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"#\$%&'()*+,-./:0 1 2 3 4 5 \$! 3 - 6 & & 7! 8 7) 9 (% #:) 7 7! & ; ! ") < 6 % \$ = !
3 6 ; %) . < ! > (' (/) < 9 \$! ; ' & 9 ! > , .) \$ 6 9 # . % ! % & ! ? # (7) . <

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"#\$%&'()*+,-.! ! ! ! ! ! ! ! ! ! /!

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"0.-12#-! ! ! ! ! ! ! ! ! ! ! ! ! ! 3!

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4%-1&*5#-6&%!! ! ! ! ! ! ! ! ! ! ! ! ! ! 7! !

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86-)12-51)!9):6) ' ! ! ! ! ! ! ! ! ! ! ;!

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<2#\$+1&5%*!! ! ! ! ! ! ! ! ! ! ! ! ! ! =>!

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?)-@&*.! ! ! ! ! ! ! ! ! ! ! ! ! ! =A!

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"#\$%&'()*+,-.:/:;<=>?@

! @AB-\$B!+-!-\$C'B!\$!4+##\$/ '!'-!%\$+B'!\$!*D+#,;-D+B!9%.E'*-!F.A#,!(.-!D\$4'!* .5'!'-.!G%A++.(!
F+-D.A-!-D'!BA99.%-!.G!5\$(7!9'.9#'!;G.%!FD.5!H!\$5!4'%7!/%\$-GA#!134'%7.(!'!+(!-D'!0!\$(!\$(,!
3(4+%.(5'(-\$#!6.#+*7!\$(,!3,A*\$\$.(!,'9\$%-5'(-B!\$-!)**+, '(-\$#" .##'/'!D\$B!1''(!+(-'/%\$#!-!57!
\$*\$, '5+*!, '4'#.95'(-!,A%+(/!57!+5'!\$-!)J7I!KD\$(C!7.A!-!57!\$,4+B.%!G.%!-D+B!9%.E'*-;!
6%.G'BB.%!LD\$4(\$!MD\$5\$BA(,%;!G.%!\$##!D'%/A+,\$(*'!\$(,!\$(!+(*%'+1#!\$5.A(-!.G!9\$+'(*',A%+(/
BA*D!\$!-A5A#-A.AB!+5'I!6%.G'BB.%!N+*D\$%,!O.%\$!.G!-D'!M.*+.#./7!, '9\$%-5'(-!\$(,!6%.G'BB.%!
KD\$#!\$!P.(QR#'Q!.G!-D'!)**+, '(-\$#!6.#+*+*B!, '9\$%-5'(-!\$(,!F'(-!\$1.4'!\$(,!1'7.(,!-!BA99.%-!5'
+(!-D+B!F.%C!\$(,!9%.4+',!B.!5A*D!4\$A\$1#!'+(B+/D-!\$(,!G'' ,1\$*CI!KD\$(C!7.A!\$B!F'##!-!6%.G'BB.%!
N.(\$#,!M.#S%Q\$(,!\$(,!6%.G'BB.%!T\$O.(-!K'%7!G.%!*D\$##'(/+(/!FD\$-H!-D.A/D-H!C('F!\$1.A-!FD\$-!
',A*\$\$.(!BD.A#,!1'I!MD.A-.A-!-!57!036!9''%*.55A(+7;!.(!'FD+*D!D\$B!/+4'(!5'!B.5'!.G!57!
#.B'B-!G%+'(,B!FD.!D\$4'!1''(!B.!('.A%\$/+(/!-D%.A/D.A-!-D+B!9%.*'BB!'4'(!B!-D'7!F.%C',!-!
G+(+BD!-D'+%!F(!U\$5\$Q+(/V!B'(+.%!-D'B'B!\$\$(,!-!'4'%7.(!'FD.!5\$C'B!A9!57!F.(,%GA#!BA99.%-!
B7B-'5!I!KD\$(C!7.A!-!O+D+##\$!"D\$(,%\$;!@A,+D!6+(*D!\$(,!D\$%#7('!M\$5+'(-!.!G!-D'!)J7!
W%++(/!"'(-'%!G.%!-\$C+(/!-D'!+5'!-.!9%..G%'\$,!-D+B!-'J!-B.!-D.%A/D#7X!HY,!#-C'!-!'J-'(,!\$!DA/'!
-D\$(C!7.A!-!\$##!-D'!9'.9#!!FD.!H!+(-'%4+'F',!.%!'(/\$/' ,!+(!,+\$#. /A'!F+-D!\$1.A-!-D+B!9%.E'*-;!H!
*.A#, (Y-!D\$4'!,.(!'!+-!F+-D.A-!7.A!\$##!\$(,!7.A#!BA99.%-!5'\$(B!-D'!F.%#,!-!5'IH!\$#B.!F\$(!-!-!

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"0.-12#-!

H(!<=>?;!-D'!T.B!8 (/ '# 'B!O (+G+', IM*D. .#! [+B-%+*-!UT8 OM [V!4. -', !G. %!-D'!9\$BBS/ '! .G!\$!

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4%-1&*5#-6&%!

!!!!!!! M*D. .#!, +B*+9#+('!(\$, !B*D. .#!BSG'-7!D\$4'!1 '* . 5 ' !D. -! . 9+*B!+(!%' * ' (-!7' \$%B!UL% . F (!<=<=<c!
d\$%9' %!<=<=<c!M-' % (!\$(, !N. / ' %B!<=>ec!M\$ 5 \$D\$!<=>fc!d+%B*DG+' #, !<=>fc!P%' / . %7;!MC+1\$;!2!
O' , %+\$-\$!<=>:c!) C+#F\$;!&D\$#+G\$;!2 !L%+B* . ' !<=>:c! [+#1 '%-+;!d\$(B' (;!@\$*CB. (;!\$(, !&' 59!<=>:c!
d'+Q' /!<=>`c!M*D'9-;!W\$##;!2 !L%+B 5 \$(!<=>`VI!L'-F' ' (!g-. A/D! . (!*%+5 'h!9. #+*+'B!9' % 5 '\$+(/!
'4' %7!# '4'#!. G! , '*+B+. (a 5 \$C+(/!-. !S!%+B' !+(!5 \$BB!BD. . +(/B!\$-!B*D. . #B;!B*D. . #! , +B-%+*-B!\$*% . BB!-D'!
* . A(-%7!D\$4' !-A% (' , !- . !D\$%BD' %! , +B*+9#+(' ;!BA%4' +##\$(* ' !\$(, !9. #+*+(/! . G!-D' +%!B-A, ' (-B!u i +-\$#!
<=>:VI!T. B!8 (/ ' #'B!O (+G' , !M*D. .#! [+B-%+*-!UT 8 OM [V!+B! (.!'J* '9-+. (I!KD% . A/D! 5 '-D. , B! . G!
'J*#AB+. (\$%7! , +B*+9#+(' !#C' !BAB9' (B+. (!\$(, !'J9A#B+. (;!T 8 OM [!B-A, ' (-B j 'B9' *+\$##7!B-A, ' (-B! . G!
* . #. % j \$% ' !9ABD' , !. A-! . G!B*D. . #!\$(, !. G-' (!A(EAB-#7!*%+5+(\$#+Q' , !17!B*D. . #!B-\$GG!U" 8 [N3!<=>:c!
N. 1 '%-!2!) C+#F\$!<=>fVI!KD' !. 4' %!9. #+*+(/! . G!7. A-D!\$-!B*D. . #!D\$B!\$!B-%. (/! (' /\$+4' !+ 5 9\$*-! . (!
B-A, ' (-BY! 5 ' (-\$#!D' \$%-D;!\$*\$, ' 5 +*!9' %G. % 5 \$(* ' !\$(, !. 4' %##!B*D. . #!BSG'-7!U3- . F! '-!\$#!<=<=<VI!!
8 , , +. (\$##7;!-D' % ' !S% ' !* . ##\$- '%\$#!* . (B'^A' (*'B! . G!B*D. . #! , +B*+9#+(' !-D\$-!*\$ (!5 \$(+G' B-!G. %!B-A, ' (-B!
FD. !S% ' ! (. (a*+Q' (B j G. %!-D' B' !B-A, ' (-B;!9%B. (!+B! (.-!-D' !' (, !. G!-D+B!- . J+*!9+9' #+ (' !S\$!

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!!!!!!! KD'!GA(,\$5'(-\$#9%+(*+9#!-D\$-!A(,%#+ 'B!-D+B!'B'\$%*D!+B!-D'!1'#+ 'G!-D\$-!\$##!B-A, '(-B!#'\$(!

1'B-!FD'(!-D'7!G' '#!-D'+%!B*D. .#!+B!B\$G';!\$(,!FD'%'!-D'7!G' '#!-D\$-!-D'!9%. *'BB'B!G. %!'B. #4+(/!

.(G#+-\$%'!-\$\$(B9\$%'(-!\$(,!DA5\$('I!KD+B!'B'\$%*D!+(4'B-+/\$-',!T8OM[YB!9. #+*+'B!\$1.A-!

%'B-. %\$-+4'!EAB-+*';!B9' *+G+*\$##7!-D'!<=>?IM*D. .#!" #5\$-!L+##!.G!N+/D-B;!(!.%, '%!-./!/\$+(!\$!1'--'#!

B'(B'!.G!D.F!'B-. %\$-+4'!EAB-+*'+B!1'+'(/!AB',!-!.!G.B-'!B*D. .#!B\$G'-7!\$(,!B-A, '(-!F'##a1'+'(/!+(!

T8!9A1#+*!B*D. .#BI!H(!.%, '%!-!.!EAB-+G7!-D'!G.*AB!. (!-D'!N@!B-+9A#\$+. (!+(!-D'!<=>?!L+##;!--D+B!B-A, 7!

'4\$#A\$-',!%'B-. %\$-+4'!EAB-+*!'!B!1.-D!\$!B-A, '(-!BA99. %-!B7B-'5!\$(,!\$(!\$#-'%(\$-+4'!-.'!J*#AB+. (\$%7!

,+B*+9#+('!H-!'J\$5+(' ,!-D'!+59# '5'(-\$-+. (!\$(,!, '-\$+#B!.G!T8OM[YB!'B-. %\$-+4'!EAB-+*''!

9%./%\$55+(/!-D%.A/D!\$!B7(-D'B+B!.G!+(-'4+'FB!\$(,!B*D.#\$%BD+9!\$1.A-!-D'!-.9+*!H-!B.A/D-!-.!

,-'%5+('!D.F!T8OM[!*\$(!+59%.4'!+B!'B-. %\$-+4'!EAB-+*''!9.#+*+'B!\$(,!9%\$*-+*'B!-.!5\$C'!-D'5!

5. %!'!B9.(B+4'!-!-D'!(' ',B!.G!-D'!* .55A(++'B!+-!B'%4'B;!(!.%, '%!-!.!*'\$-'!\$!B'-!.G!9.#+*7!

% '* .55'(,\$+.(B!' /\$%,+(/!-D+B!+BBA'!I!O#+5\$- '#7;!--D+B!B-A, 7!\$/A'B!-D\$-!-D'!,+B-%+*-'!5AB-!

B-%'(/-D'(!+B!* .55+-5'(-!-.!'B-. %\$-+4'!9%\$*-+*'B!-D%.A/D!-D'!9.

!

8, , +. (\$##7; !+(-'4+' FB!F+-D!' J9'%-B;!B7B-' 5 a+ 5 9\$*- ', !7. A(/19'. 9#'; !, +B-%+*-!9. #+*7 5 \$C'%B;!\$(, !
 B-A, ' (-!N@!9%\$*-+++. ('%B!F'% '!\$(\$#7Q', !G.%!* . 5 5 . (!-D' 5 'B!-.!* . (('*!-D' .%7!\$(, !.-D'%!B*D.#\$%BY!
 \$(\$#7B+B!.G!'B-.%\$-+4' !EAB-+*'!9% . /%\$ 5 B!+(, +B-%+*-B!\$*% . BB!-D'!* . A(-%7!-.!-D'!B9' *+G+*!#\$(, B*\$9'!.G!
 -D'!T.B!8 (/ '# 'B!9A1#+*!B*D. . #!B7B-' 5 I!_+(\$##7;!-D+B!B-A, 7!9%'B' (-B!\$(!\$/A 5 ' (-!G.%!-D'!\$, \$9-\$+. (!
 .G!\$!* . 5 9%'D' (B+4'!B'-.!G!'* . 5 5 '(, \$+ . (B!' / \$%, +(/('F!, +%*+*. (B!T8 OM [!BD.A#, !9A%BA'!+(!
 .%, '%!-.!+ 5 9%. 4'!A9. (!-D'!<=>?!M*D. . #!"# 5 \$- '!L+##! .G!N+/D-B!\$(, !+B!BA1B'^A' (-!+ 5 9# ' 5 ' (-\$+ . (!
 .G!'B-.%\$-+4'!9%\$*-+*'BI!!

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86-)12-51)!9):6) ' !

KD '!#+- '%\$-A%'! '4+' F!+(*#A, ', !+(!-D+B!B-A, 7!B'%4' B!-.!9%. 4+, '!+(G.% 5 \$+ . (!\$(, !G%\$ 5 +(/!G.%!
 -D'!\$(\$#7B+B!.G!G+(, +(/B!\$(, !9. #+*7!' * . 5 5 '(, \$+ . (B!-D\$-!*\$(!1' !G.A(, !+(!A9* . 5 +(/!9\$/ ' BI!H-!
 9%'B' (-B!B*D.#\$%BD+9!. (!'J*#AB+. (\$%7!, +B*+9#+' ;!-D'!B*D. . #a-. a9%+B. (

!

