## ! ''#\$%''& '(&)\*+,&

! "#\$\$%&\(' ( ) &\( \&\( \) \*\( \) ' + \( \) , -". / \( \) \$.' \( ) 0' \) 1 #2.)"3'
4556'7-"8'9."\( \) .:' ! "#\$\$\( \) &\( \) '; <'=>445'
6?4\( \) 56A\( \) B4>CD'E)F\$\( \) F\$\( \) H\*"\( \) #\$\$\( \) &\( \) &\( \) I'

```
! '' # $ %&&' # ( ) *+% , !%'''% ( - %+
! "#$$%&&'()&&%*%'
      7")0%22)"')0'1#2.)"3' '
                                                          <J*J2.'5>55K7"%2%$.'
      +#"%E.)":'L)2%$0#%&G'7")*"-/'#$'7JM&#E'<00-#"2:''
                                                           M%*#$2'NJ&3'5>5?'
             :$.%"$-.#)$-&'L%&-.#)$2:'-$G'1J/-$'L#*F.2'
      <22)E#-.%'7")0%22)"')0'1#2.)"3' '
                                                           <J*J2.'5>4='K'NJ&3'5>55'
      <22#2.-$.'7")0%22)"')0'1#2.)"3'
                                                            <J*J2.'5>>A'K'NJ&3'5>4='
      O#2#.#$*'<22#2.-$.'7")0%22)"')0'1#2.)"3''
                                                           <J*J2.'5>>C'K'NJ&3'5>>A'
% . / - ) 0'# (+
7FI+I'#$'1#2.)"3:'.F%'P$#Q%"2#.3')0'(F#E-*)' ' <J*J2.'5>>C'
      +#22%".-.#)$R'S+#2E#,&#$#$*'.F%'7-".3R'TF%'UV,J&2#)$'-$G'(%$2J"%')0'()//J$#2.2'#$'.F%''
             7)2.@W-"'9)0#%.'P$#)$:'4A?=@4A64X'
      () / /#..%%R'9F%#&-'Y#.Z.-."#E8'[-G0#2)"\:'L#EF-"G'1%&&#%:'L)$-&G'!"#*)"'9J$3:'-$G'
             'N-$'!)&G2.%#$'
] I<I'#$' 1#2.)"3:'.F%' P$#0%"2#.3')0' (F#E-*)' ' +%E% / M%"'5>>4'
^I<I'_#.F'1#*F'1)$)"2:'9_-".F/)"%'()&\%*%' '
                                                           ] -3'4AAA'
      #.F'-'/-`)"'#$'F#2.)"3'-$G'-'/#$)"'#$',)&#.#E-&'2E#%$E%'
! / 1 * ' - ) 0 ' # ( &+
2 34356789+:8;;6<6;=>;?;@A+
! "#$%&' "$!&()#$*+$,$-*... /O&1(2$3*1(4,5$3,5(6$7&18&9)&O#$,O:$("#$;,)/#1$*+$("#$<*=&#($>#'&.#I''
      +% a -&M:';&&#$)#2R'b)".F%"$';&&#$)#2'P$#0%"2#.3'7"%22:'5>4=I''
```

- # (\$%''%(-%+)(.+M#''R&P#!+!''%&%(0)0'#(&+:&'(-%+STUVA+
- STF%'i()\$Q%"2-.#)\$c'-2'-\$';\$2."J/%\$.')0'9)Q#%.'7)\_%"IX']#G\_%2.'LJ22#-\$'1#2.)"3'W)"82F),:'' P\$#Q%"2#.3')0'b)."%'+-/%:'<,"#&'5>5?I'
