High Strength Iron	Class V - Body thru * hardened and teeth selectively hardened 269-388 BHN for body only 45-55 Rc hardness for teeth only on surface  * Surface hardness as indicated. Core hardness to be consistent with hardenability and cross section.

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TABLE XXI - MAXIMUM PITCH LINE ECCENTRICITY

Sprockets for high speed drives or other applications requiring a minimum amount of pitch line eccentricity are available within the following tolerances when specified.		
For slow speed chain drives, sprockets are available within the eccentricity tolerances tabled below.	Root diameter of sprocket, inches	Maximum eccentricity, total indicator reading, inches
	Up to 4.000	.004
	4.001 to 5.000	.006
	5.001 to 7.000	.008
	7.001 to 9.000	.010
	9.001 to 11.000	.012
	11.001 to 13.000	.014
	13.001 to 15.000	.016
	15.001 to 20.000	.018
	20.001 to 35.000	.020
	35.001 to 50.000	.026
		.032
NOTE: The terms slow speed and high speed with regard to chain drives is related to the pitch of the chain, the number of teeth on the sprocket and the diameter of the sprocket. There is no definite line that can be drawn between the two terms because of the many variables encountered in chain drive design. Each case should be judged on the conditions applicable to a specific design. The subject is more fully covered in Chapters 8 and 10 of referenced Military Handbook.		

TABLE XXI - BORE TOLERANCES		
Sprocket bore tolerances		
Bore diameter, inches	Tolerance	
	Up to 1.250 1.251 to 2.500 2.501 to 4.500 4.501 to 6.000 6.001 up	
	.001 .002 .003 .004 .005	

Tables 30 and 31 are applicable only to sprockets for ASA Chains B29.1, B29.2, and B29.4. See pages 5, 25, 39, and 74.

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