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!"#\$!%\$&\$'()!*\$+(',-\$.,!/0!1\$(),#!(.&!12-(.!3\$'456\$7!#(7!&\$4\$)/+\$&!
'\$82)(9/.7!;; <!=%>!?(',!@A!32B+(',!%!(.&!;@!=%>!?(',!C;D!/.!?'/-/9.8!EBF\$6945,G!5.!>\$7\$('6#H!"#\$!'\$82)(9/.7!1 \$'\$!J'7,!&\$4\$)/+\$&!5.!KCC@L!(.&!5.!<AKKL!,#\$!'\$82)(9/.7!1 \$'\$!'\$457\$&H!"#\$7\$!
'\$82)(9/.7!&\$76'5B\$!,#\$!(69/.7!(.!5.&545&2()!(.&!(.!/'8(.5M(9/.!-27,!,(N\$!,/!+'/-/,\$!

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:5550 a 5,#!'\$8('&!,/!5.,\$))\$6,2()!+'/+\$',G!'58#,7!(. &!5.,\$'\$7,7!:\$H8HL!+(,\$.,7L!6/+G'58#,7DL!(758.5J6(.,!J.(.65()!5.,\$'\$7,!\$\57,7!2+/.!'\$6\$5+,!/0!5.6/-\$!/0!8'\$(,\$'!,#(.!b@LAAA '\$)(,\$&!,/!726#!'58#,7!(. &!5.,\$'\$7,7H

<D "#\$!,\$' - !758. 5J6(. ,!J. (. 65()!5. ,\$'\$7,!&/\$7!. /,!5. 6)2&\$!,#\$!0/))/I 5. 8!,G+\$7!/0!J. (. 65()
5. ,\$'\$7,7d</pre>

3()('Q!'/G()9\$7L!/'!/,#\$'!'\$-2.\$'(9/.!+(5&!BG!=/)2-B5(!0.,\$'.(9/.()!W.54\$'75,G!,/,#\$!0.4\$798(,/'!50!,#\$!0.4\$798(,/'!57!62''\$.,)G!\$-+)/G\$&!/'!/,#\$'I 57\$!(++/5.,\$&!BG=/)2-B5(!0.,\$'.(9/.()!W.54\$'75,G!5.6)2&5.8!5.,\$))\$6,2()!+'/+\$',G!'58#,7!(7758.\$&!,/=/)2-B5(!0.,\$'.(9/.()!W.54\$'75,G!(.&!(8'\$\$-\$.,7!,/!7#('\$!5.!'/G()9\$7!'\$)(,\$&!,/726#!'58#,7|

0. 6/- \$!0'/- !5. 4\$7,-\$.,!4\$#56)\$7L!726#!(7!-2,2()!02. &7!(. &!'\$9'\$-\$.,!(66/2.,7L!(7)/. 8!(7!,#\$!0. 4\$798(,/'!&/\$7!./,!&5'\$6,)G!6/.,'/)!,#\$!5. 4\$7,-\$.,!&\$6575/.7!-(&\$!5.,#\$7\$!4\$#56)\$7H

0. $6/-\$!0'/-\$!7\$'456\$!/.\$!(\&457/'G!6/--5[\$\$7!/'!'\$45\$1 !+(.\$)7!0/'!(!0\$\&\$'()L!7,(,\$L!/')/6()!8/4\$'.-\$.,!(8\$.6G!)/6(,\$\&!5.!,#\$!W.5,\$\&!3,(,\$7!:WH3HDL!(!WH3HIQ.79,29/.!/0#58#\$'!\$\&26(9/.L!(.!(6(\&\$-56!,\$(6#5.8!\#/7+5,()L!(!-\$\&56()!6\$.,\$'L!/'!(!'\$7\$('6\#5.79,2,\$!,\#(,\!57!(\e)\$(,\$\&!1.5,\#!(!WH3HIQ.79,29/.!/0!\$58\$'!\$\&26(9/.H$

fD 0. 4\$798(,/'7!- 27,!&576)/7\$!,#\$!/662''\$. 6\$!/0!(. G!0/'\$58. !/'!&/- \$796!'\$5- B2'7\$&!/'

- (!0\$&\$'()L!7,(,\$L!/'!)/6()!8/4\$'. \$.,!(8\$.6G!)/6(,\$&!5.!,#\$!W.5,\$&!3,(,\$7L!
- (!W. 5,\$&!3,(,\$7!0.79,29/.!/0!#58#\$'!\$&26(9/.L!
- (.!(6(&\$ 56!,\$(6#5.8!#/7+5,()L!
- (!- \$&56()!6\$.,\$'L!/'!