. ('!BAB9' (B+. (!\$%'!-F+*'!\$B!#C '#7!- .!1'!+(4. #4' ,!+(!-D'!*%+ 5+(\$#!EAB-+*'!B7B-' 5!-D\$(!-D. B'!FD. !
 % '*'+4' ,!(. !D\$%BD!, +B*+9#+(' !UN\$ 5 '7!<=>kVI!KD' !%\$*+\$#Q' ,!9%\$*-+*'!.G!' J*#AB+. (\$%7!B*D. . #!
 ,+B*+9#+(' !+B!B. !, '-%+ 5 ' (-\$#!- .!B-A, ' (-B!-D\$-!+-!D\$B!* . 5 '!- .!1'!* . (B+, '% ' ,!\$!9A1#+'!D' \$#-D!*%+B+BZ!
 (' \$%#7!D\$#G!\$!*' (-A%7YB!F .% -D! .G!' B' \$%*D!BD. FB!-D\$-!* . 5 5 . (#7!9%\$*-+*' ,!B*D. . #!, +B*+9#+(' !#+'!
 BAB9' (B+. (;!' J9A#B+. (;!\$(,!' G' %\$#B!- .!#\$F!' (G. %* ' 5 ' (-!\$%'!(-. !. (#7!+(' GG' *-+4' !-\$!-C' '9+(/!
 B*D. . #B!B\$G'!\$(,! . % , '%#7;!1A-!\$#B. !' J\$*%'1\$-!'!+(-' % / ' (' %\$-+ . (\$#!-%\$A 5 \$;!\$(,!D' \$#-D!\$(,!' * . (. 5 +*!
 ,+B9\$%++'B!G\$*' ,!17!L#\$*C!G\$ 5 #+'B;H(,+ / ' (. AB;!T\$+ (. ;!\$(,!-D' %!(. (aFD+- '!* . 5 5 A(++'B!U3- . F!
 '-!\$#!<=>VI!KD' !] \$+ . (\$#!3 , A*\$+ . (!8BB . *+\$+ . (!, 'G+('B!-D' !B*D. . #a- . a9%+B. (!9+9'#+(' !B!

-D' !9. #+*' B!\$(,!9%\$*-+*' B!-D\$-!\$%'! ,+% '*-#7!\$(,!+(,+% '*-#7!9ABD+(/!B-A, ' (-B! .G!* .# .% !. A-! .G!!
 B*D. . #!\$(,! . (!\$!9\$-DF\$7!- .!9%+B. (;!+(*#A, +(/;!1A-!(.-!#+ 5+-' ,!- .Z!D\$%BD!B*D. . #!, +B*+9#+(' !
 9. #+*' B!-D\$-! .4' %AB' !BAB9' (B+. (!\$(,!' J9A#B+. (;!+(*% '\$B' ,!9. #+*+(/!\$(,!BA%4' +##\$(*' !-D\$-!
 % '\$-!'9%+B. (a#+'C' !' (4+% . (5 ' (-B!+(!B*D. . #B;! .4' %' '#+\$(*' !. (!!' G' %\$#B!- .!#\$F!' (G. %* ' 5 ' (-!
 \$(,!-D' !EA4' (+#' !EAB-+*' !B7B-' 5 ;!\$(,!\$(!(\$#+' (\$+(/!\$(,!9A(++'4' !D+/DaB-\$C' B!- 'B+(/a, %+4' (!
 \$*\$, ' 5 +*' (4+% . (5 ' (-!U] 3 8 !<=>kVI!

_ .% !-D' !9A%9. B' B! .G!-D+B!B-A 5 0 375 -7!- .!9%6!41. 1. 2 (B) -(,;Tm/TT41Tf() T j ETQq0 . 240 0 0 . 241 8 . 1417

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KD '!% 'B- .%\$-+4 '!EAB-+* '!5 .4' 5 ' (-!(!] .%-D! 8 5 '%+*\$!*\$(!1!'B'' (!\$B!B- ' 5 5 + (/!G% . 5 !G .A%!
5 \$+(!B .A%*'BZ!+(,+/' (.AB!9%\$*-+* 'B! .G!EAB-+*';! .-D'!G\$+D!* . 5 5 A(++'B;-D'!9%B . (!\$1 .#++ . (!
5 .4' 5 ' (-;\$(\$,!-D'!\$#-'%(\$-+4'!, +B9A-'!'B .#A+ . (!5 .4' 5 ' (-;\$(\$,!F\$B!G+B-!AB' ,!+(!-D'!O (+-' ,!
M-\$-'B!F+D+(!-D'!'*%+5 +(\$#!\$(\$,!EA4' (+#!EAB-+*'!B7B-' 5 B!UT' A(/!>eeeVI!KD'!G .A(, \$+ . (! .G!FD\$-!B!
(. F!C(. F (!B!%'B- .%\$-+4 '!EAB-+* '!D\$B!1'' (!\$(,!* . (+ (A' B!- .!1'!9%\$*-+* ' ,!+(!4\$%+ .AB!F\$7B!17!
+(,+/' (.AB!(\$+ . (B!\$*% .BB!-D'!/# . 1'!G .%!'* (-A%+'BIH(,+/' (.AB!B*D .#%#!" \$% .#!8I!d\$(,!F%+-'B!-D\$-!
+(!5\$(7!(\$+ . (B!+(,+/' (.AB!- .!] .%-D! 8 5 '%+*\$;!g+G!\$(!\$*-! .G!4+ .# ('* '! .%!, +BD . ('B-7! ,+B%A9-' ,!-D'!
* . 5 5 A(+7;-D'!* . 5 5 A(+7!\$B!\$!FD .# '!B .A/D-!\$!F\$7!- .!%'B- .%!'!1\$#\$(*'h!U<=><VI!T+C'!- . , \$7!B!
g%'B- .%\$-+4 '!EAB-+*';h!] \$-+4'!9'\$*' 5 \$C+(/! .G-' (!1%+(/B!- . /'-D'%'!5 A#+9#!'!9\$%-+'B!- .!F .%C!- . F\$% ,B!
\$!* . 5 9%'D' (B+4'!B .#A+ . (!UO+%BC7!<===`VI!

KD '!*\$-A\$#!-' %5 !g%'B- .%\$-+4 '!EAB-+* 'h!D\$B!1'' (!9%'B' (-!(!\$*\$, ' 5 +*! , +B* .A%B'!B+(*'!\$-!# '\$B-!
-D'!>f?=YB!+(!3 (/#\$(\$, ;!H% '#\$(,!\$(,!-D'!O (+-' ,!M-\$-'B! .G! 8 5 '%+*\$!UP\$, '!'<=>fVI) ('! .G!-D'! .# , 'B-!
'J9#+*+!, 'G+(+ . (B! .G!'B- .%\$-+4 '!EAB-+* '!U+(!-D'!F\$7!+!F\$B!* . (*'9-A\$#Q' ,! ,A%+(/!-D\$-!+5 'V!*\$(!
1'!G .A(,!+(!_# .7 ,!N!O '*D' 5 YB!>e>k!g8 (!H(^A+%7!" . (*'%+(/!@AB-+*';h!FD+*D! , 'G+('B!-D'!-' %5 !B!!
gEAB-+* '\$, 5 +(+B-' %' ,!17!-D'!EA , +*+\$#! 5 \$*D+('%7!FD+*D!'B- .% 'B! 5 \$(!- .!D+B!9% .9'%'!%+/D-B!h!T\$-'!
. (;!+(!-D'!>eb=B; !\$!9B7*D .# . /+B-!(\$ 5 ' ,!8#1'%'!3 /#\$B!A9#+G-' ,!-D'!-' %5 ! ,A'!- .!D+B!1'#+G!+(!+B!
%'D\$1#+-\$-+4'!4\$#A'!\$(,!-D'!(' ' ,!D'!B\$F!G .% !D+B!+(*\$*%'\$- ' ,!*#+ ' (-B!- .!1'!\$** .A(-\$1# '!G .% !-D' +%!
1'D\$4+ .% !UT .% '% (!I, IVI!3 /#\$B!+B!*% ' ,+-' ,!F+D!+(B9+%+(/!8 5 '%+*\$(!*%+5 +(.# . /+B-!d . F\$% ,!m'D%;!
C(. F(!- .!B . 5'!\$B!-D'!/%\$(,G\$-D'%'! .G!'B- .%\$-+4 '!EAB-+*';!- .!\$,4 .*\$-'!G .% !-D'!AB'! .G!N@!- .!%'9\$+%!-D'!
D\$% 5 ! .G!'*%+5 '!'17' (/ \$/+(/!BA%4+4 .%B; !.GG' (, '%B; !\$(,!* . 5 5 A(+7!5 ' 5 1'%'B!UT .% '% (!I, IVI!KD'!
-D' .%7!5 .B-!B-% . (/#7!\$BB . *+\$- ' ,!F+D!'B- .%\$-+4 '!EAB-+* '!9%\$*-+* 'B!\$(,!9%+(*+9# 'B!+B!L\$-DF\$+-'YB!
>efe!g%' +(- /%\$-+4'!BD\$ 5 +(/!-D' .%7h!UW+#B . (;!)#\$/D'%' ;!\$(,!&+5 1%'##!(I, IVI!KD'!-D' .%7! .G!
%' +(- /%\$-+4'!BD\$ 5 +(/!' ^A+% 'B!* . 5 5 A(+7!\$*C(. F# ' , /' 5 ' (-!\$(,!* . (, ' 5 (\$+ . (! .G!-D'!D\$% 5 !-D\$-!

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F\$B!, . ('!H!-D'(!F.%CB!17!G.%/+4(!/!-D'!.GG' (, '%!G.%!-D'+%!*+.(B!\$(, !%'+(-'/%\$+(!/!-D' 5!1\$*C!
 +(-.!-D'!* . 5 5 A(+7!.('*!-D'7!D\$4'!5\$, '!\$5' (, B!\$(, !%'9\$+%', !-D'!D\$% 5!F+D!-D'!4+*+5!\$(, !
 B.*+!-7!KD+B!-D' .%7!' 5 9D\$B+Q'B!-D\$-!BD\$ 5+(!/!.G!.GG' (, '%B!-.!-D'!* . 5 5 A(+7!5 AB!1'!
 %'+(-'/%\$+4';!(.-!B+ / 5 \$+Q+(/I!) -D'!-D' .%+ 'B!%'\$- ', !-!-., \$7YB!'B-.%\$+4'!EAB+*'!9%\$*+*'B!
 +(*#A, '9%.*', A%\$#!EAB+*'!-D' .%7;! , 'G+\$('*!-D' .%7;'! J*DS\$ (/!-D' .%7!\$(, !B.*+\$#!, +B.%/\$(+Q\$+.(!
 -D' .%7!UW+#B. (;!)#\$/D'%'!;\$ (, !&+ 5 1%'##!(I, IVI!

H(!.%, '%!-!.\$%/A'!G.%!-D'!\$, \$9-\$+.(!.G!5 .%!'!* . 5 9%'D' (B+4'!+ 5 9# '5' (-\$+.(!.G!'B-.%\$+4'!
 EAB+*'!9%\$*+*'B!(!T8 OM [;!+!+B!+ 5 9.-%\$(-!-!A(, '%B-\$ (, !D.F!T8 OM [!, 'G+('B!'B-.%\$+4'!EAB+*'!
 G.%!-D'!, +B-%*-YB!9A%9.B'BI!KD'!M*D. .#!"#+ 5 \$-!L+##!.G!N+/D-B!B-\$- 'B!-D\$-!

!!

6%\$*+*'B!-D\$-!'B.#4'!B*D. .#!, +B*+9#+(\$%7!+(*+, ' (-B!17!D\$4+(/!9%'B. (('#!-%\$+(' , !+(!
 %'B-.%\$+4'!\$99%.\$*D'B!\$(, !\$\$\$!9\$+*'B!+(4.#4', !* . 5 '!-./'-D'%;!+, ' (-G7!-D'!D\$% 5!-D\$-!F\$B!
 \$AB', ;!\$(, !, '-%'5+(' !FD. !F\$B!'B9. (B+1#'!KD'!/%.A9;!/ (' %\$##7!-D%.A/D!\$!+*#'
 . (G'%' (+(/!9%.*'BB;!-D' (!, '4'#.9B!\$!BD\$%', !9%.*'BB!G.%!'9\$+%(/!D\$% 5!\$(, !\$, , %'BB+(/!
 %..-!*\$AB'!-!9%'4' (-GA-A%'!D\$% 5!UP\$*+!<=>?;!?VI!

!

[+B-%*+!#+- '%\$-A%'!GA-D'%'! J9#\$(B!N@!\$B!g\$!9D+#.B.9D7!\$(, !\$(!\$99%.\$*D!-!., +B*+9#('!-D\$-!5 .4' B!
 \$F\$7!G%. 5!9A(+BD 5' (-!.F\$, !%'B-.%+(/!\$!B' (B'!.G!D\$% 5.(7!\$(, !F'##a1'+(/!G.%!##!-D.B'!\$GG*'-', !
 17!\$!DA%-GA#!\$*-h!17!9%.4+, +(/!G\$ 5+#'B;B*D. .#B;!\$(, !* . 5 5 A(++'B!g\$!F\$7!-!' (BA%'
 \$** .A(-\$!#+-7!FD+#'!\$!-D'!B\$ 5'!+5'!1%'\$C+(/!-D'!*7*#'.!G!'-%+1A+. (!\$(, !4+.# ('*h!UT8 OM [\$!
 (I, IVI!!

K. , \$7;!-D'!9%\$*+*'!.G!'B-.%\$+4'!EAB+*'!+B!-79+*\$##7!1\$B', !. (!-D'!-D%'!5\$+(!9%+(*+9# 'B!
 .G!'9\$+%(/!D\$% 5 ;!(4.#4+(/!B-\$C'D.#, '%B;!\$(, !-\$(BG.% 5+(/!* . 5 5 A(+7!'#\$+.(BD+9B!UP.(QR#'Q!
 <=>bVI!)-D'%'!+ 5 9.-%\$(-!9%+(*+9# 'B!.G!'B-.%\$+4'!EAB+*'!+(*#A, '! .GG' (, '%!\$** .A(-\$!#+-7!G.%!

F%. (/ , .+(/;!'B9'*-!G.%!##!9\$+*+9\$(-B;!\$(, !* (-'%'(/!4+*+ 5 B!UW+#B. (!'-I!\$#!<=>: VI!N'B-.%\$+4'!
 EAB+*'!+B!1\$B', !. (!-D'!9%+(*+9# '!-D\$-!9'.9#!'\$%'!'B##' (-;!\$(, !-D\$-!D\$% 5!*\$(!1'!\$, , %'BB', !\$(, !

!

9%'4'(-',!-D%.A/D!,+\$#. /A'!\$(, !-D'!G.% 5\$-+. (!.G!D'\$#-D7!'#\$-+. (BD+9BI!K\$#C+(/!*+*# 'B!\$(,!
5',+\$- ',!,+B*ABB+. (B!1'-F''(!%'# '4\$(-!9\$%+'B!\$%'!-F. !* . 5 5 . (!G.% 5 B!. G!'B-. %\$-+4'!EAB-+* '!
-. , \$7!-D\$-!\$%'!AB',!-. !G.B-'%'-D'!\$** . A(-\$1+#+-7!. G!9'%9'-%\$-. %B!\$(, !-D'!D'\$#+(/!. G!4+*-+5 B!\$(,!

