

**RECOMMENDATION AND EVALUATION**  
**OF ECP LOS5002**

**Recommend Approval as Modified.**

- The Gas Block (P/N: F12011982) NOR sheet 3 of 4 has been modified to reflect the following changes as agreed by AMSTA-AR-CCL-A and contractor representatives:
  - In note 9, the specification has been modified to “SAE AMS-H-6875”.
  - In note 2A, the material designation has been modified to “HNV-3”.
  - In note 7A, the brackets behind the sub-step designations have been removed.
  - In zone C-5, another arrowhead was added connecting the 6.4 surface finish requirement to the *chain* line at the lower quadrant of the 27.0 diameter. This will aid in the clarity of the application of the surface finish and inspection.
  - In zone D-2, the 2.5 basic dimension has been modified to 4.15 basic and the 21.3 basic dimension modified to 19.0 basic. This was necessitated for compatibility with the front sight tools that are currently employed.
  - In note 10B, Chrome Thickness 0.130 +/- 0.007 should read 0.013 +/- 0.007

Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.

2. PROCURING ACTIVITY NO. **LOS5002**

3. DODACC

4. ORIGINATOR  
 a. TYPED NAME (First, Middle Initial, Last) **FN MANUFACTURING INC.**  
 b. ADDRESS (Street, City, State, Zip Code) **797 CLEMSON RD. COLUMBIA, S.C. 29223**  
 5. CLASS OF ECP **I**  
 6. JUST CODE **C** 7. PRIORITY **R**

8. ECP DESIGNATION  
 a. MODEL / TYPE **M.G.** b. CAGE CODE **3S679** c. SYSTEM DESIGNATION **M249**  
 9. BASELINE AFFECTED  
 FUNCTIONAL ALLOCATED  PRODUCT  **PRODUCED**  
 d. ECP NO. **0326-E-0017** e. TYPE  f. REV.  10. OTHER SYS / CONFIG. ITEMS AFFECTED  
 YES  NO

11. SPECIFICATION AFFECTED				12. DRAWINGS AFFECTED				
a. SYSTEM	CAGE Code	Specification / Document No.	REV.	SCN	CAGE Code	NUMBER	REV.	NOR
	19200	SQ12011985			19200	F12011982	0	
b. DEVELOPMENT								
c. PRODUCT								

13. TITLE OF CHANGE  
**DRAWING & QAP UPDATE TO ENCOMPASS BOTH A FORGING AND CASTING REQUIREMENTS**

14. CONTRACT NO. AND LINE ITEM **DAAE20-96-C-0326 & DAAE20-99-C-0041**  
 15. PROCURING CONTRACTING OFFICER  
 a. NAME (First < Middle, Last)

16. CONFIGURATION ITEM NOMENCLATURE **MACHINE GUN, 5.56MM: M249**  
 17. IN PRODUCTION  
 YES  NO

18. ALL LOWER LEVEL ITEMS AFFECTED  
 a. NOMENCLATURE **BARREL SUB-ASSEMBLY** b. PART NO. **12011985** c. NSN

19. DESCRIPTION OF CHANGE  
**SEE SEPARATE ATTACHED NOR SHEETS**

20. NEED FOR CHANGE  
**SEE SHEET 2**

21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER  
 22. EFFECT ON PRODUCTION DELIVERY SCHEDULE **NONE**

23. RETROFIT  
 a. RECOMMEND ITEM EFFECTIVITY **N/A** b. SHIP / VEHICLE CLASS AFFECTED **N/A**  
 c. ESTIMATED KIT DELIVERY SCHEDULE **N/A** d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED **N/A**

24. ESTIMATED COSTS / SAVINGS UNDER CONTRACT **NONE**  
 25. ESTIMATED NET TOTAL COSTS / SAVINGS **N/A**

26. SUBMITTING ACTIVITY  
 a. AUTHORIZED SIGNATURE *[Signature]* b. TITLE **DIRECTOR, CONTRACTS**

27. APPROVAL / DISAPPROVAL  
 a. CLASS I APPROVAL  DISAPPROVAL   
 b. CLASS II APPROVAL  DISAPPROVAL   
 c. CLASS II CONCUR IN CLASSIFICATION OF CHANGE  DO NOT CONCUR IN CLASSIFICATION OF CHANGE

d. GOVERNMENT ACTIVITY *[Signature]* 2. SIGNATURE *[Signature]* c. DATE SIGNED (YYMMDD) **20000329**

g. APPROVAL  DISAPPROVED  h. GOVERNMENT ACTIVITY **TACOM-ARDEC, AMSTA-AR-CC** j. SIGNATURE *[Signature]* c. DATE SIGNED (YYMMDD) **20000329**  
 Chief, CCAC Prod & Test Spt Team

<b>ENGINEERING CHANGE PROPOSAL CONTINUATION SHEET</b>	DATE: (YY MM DD) <b>000222</b>	SHEET: <b>2 OF 2</b>
	ECP NUMBER: <b>0255-E-0017</b>	
1. ORIGINATOR NAME AND ADDRESS <b>FN MANUFACTURING INC. COLUMBIA, S. C. 29223</b>	2. CONTRACT NUMBER AND LINE ITEM: <b>DAAE20-96-C-0326 DAAE20-99-C-0041</b>	
NOR NUMBER: <b>LOS5002</b>		

**BLOCK 20. NEED FOR CHANGE:**

**Qap12011985:**

- UPDATED QAP TO AGREE WITH PRODUCT DRAWING REQUIREMENTS.
- UPDATED QAP TO AGREE WITH CHANGES CREATED BY THIS ECP.