- STF%'i()\$Q%"2-.#)\$c'-2'-\$';\$2."J/%\$.')0'9)Q#%.'7)\_%"R'a!^'i(F-.2c'#\$'TF%#'''^")-G%"'()\$.%V.IX'' a!^'<"EF#Q%2'W)"82F),'F%&G')\$&#\$%'0")/'.F%'P\$#Q%"2#.3')0']%&M)J"\$%'[<J2."-&#-\:'Y%M"J-"3'5>55I'
- \$^#\*'kJ%2.#)\$2:'9 / -&&'<\$2\_%"2R'L%Q#.-&#Z#\$\*'.F%';\$.%" / %G#-.%'1#2.)"3'()J"2%IX''< / %"#E-\$'' 1#2.)"#E-&'<22)E#-.#)\$'\_%M#\$-"')\$'STF%'YJ.J"%2')0'1#2.)"3'0") / '.F%'e#M%"-&'<".2'()&&\*\*' 7%"2, %E.#Q%:X'N-\$J-"3'5>54I'
- $SL\%E\#G\#Q\#2\ /\ :'7")\ ,F3\&-V\#2:'-\$G'.F\%'a\ !\ ^IX'7-\ ,\%''0)"'STF\%'7)\&\#.\#E-\&'7)\&\#E\%'-\$G'.F\%'9)Q\#\%.'932.\%\ /\ R''\ ;\$2\#*F.2'0")\ /\ 'b\%\_\&3'\ f\ ,\%\$\%G'a\ !\ ^'<"EF\#Q\%2'\#\$'.F\%'Y)"\ /\ \%'''9)Q\#\%.'L\%,\ JM\&\#E2:X')"\#*\#\$-\&\&3'\ ,\&-\$\$\%G'-2'-\$'\#\$.\%"\$-.\#)\$-\&'E)\$0\%''\%\$E\%'-.'!\ %)"*\%.) _$'P\$\#Q\%''2\#.3'MJ.'.J"\$\%G'\#\$.)'-\$'\ )\$\&\#\$\%'E)\$0\%''\%\$E\%1_\ %M\#\$-"'[2\ ,)\$2)"\%G'M3'.F\%'<22)E\#-.\#)\$'0)"'9\&-Q\#E:'U-2.'UJ")\ ,\%-\$:'-\$G'UJ"-2\#-\$'9.JG\#\2\'M\%E-J2\%')0'.F\%'E)")\$-Q\#"J2'\ ,-\$G\% /\ \#E:'<\ ,"\#\$'5>5>I'$
- STF%'a!^\partial' a! \nabla partial' a! \nabla partial' a! \nabla partial part
- STF%'a!^'-2'O#E%'9nJ-GR'35\*+&), K(&K, \$-\$G'.F%'9."J\*\*&%'\_#.F'<\$.#2)E#-&'^%F-Q#)"'#\$'^-&.#E'7)".'' (#.#%2IX'TF%'

```
] %-2J"%2c'#$'.F%'^-&.#E'L%, JM&#E2IX'()$0%"%$E%')$'^-&.#E'9.JG#%2'#$'UJ"),%:'.F%'P$#Q%"2#.3')0'e-.Q#-:'NJ$%'5>4CI'
```

- \$<'9)Q#%.'TF%)"3')0'^")8%\$'W#\$G)\_2R'7"),F3&-E.#E'7)&#E#\$\*'-\$G'.F%'a!^c2'9."J\*\*&%'\_#.F''
  7)&#.#E-&'P\$"%2.'#\$'.F%'^-&.#E'9.-.%2IX']#G\_%2.'LJ22#-\$'1#2.)"3'W)"82F),:'b)".F\_%2.%"\$'
  P\$#Q%"2#.3:']-"EF'5>4CI'
- \$7"), \$F3&-E.#E'7)&#E#\$\*'-\$G'.F%' a ! ^c2'9."J\*\*&%'\_#.F'Y)"%#\*\$';\$0&J%\$E%'#\$'e#.FJ-\$#-:'4A=A@' 4AA4IX'O#&\$#J2'93 / ,)2#J / ')\$'e-.%'9)Q#%.'-\$G'7)2.@9)Q#%.';22J%2'[O#&\$#J2:'e#.FJ-\$#-\:'+%E% / M%"'5>46I'
- \$7"),F3&-E.#E'7)&#E#\$\*'-\$G'.F%'a!^c2'9."J\*\*&%'\_#.F'.F%'^-&.#E'+#22#G%\$.'])Q% / %\$.'#\$'.F%'4AC>2''-\$G'4Ad>2IX'TF%'<22)E#-.#)\$'0)"'9&-Q#E:'U-2.'UJ"),%-\$:'-\$G'UJ"-2#-\$'9.JG#%2'-\$\$J-&'E)\$Q%\$.#)\$:'b)Q% / M%"'5>46I'