!

9% 'B*D. .#!U3-. F!' -I!\$#!<=<=VI!H 5 9# ' 5 ' (- (/!% 'B- .%\$-+4 'EAB-+* '!9%\$*-+* 'B!\$B!\$(!\$#- '%(\$-+4 '! ,+B9A- '!
 % 'B. #A-+ . (!5 '-D. , !+B!1 '+ (/!- .A- ' ,!\$B!\$!F\$7!-D\$-!B*D. . #B!*\$(!' (, !9\$-- '%(!.G! ,+B9%. 9. %-. (\$- '#7!
 ,+B*+9#+(+ (/!L#\$*C!\$(, !T\$-+ (.!B-A , ' (-B!\$(, !g*%'\$- '!\$(!' (4+% . (5 ' (-!-D\$-!G. B- '%B!BA** 'BB!G. %!\$##!
 D+#, %' (h!UW . . , !<=> ` ;!>VI! 8G- '%!-D' !\$%'GA#!+ 5 9# ' 5 ' (-\$-+ . (!.G!FD. # 'aB*D. . #; !5 A#-+a-+ '%!
 % 'B- .%\$-+4 'EAB-+* '!9%\$*-+* 'B; !-D' !%+BC!G. %!BAB9' (B+ . (B! , % .9!G. %!\$##!%\$*+\$#!/% .A9B; !F+-D!-D' !#\$%/ 'B-!
 , '*#+' (!+(! , +B*+9#+(\$7!\$*-+ . (!G. %!L#\$*C!B-A , ' (-B!UP . (QR# 'Q!<=>bVI!N@!+(!B*D. . #B!*\$(! (.-! . (#7!
 % ' , A* ' !BAB9' (B+ . (B!\$(, !%\$*+\$#! , +B9\$%+ + 'B!+(! , +B*+9#+(; !1A-!+-\$#B . !# '\$, B!- . !* . (B+B- ' (-!/% . F-D!+(!
 \$\$, ' 5 +* !BA** 'BB!UP . (QR# 'Q!<=>bc!T . B' (!' -I!\$#!<=> `VI!6# ' \$B' !% 'G' %!- . !' 'GG)%*6H!'' !G. %!\$! , '-\$+#' , !
 ' J9#\$ (\$-+ . (!.G!-79+*\$#!% 'B- .%\$-+4 ' !9%\$*-+* 'B; !\$(, !' 'GG)%*6H!U!G. %!\$(! '#\$1 . %\$-+ . (! . (!FD. # ' a
 B*D. . #n 5 A#-+a-+ '%!N@I!

KD+B!B-A, 7!\$+ 5 B!- . !+ , ' (-+G7!-\$*-+*B!G. %! '#+ 5 +(\$-+ (/! , +B*%'9\$(*+'B!+(!B*D. . #! , +B*+9#+('!\$(, !

!

% '9%'B' (-', !+(!'G'%%\$#B!G. %!P+G-', !\$(, !K\$#' (-', !3, A*\$-\$+. (!UP 8K3V!9%. /%\$ 5 B; !\$(, !-'\$*D+(/!B-\$GG!
+(!B*D. . #B!F+D!9%' , . 5+(\$(-#7!L#\$*C!B-A, ' (-B!D\$, !#. F '%!\$--' (, \$(*!'\$(, !#. F '%!'GG+*\$*7!-D\$(!
-'\$*D'%B!\$-!B*D. . #B!F+D!9%' , . 5+(\$(-#7!FD+-'!B-A, ' (-B;!1A-!-D\$-!-D'%!'F\$B!g\$!D+/D'%!# '4'#!.G!
BAB9' (B+. (B!\$(, !' J9A#B+. (B!.G! 8G%+*\$(!8 5 '%+*\$(!B-A, ' (-B!* . 5 9\$%' , !F+D!FD+-'!B-A, ' (-Bh!
UN. 1 '%-!\$(, !) C#F\$!<=>f;!`VIH(!-D'!<=>a<=>>!B*D. . #!7'\$%;!L#\$*C!B-A, ' (-B!F '%!'BAB9' (, ', !\$(, !
' J9'##', !\$-!5 A*D!D+/D'%!%\$- 'B!-D\$(!FD+-'!B-A, ' (-BZ!, 'B9+-'!1'+(/!. (#7!>= o!.G!-D'!9.9A#\$+-. (;!
L#\$*C!B-A, ' (-B!'9%'B' (-', !<k o!.G!BAB9' (B+. (B!+(!-D'!, +B-%+*-\$ (, !<` o!.G!%'G'%%\$#B!G. %!' J9A#B+. (;!
FD#+'!FD+-'!B-A, ' (-B!F '%!'e o!.G!-D'!9.9A#\$+-. (!1A-!. (#7!b o!.G!BAB9' (B+. (B!\$(, !` o!.G!%'G'%%\$#B!
G. %!' J9A#B+. (!UN. 1 '%-!\$(, !) C#F\$!<=>fVI! 8 , , +.+. (\$##7;!B-A, ' (-B!F+D!, +B\$1#++-'B!\$** .A(-', !G. %!
eIk o!.G!-D'!, +B-%+*-'(% .## 5 '(-!1A-!5 \$, '!A9!<`Ik o!.G!-D'!, +B-%+*-YB!BAB9' (B+. (B!, A%+(/!-D'!B\$ 5 '!
+5 '!9'%. , !UT+5!<=><>VI!KD'!) "N!+(4'B-+/\$+-. (!9%. 5 9-', !T8 OM [!%'G. % 5 B!\$-!1. -D!-D'!, +B-%+*-'!
\$(, !

!

B-A, ' (-B!FD.!F '% '!3 (/#+BD!# '\$%(' %B;!e<I? o!.G!FD. 5 !+, ' (-+G+ ',!-D'+%!9%+ 5 \$%7!#\$ (/A\$/ '!\$B!
M9\$(+BDI!KD'!, +B-%+*-!B'%4 'B!5 .B-#7!B-A, ' (-B!.G!* .#. %!U: ?I` o!T\$-+(.;!>=Ib o!FD+-';!fI<o!L#\$*C;!
`I<o!8B+\$(!<I>o!_+#9+(.;!# 'BB!-D\$(!>o!8 5 '%+*\$(!H(+,\$(!.%!8#BC\$(!] \$-4';!] \$-4'!d\$F\$+\$(!
.%!6\$*+G+*!HB#\$ (, '%;!F+-D!>o!.G!B-A, ' (-B!A(%'9. %-', V;\$ (,! ' 59#.7', !.4'%!kk;===!9'.9#!+(!-D'!

<=>ea

!

B-A, '(-B!\$%'!*. 5 5 .(!B+/(B!.G!+BBA 'B!+(!-D'!+5 9#' 5 '(-\$+. (!.G!B*D. .#!N@!9%\$*-*'B!U ['(4'!
M*D. .#aL\$B',!N'B-.%\$-+4'!6%\$*-*'B!6\$%-('%BD+9!(I,VI!d . F '4'!FD' (!9#\$((' ,;!+5 9#' 5 '(-',!\$(,!

!

% 'B-.%\$+4'!9%. * 'BB'B;\$ (, !FD\$-!* .A#, !1'!, . ('!-!+5 9%.4 '!T8 0M [YB!% 'B-.%\$+4' !EAB-+* '!9.#+*7! 8B!

-D'!9%.E'*-!9% ./%'BB', ;!+(-'%4+' F' 'B!F'%'!\$#B. !SBC', !S1.A-!-D'!4\$#+, +-7!.G!*'%-\$+(!, ' \$B!G.%!

9.-' (-+\$#!9.#+*7!' * . 5 5 '(, \$+ . (B;!5 \$(7!.G!FD+*D!\$%'!9%'B' (-', !1'#. F!+(!'B9. (B'!-!-D'+%!

G' ', 1\$*CI!H(-'%4+' F' 'B!F'%'!\$BC', !-!%'\$, !\$(, !B+/(!H(G.% 5', !" . (B'(-!_ .% 5B!-!!(. -+G7!-D' 5!.G!

-D'!B*.9'!.G!-D'!9%.E'*-!\$(, !-D'+%!/D-B!' /\$%, +(/!-D'!+(-'%4+' F!9%. * 'BBI! [A'!-!!") i H [a>e;!\$##!

+(-'%4+' FB!F'%'!* . (, A*-' , !.4'!m. . 5; !_ \$* 'K+5'; !. %!- '#9D. ('I!M. 5'!+(-'%4+' F' 'B!\$%'!+, ' (-+G+', !

. (#7!\$B!gT8 0M [!' 5 9#.7' 'h! .% !gK' \$*D'%;h!F+-D!#+-#'-! .!(. !GA%-D'!+(G.% 5 \$+ . (!S1.A-!-D'+%!

+, ' (-+7!+(!.%, '%!-!9%'B'%4'!-D'+%!\$(. (7 5+-7; !S!9'%'!-D'+%!' ^A'B-BI!) -D'%B!BA// 'B-', !-D\$-!-D'+%!

(\$ 5'; !9%.G'BB+. (\$#!-+ #B;\$ (, !#G'!' J9'%' (*'B!1'!+(*#A, ', !+(!-D+B!9%.E'*-!-!9%.4+, '!* . (-'J-!.G!

-D'+%!' J9'%-+B'!' /\$%, +(/!-D'B'!- .9+*B 8 6 8cmB, !2 (-) 0 . 2cmB 5 8 3 9 8c 8 6 8cmBT 5 0 0 ~~5~~ 2 (-) 0-2-0 . 2 (-* 2-0

!

1'('G+B!.G!*.(,A*+(/!'B'\$%*D!+(!'9%'B.(!'F'%!'\$4\$+#\$1#'-!.!B'%4'!'-D'!'BA**'BB!.G!-D+B!9%.E'*-I!T8!

0(+G+',!+B!\$!DA/'!\$(,!*.59#'J!+(B+-A+.(;'!F+-D!\$!9#'-D.%%!.G!+(.*.(B+B-'(*+'B!\$(,!+-B!.F(!

#+5+-\$+.(BI!W+-D!\$, ,++.(#\$!+5';!5\$(7!5.%%'!-.9+*B!G%.5!*.(-'J-;!--!'-D'.%7;!--!'!G+(,+(/B!\$(,!

%'* .55'(\$,-.(B!* .A#,!D\$4'!1''(!*.4%' ,!5A*D!5.%%'!+(!, '9-DI!!!

KD+B!9%.E'*-!F\$B!(.-!GA(,' ,I!8B!BA*D!;+(-'%4+'F''B!F''%!(.-!* .59'(B\$- ',!5.('-\$%+#7I!

8#-D.A/D!\$##!+(-'%4+'F!'BA1E'*-B!F''%'+(G.%5',!.G!-D+B!#5+-\$+.(!\$(,!B-+##!\$/%' ,!--!'9\$%-+*+9\$-';!

-D'!'59.-%\$(*'!.G!D.(.%(/!'9'.9#'BY!+5'!\$(,!*.(-%+1A+.(B!*\$((.-!1'!A(,'%B-\$-',!I!O\$(7!.G!-D'B'!

+(-'%4+'F''B!-. .C!+5'!.A-!.G!-D'+%!(*) ,+1#7!1AB7!B*D',A#B!-.!BD\$%'!-D'+%!(C.F#',/!'!+(!B'%4+*'

.G!-D+B!9%.E'*-I!8, ,++.(##7!-D'!-.9+*B!.G!B*D..#!, +B*+9#(;'!-D'!B*D..#a-.a9%B.(a-.a, '9.-%-\$+.(!

9+9'#+(;'!\$(,!--D'!G.%5B!.G!D\$%5!-D\$-!B-A, '(-B!*\$(!'J9'%+'(*'!\$-!B*D..#!.G-'(!#',!--!, +GG+*A#-!

,+B*ABB+. (BI!KD'B'!+(-'%4+'F''B!\$##!, 'B'%4',!--!'1'!* .59'(B\$- ',!G.%!-D'+%!'5.-+.(#\$!#1.%;!--5';!

\$(,!'J9'%-+B'I['B9+-'!'-D'B'!'*D\$##'(/'B!\$(,!#5+-\$+.(B;!--D+B!B-A,7!B-+##!\$*D+'4',!--B!/. \$#!.G!

%'\$+(/!\$! .59%'D'(B+4'!* .##'*+.(!'G!* .55A(+7!\$(,!--, +B-%+*-!'59#.7''!4.+*'B!+(!..%, '%!--!

\$(BF'%!--B!B-\$-',!%'B'\$%*D!^A'B+. (I!

!

\$(,!'B-.%\$-+4'!EAB-+*!'G\$*#+-\$-.%BI!H(-'%4+'FB!F'%!'*-'%'',!.(!-D'!BA1E'*-!B!C(.F#',/!'!.G!-D'!
 -.9+*B!,+B*ABB',!\$1.4';!\$(,!\$##!+(-'%4+'FB!+(*#A,',!,+B*ABB+. (B!.G!D.F!T8 OM [YB!%B-.%\$-+4'!\$(,!
 ,+B*+9#+((\$%7!9%\$*-+*'B!* .A#,!1'!'!+59%.4',!IKD'!G.##.F+(/!* .55.(!-D'5'B!\$.B'!,A%+(/!-D'B'!
 ,+B*ABB+. (BZ!!



!

KD'B'!* .55.(\$#++'B!'G#'*-!FD\$-!. ('!* .55A(+7!5'51'!%\$(,!\$*-+4+B-!*\$##',!g\$!,+B*. (('*!
 1'-F''(!-D'!4+B+. (!-D\$-!-D'!,+B-%+*!-D\$B!G.%!rN@s!+59#'5'(-\$+. (!4BI!-D'!4+B+. (!-D\$-!-D'!* .55A(+7!
 D\$B!G.%!+59#'5'(-\$+. (Ih!" .##'*-+4'#7;!-D'B'!,+B*ABB+. (B!D+/D#+/D-',!-D'!B-\$-!'!.G!%B-.%\$-+4'!
 9%\$

!