**F12011982:**

- INCREASED OUTSIDE CONTOUR DIMENSIONS TO ALLOW AS FORGED CONDITIONS ON AIR FIT DIMENSIONS TO MEET INDUSTRY PRACTICES PER FORGING STANDARDS ( DIE WEAR, MISMATCH, ETC.). ADJUSTED DIMENSIONS FOR DATUM -A-, -B- & -C- ACCORDINGLY.
- UPDATED DIMENSIONING & TOLERANCEING I.A.W. Y14.5M-82 PRACTICES AND CORRECTED DIMENSIONS TO COME FROM DATUM -D-.
- ADDED MISSING TOLERANCE ( FOR 20.45 (21.3) DIM).
- ADDED TARGET DATUMS TO FACILITATE MANUFACTURING, HOLDING AND GAGING FIXTURE FOR EASE OF INSPECTION.
- UPDATED NOTES TO REFLECT FORGING REQUIREMENTS AND DIFFERENT MATERIALS / HEAT TREATMENTS/ PROTECTIVE FINISHES ON VARIOUS MATERIAL SELECTION REQUIREMENTS.
- ADDED DISTRIBUTION STATEMENT D, MISSED DURING DRAWING CREATION.

NOTICE OF REVISION (NOR)		1. DATE (YYMMDD) 000222	Form Approved OMB NO. 0704-0188
This revision described below has been authorized for the document listed.			
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington DC 20503.			2. PROCURING ACTIVITY NO.
PLEASE DO NOT RETURN YOUR COMPLETED TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.			3. DODACC
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last) FN MANUFACTURING INC.	797 CLEMSON RD. COLUMBIA, S.C. 29223	3S679	LOS5002
		7. CAGE CODE 19200	8. DOCUMENT NO. QAP12011985
9. TITLE OF DOCUMENT QAP FOR; BARREL SUB-ASSEMBLY; M249 M.G.	10. REVISION LETTER a. CURRENT — b. NEW		11. ECP NO. 0326-E-0017
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES MACHINE GUN, 5.56MM: M249	NOR SHT 1 OF 3		
13. DESCRIPTION OF CHANGE:			
INSPECTION POSITION C: GAS BLOCK – DWG 12011982			
<u>CHANGE FROM:</u>		<u>CHANGE TO:</u>	
"C-7 " page 3, Major 101		"C-6/7, Sht 1 "	
<u>CHANGE FROM:</u> page 3			
" 102 Cylindricity of (21.0) diameter hole	C-7	0.65	SMTE "
<u>CHANGE TO:</u>			
" 102 Cylindricity (0.15) of (21.0) diameter hole	C-6/7, Sht 1	0.65	SMTE "
<u>CHANGE FROM:</u> page 3			
" 103 Length (50.00) of block	D-4	0.65	SMTE "
<u>CHANGE TO:</u>			
" 213 Length (50.0) of block	D-4, Sht 1	1.5	SMTE "
<u>CHANGE FROM:</u> page 4			
" 104 Diameter (20.995) of head	B-1	0.65	SMTE "
<u>CHANGE TO:</u>			
" 103 Diameter (20.965) of head	B-1, Sht 1	0.65	SMTE "
<u>CHANGE FROM:</u> page 4			
" 105 Position of head diameter (20.975)	B-1	0.65	SMTE "
<u>CHANGE TO:</u>			
" 104 Position (0.15) of (20.965) diameter	B-1, Sht 1	0.65	SMTE "
<u>CHANGE FROM:</u> page 4			
" 201 Diameter (13.285)	B-3	1.5	SMTE "
<u>CHANGE TO:</u>			
" 201 Diameter (13.285)	B-3, Sht 1	1.5	SMTE "
UPDATE REVISION BLOCKS TO THE NEXT REVISION LEVEL FOR CONTINUITY; SHEETS 1 THRU 8			
11. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X) one	(1) Existing document supplemented by his NOR may be used in manufacturing		
	(2) Revised document must be received before manufacturer may incorporate this change.		
	(3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT TACOM-ARDEC, AMSTA-AR-CCL-F	c. TYPED NAME (First, Middle Initial, Last)		
d. TITLE	Ronnie [Signature] Chief, CCAC Prog & Field Spt Team		f. DATE SIGNED (YYMMDD) 20000329
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETERS (SIGNATURE)		c. DATE SIGNED (YYMMDD)

**NOTICE OF REVISION (NOR)  
CONTINUATION SHEET**

NOR CONTINUATION 2 OF 3

<b>ORIGINATOR NAME AND ADDRESS</b> FN MANUFACTURING INC. COLUMBIA, S. C. 29223	<b>DATE</b> (YYMMDD) 000222	<b>PAN NO.</b> LOS5002	<b>DOCUMENT NO.</b> QAP12011985
		<b>ECP NO.</b>	0326-E-0017