- \$7"),F3&-E.#E'7)&#E#\$\*'-\$G'.F%'a!^c2'9."J\*\*&%'\_#.F'.F%'^-&.#E'+#22#G%\$.'])Q% / %\$.'#\$'.F%'4AC>2''
  -\$G'4Ad>2IX'<22)E#-.#)\$'0)"'.F%'<GQ-\$E% / %\$.')0'^-&.#E'9.JG#%2'E)\$0%"%\$E%:'.F%'
  P\$#Q%"2#.3')0'7%\$\$23&Q-\$#-:']-3'5>46I'
- \$<'9)Q#%.'TF%)"3')0'^")8%\$'W#\$G)\_2R'7"),F3&-E.#E'7)&#E#\$\*'-\$G'.F%'a!^c2'9."J\*\*&%'\_#.F''
  7)&#.#E-&'P\$"%2.'#\$'.F%'^-&.#E'9.-.%2IX'()&&)nJ#J/',"%2%\$.-.#)\$'-.'.F%'N)"G-\$'(%\$.%"'0)"'
  .F%'<GQ-\$E%G'9.JG3')0'LJ22#-:'b%\_'h)"8'P\$#Q%"2#.3:'<,"#&'5>46I'
- \$7"),F3&-E.#E'7)&#E#\$\*'-\$G'.F%'U,#G% / #)&)\*3')0'+#22%\$.'#\$'.F%'9)Q#%.@U"-'^-&.#E'9.-.%2IX''';\$.%"G#2E#,&#\$-"3'23 / ,)2#J / ')\$'\$T"-\$20)" / #\$\*'()\$.-\*#)\$:X'<"#Z)\$-'9.-.%'P\$#Q%"2#.3:' f E.)M%"'5>4=I'
- $S() \$.-\#\$\#\$'.F\%'Y) \%\#*\$'TF\%'-.R'TF\%' a ! ^c2'P2\%') 0'35*+\&), K(\&K,'.)'Y\#*F.'Y) \%\#*\$';\$0\&J\%\$E\%'\#\$'' e\#.FJ-\$\#-'0") / '.F\%'4A=>2'.)'.F\%'4Ad>2IX'TF\%'() \$0\%''\%\$E\%') \$'^-\&.\#E'9.JG\#\%2'\#\$'UJ") ,%:' ] -"MJ"*:'!\%" / -\$3D'9\%, .\% / M\%''5>4=I'$
- S()\$.-#\$#\$\*'.F%'Y)"%#\*\$'TF"%-.R'TF%'a!^c2'P2%')0'35\*+&), K(&K,'.)'Y#\*F.'Y)"%#\*\$';\$0&J%\$E%'#\$''e#.FJ-\$#-'#\$'.F%'4A6>2'-\$G'4AC>2IX'TF%'<22)E#-.#)\$'0)"'9&-Q#E:'U-2.'UJ"),%-\$:'-\$G'UJ"-2#-\$'9.JG#%2'-\$\$J-&'E)\$Q%\$.#)\$:'b)Q%/M%"'5>4?I'
- $S35*+\&), \textit{K(\&K, '-$G'.F\%'9."J**\&\%'\_\#.F'7)\&\#.\#E-\&'P\$"\%2.'\#\$'^"\%ZF\$\%Q@U"-'e\#.FJ-\$\#-IX'h-\&\%''}\\ ()\$0\%"\%\$E\%')\$'^-\&.\#E'-\$G'9E-\$G\#\$-Q\#-\$'9.JG\#\%2:']-"EF'5>4?I'$
- -#/"&%&+#\$\$%"%.+)0+O""((%\*\*+-#\*\*%O%+
- Y#"2.@h%-"'TJ.)"#-&R''' TF%'e#0%'-\$G'T#/%2')0'b#8#.-'aF"J2FEF%Q'
- Y#"2.@h%-"'TJ.)"#-&R''' TF%'1#2.)"3')0'L%-G#\$\*'
- Y#"2.@h%-"'TJ.)"#-&R'' TF%'e#M%"-&'<".2'-2'-'Y)"E%'0)"'UO#&'
- 1#2.)"3'4>>R''' :\$.")GJE.#)\$'.)'1#2.)"#E-&':\$nJ#"3R'UJ"),%'J\$G%"'.F%'!"%-.'+#E.-.)"2'
- 1#2.)"3'4>>R'';\$.")GJE.#)\$'.)'1#2.)"#E-&';\$nJ#"3R'1)\_'1#2.)"3'W)"82'
- 1#2.)"3'4>=R''' (J&J"-&'U\$E)J\$.%"2'#\$'1#2.)"3'

- o 2%-"EF'E) / /#..%%'0)"'.%\$J"%@."-E8',)2#.#)\$'#\$'U-2.'<2#-\$'F#2.)"3:'5>4C@5>4d'
- o 2%-"EF'E) / /#..%%'0)"'.%\$J"%@."-E8',)2#.#)\$'#\$' / %G#%Q-&')"'%-"&3' / )G%"\$'