KD'!B\$ 5 '!'\$*D'%'!(.-',!-D\$-!,A%+(/!\$!+5 '!'FD' (D'%'!B*D. .#F\$B!F+D. A-!\$(7!C+(,!.G!'B-.%\$-+4'!
 #'\$, '%!G.%!EAB-!. ('!B' 5 'B-'%;!+!'%##7!DA%-!-D'!B-A, ' (-B!\$(, !-D'!'*#+5 \$-'!.G!-D'!B*D. .#!UK'\$*D'%'!>!
 <=>VI!WD' (!B*D. .#B!, .!(.-!D\$4'!-D'+%! . F(!+(aD. AB'!'!B-.%\$-+4'!EAB-+*'!\$, 4+B. %;!-D'+%!B-A, ' (-B!
 \$(, !-D'+%!*\$5 9AB!#+5 \$-'!BAGG'%B j !'4' (!+G!-D'!#. *\$#!, +B-%*-*.*\$*D!+B!\$1#!- .!5 \$C'!\$(!\$99'\$%\$(*'!
 . (!-D\$-!*\$5 9AB!'\$*D!'B' 5 'B-'%I!!

! H(!\$, ,++.(!-!(!' ,+(/!5 .%'!A(+G.% 5 +7!(!5 . , 'B!.G!9%\$*-+*'!\$5 . (/!B*D. .#B!\$(, !5 .%'!G!!
 \$!* . (-+A. AB!'B-.%\$-+4'!9%'B' (*'!. (!*\$5 9AB!. (!\$, \$7a-. a, \$7!1\$B+B;!\$(.-D'%' , A*\$-.%!(.-', !-D'!
 +5 9.-%-\$(*'!.G!* . (-+A+7!-D%. A/D. A-!-D'!'7' \$%BZ!

KD'B'!4\$#A'B!\$(, !9%\$*-+*'B!D\$4'!-. !B-\$%-!G% . 5 !C+(, '%/\$%-'(!1'*\$AB'!FD' (!7. A!*D\$(/'!A9!
 -D'!, +B*+9#+('!B7B-' 5 !7. A! / .!/%\$, 'B!. ('!-D%. A/D!f!\$(, !7. A!C(. F!+!B!. ('!F\$7;!\$(, !-D' (!
 7. A!* . 5 '!'!+(-. !D+/D!B*D. .#!\$(, !-D' (!\$##!.G!\$!BA, , ' (!7. A!%'!, .+(/!'B-.%\$-+4'!9%\$*-+*'B!
 -D'%'!B!B. 5 '!', +B* . (('*-B!-D'%' t !-D'%'!B!\$!B+/ (+G+*\$(-!\$5 . A(-!.G!G. A(, \$+ . (\$#!F. %C!-D\$-!
 D\$B!-. !-\$C'!9#\$*\$' !+G!7. A!C(. F!+G!'B-.%\$-+4'!9%\$*-+*'B!\$%'!-. !1'!BA**'BBGA#!Um+ 5 5 '%!<=>VI!
 !

8B!\$, +B-%*-*!F+D!\$!'#\$-+4' #7!D+/D!B-A, ' (-!5 . 1#+-7!%\$-';!T 8!0 (+G+', !5 AB-!* . (B+, '%!D. F!-D'!
 5 .4' 5 ' (-!.G!B-A, ' (-B!1'-F'' (!, +GG'%' (-!B*D. .#B!\$(, !, +GG'%' (-!9%\$-B!.G!-D'! [+B-%*-*!\$GG'*-B!-D'!
 +5 9\$*-!.G!-D'+%!B-.%\$-+4'!EAB-+*'!9% . /%\$5 5 +(/;!\$(, !\$, EAB-!-D'+%!9. #+*+'B!\$** .%, +(/#7!U [\$A(-'%!2!
 _A##'%'!<=>>VI!
 !

KD'!/%. F+(/!5 .4' 5 ' (-!G.%!'B-.%\$-+4'!EAB-+*'!'(B*D. .#B!+B!EAB-!. ('!G!5 \$(7!(' ', ' ,!
 %'G.% 5 B!+(!T 8 OM [I! " D\$(/+(/!, +B*+9#+('!9%\$*-+*'B!\$#. ('!F!##!(.-!5 +-+/\$-'!-D'!'!GG'*-B!.G!, '*\$, 'B!
 .G!+(B+-A+. (\$#!%\$*+B 5 !1 .-D!+(!.A%!', A*\$+ . (!B7B-' 5 !\$(, !. A-B+, '! .G!B*D. .#B!\$(, !+!5 \$7!(.-!1'!
 ' (.A/D!-. !-\$\$(BG.% 5 !'4' %7!-'\$*D'%;!\$, 5 +(+B-%\$- .%;!\$(, !B-A, ' (-!+(-D'!, +B-%*-*!-I!N'B-.%\$-+4'!EAB-+*'!
 B*D. #%\$!\$(, !G.% 5 '%!-'\$*D'%'!d+#\$7!TAB-+*C!F%+-'B!-D\$-;!g-D'!'*A%%' (-!, +B*. A%B'!. (!'B-.%\$-+4'!
 9%\$*-+*'B!, . 'B!(-!\$##. F!G.%!'%*+*+\$#!^A'B+. (B!* . (*'%(/!9. F'!\$\$(, !B. *+\$#!%'9% . , A*+ . (!+(-D'!

!

. (-'J-!.G!-D'!'B-.%\$-+4'!.(G%'(*';h!\$(, !-D+B'B'(-+5'(-!F\$B!'G#'*-',!,A%+(/!+(-'%4+'FB!F+-D!

9'.9#'!G\$5+#\$%!F+-D!T8OM[YB!'B-.%\$-+4'!9\$*+*'B!UTAB+*C!<=>:;!?=eVI!!

H!B-\$%-',!-!(!-+*'!\$!5\$E.%!/\$9!+(!-D'!+59# '5'(-\$-+.(!.G!'B-.%\$-+4'!EAB+*'!\$-!-D'! !
! rT8OM[s!B*D..#!B+-'B t !+!#*\$*C',!\$** .A(-\$1++-7!+(!-D'!B'(B'!-D\$-!'B-.%\$-+4'!EAB+*'!+B!!
! \$1.A-!\$,,% 'BB+(/!-D'!'..-!*\$AB'B!.G!D\$%5;!(. -!-D'!B759-.5B!.G!-D'!D\$%5;!%/D-u!M.!-D'!!
! B*D..#!F\$B!+(-'%B-',!+(!FD\$-!-D'7!*\$##!*.(G#+*-'B.#A+-.(!9' '%!-.!9' '%;!'-\$*D'!\$(,!9' '%!!
! 1A-!(.-!B7B-'5!\$(,!B-A,'(-B t !B.!-D'7!F.(Y-!\$,,% 'BB!\$(7!.G!-D'!5.%'!!
! B7B-'5+*!D\$%5B!-D\$-!F'%'!-D'%'h!U8*-+4B-!>!<=>VI!
!

8#-D.A/D!'B-.%\$-+4'!9\$*+*'B!\$%'!5'\$(-!-.!G.B-'%'!gB7B-'5+*!D\$(/'B!+(!D.F!' ,A*\$-.%B!-D+(C!

\$1.A-!-D'!'#'.G!B*D..#!,+B*+9#+('h!\$(,!. -D'!'B-%A*-A'B!.G!9.F'%;!B.5'!BA1E'*-B!G!#-!-D\$-!

T8OM[YB!'B-.%\$-+4'!9\$*+*'B;!#C'!-\$,++.(#\$!,+B*+9#(\$7!5'-D.,B;!G.*AB!-..!5A*D!.(!B-A,'(-!

\$*-+. (B!\$(,!(.-!'(.A/D!.(!A(*.4'%'(/!\$(,!\$,,% 'BB+(/!-D'!'*+*A5B-\$(*'B!1'7.(,!-D'!+(, +4+,A\$#!

-D\$-!5\$7!1'!-D'!*\$AB'!1'D+(,!*'%-\$(!1'D\$4+.%B!UT.B'(!-I!\$#!<=>`;!:VZ!!

KD'%'B!B7B-'5+*!'B\$. (B!FD7!-D'B'!'-'(, '(+*'B;!-D'B'!D\$1+-B!*\$(!1'!G.A(, !+(!*'%-\$(!
('+/D1.%D..,B!\$B!.99.B',!-!.!-D'%'BI!KD'%'B!\$B\$. (B!FD7!-D'%'B!5.%'!7.A-D'1'+(/!
\$%%'B-',!+(!B.5'!* .55A(++'B!\$B!.99.B',!-!.!-D'%'B;!-D'%'B!\$B\$. (B!FD7!F'!G+(, !5.%'!
4+.#'(*'!+(!B.5'!* .55A(++'B!\$B!.99.B',!-!.!-D'%'B t !LA-!+-!B!\$F\$7B!1''(IG\$+#',!-!.!1'!
*. (B+, '%' , t !/'--+(/!\$(!.4'%'##!A(, '%B-\$(+(/!\$B!-!\$##!-D'!'4'(-B!-D\$-!#, !A9!-!-D'B'!
+(*+, '(-B;!(-!EAB-!1\$B',!.GG!-D'!+(, +4+,A\$#!\$#. (';!1A-!#C'!FD\$-!,.'B!7.A%!* .55A(+7!#. .C!
#C'u!WD\$-B!7.A%!'(4+%.(5'(-!\$-!D.5'!#. .C!#C'uIII[.!7.A!D\$4'!5'(-\$#!D'\$#-D'B'%4+*'B!
1'+(/!9%.4+, 'uIII!HB!7.A%!* .55A(+7!9\$%-!.G!\$!/\$(/!+(EA(*-+. (uIII!H!-D+(C!\$!#. -!.G!-D'!
9'.9#'!-D\$-!\$%'!*\$%%7+(/!.A-!-D'!'B-.%\$-+4'!EAB+*'!9\$*+*'B!+(!-D'B'!B*D..#B!\$%'(1-!,.+(/!

!

M. 5 '!+(-'%4+'F' 'B!1%.A/D-!A9)!*.(*'% (B!\$1 .A-!-D'!^A\$#+G+*\$-\$+. (B!\$(,!-%\$+(+(/!.G!
 %'B-.%\$-+4'!EAB-+*!'G\$*+#+-\$-.%BI!) ('!+(-'%4+'F' '!%'G'%%',!-.-!-D'!,+B-%+*-YB!N@!+5 9#' 5 '(-\$-+.(!\$B!
 B+ 5 9#7!*D' *C+(/!.GG!1 .J' B!.(!\$!*D' *C#B-!17!\$BBA 5+(/!-D\$-!\$B!#. (/!\$B!-D'!-F .!, \$7!-%\$+(+(/!\$(,!
 F .%CBD.9B!\$%'!9%.4+, ',!-.-!'\$*D!B*D. .#;!N'9.-%-',!. ('!\$*-+4+B-Z!g-D'!, 'G+*+B!r.G!-D'!, +B-%+*-YB!
 9%./%\$ 5 !+(*#A, ',s!-D'+%!+, '\$!.G!-%\$+(+(/!F\$B!7 .A!-%\$+(!G.%!-F .!, \$7B;!\$(,!(. F!7 .Al%!'!\$B.-%-!.G!
 EAB-+*!'#\$, '% t I!/'--+(/!\$!*'%+G+*\$-\$-',. 'B(1-!5 '\$(!BD+- j !\ .A!C(. F!-F .!, \$7!-%\$+(+(/;! ,. 'B!+-!
 ^A\$#+G7!7 .A!-.!1 '!\$!B.-%-!.G!EAB-+*!'* .A(B'#.%uh!U 8 *-+4+B-!>!<=<>VI! 8 (-D'!\$*-+4+B-!\$(,!G.% 5 '#7!
 +(*\$*%'\$-\$-',!7.A(/!\$,A#-!'*D. ',!-D+B!,+B-%AB-;\$B!F'##!\$B!\$!G!AB-%\$-+.(!.4'!%-D'!. 5 +BB.(!.G!
 G\$*+#+-\$-.%B!FD. !5 \$7!1'!5 .%'!BA+-',!G.%!-D'!E. 1Z!!

-D'%'!\$%'!-%\$+(,!%'B-.%\$-+4'!EAB-+*!'9%\$*-+-. ('%B!FD.!7.A!C(. F;!1'#+ '4'!+(!-D'!rN@s!!
 ! 5 ., '#;!FD. !D\$4'!-D'!'B.A%*'B;!D\$4'!-D'!5 '\$(B!-.!B' '!'!+!*\$%'+',!.A-!+(!-D'!F\$7!-D\$-!+!F\$B!!
 ! '(4+B+. (' ,IH(B-'\$,!.G!-D' 5 ;!-D'!B*

!

F+-D!-D'!8 (-+aN'*+,+4+B5!" . \$#++. (I!d'!B9.C'!-!-D'!+59.-%-\$(*!.G!B*D. .#B!* .##\$1.-%\$-+(!F+-D!
5 ' 5 1 '%B!.G!-D'!* . 5 5 A(+7!-D\$-!-D'7!B'%4'Z!

M*D. .#B!(' ' ,!- !# . .C!+(- !-D'!\$#-'%(\$-+4'BI-D\$-!'J+B-!+(!-D'!* . 5 5 A(+7!KD'7!(' ' ,!- !# . .C!
+(-.!(. (a9%.G+!..%/\$(+Q\$+. (B!-D\$-!*A%%'(-#7!, .!\$#-'%(\$-+4'!F.%C!\$.A(,!D.F!-., 'a'B*\$#\$-'
-D'!B+-A\$+. (!.%!D.F!-.'!\$##7!\$, ,%'BB!-D'!'\$#!9%.1#' 5 t !!B*D. .#B!(' ' ,!- !%'\$##7!9\$%-('!
F+-D!9.9A#\$+. (B;!-D'%!'\$%'!B. 5 '!..%/\$(+Q\$+. (B!#+C'!8N"!r8 (-+aN'*+,+4+B5!" . \$#++. (s!

!

9%\$*+* 'B!-D%.A/D.A-!-D',+B-%+*-,!(C' '9+(/!F+D! [%I!&\$% ' (!O\$99YB!G%\$ 5 ' F .%C! .G! [A\$#!

" \$9\$*+7aLA+#,+(/!FD+*D!9 .B+B!-D\$-!9\$%' (-!\$(,!* . 5 5A(+7!+'B!gD\$4'!\$!B7B-' 5+*!\$(,!BAB-\$+(' ,!