<b>CHANGE FROM:</b> page 4			
" 202 Position of diameter (13.285)	B-3	1.5	SMTE "
<b>CHANGE TO:</b>			
" 202 Position (0.06) of diameter (13.285)	B-3, Sht 1	1.5	SMTE "
<b>CHANGE FROM:</b> page 4			
" E-6 " minor 203			
" A-6 " minor 204			
" B-6 " minor 205			
<b>CHANGE TO:</b>			
" E-6/7, Sht 1 "			
" B-6, Sht 1 "			
" B-8, Sht 1 "			
<b>CHANGE FROM:</b> page 4			
" 206 Position of diameter (5.66)	B-6	1.5	SMTE "
<b>CHANGE TO:</b>			
" 206 Position (0.12) Of diameter (5.66)	B-8, Sht 1	1.5	SMTE "
<b>CHANGE FROM:</b>			
" D-4 " minor 207			
<b>CHANGE TO:</b>			
" D-4, Sht 1 "			
<b>CHANGE FROM:</b> page 4			
" 208 Profile (0.1) of barrel hole key	D-1	1.5	SMTE "
<b>CHANGE TO:</b>			
" 208 Profile (0.1) of (14.4), 2 places	D-1/2, Sht 1	1.5	SMTE "
<b>CHANGE FROM:</b> page 4			
" A-5 " minor 209			
" D-6 " minor 210			
" C-6 " minor 211			
<b>CHANGE TO:</b>			
" F-2/3, Sht 1 "			
" D-5, Sht 1 "			
" D-6/7, Sht 1 "			
<b>CHANGE FROM:</b> page 4			
" 212 Surface roughness (1.6)	B-2, C-6	1.5	SMTE "
<b>CHANGE TO:</b>			
" 212 Surface roughness (1.6), 2 places	B-2 & C-6, Sht 1	1.5	SMTE "
<b>REMOVE:</b> page 4			
" 213 Radius (0.15) Max	A-5	1.5	SMTE "
<b>CHANGE FROM:</b> page 4			
" 214 "			
<b>CHANGE TO:</b>			
" 213 "			

**NOTICE OF REVISION (NOR)  
CONTINUATION SHEET**

NOR CONTINUATION 3 OF 3

ORIGINATOR NAME AND ADDRESS  
FN MANUFACTURING INC.  
COLUMBIA, S. C. 29223

DATE  
(YYMMDD)  
000222

PAN NO.  
LOS5002  
ECP NO.

DOCUMENT NO.  
QAP12011985  
0326-E-0017

**PART V CERTIFICATION PROVISIONS, page 6**

<u>NUMBER:</u>	<u>CHANGE FROM:</u>	<u>CHANGE TO:</u>
401	" 12011982 "	" 12011982, Note 2A, 2B or 3 "
402	" 12011982 "	" 12011982, Note 7A, 7B and 9 "
403	" 12021982 "	" 12011982, Note 7.A.3.) and 9 "
404	" 12021982 "	" 12011982, Note 10A "
405	" 12011982 "	" 12011982/QQ-C-320 ", Note 10B "
<u>ADD:</u> to number 406		
	" Investment casting Inspection Class 3, Grade B	12011982, Note 3 & MIL-STD-2175 "