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• (!'\$7\$('6#!5. 79,2,\$!(e)5(,\$&!I 5,#!(!W. 5,\$&!3,(,\$7!0. 79,29/. !/0!158#\$'!g&26(9/. H!

!h!Q. 4\$798(,/'7!- 27,!&576)/7\$!())!Q/'\$58. !J. (. 65()!5. ,\$'\$7,7!:1 #56#!
5. 6)2&\$7!5. 6/- \$!0'/- !7\$- 5. ('7L!)\$6,2'\$7L!/'!,\$(6#5. 8!\$. 8(8\$- \$. ,7L!5. 6/- \$!0'/- !7\$'456\$!/.!
(&457/'G!6/- - 5[\$\$7!/'!'\$45\$1 !+(.\$)7L!(.&!'\$5- B2'7\$&!/'!7+/.7/'\$&!,'(4\$)D!'\$6\$54\$&!0'/- !(.G!
0/'\$58. !\$. 9,GL!5. 6)2&5. 8!Q. 79,29/. 7!/Q!#58#\$'!\$&26(9/.!/'!(!Q/'\$58. !8/4\$'. - \$. ,!:1 #56#!
5. 6)2&\$7!)/6()L!+'/45. 65()L!/'!\$V254()\$. ,!8/4\$'. - \$. ,7!/Q!(./,#\$'!6/2.,'GD!1 #\$.!726#!5. 6/- \$!
- \$\$,7!,#\$!,#'\$7#/)&!Q/'!&576)/72'\$!:\$H8HL!5. 6/- \$!5. !\$\6\$77!/Q!b@LAAADH!

^,!, $\#\$!9 - \$!/0!(++)56(9/. L!,<math>\#\$!?'5. 65+()!0. 4\$798(,/'!(. \&!())!/,<math>\#\$'!5. \&545\&2()?!1 \#/!- \$\$,!,\#\$! \&\$J. 59/. !/0!_0. 4\$798(,/'`!- 27,!&576)/7\$!,<math>\#\$5'!3\%0?!,/!=/)2 - B5(!0. ,\$'. (9/. ()!W. 54\$'75,G]! \&\$758. (,$\&!/e65()!h!0/'!,<math>\#\$!+2'+/7\$!/0!,\#57!+/)56GL!,\#\$!3EH!^{.}$. G!. \$1 !0. 4\$798(,/'!! #/L!(i \$'! (++)G5. 8!,/!P01!0/'!02. &5. 8!0'/- !P01!/'!&2'5. 8!,<math>#\$!6/2'7\$!/0!,#\$!'\$7\$('6#!+'/F\$6,L!+)(. 7!,/!+('965+(,\$!5. !,<math>#\$!+'/F\$6,L!+)(. 7!,/!+('965+(,\$!5. !,#\$!+'/F\$6,H!!))

g(6#!0. 4\$798(,/'!! #/!57!+('965+(9. 8!5. !'\$7\$('6#!2. &\$'!(. !P01!(1 ('&!- 27,!72B- 5,!(. !2+&(,\$&! &576)/72'\$!/0!3%0!(,!)\$(7,!(. . 2())G!&2'5. 8!,#\$!+\$'5/&!/0!,#\$!(1 ('&#!326#!&576)/72'\$!- 27,!5. 6)2&\$! (. G!5. 0/'- (9/. !,#(,!1 (7!. /,!&576)/7\$&!5. 59())G!,/!=/)2-B5(!0. ,\$'. (9/. ()!W. 54\$'75,G!+2'72(. ,!,/! ,#57!?/)56G!/'!5. !(!72B7\$V2\$. ,!&576)/72'\$!/0!3%0!:\$H8HL!(. G!J. (. 65()!6/. Y56,!/0!5. ,\$'\$7,!5&\$. 9J\$&! /.!(. !P01002. &\$&!+'/F\$6,!&5'\$6,)G!(7!(. !P011j '(. ,\$\$!(. &U/'!5. &5'\$6,)G!,#'/28#!(!72B0(1 ('&D! ,#(,!1 (7!,'(. 70\$''\$&!0'/-!(. /,#\$'!0. 79,29/. DL!(. &!- 27,!5. 6)2&\$!2+&(,\$&!5. 0/'- (9/. !'\$8('&5. 8! (. G!+'\$45/27)G!&576)/7\$&!3%0!:\$H8HL!,#\$!2+&(,\$&!4()2\$!/0!(!+'\$45/27)G!&576)/7\$&!\$V25,G!5. ,\$'\$7,DH!! g(6#!0. 4\$798(,/'!+('965+(9. 8!5. !?13UP01002. &\$&!'\$7\$('6#!- 27,!72B-5,!(. !2+&(,\$&!&576)/72'\$! /0!3%0!1 5,#5. !,#5',G!:FAD!&(G7!/0!&576/4\$'5. 8!/'!(6V25'5. 8!(!. \$1 !3%0!:\$H8HL!,#'/28#!+2'6#(7\$L! !,#(\$!\$(8\$(\mathcal{E})))]*#\$\$(8\$(\mathcal{E})/-!5)!\$(. 6\$0H!0. !(&&59/. L!0. 4\$798(,/'7!- 27,!72B-5,!(. !2+&(G!. \$1 !0. 0FSW\$Hq94(\$7)1?2'/2'()1?2''9