'GG'*-! .(!#'\$%(+(/! .A-* . 5 'B!G .%!*D+#, '% (!\$(,! .(!FD.#'!B*D. .#!+59%.4' 5' (-BII!UO\$99!2!&A--('!<=>?;!bVI!KD+B!B-A,7!\$,4.*\$-'B!G .%!1A+#,+(/!B-%. (/ '%!9\$%-('%BD+9B!1' -F'' (!T8!9A1#+*!B*D. .#B;!

' 59#.7' 'B!\$-!* . 5 5A(+7!1\$B',! .% /\$(+Q\$+. (B;!\$(,! -D'!-%AB-' ,!* . 5 5A(+7!#'\$, '%B!- .!G.B-'%!\$!

5 .% '!*A#-A%\$##7!% '#4\$(-!\$(,!#.*\$+ . (aB9'*+G+*!'B- .%\$-+4'!9%\$*+* 'I!KD'!-D+%,!\$99% . \$*D!- .!5 \$C+(/!

'GG'*-+4'!AB'!.G!'B- .%\$-+4'!EAB+*!'!+(!B*D. .#B!-D\$-!+B!%'* . 5 5' (, ,!+B!- .! , '4'#.9!B-A, '(-!

#'\$, '%BD+9!17!9%.4+,+(/!-\$+(+(/!G.%!B-A, '(-!N@!9%\$*+*+ . ('%B;!A(, '%!-D'!BA9'%4+B+. (!\$(,!/A+, \$('*!'

.G!-D'!'B- .%\$-+4'!EAB+*!'!\$,4+B.%I!8 , ,+ . (\$##7;!+!+B!%'* . 5 5' (, ,!-D\$-!'B- .%\$-+4'!9%\$*+* 'B!1'!'

B+/(+G+*\$(-#7!'J9\$(, ,!+(-D'!'A%+*A#A5!.G!T8OM [YB!3\$%#7!" D+#,D. . ,!3,A*\$+ . (!"' (-'%B!

U3 "3 "BV!+(!.%, '%!- .!B'-\$!B-%. (/!G.A(, \$+ . (G.%!-D'!'* . (+A\$+ . (!G!'B- .%\$-+4'!4\$#A'B!\$(,!

9%\$*+* 'B!-D%.A/D.A-!\$!*D+#,YB!+5'!+(!B*D. .#!I3\$*D'!G!-D'B'!'* . 5 5' (, \$+ . (B!\$%'!'J9#\$+(' ,!+(!

5 .% '!, '9-D!+(!-D'!G.##. F+(/!9\$/ 'BI!

!

! N'B- .%\$-+4'!EAB+*!'! '\$,+('BB!UN@NV!+B!g-D'!5 '\$BA%'!.G!1'#+'GB!\$#/(' ,!F+D!G.A(, \$+ . (\$#!

N@!9%+(*+9# 'B!\$(,!4\$#A'B!* . (*'%+(/!D\$% 5 ;!(' , B;! . 1#+/\$+ . (B;!\$(,!' (/ \$/' 5' (-h!UP%' '%!<=>f;!+++VI!

N'B'\$%*D!+(,+*\$-'B!-D\$-!+59# ' 5' (+(/!\$(,!BAB-\$+(+(/!N@!+(!B*D. .#B!*\$(!1'!B'4'%'#7!D+(, '% ,!17!\$!

#\$*C!.G!g1A7a+(h!#\$*C!.G!F+##+(/('BB!- .!+59# ' 5' (-!'B- .%\$-+4'!9%\$*+* 'B;! .%\$!5 +B\$#/(5' (-!

1' -F'' (!-D'!4\$#A'B'!.G!B*D. .#B-\$GG!\$(,!-D'!9%+(*+9# 'B! .G!'B- .%\$-+4'!EAB+*!'!UP%' '%!<=>fc!T+1' 5 \$(!

2!&\$-Q!<=>:c!O\$7F .% 5!'-\$#!I!<=>kc!NA1+ .!<=>fVI!H(B-'\$,!.G!B-\$ (,a\$#. ('!N@!9%\$*+* 'B!U#C'!

\$##/(/!+(!, +B-%+-!N@!* . .% ,+(\$- .%B!G.%!B9'*+G+*!'(+* , ' (*'B! .G!D\$% 5 !.%. ('a.GG!-%\$(+(/BV!T8OM [!

BD.A#,!* . 5 5+!- .!FD.#' aB*D. .#!5 . , #B! .G!N@!+59# ' 5' (-\$+ . (!-D\$-!\$, ,% 'BB!B*D. .#!*#5 \$-'!\$(,!

!

AB'!\$!* . (+ (AA 5 ! . G!9%\$* -+* 'B! - . !9%' 4' (-!\$(, !%' B9 . (, !- . !D\$% 5 B; !1 . -D!+(, +4+ , A\$#!\$(, !B7B- ' 5 +*!

UP% ' ' %!<=>fc!O* " #ABC'7!' -!\$#I!<==fVI!!

!!

!

!! ['B9+- '!-D'!G\$*-!-D\$-!-D'!T 8!0 (+G+' , !M*D . .#!L . \$% , !4 . - ' , !- . !%' 5 . 4' !B*D . . #!9 . #+* ' !G% . 5 ! \$##!

T 8 OM [!B*D . . #B; ! . (#7!b?!B*D . . #B; ! \$##!B '* . (, \$%7!B*D . . #B; ! \$%' !1 '+ (/GA(, ' , !- . !D+% ' !*# + 5 \$- ' !

* . \$*D' B!\$(, !%' B- . %\$-+4' !EAB+* ' ! \$, 4+B . %B!UOA%%\$7!<=>VI!WD' (!%' 5 . 4+ (/!9 . #+* ' !G% . 5 !1 '+ (/!

B-\$+ . (' , ! . (!B*D . . #!*\$ 5 9AB'B; !B-% . (/!BA99 . %-B! 5 AB-!1 ' !+ (!9#\$* ' !- . !' (BA% ' !B-A , ' (-!B\$G' -7I! 8B! . (' !

G . % 5 ' % #7!+ (*\$* ' %\$- ' , !7 . A-D!\$*-+4+B-!B-\$- ' , ; !gF' !-\$#C!\$1 . A-! , +B 5 \$(-#+ (/I!W' !-\$#C!\$1 . A-!-' \$%+ (/!

, . F (I!LA-!F' !D\$4' !- . ! \$#B . !-\$#C!\$1 . A-!1A# , + (/!\$(, !*% '\$+ (/!\$(, !9A-- (/!B . 5 ' -D+ (/!+ (!+B!9#\$* ' ; !

7 . A!C (. F; !*% '\$+ (/!\$#- '% (\$-+4' Bh!U6+ (' , \$!<=>VI!H-!+B! *%A*+\$#!-D\$-!-D' ! , +B-%+*-' !' J9\$(, B!-D' +%!(' F!

!

] /A '%\$!>eebVI!6\$%-+*9\$(-B!+(!B-A,7!.G!-D'!['(4'%!6A1#*!M*D. .#! [+B-%+*YB!'B-.%\$-+4'!EAB-+*']

+59# '5'(-\$.+(!\$(, !9%\$*-+* 'B!\$##!\$/%' , !-D\$-!\$-!# '\$B-! . (';!GA##a+5 '!* . .% ,+(\$-.%!.G!'B-.%\$-+4'!

9%\$*-+* 'B!F\$B!('* 'BB\$%7!+(!B*D. .#B!-D\$-!\$(/' ,!(+B+Q'!G%. 5!%.A/D#7!?!?==!- .!>====!B-A, '(-B!U8 (7. (!

<=>kVI!KD+B!9' %B. (YB!'B9. (B+1#++ 'B!gABA\$##7!+(*#A, ' ,!1A+#, +(/!% '#\$-. (BD+9B!F+-D!B-A, '(-B!

-D%.A/D.A-!-D'!B*D. .#;!G\$*+##-\$.+(/!G. % 5 \$#!* . (G'% '(* 'B!..% '5' ,+\$.+ . (B;!G.##. F+(/!A9! . (!% '9\$+%!

\$/% ' '5' (-B;!\$(, !9%.4+, +(/!-%\$+(+ /!..%!* . \$*D+(/!- .!B-\$Gh!U8 (7. (!<=>k;!`VI!6A-!B+59#7;!% 'B-.%\$-+4'!

EAB-+* '\$(, !. -D' %!1 'D\$4+. %\$#!BA99. %-B!F. %C!1 'B-!FD' (!-D'7!\$% '!G\$*+##-\$- , !17!\$!-%AB- , !5'51' %! .G!

-D'!* . 5 5 A(+7!+(!FD+*D!-D'!B*D. .#!+B!B+-A\$- , !UW+#B. (!'-!I\$#!<=>:c!] /A '%\$!>eebVI!!!

!! WD' (!T8 OM [!N@!* . .% ,+(\$-.%B!\$%'!%'B9. (B+1#!'!G. %!5 \$(7!B*D. .#B;!\$(, !-D'%'G. % '!D\$4'!# 'BB!

\$9\$+-7!- .!D\$4'!B-'\$, 7!\$(, !% '#+\$1#!'9% 'B' (*'!. (!+(, +4+, A\$#!*\$ 5 9AB 'B;!-D'7!D\$4'!# 'BB! .G!-D'!

('* 'BB\$%7!9% 'a' J+B-(/!-%AB-;!% 'B9' *;-;!% !C(. F#', / '! .G!-D'!B-A, '(-B!..% '- '\$*D' %B!+(4. #4', !- .!

!

\$(, !EAB+*'!IN@\$,4+B.%B! 5 AB-!/. !G\$%1'7. (, !EAB-\$, ,%'BB+(/!+(*+, ' (*'B!\$B!-D'7!* . 5 '!A9I!KD'7!

BD.A#, !%'B'%4'!'+5'!-.'!-\$*D!7.A-D!-D'!, '-\$+#B!.G!%'B-.%\$-+4'!9%\$*-+*'B!\$(, !D.F!-. !G\$*#+-\$-!'!-D.B'!

9%\$*-+*'B!\$(, !4\$#A'B!-D' 5 B'#4'BZ!!

W'!F'%'!G+%B-!1' /+((+ (/!F+-D!* . 5 5 A(+7!1A+#, +(/!*+*#*#B!\$(, !D\$4+(/!-D' 5 !rB-A, ' (-Bs!, .!!
! -D\$-!+(!B 5 \$##!/%.A9B;!B. !5 7!-F. !B*D.#\$%B!-D\$-!/%\$, A\$- ', ;!-D'7!F'%'!\$1#!'-!., .!B 5 \$##!/%.A9!!
! * . 5 5 A(+7!1A+#, +(/!*+*#*#B!F+-D!-D'!D.9'!-. !1'!\$1#!'-! !D\$4'!-D' 5 !/ .!+(-. !\$, 4+B.%7!\$(, !!
! *.aG\$*#+-\$-!'!*. 5 5 A(+7!1A+#, +(/!*+*#*#B!F+-D!-D'!\$, 4+B.%!.%!.%FD. '4'!%+B!-D'!'#, '%!-'\$*D'!!
! +(!-D'!B9\$*'!UK'\$*D' %!>!<=<>VI!
!

8, 4+B.%7!9'%. , B;!1%' \$CG\$B-n9%'aB*D. .#;!#A(*D!9'%. , ;!\$(, !G-\$%'B*D. .#!'+5'!BD.A#, !1'!* . (B+, '%', !

G.%!-D+B!B.%-!.G!* . 5 5 A(+7!1A+#, +(/;!-\$+(/!\$(, !*\$9\$*+-7a1A+#, +(/!F+-D!B-A, ' (-BI!HG!\$-!\$(7!9. +(-!

+(!'+5'!, A%+(/!-D'!, \$7!B. 5 '-D+(/!+B!- .!. **A%F+-D!\$!7.A(/!9'%B. (!. (!*\$5 9AB;!FD'-D'!%+!1'!+(!-D'!

#SBB% . . 5! .%!.A-!. (!-D'!7\$%, ;!-D'!'B-.%\$-+4'!EAB+'!\$, 4+B.%!BD.A#, !\$*-!\$B!. ('!.G!-D'!G+%B-!

+(-'4'(-. (B!, '9' (, +(/! . (!-D'!-79'!.G!+(*+, ' (-I_ .%!' J\$ 5 9#';!+G!-D'!+(*+, ' (-!+(4.#4'B!9D7B+*\$#!

!

% 'B-.%\$-+4 '!9% . * 'BB!\$%'!' '*'+4+(/!-D'!'\$99%.9%+\$- '!F%\$9a\$%.A(,!BA99 .%-BI! 8 , ,++ . (\$##7;!B*D . .#B!\$(,!
-D'! ,+B-%+*-! 5 AB-!BA99 .%-!\$, 4+B .%B!+(!* . 5 5 A(+7! .A-% '\$*D!+(++\$-+4 'B!- .!GA%-D '%!B-' (/ -D' (!-D'!+ 'B!
1 '-F' ' (!* . 5 5 A(+7!5 ' 5 1 '%B;!* . 5 5 A(+7a1\$B' ,!.%/\$(+Q\$-+ . (B;!B' %4+* '!9% .4+ , '%B!\$(,!-D'!B*D . .#!
* . 5 5 A(+7Z!

KD' !N@!% . . 5 !+B!4 '%7!*# .B'!- .!. A%!6\$%' (-B!'' (-'%!\$(,!H!F .%C!4 '%7!*# .B'#7!F+D! .A%!!
! 9\$%' (-B!\$(,!. A%!9\$%' (-B!'9!\$B!F'##!\$B! .A%!* . 5 5 A(+7!#+\$B . (I!H! ,+ ,!9% .G'BB+ . (\$#!
! , '4'# .95' (-!F+D! .A%!* . 5 5 A(+7!9\$%-('%B!G .%!-D' 5 !- .!A(, '%B-\$(,!FD\$-!+B!N@!\$(,!FD\$-!
! \$%'!B . 5 '!9%\$*+* 'B;!B . 5 '!% 'B- .%\$-+4 '!B-%\$- /+ 'B!-D\$-!7 .A!*\$(\$!+59# ' 5' (-!\$B!\$!B' %4+* '!!
! 9% .4+ , '%!G .%! .A%!C+ ,B!\$(,!G\$ 5 ##+ 'B!FD' (!7 .A!(' ' ,!-D' 5 !UK '\$*D' %!>!<=<>VI!
!