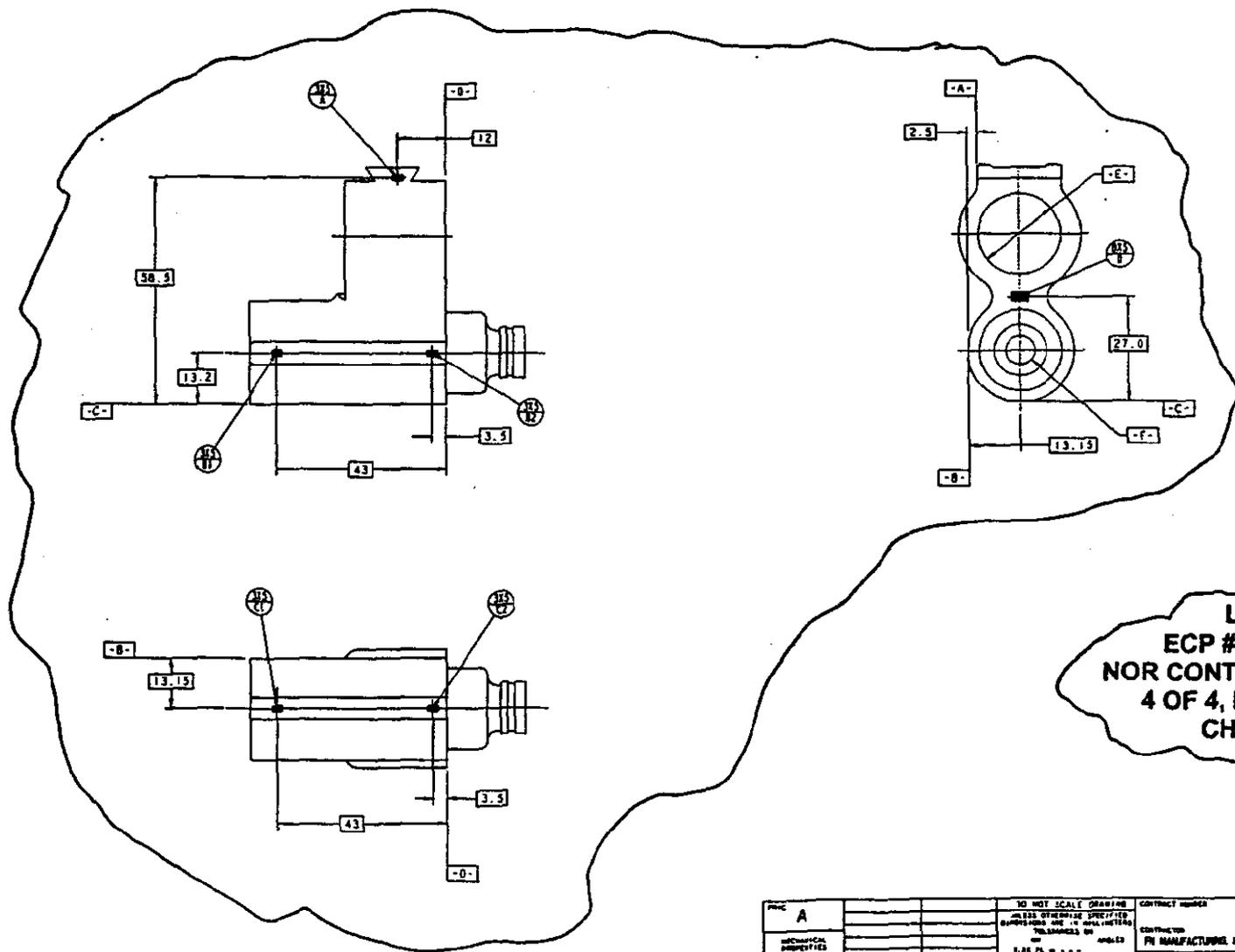
NOTICE OF REVISION (NOR)		1. DATE (YYMMDD)	Form Approved
This revision described below has been authorized for the document listed.		000222	OMB NO. 0704-0188
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188) Washington DC 20503.		2. PROCURING ACTIVITY NO.	
PLEASE DO NOT RETURN YOUR COMPLETED TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.		3. DODACC	
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last)	797 CLEMSON RD. COLUMBIA, S.C. 29223	3S679	LOS5002
FN MANUFACTURING INC.		7. CAGE CODE	8. DOCUMENT NO.
9. TITLE OF DOCUMENT		19200	F12011982
GAS BLOCK		10. REVISION LETTER	
		a. CURRENT	b. NEW
		—	
11. ECP NO.		11. ECP NO.	
0326-E-0017			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES		NOR SHT	
MACHINE GUN, 5.56MM: M249		1 OF 4	
13. DESCRIPTION OF CHANGE:			
<p>SEE NOR CONTINUATION SHEETS 2 thru 4, DATED 000218 REVISED WITH CHANGES</p>			
11. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X) one	(1) Existing document supplemented by his NOR may be used in manufacturing (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT	c. TYPED NAME (First, Middle Initial, Last)		
TACOM-ARDEC, AMSTA-AR-CCL-F			
Jonathan E. Elbe Chief, CCAC Prod & Field Spt Team	e. SIGNATURE	f. DATE SIGNED (YYMMDD) 20000928	
15. a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETEDS (SIGNATURE)	c. DATE SIGNED (YYMMDD)	