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,#$!3%0!57!'$)(,$&!,/!,#$!?13UP01002. &$&!'$7$('6#!(. &L!50!7/L!I #$,#$'!,#$!3%0!6'$(,$7!(!%5. (. 65()! =/. Y56,!/0!0. ,$'$7,!'$)(,$&!,/!,#(,!'$7$('6#!(I ('&H!!!!!)!!)!
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"#\$!%=E0!6/--5[\$\$!I5))!&\$,\$'-5.\$!I#\$,#\$'!(.!0.4\$798(,/']7!3%0!57!'\$)(,\$&!,/!,#\$!'\$7\$('6#!2.&\$'!(.!P01!(I('&!(.&l!50!7/L!I#\$,#\$'!,#\$!3%0!57!(!J.(.65()!6/.Y56,!/0!5.,\$'\$7,H!!!



&\$,\$'-5. \$&!,#'/28#!'\$0\$'\$. 6\$!,/!+2B)56!+'56\$7!/'!/,#\$'!'\$(7/. (B)\$!-\$(72'\$7!/0!0(5'!-('N\$,!4()2\$||!!

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8'(.,7H.5#H8/4H!!
^&&59/. ()!5. 0/'- (9/. !/. !%=E0!'$+/'9. 8!6(. !B$!0/2. &!2. &$'!,#57!'$0$'$. 6$d!"G+$7!/0!%=E0!
>$+/',7!32--('G!=#(',!0/'!P01!(.&!57!(4(5)(B)$!(,!
'$V25'$&o%=EQo'$+/',7o,#'/28#o$'(o6/- - /.7\\&/6\!!
:)54$H6/- DH!!
q(6#!0.4$798(,/'!15))!B$!5.0/'-$&!(B/2,!=/)2-B5(!0.,$'.(9/.()!W.54$'75,G]!\%5.(.65()!=/.Y56,!/0!)
Q., $'$7,!?/)56G!(.&!B$!, '(5.$&!/.!,#$!Q.4$798(,/']7!'$7+/.75B5)5,G!,/!&576)/7$!Q/'$58.!(.&!
&/- $796!3%U7!+$'!,#57!+/)56G!(. &!/0!,#$!%=E0!'$82)(9/.!(,!;<!=%>!?(',!@A!32B+(',!%!!%=E0!
,'(5. 5. 8!I 5))!/662'!+'5/'!,/!(. !0. 4$798(,/'!$. 8(85. 8!5. !?13UP01002. &$&!'$7$('6#L!(,!)$(7,!$4$'G!
0/2'!G$('7!(. &!5- - $&5(,$)G!:(7!&$J. $&!B$)/I D!I #$.!(. G!/0!,#$!0/))/I 5. 8!65'62-7,(. 6$7!(++)Gd!
      KD =/)2-B5(!Q.,$'. (9/. ()!W.54$'75,G!'$457$7!,#57!?/)56Q!/'!+'/6$&2'$7!'$)(,$&!,/!,#57!?/)56Q!
            5.!(.G!-(..$'!,#(,!(X$6,7!,#$!'$V25'$-$.,7!/0!0.4$798(,/'7c!
      :,'(5. 5. 8!57!,/!B$!6/- +)$,$&!+'5/'!,/!#57U#$'!+('965+(9/. !5. !,#$!'$7$('6#Dc!/'!
ļ
      fD =/)2 - B5(!0.,$'. (9/. ()!W. 54$'75,G!J. &7!,#(,!(.!0. 4$798(,/'!57!. /,!5. !6/- +)5(. 6$!I 5,#!,#57!
            ?/)56G!/'!(!- (. (8$- $. ,!+)(. !5772$&!2. &$'!,#57!?/)56G!;/'(5. 5. 8!57!,/!B$!6/- +)$,$&!I 5,#5.!
            fA!&(G7!5.!,#$!-(..$'!7+$65J$&!BG!,#$!&$758.(,$&!/e65()DH!