!

8B!-D' !G+(,+ (/B!\$1 .4 '!D\$4' !BD . F (;!1A7a+(!\$(,!' J-' (B+4' !C(. F# , /' !.G!% 'B- .%\$-+4' !EAB+* '!
9%\$*+* 'B!17!\$, 5 +(B-%\$- .%B!+B!\$!C'7!* . 59 . ((-!+(!!\$!BA**'BBGA#B*D . .#aF+ , '!% 'B- .%\$-+4' !
* . 5 5 A(+7I!L '*\$AB' !g-D' !\$, .9+ . (!.G!\$!% 'B- .%\$-+4' !EAB+* '!99% . \$*D!- .!, +B*+9#+('!.%+ ' (-' ,!F+D+(!
+(,+4+ ,A\$#!B*D . .#!* . 5 5 A(+7' B!* .A9# , !F+D!B- . (/!B*D . .#!# '\$, '%BD+9!*\$(!% , A* '!'%\$*+*\$!
 ,+B9% .9 .%-+ . (\$#+-7!+(!B*D . .#! , +B*+9#+(' ;h!\$(,!-D' !%' \$#+-7!-D\$-! ' J+B+(/!B*D . .#!\$, 5 +(B-%\$- .%B!BD .A# ,!
(.-!1'!*D\$%/ ' ,!F+D!1 '\$%+(/!-D' !GA##!F' +/D-! .G!\$, ,++ . (\$#!N@a% '#\$- ' ,!' B9 . (B+1+#++ 'B;!+!+B!
% '* . 5 5 '(, ,!-D\$-!' \$*D! " . 5 5 A(+7! .G!M*D . .#!+(!-D' ! ,+B-%+*-!UB 5 \$##!/% .A9B! .G!\$1 .A-!B'4' (!
B*D . .#B!# .*\$- ' ,!F+D+(!-D' !B\$ 5' !(' +/D1 .%D . . ,!.% !\$%' \$V!D+% ' !\$(' F!# '\$, '%BD+9!9 .B++ . (!+(!*D\$%/ '!

!

!

#1 5 \$- '! \$ 5 . (/!B-\$GG j D'#9+(/!-.!B7(-D'B+Q'!'B-.%\$-+4'!EAB-+'!F+-D!.-D'!\$##'\$,7!'B-\$1#BD',!

1'D\$4+.%\$#!\$(,!B.*+.a'5.-+.(#\$!BA99.-!9%\$*-+*'B!#C'!6LHM;!D.#,+(/!*D'*Ca+(B!F+-D!-'\$*D'%B;!

G\$*#+-\$-+(/!*+*#*#B!F+-D!-'\$*D'%B!\$(,!B-\$GG;!\$(,!5 \$C+(/!BA%'!-D\$-!'B-.%\$-+4'!9%\$*-+*'B!\$%'!D'#,!

*.(B+B-'(!!\$5.(/!B*D..#!'59#.7''B!\$(,!.-D'!\$,5+(+B-%\$-.%BI!O#+5\$- '#7;!-D+B!9.B++.(!F.A#,!1'!

+(!*D\$%/ '!G!\$##!-D+(/B!N@!\$-!-D'+%! ".55A(+7!.G!M*D..#B;!#+'4+(/!9%'BBA%'!.GG!\$##'\$,7!

.4'%F.%C',!B*D..#!\$,5+(+B-%\$-.%B!\$(,!F.A#,!9%.4+, '\$(!\$, ,++.(#\$!\$** .A(-\$1+#+-7!5 '*D\$(+B5!

FD+*D!5\$(\$/'B!1.-D!.4'%B1.-5D5#%'\$A(+ '#1+.A#(\$) 0 . 2 (. 2 (\$) 0 . 2 (#) 0 % 2 (B) -0 . 2 !17!9(#) 0 . 2 (, 7!)] T

!

+(!-D'+%!* . 5 5A(+7!5 \$7!G' '#!5 . %'!* . (('*-' , !- . !-D'!1 'B-!+(- '%B-B! . G!B-A, ' (-B!G% . 5 !-D'+%!'\$% '\$;!\$(, !
4+* ' !4' %B\$I!

T8 OM [!BD . A# , !\$\$# . F!B*D . . #B!-D' ! \$A- . (. 5 7!- . !' (- '%!+(- . !* . (-%\$*-B!F+-D!F+##+ (/ ! " L) B!
\$(, ! . -D' %!* . 5 5A(+7!' (-++ 'B!+(! . % , '%!- . !BA99 . %-!-%AB-' , !* . 5 5A(+7!# '\$, '%B!+(-D' +%!F . %C!\$B!
7 . A-D!U\$(, n . %!9\$%' (-V!\$, 4 . *\$-'B;!5 ' (- . %B;!\$(, !* . 5 5A(+7!+(- '%4' (-+ . (\$#+B-Bn9 '\$*' 5 \$C' %BI!H-!+B!
%* . 5 5 ' (, ' , !-D\$-!-D' !5 . , '#!G . %!+(*% '\$B' , ! \$A- . (. 5 7! . G!B*D . . #B!1 ' !1\$B' , ! . (!T8 OM [YB!6+ . -!
M*D . . #B;!FD+*D!*A%%' (-#7!D\$4' !5 . %' ! \$A- . (. 5 7! . 4' %!-D' +%!1A , / - ; !* \$5 9AB!9 . #+*+ 'B;!\$(, !D+%+ (/ !
9%\$*+* 'B!U6' %'Q!<=>VI!) ('!' J\$5 9# ' ! . G!6+ . -!M*D . . #B!BA**' BBGA#7!9\$%- ('%+ (/ !F+-D! " L) B!- . !
+5 9# ' 5 ' (-!\$(, !9%\$*+* ' !'B- . %\$-+4' !EAB+* ' !+B!3B- ' 1\$(!K . %% 'B!d+/D!M*D . . #;!FD+*D!9\$%- ('%B!F+-D!
-D' ! " \$#+G . %(\$! " . (G' %' (*' !G . %!3 ^A\$#+-7!\$(, !@AB+* ' !- . !\$, 5+(+B-' %!\$, , ++ . (\$#!'B- . %\$-+4' !EAB+* ' !
-%\$+(+ (/B! . (!-D' !5 A#+aB*D . . #!*\$5 9AB!\$(, !'4' (!G\$*+#+-\$-' !'B- . %\$-+4' !+*%*# 'B!U6' %'Q!<=>VI!
3J-' %(\$#! . 9' %\$- . %B! . G!T8 OM [!B*D . . #B!#C' !-D' !6\$%- ('%BD+9!G . %!T8 !M*D . . #B!D\$4' ! \$B . !9% . 4' , !-D\$-!
+(*% '\$B' , ! \$A- . (. 5 7!\$(, !G# ' J+1#+-7!*\$(!\$## . F!G . %!GG' *-+4' !9\$%- ('%BD+9B!F+-D! " L) B;!FD+*D!D\$B!
G . B-' %' , ! \$!g 5 . %' ! \$A-D' (-+*!+5 9# ' 5 ' (-\$+ . (! . G! 'B- . %\$-+4' !EAB+* 'h!\$-!-D . B' !B*D . . #!B+ 'B!U6' %'Q!
<=>VI!6' %'Q!\$(, !-D' %!T8 OM [!' 5 9# . 7' 'B! (. - !-D\$-!B*D . . #B!A(, '%!-D' !5 \$(\$/ ' 5 ' (-! . G!-D' !
6\$%- ('%BD+9!#+C' !N . . B'4' #!d+/D!M*D . . #!\$(, !O' (, 'Q!d+/D!M*D . . #;!g% 'B- . %\$-+4' !EAB+* ' !# . . CB!
/ % '\$- ; !1' *\$AB' !-D . B' !B*D . . #B!D\$4' !5 . %' ! \$A- . (. 5 7!\$(, !G# ' J+1#+-7h!U6' %'Q!<=>c!K' \$*D' %!>!<=>VI!
KD'B' ! . %/ \$(+Q\$+ . (B!\$(, !+ (, +4+ , A\$#B!BD . A# , !F . %C!F+-D!N@!8 , 5+(+B-%\$- . %B;!B-A, ' (-!9%\$*-++ . ('%B;!
N@!\$, 4+B . %B!\$(, ! . -D' %!BA99 . %-!B-\$GG!- . !B' %4' ! \$B!9\$%' (-!#+\$B . (B!\$(, !% '9% 'B' (-\$-+4' 'B-A, ' (-!\$##+ 'B!
\$(, !D' #9!G\$*+#+-\$-' !* '%-\$+(!N@!+*%*# 'B!FD' (!(' , ' , !P+4' (!-D\$-!'4' %7!B*D . . #!\$(, !* . 5 5A(+7!+B!
 , +GG' %' (-; !-D' %' !5 AB-!1' !G# ' J+1#+-7!+(!D . F!-D+B!9\$%- ('%BD+9!F . A# , !# . . C!1\$B' , ! . (!-D' !(' , B! . G!-D' !
\$% '\$YB!B-A, ' (-B!\$(, !9\$%' (-BI!!

!

8B!9\$%'(-n*. 5 5 A(+7!#+\$+B. (B;!5 ' 5 1 '%B!.G!"L)B!\$(,!*. 5 5 A(+7!#'\$, '%B!BD.A#,!\$BB+B-!+(!
9\$%'(-!'(/\$/ ' 5 '(-!\$(,! ,A*\$+.(!\$.A(,!N@!-.!D'#9!B-A, '(-B!*. (-+(A!'!B-.%\$-+4'!* . 5 5 A(+*\$+.(!
\$-!D. 5 'Z!\$!9%+(*+9\$#!'(/\$/ ' ,!+(!'B-.%\$-+4'!9%\$*-+*'B!+(!L\$#+5 .% '!(.- ' ,!+(!\$!B-A, 7!.G!-D'!9%./%\$ 5!
-D\$-!g+-!+B!D\$,!- .!1A+#,!% '#\$+.(BD+9B!F+-D!9\$%'(-B;!1A-!'B-.%\$-+4'!9%\$*-+*'B!*\$(!D'#9!_A%-D'% 5 .% ' ;!

!

6#\$(;!9\$%-('%+(/!F+D!#. *\$#!* . 5 5 A(+7!1\$B' ,!.%/\$(+Q\$-+. (B!- .!+ 5 9%. 4' !B*D. .#!*#+ 5 \$-'!* .A#, !/ .!\$!

!

9' '%B!D\$4'!\$!D\$(,!+(!-%\$+(+(!-'\$*D'%B!\$(,!.-D'!\$A-D. %+7!G+/A% 'B!-D'7! 5 \$7!1 '!5 .% '!-%AB+(/! .G!
 -D'!B*D. .#YB!'B-. %\$+4'!9%. *'BB!U3#\$5 !<=<>c!L\$%1 .B\$!<=<>VI!KD'!AB'!.G!B-A, '(-!9%\$*-++ . ('%B!
 9%.4+,+(/!N@!'J9'%'B'!\$(,!\$,4+B+(/!-!-'\$*D'%B!*\$(\$!\$#B. !B+/ (+G+*\$(-#7!1' ('G+!-D'!9%\$*-+*'!+B'#G!
 17!+(GAB+(/!B-A, '(-BY!#4' ,!'J9'%'+' (*'B!\$(,!B9' *+G+*!'(' ,B!+(-. !-D'!-%\$+(+(/;!'(BA%+(/!-D\$-!-D'!
 -%\$+(+(/!*A%+*A#A5 !+B!(.-!\$!g. ('!B+Q'!G+B!\$##h!\$(,!+B!+(,+4, AS#Q' ,!-!-D'!B-A, '(-B!\$(,!
 *. 5 5 A(++'B!'\$*D!B*D. .#B'%4'BI!

KD+B!5 . , '#!5 \$7!F. %C!1 'B-!\$5 . (/!D+/D!B*D. .#%'B!1A-!* .A#, !\$#B. !+(*#A, '!5 +, ,#B!B*D. .#%'B!
 \$(,!'4' (!B-A, '(-B!-\$!(!'# '5' (-\$7!# '4'#; !F+D!\$, EAB- , !# '4' #B! .G!B-\$GG!+(4. #4' 5' (-!, '9' (,+(/! .(!
 -D'!9%\$*+*9\$(-BY!\$/ '!U3#\$5 !<=<>VI!M*D. .#B!BD. A#, !\$BC!-'\$*D'%B; !B-\$GG!\$, 5+(+B-%\$-. %B; \$(,!
 B-A, '(-B!-!(. 5+(\$-'B-A, '(-B!G. %!-D' 'B'!9. B++ .(BI!KD' 'B'!(. 5+(\$+ .(B!5 \$7!1' !!\$!* .5 1+(\$+ .(!G!
 +, '(-G7+(/!B-A, '(-B!FD. !D\$4'!, +B9#\$7' ,!1'D\$4+. %\$#!9%. 1# '5 B! .%!FD. !F. A#, !1' ('G+!G%. 5!-D'!
 *A%+*A#A5 !;\$#. (/!F+D!B-A, '(-B!FD. !\$%!5 .% '!BA**'BGA#!\$*\$, '5+*\$##7!\$(,n. %!B. *+##7!UO. #+(\$!
 <=>bc!3#\$5 !<=<>VI) ('!T8 OM [!' 59#. 7' '!(.- ,!-D\$-!B*D. .#B!BD. A#, !-7!-!%'*A+!-D'!B-A, '(-B!
 FD. !\$%'B-%A//#+(/! .%!FD. !\$%'!5 .B-!4A#(' %\$1# '!.!/' --(/!9ABD' ,!A-! .G!B*D. .#!+(-. !-D'!B*D. .#%a- .a
 9%+B. (a- .a, '9. %-\$+. (19+9'#+('!-!1'!9%\$*-++ . ('%BZ!g-D'!9' .9# '!-D\$-!7. A!(' ,!-!# '\$, !%B- .%\$+4'!
 EAB+*'!\$%'!-D'!9' .9# '!-D\$-!\$%'!-D\$-!\$%'!*\$-A\$##7!+(!-D'!-%' (*D' 'B!F+D!\$(!A(,'%B-\$(,+(/! .G!FD'%'!
 -D' 'B'!C+, B!\$%'!*. 5+(/!G%. 5h!UT8 OM [!3 59#. 7' '!'<=<>VI

M-A, '(-B! .G-' (!D\$4'!\$!1'--'!A(,'%B-\$(,+(/! .G!-D'!D\$%, BD+9B!-D'+%19' '%B!5 \$7!1'!
 'J9'%'+' (*+(/; !5 \$7!D\$4'!BD\$%, !#4' ,!'J9'%'+' (*'B!F+D!-D'+%19' '%B; \$(,!D\$4'!C(.F#', /'!.G!-D'!
 .4' %\$##!#\$(,B*\$9'!.G!-D'+%!* .5 5 A(+7! .A-B+, '! .G!B*D. .#F\$##B!-D\$(-'\$*D'%B! .%!B-\$GG!L '*\$AB'!.G!
 -D+B!C(.F#', /'; !B-A, '(-!9%\$*-++ . ('%B!F###1'!-%\$+(,!17!-D'+%!B*D. .#YB!N@!8 ,4+B. %!-!1'!\$, 4. *\$-'B!
 G. %!-D'+%19' '%B; !B9' *+##7!FD' (!5' ,+\$+. (11'-F' '(B-A, '(-B!\$(,!T8 OM [!' 59#. 7' 'B!+B!(' , ,!
 1A-!\$#B. !9' '%a- .a9' '%U3#\$5 !<=<>VI!KD'7!\$%'!\$#B. !F'##!9. B++ .(,!-!D\$4'!-D'!+59. %-\$(-!