COMPUTER GENERATED DIMS  
DO NOT SCALE DIMS

DATE	001627	REV	01
PRODUCT: BASELINE		ERR 1.952033	



LOS5002  
ECP # 0326-E-0017  
NOR CONTINUATION SHEET  
4 OF 4, DATED 000218  
CHANGE TO

PART NO. 12011982 METRIC

P/N A QUANTITY 12011982 REV 001 DATE 000218 BY J. J. [Signature]	30 NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3, 3 1/4, 3 1/2, 4, 4 1/4, 4 1/2, 5, 5 1/4, 5 1/2, 6, 6 1/4, 6 1/2, 7, 7 1/4, 7 1/2, 8, 8 1/4, 8 1/2, 9, 9 1/4, 9 1/2, 10, 10 1/4, 10 1/2, 11, 11 1/4, 11 1/2, 12, 12 1/4, 12 1/2, 13, 13 1/4, 13 1/2, 14, 14 1/4, 14 1/2, 15, 15 1/4, 15 1/2, 16, 16 1/4, 16 1/2, 17, 17 1/4, 17 1/2, 18, 18 1/4, 18 1/2, 19, 19 1/4, 19 1/2, 20, 20 1/4, 20 1/2, 21, 21 1/4, 21 1/2, 22, 22 1/4, 22 1/2, 23, 23 1/4, 23 1/2, 24, 24 1/4, 24 1/2, 25, 25 1/4, 25 1/2, 26, 26 1/4, 26 1/2, 27, 27 1/4, 27 1/2, 28, 28 1/4, 28 1/2, 29, 29 1/4, 29 1/2, 30, 30 1/4, 30 1/2, 31, 31 1/4, 31 1/2, 32, 32 1/4, 32 1/2, 33, 33 1/4, 33 1/2, 34, 34 1/4, 34 1/2, 35, 35 1/4, 35 1/2, 36, 36 1/4, 36 1/2, 37, 37 1/4, 37 1/2, 38, 38 1/4, 38 1/2, 39, 39 1/4, 39 1/2, 40, 40 1/4, 40 1/2, 41, 41 1/4, 41 1/2, 42, 42 1/4, 42 1/2, 43, 43 1/4, 43 1/2, 44, 44 1/4, 44 1/2, 45, 45 1/4, 45 1/2, 46, 46 1/4, 46 1/2, 47, 47 1/4, 47 1/2, 48, 48 1/4, 48 1/2, 49, 49 1/4, 49 1/2, 50, 50 1/4, 50 1/2, 51, 51 1/4, 51 1/2, 52, 52 1/4, 52 1/2, 53, 53 1/4, 53 1/2, 54, 54 1/4, 54 1/2, 55, 55 1/4, 55 1/2, 56, 56 1/4, 56 1/2, 57, 57 1/4, 57 1/2, 58, 58 1/4, 58 1/2, 59, 59 1/4, 59 1/2, 60, 60 1/4, 60 1/2, 61, 61 1/4, 61 1/2, 62, 62 1/4, 62 1/2, 63, 63 1/4, 63 1/2, 64, 64 1/4, 64 1/2, 65, 65 1/4, 65 1/2, 66, 66 1/4, 66 1/2, 67, 67 1/4, 67 1/2, 68, 68 1/4, 68 1/2, 69, 69 1/4, 69 1/2, 70, 70 1/4, 70 1/2, 71, 71 1/4, 71 1/2, 72, 72 1/4, 72 1/2, 73, 73 1/4, 73 1/2, 74, 74 1/4, 74 1/2, 75, 75 1/4, 75 1/2, 76, 76 1/4, 76 1/2, 77, 77 1/4, 77 1/2, 78, 78 1/4, 78 1/2, 79, 79 1/4, 79 1/2, 80, 80 1/4, 80 1/2, 81, 81 1/4, 81 1/2, 82, 82 1/4, 82 1/2, 83, 83 1/4, 83 1/2, 84, 84 1/4, 84 1/2, 85, 85 1/4, 85 1/2, 86, 86 1/4, 86 1/2, 87, 87 1/4, 87 1/2, 88, 88 1/4, 88 1/2, 89, 89 1/4, 89 1/2, 90, 90 1/4, 90 1/2, 91, 91 1/4, 91 1/2, 92, 92 1/4, 92 1/2, 93, 93 1/4, 93 1/2, 94, 94 1/4, 94 1/2, 95, 95 1/4, 95 1/2, 96, 96 1/4, 96 1/2, 97, 97 1/4, 97 1/2, 98, 98 1/4, 98 1/2, 99, 99 1/4, 99 1/2, 100, 100 1/4, 100 1/2, 101, 101 1/4, 101 1/2, 102, 102 1/4, 102 1/2, 103, 103 1/4, 103 1/2, 104, 104 1/4, 104 1/2, 105, 105 1/4, 105 1/2, 106, 106 1/4, 106 1/2, 107, 107 1/4, 107 1/2, 108, 108 1/4, 108 1/2, 109, 109 1/4, 109 1/2, 110, 110 1/4, 110 1/2, 111, 111 1/4, 111 1/2, 112, 112 1/4, 112 1/2, 113, 113 1/4, 113 1/2, 114, 114 1/4, 114 1/2, 115, 115 1/4, 115 1/2, 116, 116 1/4, 116 1/2, 117, 117 1/4, 117 1/2, 118, 118 1/4, 118 1/2, 119, 119 1/4, 119 1/2, 120, 120 1/4, 120 1/2, 121, 121 1/4, 121 1/2, 122, 122 1/4, 122 1/2, 123, 123 1/4, 123 1/2, 124, 124 1/4, 124 1/2, 125, 125 1/4, 125 1/2, 126, 126 1/4, 126 1/2, 127, 127 1/4, 127 1/2, 128, 128 1/4, 128 1/2, 129, 129 1/4, 129 1/2, 130, 130 1/4, 130 1/2, 131, 131 1/4, 131 1/2, 132, 132 