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W. 54\$'75, G!'\$V25'\$7!5, 7!5. 4\$798(,/'7!,/!6/-+)\$, \$!, \#\$!P(9/.()!0.79,2,\$7!/0!1\$(),\#]7!\%5.(.65()!
=/. Y56,!/0!0. ,$'$7,!,2,/'5()!)/6(,$&!(,d!
#[+dUU8'(.,7H.5#H8/4U8'(.,7U+/)56GU6/5U,2,/'5()<AKKU06/5H#,-!!5.!(66/'&(.6$!15,#!,#$!
'$V25'$-$.,7!(.&!$\+$6,(9/.7!/0!,#57!?/)56GH^))!5.4$798(,/'7!-27,!+'5.,!(!6$'9J6(9/.!/0!
6/-+)$9/.!(,!,#$!$.&!/0!,'(5.5.8!(.&!'$,(5.!5,!0/'!(2&5,!+2'+/7$7\\)!!
a#$.!(.!%=E0!57!./,!5&$.9J$&!/'!-(.(8$&!5.!(!9-$)G!-(..$'L!5.6)2&5.8!0(5)2'$!BG!,#$!
Q. 4$798(,/'!,/!&576)/7$!(!758.5J6(.,!J.(.65()!5.,$'$7,!,#(,!57!&$,$'-5.$&!BG!,#$!Q.79,29/.!,/!
6/. 79,2,$!(!%=E0!0(5)2'$!BG!,#$!0. 79,29/.!,/!'$45$1!/'!-(.(8$!726#!(.!%=E0:!(.&!0(5)2'$!BG!,#$!
Q. 4$798(,/'!,/!6/- +)G!I 5,#!(!- (. (8$-$.,!+)(.c!=/)2-B5(!Q.,$'. (9/.()!W.54$'75,G!I 5))!I 5,#5.!
K < A! \& (G7d!)
      KH (D!=/-+)$,$!(!'$,'/7+$694$!'$45$1 !/0!,#$!0. 4$798(,/']7!(69459$7!(. &!,#$!?13UP010
            02. &$&!'$7$('6#!+'/F$6,!,/!&$,$'-5. $!I #$,#$'!(. G!P01002. &$&!'$7$('6#L!/'!+/'9/.!
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,#$'$/0!!6/. &26,$&!&2'5. 8!,#$!+$'5/&!/0!,#$!. /. 6/- +)5(. 6$!I (7!B5(7$&!5. !,#$!&$758. L!
       6/. &26,L!/'!'$+/'9. 8!/0!'$7$('6#c!
   <H BD!*/62-$.,!,#$!'$,'/7+$694$!'$45$1!6/.757,$.,!I5,#!,#$!'$82)(9/.!(,!;<!=%>!
       @AHZA@: (D: fD:55D: TD!/'!(7!&$76'5B$&!5. !PQ1]7!%^m!OH<H!(,!!
       %'$V2$.,)G!^7N$&!m2$79/.7!:%^m7D!n8'(.,7H.5#H8/4c!
00!B5(7!57!0/2. &L!=/)2-B5(!Q.,$'. (9/. ()!W.54$'75,G!7#())!. /90G!PQ1!+'/-+,)G!(. &!72B-5,!(!
-598(9/.!$+/',!,/!P01!45(!,#$!$>^!=/--/.7!\%=E0!k/&2)$!,#(,!7#())!(&&'$77!,#$!0/))/15.8d!
ļ
     0- +(6,!/0!,#$!B5(7!/.!,#$!'$7$('6#!+'/F$6,L!(. &!
   • =/)2-B5(!0.,$'.(9/.()!W.54$'75,G]7!+)(.!/0!(69/.!/'!(69/.7!,(N$.!,/!$)5-5.(,$!/'!
       - 598(,$!,#$!$X$6,!/0!,#$!B5(7H!
"#$'$(i $'L!=/)2-B5(!0.,$'.(9/.()!W.54$'75,G!7#())!72B-5,!%=E0!'$+/',7!(..2())G!,/!P01!5.!
(66/' \& (.6\$!15, \#!, \#\$!'\$82)(9/.7!(.\&!, \$'-7!(.\&!6/.\&59/.7!/0!, \#\$!(1('\&!(8'\$\$-\$.)!!*\$+\$.\&5.8!)))