!

\$B!\$!4.#A(-\$%7!.99.%-A(+7!-.!B'%4'!-D'!B*D..#!*.55A(+7!F+D!#+-#!'+(*'(-+4'!1'7.(,!G%'!'
 +(-'(B+4'!G\$*#+-\$-+.(!-%\$+(+(/!\$(\$,!\$!*D\$(*'!-.!5\$C'!\$!9.B++4'!+59\$*-.(!-D'+%19'%'B;!B-A,'(-B!B\$7!
 9%\$*--+.('%B!\$%'!5.%'!#C'#7!-.!1'!'/'(A+('#7!*\$%+(/!\$(\$,!9\$BB+.(\$-'!\$1.A-!%B-.%\$-+4'!EAB-+*'
 U%\$-D'!-D\$(!9\$%+*+9\$+(/!G.%!5.('7!.%!\$**.#\$, 'BV!U3#\$5!<=>VI!T80M[!'59#.7'!'B!'9.%-',!-D\$-!
 -D'!AB'!.G!B-A,'(-!N@!9%\$*--+.('%B!\$#B.!+59%.4',!A-*.5'B!G.%!-D'!+(,+4+,A\$#9%\$*--+.('%B;!
 B\$7+(/!-D\$-!+G!rN@!\$-!B*D..#Bs!+B!,.('9%.9'#7;!7.A!F.A#,!D\$4'!B-A,'(-B!%A((+(/!-D'B'
 .55A(+7!+*#B!FD+*D!*\$(!/+4'!-D'5!\$(!\$%%\$7!.G!BC+##B!#C'!#'\$,%BD+9;/%.F-D!5+(,B'-;
 '59\$-D7!U<=>VI!

H59#'5'(-+(/!-D'!AB'!.G!B-A,'(-!%B-.%\$-+4'!EAB-+*!'9%\$*--+.('%B!+B!'*.55'(',',!B!\$!F\$7!
 -.!\$,,%'BB!B.5'!.G!-D'!*.(*%'(B!9%'B'(-',!+(!-D'!G+(,+(/B!B'*-+.(!.G!-D+B!B-A,7I!8(!'J\$5+(\$+.(!
 .G!\$!*D\$%-!'B*D..#!+(!O6M!FD+*D!-%\$+(,'!B-A,'(-B!+(!%B-.%\$-+4'!EAB-+*!'!G\$*#+-\$-+.(!G.A(,!-D\$-!
 B-A,'(-YB!#\$,%BD+9!9.B++.(!+(!-D'!G\$*#+-\$-+.(!.G!N@gBA99.%-',!\$(!+(*%'\$B+(/#7!*.'D'B+4'!
 .(+(AA5!.G!9%\$+*#B!\$-!-D'!9%+5\$%7;B'*.(,\$%7;!(,!'-%+\$%7!+%'B;h!C'9-!-D'!9%\$*+*#B!\$-!%A(,!,!
 +(!*.55A(+7!\$(,!#.*\$#!*A#-A%';!G.B-'%',!5.%'!-AB-!1'-F'!(!B*D..#!\$(,!G\$5+#+B;\$(,!9%.4+,',!
 \$(!\$,,++.(\$#!5 '*D\$(+B5!-!D.#,!-'\$*D'%B!\$(,!\$,5+(+B-%\$+.(!\$**.A(-\$1#!G.%!-D'!BA**'BBGA#!
 +59#'5'(-\$-+.(!.G!N@!\$-!-D'!B*D..#!UP.(QR#'Q!'!-\$#!<=>f;!kVI!

!!

!

8!#\$%/'!9\$%-!.G!'B-.%\$-+4'!EAB-+*!'!\$-!B*D..#B!5AB-!1'!9%.\$*-+4'Z!'B-\$1#BD+(/!'J9'*\$-\$-+(B;!4\$#A'B;
 \$(,!D'\$#-D7!5'-D.,B!.G!*.'55A(+*\$-+.(B!G%.5!\$(!'\$%#7!\$/!'-!9%'4'(-!+(*+',(-B!.G!D\$5!\$(,!-!

!

% '* . 5 5 ' (, ' , !-D\$-!N@!+(!B*D . . #B!B-\$%-!\$-!\$! 5 A*D!7 . A (/ '%!\$ / ' !UP% / / . %7! 2 !34\$(B!<=<=<c!W' 11 '%!

'-!\$#I!<=<=<c!3#\$5 !<=<>c!m+ 5 5 '%!<=<>VI!KD+B!9% '* , ' (-!G . %!' ^A+-7a1\$B' , !% 'B- . %\$-+4 '!4\$#A 'B!\$(, !

* . 5 5 A(+*\$-\$+ . (!BD . A# , !B-\$%-!\$B! '\$%#7!\$B!9 . BB+1# '\$(, !B!BA*D;!T 8 OM [!BD . A# , !% '^A+% ' !\$##! '\$%#7!

D+#, D . . , !' , A\$-\$+ . (!* ' (- '%!U3 " 3 " V!- '\$*D' %B; !\$, 5 +(+B-%\$- . %B; !\$(, !BA99 . %-!B-\$GG!- . !\$-- ' (, !1+a

5 . (-D#7!-%\$+(/ B! . (!% 'B- . %\$-+4 '!9%\$*-+* 'B!F+-D!\$!G . *AB! . (!K+ '%!>!* . 5 5 A(+7a1A+# , + (/ !\$(, !B . *+\$#a

' 5 . -+ . (\$#!D' \$%-DI!KD' ! , +B-%+* -!BD . A# , !\$#B . !% '^A+% ' !-D\$-!-D' !- ' ('-B! . G!% 'B- . %\$-+4 '!EAB-+* ' !1' !

\$, , , n+(- / %\$- ' , !+(- . !3 " 3 " !*A%+%*A#A 5 ; !\$(, !* . A# , !A-++Q' !\$(!\$, \$9-\$-+ . (! . G!-D' ! '\$%#7!*D+#, D . . , !

[Redacted line]

!

-D'!GA(,+(!-D\$-!B!-'*D(+*##7!\$4\$+#\$1#!-!-D' 5I!T8 OM [!5 AB-!'a'J\$5+(!'!-B!1A, / '-!\$(,!

GA(,+(!G.% 5 A#\$B!F+D!\$!\$*+\$#a^A+7!#' (B!-.!G+(,!\$%'\$B!FD%'!+('GG+*+' (*+'B!*\$(!1'!' 5 .4',!\$(,!

5 .%'!5 . ('7!*\$(!1'!, 'B+/(\$-',!G.%!'B-.%\$+4'!EAB+*!'-'*\$D'%B!\$(,!'B-.%\$+4'!EAB+*!'!9%.G'BB+. (\$#!

, '4'#.95' (-!8, ,+,+ . (\$##7;!-D'!, +B-%+*!BD.A#,!* . (B+, '%!5 \$C+(/!AB'!.G!B. 5'!.G!-D'!1###. (B!.G!

,.##\$B!1'+(/!9%.4+, ',!-.!+!17!-D'!L+, ' (\$!, 5+(+B-%\$+ . (!-D+B!BA 5 5 '%!-.!GA(, !-D'!

% '* . 5 5 '(, \$+ . (B!B'-.!A-!+(!-D'!9\$/ 'B!\$1 .4';!\$B!F'##!\$B!F.%C!F+D!-D'! \ .A-D!@AB+*!'W.%C!P%.A9!

U \ @WPV!.G!T.B!8 (/ '#B!" .A(-7!-.!5 \$C'! / . . ,!AB'!.G!-D'!\$4\$+#\$1#!GA(, B !, 'B+/(\$-', !17!-D'#!

9#\$(!G.%!'B-.%\$+4'!EAB+*!'!\$(, !7.A-D!, '4'#.95' (-!U \ @WP!<=<=<=VI!

!

F&%(5.6&#!

! KD+B!B-A, 7!E.+(B!\$!/%. F+(!*\$(. (!.G!'B'\$%*D!\$(, !B*D.#\$%BD+9!' / \$%, +(/!-D'!AB'!.G!

'B-.%\$+4'!EAB+*!'!+(!&a><!B*D. .#B!17!'J\$5+(+(!T8!O (+G+', !M*D. .#! [+B-%+*!YB!AB'!.G!N@!\$(,!

\$--' 59+(/!-.!\$(BF '%!-D'!^A'B+. (!.G!D. F!-D'!, +B-%+*!*\$\$(+ 59%.4'!+B!'B-.%\$+4'!9%\$*+*!'B!KD'%'!

D\$4'!1'' (!B+5 +#\$!'4\$#A\$+. (B!* . (, A*-' , !.G!.-D'%, +B-%+*!B!\$*%.BB!-D'!* .A(-%7!UB''!T.B' (!-!I!\$#!

<=>`c!P. (QR#'Q!<=>bc!-D'! ['(4'!M*D. .#aL\$B', !N'B-.%\$+4'!6%\$*+*!'B!6\$%- ('BD+9!'9. %!-<=>:c!

" 8 [N3!<=>:c!\$(, !_%. (+AB'!-!\$#!<=>e;!\$5 . (/!.-D'%BTX!KD+B!9%.E'*-!+B!-D'!5 .B-!'*' (-!^A\$#+-\$+4'!

+(4'B+/\$+. (!.G!-D+B!, +B-%+*!YB!N@!9. #+*7!WD#'-D+B!B-A, 7!9%.4+, 'B!\$B(\$9BD.-!.G!D. F!'B-.%\$+4'!

EAB+*!'!B!+59# '5' (-', !+(!T8 OM [;!\$B!F'##!\$B!*'-%\$+(!* . 5 5 A(+7!5 ' 5 1'BY!\$(, !, +B-%+*!

' 59#.7'BY!.9+(. (B! . (!-D'!T8!O (+G+', YB!'B-.%\$+4'!9%\$*+*!'B!;-D'%'!+B!5 A*D!F.%C!#G!-! !1'!

, . ('!-.!+59%.4'!-D'!'J9'%'+' (*'!.G!7.A-D!\$!-B*D. .#IH(!.%, '%!-.!GA##7!B''!-D'!9.B+4'!+59\$*-B!.G!

'B-.%\$+4'!9%\$*+*!'B!-.!GA+ . . (;T8 OM [!+B'#G! 5 AB-!(4'B-!(\$!-D.% .A/D!'J\$5+(\$+ . (!.G!+B!

, +B*+9#+'!\$(, !%'B-.%\$+4'!9. #+*+'B!\$(, !5 .%'!B9'*+G+*##7;!F.%C!-!+ , ' (-+G7!D. F!-D'!, +B-%+*!*\$\$(!

_____!

!&! :D###+1*3%!&) - #!(*'D##!+, - !)+!\$[1?##*(0##[1%'(&#!@#.0(C* - ##*'!Y0)&X!Q, . *'%L!.44), '()*#3!')!D##M)%!B*C#0##!
 F)1*2!72!40)*20->'\$\$-?@A-.%!4.,!)!+F.0(+),*(.E!&0)%1,#!)!+D##!'.'#E#!I(?%()*!)+[1?##*(0##[1%'(&#!&5!!

!

!

L'7.(,!,+B*+9#+';!'B-.%\$+4'EAB+*!'\$#B.!+B!\$!A(+^A'!\$(,!9%.5+B+(!99%. \$*D!-.!+59%.4+(!-D'!

5'(-\$#D'\$#-D!\$(,!B*D..#!'J9'%+'(*'!.G!B-A,'(-B;!-'\$*D'%B;!\$(,!.-D'%B!FD.!\$%'!(/\$/'!,F+-D!-D'!

T.B!8(/'#'B!O(+G+',!M*D..#![+B-%+*-I!WD+#'!-D'!'B-.%\$+4'EAB+*!'B-+9A#\$+.(!+(!-D'!<=>?!M*D..#!

"#+5\$-!L###!.G!N+/D-B!F\$B!F%+--'(!F+-D!/%'\$-!+(-'(-+. (B;!-D'!+59#'5'(-\$+.(!\$(,!9%\$*+*!'!.G!N@!+(!

T8OM[!D\$B!1''(!#\$/ '#7!A9!-.!+(!,+4+,A\$#B*D..#!\$,5+(+B-%\$-.%B!FD+*D!D\$B!#',!-!.!,+B9\$%-!

+59\$*-B!. (B-A,'(-B!\$(,!\$!#\$*C!.G!-D'!'(*'BB\$%7!* .D'B+4+-7!.G!'B-.%\$+4'!4\$#A'B!1'-F''(!B*D..#B!

KD.B'!\$,5+(+B-%\$-.%B!FD.!D\$4'!'51%\$*',!%'B-.%\$+4'EAB+*!'!\$(,!#'\$(',!+(-!-D'!* .55A(+7a

1\$B',!%'B-.%\$+4'!9%\$*+*'B!D\$4'!'B''(!/%'\$-!BA**'BB'B!F+-D!-D'+!%'B-.%\$+4'EAB+*!'9%./%\$5B;!

FD+#'!. -D'#!#BB!'(-DAB+\$B+*!B*D..#!#'\$, '%B!5\$7!'B''!#BB!.G!\$(!+59\$*-I!W+-D!-D'!M*D..#!L.\$, YB!