1/4, 132 1/2, 133, 133 1/4, 133 1/2, 134, 134 1/4, 134 1/2, 135, 135 1/4, 135 1/2, 136, 136 1/4, 136 1/2, 137, 137 1/4, 137 1/2, 138, 138 1/4, 138 1/2, 139, 139 1/4, 139 1/2, 140, 140 1/4, 140 1/2, 141, 141 1/4, 141 1/2, 142, 142 1/4, 142 1/2, 143, 143 1/4, 143 1/2, 144, 144 1/4, 144 1/2, 145, 145 1/4, 145 1/2, 146, 146 1/4, 146 1/2, 147, 147 1/4, 147 1/2, 148, 148 1/4, 148 1/2, 149, 149 1/4, 149 1/2, 150, 150 1/4, 150 1/2, 151, 151 1/4, 151 1/2, 152, 152 1/4, 152 1/2, 153, 153 1/4, 153 1/2, 154, 154 1/4, 154 1/2, 155, 155 1/4, 155 1/2, 156, 156 1/4, 156 1/2, 157, 157 1/4, 157 1/2, 158, 158 1/4, 158 1/2, 159, 159 1/4, 159 1/2, 160, 160 1/4, 160 1/2, 161, 161 1/4, 161 1/2, 162, 162 1/4, 162 1/2, 163, 163 1/4, 163 1/2, 164, 164 1/4, 164 1/2, 165, 165 1/4, 165 1/2, 166, 166 1/4, 166 1/2, 167, 167 1/4, 167 1/2, 168, 168 1/4, 168 1/2, 169, 169 1/4, 169 1/2, 170, 170 1/4, 170 1/2, 171, 171 1/4, 171 1/2, 172, 172 1/4, 172 1/2, 173, 173 1/4, 173 1/2, 174, 174 1/4, 174 1/2, 175, 175 1/4, 175 1/2, 176, 176 1/4, 176 1/2, 177, 177 1/4, 177 1/2, 178, 178 1/4, 178 1/2, 179, 179 1/4, 179 1/2, 180, 180 1/4, 180 1/2, 181, 181 1/4, 181 1/2, 182, 182 1/4, 182 1/2, 183, 183 1/4, 183 1/2, 184, 184 1/4, 184 1/2, 185, 185 1/4, 185 1/2, 186, 186 1/4, 186 1/2, 187, 187 1/4, 187 1/2, 188, 188 1/4, 188 1/2, 189, 189 1/4, 189 1/2, 190, 190 1/4, 190 1/2, 191, 191 1/4, 191 1/2, 192, 192 1/4, 192 1/2, 193, 193 1/4, 193 1/2, 194, 194 1/4, 194 1/2, 195, 195 1/4, 195 1/2, 196, 196 1/4, 196 1/2, 197, 197 1/4, 197 1/2, 198, 198 1/4, 198 1/2, 199, 199 1/4, 199 1/2, 200, 200 1/4, 200 1/2, 201, 201 1/4, 201 1/2, 202, 202 1/4, 202 1/2, 203, 203 1/4, 203 1/2, 204, 204 1/4, 204 1/2, 205, 205 1/4, 205 1/2, 206, 206 1/4, 206 1/2, 207, 207 1/4, 207 1/2, 208, 208 1/4, 208 1/2, 209, 209 1/4, 209 1/2, 210, 210 1/4, 210 1/2, 211, 211 1/4, 211 1/2, 212, 212 1/4, 212 1/2, 213, 213 1/4, 213 1/2, 214, 214 1/4, 214 1/2, 215, 215 1/4, 215 1/2, 216, 216 1/4, 216 1/2, 217, 217 1/4, 217 1/2, 218, 218 1/4, 218 1/2, 219, 219 1/4, 219 1/2, 220, 220 1/4, 220 1/2, 221, 221 1/4, 221 1/2, 222, 222 1/4, 222 1/2, 223, 223 1/4, 223 1/2, 224, 224 1/4, 224 1/2, 225, 225 1/4, 225 1/2, 226, 226 1/4, 226 1/2, 227, 227 1/4, 227 1/2, 228, 228 1/4, 228 1/2, 229, 229 1/4, 229 1/2, 230, 230 1/4, 230 1/2, 231, 231 1/4, 231 1/2, 232, 232 1/4, 232 1/2, 233, 233 1/4, 233 1/2, 234, 234 1/4, 234 1/2, 235, 235 1/4, 235 1/2, 236, 236 1/4, 236 1/2, 237, 237 1/4, 237 1/2, 238, 238 1/4, 238 1/2, 239, 239 1/4, 239 1/2, 240, 240 1/4, 240 1/2, 241, 241 1/4, 241 1/2, 242, 242 1/4, 242 1/2, 243, 243 1/4, 243 1/2, 244, 244 1/4, 244 1/2, 245, 245 1/4, 245 1/2, 246, 246 1/4, 246 1/2, 247, 247 1/4, 247 1/2, 248, 248 1/4, 248 1/2, 249, 249 1/4, 249 1/2, 250, 250 1/4, 250 1/2, 251, 251 1/4, 251 1/2, 252, 252 1/4, 252 1/2, 253, 253 1/4, 253 1/2, 254, 254 1/4, 254 1/2, 255, 255 1/4, 255 1/2, 256, 256 1/4, 256 1/2, 257, 257 1/4, 257 1/2, 258, 258 1/4, 258 1/2, 259, 259 1/4, 259 1/2, 260, 260 1/4, 260 1/2, 261, 261 1/4, 261 1/2, 262, 262 1/4, 262 1/2, 