/.!,#$!. (,2'$!/0!,#$!%5. (.65()!=/.Y56,!/0!0.,$'$7,L!=/)2-B5(!0.,$'.(9/.()!W.54$'75,G!-(G!
&$,$'-5.$!,#(,!(&&59/.()!5.,$'5-!-$(72'$7!('$!.$6$77('G!I5,#!'$8('&!,/!,#$!0.4$798(,/']7!
+('965+(9/.!5.!,#$!'$7$('6#!+'/F$6,!
B$,1 $$.!,#$!&(,$!,#(,!,#$!%5. (.65()!=/. Y56,!/0!0.,$'$7,!57!5&$.9J$&!(.&!,#$!6/-+)$9/.!/0!
=/)2-B5(!Q.,$'.(9/.()!W.54$'75,G]!5.&$+$.&$.,!\$,\'/7+$694$!\$45$1 H!00!B5(7!57!./,!0/2.&L!./!
02',#$'!(69/.!57!'$V25'$&H!!
00!113!&$,$'-5. $7!,#(,!/. $!/0!5,7!02. &$&!6)5. 56()!'$7$('6#!+'/F$6,7!1 #/7$!+2'+/7$!57!,/!$4()2(,$!
,#$!7(0$,G!/'!$X$694$.$77!/0!(!&'28L!-$&56()!&$456$L!/'!,'$(,-$.,L!#(7!B$$.!&$758.$&L!
6/. &26,$&!/'!'$+/',$&!BG!(. !0. 4$798(,/'!I 5,#!(!%5. (. 65()!=/. Y56,!/0!0. ,$'$7,!,#(,!I (7!. /,!
- (. (8$&!/'!'$+/',$&!BG!=/)2-B5(!Q.,$'. (9/. ()!W.54$'75,GL!=/)2-B5(!Q.,$'. (9/. ()!W.54$'75,GL
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+'$7$.,(9/.!/0!,#$!'$72),7!/0!,#$!'$7$('6#!(.&!,/!'$V2$7,!(.!(&&$.&2-!,/!+'$45/27)G!+2B)57#$&!
+'$7$.,(9/.7\!!
^!72B'$65+5$.,!'$)(9/.7#5+!57!$7,(B)57#$&!I #$.!0$&$'()!02.&7!Y/I !&/I .!0'/-!/'!,#'/28#!
=/)2-B5(!0.,$'.(9/.()!W.54$'75,G!,/!(./,#$'!5.&545&2()!/'!$.9,Q!(.&!,#$!72B'$65+5$.,!I 5))!B$!
6/. &269. 8!(!72B7, (. 94$!+/'9/. !/0!(!?13002. &$&!'$7$('6#!+'/F$6,!(. &!57!(66/2.,(B)$!,/!
32B'$65+5$. ,7L!I #/!5. 6)2&$!B2,!('$!. /,!)5- 5,$&!,/!6/))(B/'(,/'7L!6/. 7/'92-!-$-B$'7L!
6/.72), (.,7\!6/.,'(6,/'7\!72B6/.,'(6,/'7\!(.&!72B0(1 ('&$$7\!('$!72Bf$6,!,/!=/)2-B5(!
Q., $'. (9/. ()!W. 54$'75,G]!,$' - 7!(. &!6/. &59/. 7L!(. &!(7!726#L!=/)2 - B5(!Q.,$'. (9/. ()!W. 54$'75,G!
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Q.U6(') -.3 ,H.)\$(6) 8.44 (!) -0.1 !

; @!=H%H>H!I @HfZK!0/'!&5X\$'\$. ,!75,2(9/. 7H!=/)2 - B5(!0. ,\$'. (9/. ()!W. 54\$'75,G!I 5))!'\$, (5. !'\$6/'&7!0/'! \$(6#!6/- +\$994\$!7\$8-\$. ,!(7!+'/45&\$&!5.!,#\$!'\$82)(9/. H!! I

= /- +)5(.6\$!15, #!, #57! + /)56G!57!(!6/.859/.!/0!\$ - +)/G - \$., !(.8U/'! + ('965 + (9/.!0/'!())!(++)56(B)\$!