263, 263 1/4, 263 1/2, 264, 264 1/4, 264 1/2, 265, 265 1/4, 265 1/2, 266, 266 1/4, 266 1/2, 267, 267 1/4, 267 1/2, 268, 268 1/4, 268 1/2, 269, 269 1/4, 269 1/2, 270, 270 1/4, 270 1/2, 271, 271 1/4, 271 1/2, 272, 272 1/4, 272 1/2, 273, 273 1/4, 273 1/2, 274, 274 1/4, 274 1/2, 275, 275 1/4, 275 1/2, 276, 276 1/4, 276 1/2, 277, 277 1/4, 277 1/2, 278, 278 1/4, 278 1/2, 279, 279 1/4, 279 1/2, 280, 280 1/4, 280 1/2, 281, 281 1/4, 281 1/2, 282, 282 1/4, 282 1/2, 283, 283 1/4, 283 1/2, 284, 284 1/4, 284 1/2, 285, 285 1/4, 285 1/2, 286, 286 1/4, 286 1/2, 287, 287 1/4, 287 1/2, 288, 288 1/4, 288 1/2, 289, 289 1/4, 289 1/2, 290, 290 1/4, 290 1/2, 291, 291 1/4, 291 1/2, 292, 292 1/4, 292 1/2, 293, 293 1/4, 293 1/2, 294, 294 1/4, 294 1/2, 295, 295 1/4, 295 1/2, 296, 296 1/4, 296 1/2, 297, 297 1/4, 297 1/2, 298, 298 1/4, 298 1/2, 299, 299 1/4, 299 1/2, 300, 300 1/4, 300 1/2, 301, 301 1/4, 301 1/2, 302, 302 1/4, 302 1/2, 303, 303 1/4, 303 1/2, 304, 304 1/4, 304 1/2, 305, 305 1/4, 305 1/2, 306, 306 1/4, 306 1/2, 307, 307 1/4, 307 1/2, 308, 308 1/4, 308 1/2, 309, 309 1/4, 309 1/2, 310, 310 1/4, 310 1/2, 311, 311 1/4, 311 1/2, 312, 312 1/4, 312 1/2, 313, 313 1/4, 313 1/2, 314, 314 1/4, 314 1/2, 315, 315 1/4, 315 1/2, 316, 316 1/4, 316 1/2, 317, 317 1/4, 317 1/2, 318, 318 1/4, 318 1/2, 319, 319 1/4, 319 1/2, 320, 320 1/4, 320 1/2, 321, 321 1/4, 321 1/2, 322, 322 1/4, 322 1/2, 323, 323 1/4, 323 1/2, 324, 324 1/4, 324 1/2, 325, 325 1/4, 325 1/2, 326, 326 1/4, 326 1/2, 327, 327 1/4, 327 1/2, 328, 328 1/4, 328 1/2, 329, 329 1/4, 329 1/2, 330, 330 1/4, 330 1/2, 331, 331 1/4, 331 1/2, 332, 332 1/4, 332 1/2, 333, 333 1/4, 333 1/2, 334, 334 1/4, 334 1/2, 335, 335 1/4, 335 1/2, 336, 336 1/4, 336 1/2, 337, 337 1/4, 337 1/2, 338, 338 1/4, 338 1/2, 339, 339 1/4, 339 1/2, 340, 340 1/4, 340 1/2, 341, 341 1/4, 341 1/2, 342, 342 1/4, 342 1/2, 343, 343 1/4, 343 1/2, 344, 344 1/4, 344 1/2, 345, 345 1/4, 345 1/2, 346, 346 1/4, 346 1/2, 347, 347 1/4, 347 1/2, 348, 348 1/4, 348 1/2, 349, 349 1/4, 349 1/2, 350, 350 1/4, 350 1/2, 351, 351 1/4, 351 1/2, 352, 352 1/4, 352 1/2, 353, 353 1/4, 353 1/2, 354, 354 1/4, 354 1/2, 355, 355 1/4, 355 1/2, 356, 356 1/4, 356 1/2, 357, 357 1/4, 357 1/2, 358, 358 1/4, 358 1/2, 359, 359 1/4, 359 1/2, 360, 360 1/4, 360 1/2, 361, 361 1/4, 361 1/2, 362, 362 1/4, 362 1/2, 363, 363 1/4, 363 1/2, 364, 364 1/4, 364 1/2, 365, 365 1/4, 365 1/2, 366, 366 1/4, 366 1/2, 367, 367 1/4, 367 1/2, 368, 368 1/4, 368 1/2, 369, 369 1/4, 369 1/2, 370, 370 1/4, 370 1/2, 371, 371 1/4, 371 1/2, 372, 372 1/4, 372 1/2, 373, 373 1/4, 373 1/2, 374, 374 1/4, 374 1/2, 375, 375 1/4, 375 1/2, 376, 376 1/4, 376 1/2, 377, 377 1/4, 377 1/2, 378, 378 1/4, 378 1/2, 379, 379 1/4, 379 1/2, 380, 380 1/4, 380 1/2, 381, 381 1/4, 381 1/2, 382, 382 1/4, 382 1/2, 383, 383 1/4, 383 1/2, 384, 384 1/4, 384 1/2, 385, 385 1/4, 385 1/2, 386, 386 1/4, 386 1/2, 387, 387 1/4, 387 1/2, 388, 388 1/4, 388 1/2, 389, 389 1/4, 389 1/2, 390, 390 1/4, 390 1/2, 391, 391 1/4, 391 1/2, 392, 392 1/4, 392 1/2, 393, 393 1/4, 393 1/2, 394, 394 1/4, 394 1/2, 395, 395 1/4, 395 1/2, 396, 396 1/4, 396 1/2, 397, 397 1/4, 397 1/2, 398, 398 1/4, 398 1/2, 399, 399 1/4, 399 1/2, 400, 400 1/4, 400 1/2, 401, 401 1/4, 401 1/2, 402, 402 1/4, 402 1/2, 403, 403 1/4, 403 1/2, 404, 404 1/4, 404 1/2, 405, 405 1/4, 405 1/2, 406, 406 1/4, 406 1/2, 407, 407 1/4, 407 1/2, 408, 408 1/4, 408 1/2, 409, 409 1/4, 409 1/2, 410, 410 1/4, 410 1/2, 411, 411 1/4, 411 1/2, 412, 412 1/4, 412 1/2, 413, 413 1/4, 413 1/2, 414, 414 1/4, 414 1/2, 415, 415 1/4, 415 1/2, 416, 416 1/4, 416 1/2, 417, 417 1/4, 417 1/2, 418, 418 1/4, 418 1/2, 419, 419 1/4, 419 1/2, 420, 420 1/4, 420 1/2, 421, 421 1/4, 421 1/2, 422, 422 1/4, 422 1/2, 423, 423 1/4, 423 1/2, 424, 424 1/4, 424 1/2, 425, 425 1/4, 425 1/2, 426, 426 1/4, 426 1/2, 427, 427 1/4, 427 1/2, 428, 428 1/4, 428 1/2, 429, 429 1/4, 429 1/2, 430, 430 1/4, 430 1/2, 431, 431 1/4, 431 1/2, 432, 432 1/4, 432 1/2, 433, 433 1/4, 433 1/2, 434, 434 1/4, 434 1/2, 435, 435 1/4, 435 1/2, 436, 436 1/4, 436 1/2, 437, 437 1/4, 437 1/2, 438, 438 1/4, 438 1/2, 439, 439 1/4, 439 1/2, 440, 440 1/4, 440 1/2, 441, 441 1/4, 441 1/2, 442, 442 1/4, 442 1/2, 443, 443 1/4, 443 1/2, 444, 444 1/4, 444 1/2, 445, 445 1/4, 445 1/2, 446, 446 1/4, 446 1/2, 447, 447 1/4, 447 1/2, 448, 448 1/4, 448 1/2, 449, 449 1/4, 449 1/2, 450, 450 1/4, 450 1/2, 451, 451 1/4, 451 1/2, 452, 452 1/4, 452 1/2, 453, 453 1/4, 453 1/2, 454, 454 1/4, 454 1/2, 455, 455 1/4, 455 1/2, 456, 456 1/4, 456 1/2, 457, 457 1/4, 457 1/2, 458, 458 1/4, 458 1/2, 459, 459 1/4, 459 1/2, 460, 460 1/4, 460 1/2, 461, 461 1/4, 461 1/2, 462, 462 1/4, 462 1/2, 463, 463 1/4, 463 1/2, 464, 464 1/4, 464 1/2, 465, 465 1/4, 465 1/2, 466, 466 1/4, 466 1/2, 467, 467 1/4, 467 1/2, 468, 468 1/4, 468 1/2, 469, 469 1/4, 469 1/2, 470, 470 1/4, 470 1/2, 471, 471 1/4, 471 1/2, 472, 472 1/4, 472 1/2, 473, 473 1/4, 473 1/2, 474, 474 1/4, 474 1/2, 475, 475 1/4, 475 1/2, 476, 476 1/4, 476 1/2, 477, 477 1/4, 477 1/2, 478, 478 1/4, 478 1/2, 479, 479 1/4, 479 1/2, 480, 480 1/4, 480 1/2, 481, 481 1/4, 481 1/2, 482, 482 1/4, 482 1/2, 483, 483 1/4, 483 1/2, 484, 484 1/4, 484 1/2, 485, 485 1/4, 485 1/2, 486, 486 1/4, 486 1/2, 487, 487 1/4, 487 1/2, 488, 488 1/4, 488 1/2, 489, 489 1/4, 489 1/2, 490, 490 1/4, 490 1/2, 491, 491 1/4, 491 1/2, 492, 492 1/4, 492 1/2, 493, 493 1/4, 493 1/2, 494, 494 1/4, 494 1/2, 495, 495 1/4, 495 1/2, 496, 496 1/4, 496 1/2, 497, 497 1/4, 497 1/2, 498, 498 1/4, 498 1/2, 499, 499 1/4, 499 1/2, 500, 500 1/4, 500 1/2, 501, 501 1/4, 501 1/2, 502, 502 1/4, 502 1/2, 503, 503 1/4, 503 1/2, 504, 504 1/4, 504 1/2, 505, 505 1/4, 505 1/2, 506, 506 1/4, 506 1/2, 507, 507 1/4, 507 1/2, 508, 508 1/4, 508 1/2, 509, 509 1/4, 509 1/2, 510, 510 1/4, 510 1/2, 511, 511 1/4, 511 1/2, 512, 512 1/4, 512 1/2, 513, 513 1/4, 513 1/2, 514, 514 1/4, 514 1/2, 515, 515 1/4, 515 1/2, 516, 516 1/4, 516 1/2, 517, 517 1/4, 517 1/2, 518, 518 1/4, 518 1/2, 519, 519 1/4, 519 1/2, 520, 520 1/4, 520 1/2, 521, 521 1/4, 521 1/2, 522, 522 1/4, 522 1/2, 523, 523 1/4, 523
---	---