%'*'(-!, '*+B+. (!-!9A##!9.#+*!'!A-!.G!B*D..#B;!-D'!* .##'*+4'!-%\$A5\$!.G!-D'!#B!->?!5.(-DB;!\$(,!

T8OM[!MA9'%+(-'(', '(-!L'A-('%!F.%C+(/!-!.!' .9'(!*\$59AB'B!\$B!B..(!B!9.BB+1#';!-D'![+B-%+*-!

5AB-!\$*-!^A+*C#7!-.'(BA%'!-D\$-!+-B!,+B*+9#+(%7!\$(,!1'D\$4+.%\$#9.#+*+'B!#C'!-D'!<=>?!M*D..#!

"#+5\$-!L###!.G!N+/D-B!\$%'!1'+(!/!9%.9'%#7!+59#'5'(-',!B.!-D\$-!B-A,'(-B!\$(,!B-\$G!G'!'#B\$G'!\$(,!

F'##.5'!.(!*\$59ABI!

! [redacted] !

!
!

! [redacted] !

!

"GG)%*6H!"I9).-&12-6:!)J5.-6#)E12#-6#).!

!

N'B-.%\$-+4'EAB-+*!'*\$(!-!\$C'!5\$(7!G.%5B;!B9'*\$##7!+(!-D'!*.(-'J-!.G!B*D..#BI!H-!+B!+59.%-\$(-!-.!
(-!'!-D\$-!'B-.%\$-+4!'9%\$*-+*'B!\$%'(!-!\$!('F!5'-D.,!.G!* .55A(+7!1A#,+(/!\$(,!*.(G#+*!-!
%'B.#A-+. (j +- '%\$-+. (B!.G!'B-.%\$-+4'EAB-+*!'9%\$*-+*'B!D\$4'!1''(!\$(,!\$%'!AB',!17!-D'!+(, +/'(.AB!
9'.9#'B!.G!] 'F!m'\$#\$(\$,!\$(,!W'B-!8G%+*\$;!\$B!F'##!\$B!17!_+%B-!] \$-+. (!6'.9#'B!+(!] .%-D!85'%+*\$!
UW'11'%!'-I

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~f!

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"GG)%*6H!<

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"GG)%*6H!FI!4%-)1:6) ' !E21-6#6G2%-.-!

-		!	
" '#?#!a(- - #,!	" '#*(,)!B3?(%),!) *! G31&.'()*(6)0(&2!! !	b++(&#!)+!W.2),!G,(&! Q.,&#'(! ! !	<ul style="list-style-type: none"> • G31&.'()*(4)0(&2!#/4#, '!) • F)8.1'D),#3!'D#!JK;<!'&D))0!F0(- . '#!Y(00)!+@(CD'%! • V), - #,!MBN" I!'&D))0!Y) . ,3! - # - 7#,!9 I(%',(&'!_!=! • V), - #,!6,##(3#*')+'D#!MB!Y) . ,3!)!+G31&.'()*(5! • V), - #,!MBN" I!'#.&D#,!! • V), - #,!MBN" I!&)1*%#0),! !
: . *2.!b,'(Z! V,.*X0(*>![5 I 5!	MBN" I!'&D))0! Y) . ,3!W# - 7#,>! I(%',(&'!_!! 9")1'D!MB>!O.'''%>! Q.,3#*.>!:) , . *&#>! F.,%)>!P.,7),!F('2>! M) - ('.>!O(0 - (*C') *! . *3!" . *!6#3,)=!	M)%!B*C#0#%!N*(+(#3! "&D))0! I(%',(&'!	<ul style="list-style-type: none"> • V), - #,!: #.&D#,! I #?#0)4 - #*!'4#&(.0(%>! I(, #&'),!) +! "&D))0!F10'1,#!. *3!@#%'),. '(?#!F) - - 1*(#%>! . *3!! " '#*(, ! I(, #&'),!)+'D#!6., '*#,%D(4!+),!M)%!B*C#0#%! "&D))0%5!! • M#C.0!A*'#, *!H('D!6170(&!F)1*%#0!31,(*C!'D#!) ,C. *(Z.'() *E%!! D#. ?2!(*?)0?# - #*!'(*!D#!.3)4')*()+'D#! !JK;<!'&D))0!F0(- . '#!Y(00)!+@(CD'%5!! • V), - #,!MBN" I!'#.&D#,!! • V), - #,!MBN" I!%'13#*!'

Q.7,(#00.!
Y.,7)%>![5 I 5!

6)0(&2! I(, #&'),!

: D#!FD(03, #*E%!
6., '*#,%D(4!

- V), - #,!6)0(&2! I(, #&'),!+),!'D#!MB!"&D))0!Y) . ,3!
I(%',(&'!c!
-

!

			<ul style="list-style-type: none"> • G/4#, '(!, #%)', . '(?#U1%'(&#!(- 40# - #'.'()*)!(*!1, 7. *! 4170(&! %&D))0%! • V), - #, !B%%(%' . *!6,) + #%%), !)+!G31&.'()* . 0!M#. 3#, %D(4! . *3!! " • V), - #, !4170(&!%&D))0!# . &D#, !. *3!&) - - 1*('2!), C. *(Z#, !
--	--	--	---

\#*!
W#*3)Z.!

W. *. C#, !)+!6)0(&2!
. *3!F) - - 1*('2!
b, C. *(Z(*C!

B*'(8@#&(3(?(% - !
F). 0(') *!9B@F=!

!

- F) - - ('##! - # - 7#, !+), !F. 0(+), *(. E%!' "' . '#!B3?(%) , 2!
F) - - ('##!!) *! [1?#*(0#! [1%'(&#! . *3! I #0(*] 1#*&2!6, #?#*') *!
9" BF[[6 I =!
- F) - - 1*('2!@#4, ##%#*'. '(?#!+), !'D#!M)%!B*C#0##!
F) 1*2! [1?#*(0#! [1%'(&#!F)), 3(*. '(*C!F) 1* &(0!9[[FF=!!
- F) *%10'. *!' +), !'D#!e) 1'D! [1%'(&#!@#(- . C(*#3!60. **(*C!
: #. - !! . *3!e) 1'D! [1%'(&#! O), X!Q,) 14!!
9MB!F) 1*2!Y) . , 3!)+! "14#, ?(%), %fO5!P. 2H)) 3!Y1, *%!
A*%'('1'#=!
-

!

A%..&!S#*3(C!!	Y5"5!C,.31.'#!(*! G*?(,)* - #*'.0! "&(#*&#%!	N*(?#,%('2!)+! F.0(+),*(. !Y#,X#0#2!	<ul style="list-style-type: none"> • V), - #,!MBN" I !%'13#*!'!
[.&X!Y#, - .*!	Y5B5!%'13#*!'(*! W#&D.*(&.0! G*C(*##,(*C!	F.0(+),*(.!''. '#! 6)02'##&D*(&!N*(?#,%('2! 6) -)*!.!	<ul style="list-style-type: none"> • V), - #,!MBN" I !%'13#*!'!
: #.&D#,;!;	@#%'),. '(?#![1%'(&#! : #.&D#,!	M)%!B*C#0#%!N*(+(#3! "&D))0! I (%',(&!	<ul style="list-style-type: none"> • @#%'),. '(?#!U1%'(&#!#/4#,'! • V), - #,!MBN" I !%'17U#&'! - . '#,!'.&D#,>!! +), - #,!MBN" I !%'13#*!'>!MBN" I !4.,#*!'!
MBN" I !! G - 40)2##!;! !	!	!	!
MBN" I ! G - 40)2##!J! !	!	!	!
F) - - 1*('2! B&'(?%!'!;	!	!	<ul style="list-style-type: none"> • P)03% !# / '#*%(?#!X*)H0#3C#!)+!,#%'),. '(?#!4,.&'(&#%>!! &) - - 1*('287.%#3!#31&.'()*)>!. *3!MBN" I E%1%#!) +!! ,#%'),. '(?#!U1%'(&#!!

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"GG)%*6H!NI!M#)%216&.!&K!F<R!F& , , 5%6-C!8)2*)1.@6G!E21-6#6G2-6&%!6%!N6.-16#-!!
9).-&12-6:!)E12#-6#).""!!

!

M*('\$%+.!>Z!KF.!/%.A9B!.%!/\$(/B!G%. 5!,+GG'% '(-('+/D1.%D..,BnB*D..#B!\$%'!(/\$/',!+(!*.(G#+*!-

!

! "GG)%*6H!LI!Q&-)!&%!E&-)%-62(!F<R!E21-%)1.!

KD'T.B!8(/'#'B!H(-'%4'(-.(!".\$.#++.(!+B!* .59%+B',!.G!>`!9'\$*'5\$C+(/!\$(,!4+.#('!'9%'4'(-.(!*.55A(+7a1\$B',!.%/\$(+Q\$+. (B!%!/%.A9B!U\$!>b-D!./\$(+Q\$+.(!,.'B!F.%C!.A-B+, '!G!-D'!,+B-%+*V!F.%C+(/!\$*% .BB!T8!" .A(-7!-.!g*%'\$-'!9'\$*'!\$(,!' ,A*!'!4+.#('!'Ih!O\$(7!.G!-D'B'!/%.A9B!'4'(!D\$4'!\$!G.*AB!.(!5',+\$+(/!7.A-D!*.(G#*-*!.%\$#%'\$,7!9%.4+, '!5'(-.%+(/!\$(,!7.A-D!BA99.%-!B'%4+*'B!-.!7.A-D!+(!T8!" .A(-7!)('!%!.F.!4'(!9\$%-(%'!F+-D!B*D..#B!\$#%'\$,7I!KD+B!B-A,7!G.A(,!D\$-!-D'%'!\$%'!T.B!8(/'#'B!H(-'%4'(-.(!".\$.#++.(!./\$(+Q\$+. (B!1\$B',!+(!'4'%7!T.*\$#![+B-%+*-*(!T8OM[I!KD'B'!.%/\$(+Q\$+. (B!5+/D-!1'!\$!/. . ,!9#\$*!'!-!B-\$-!FD'(!%'\$*D+(/!.A-!-.!* .55A(++'B!G.%!#'\$, '%BD+9!9\$%-(%'BI!)%/\$(+Q\$+. (B!#C'!L%.-D'%B!M. (B!M'#4'B!ULMMV;\ .A-D!@AB-+*'!'".\$.#++.(!U \@ "V;!T8!\ .A-D!09%+B(/;!M.A-D!"'(-%\$#\ .A-D!359.F'%' ,!KD%A!8*-+.(!UM" \ 38V;!-D'!8(-aN'+*, +4+B5!"\$.#++.(!\$(, !5\$(7!.-D'%B!\$*% .BB!T8!" .A(-7!\$#B.!'(/\$/'!+(!EAB-+*'a.%+'(-',!F.%C!F+-D!7.A-D!+(*#A, +(/!5'(-.%BD+9!\$(,!'B-.%\$-+4'!9%\$*-+*'B!\$(,!* .A#,!9.-'(-+\$##7!9%.4+, '!-D'+%!J9'%-+B!\$(, !BA99.%-!-!-D'!, +B-%+*-*!U+G!-D'7!\$%'!F+##(/V;!\$(, !+G!BAGG+*+'(-#7!* .59'(B\$-', !17!T8OM[!UO'(. .Q\$!<=>c!6%'Q!<=>c!6+(' , \$!<=>VI!!

8B!5'(-. (, !+(!-D'!' '* .55' (, \$+. (B!\$1.4';!B.5'!B*D..#B!\$#%'\$,7!9\$%-(%'!F+-D!'J-'(\$!./\$(+Q\$+. (B!-.!-\$+(!-D'+%B*D..#B!-\$G!.'!'4'(!G\$*#+-\$-'!%B-.%\$-+4'!EAB-+*'!9%\$*-+*'B!U6%'Q!

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!
!

"GG)%*6H!BI>D=/!M#@&&(!F(6, 2-)!<6((!&k!96+@-!S06(!-)H-T!

KD'%!'\$%'!'+/D-!5\$E.%!%/D-B!A-#+' , !+(!-D`!<=>?!M*D. .#!" #+ 5\$-!L+##!.G!N+ /D-B; !\$B!#B- , !1'#. F!
UP\$%*+\$!<=>?;!?akVI!

>I O(#'BB!BAB9'(B+.(!B!% ^A+% ', !A(, '%!*\$- / .%7!>!U\$#B. !
C(. F(!\$B!3, I! " . , 'lq` fe>bU*VV;!(. !B-A, '(-!BD\$##!1'!BAB9'(, , !A(-+#!\$B*D. .#!
, '5.(B-%\$- 'B!-D\$-!+!D\$B!' JD\$AB- , !\$##!\$#-%(\$+4' B!-. !BAB9'(B+. (;!\$B!.A-#+' , !+(!-D`!
[+B*+9#+' (!O\$-%+JI! 8##B-A, '(-B!BD\$##!D\$4'!-D`!%/D-!- !+(!\$(, !.A-!.G!B*D. .#!\$#-%(\$+4' B!-! !
BAB9'(B+. (BI!

<I !L' /+((+(!_ \$##!<=>?;!(!B-A, '(-!BD\$##!1'!BAB9'(, , !. !%
' J9'##' , !G. %!\$!gF+##GA#!, 'G+\$(*'h!U` fe==UCV!.GG'(B'II!

?I !L7!<=<=;!\$B!\$(!\$#-%(\$+4'!-!-%\$, ++. (\$#B*D. .#!, +B*+9#+' (;!\$##!B*D. .#B!
BD\$##!, '4'#. 9!\$(, !+59# '5'(-!%B- .%\$+4'!EAB+*!', 'G+' , !BZ!6%\$*+* 'B!-D\$-!% 'B. #4'!B*D. .#!
, +B*+9#+'(\$7!+(*+, '(-B!17!D\$4+(/!U9'%B. (('#!-%\$+(' , !+(!%B- .%\$+4'!\$99%. \$*D' BV!\$(, !\$##!
9\$%+ 'B!+(4. #4' , !* . 5'!- /'-D`%;!+, '(-G7!-D`!D\$5!-D\$-!F\$B!*\$AB' , ;!\$(, !, '-%5+(!FD. !
F\$B!' 'B9. (B+1#!I!KD'!/%. A9;!/' (%\$##7!-D%. A/D!\$!*+*#*!*. (G'%' (*+(/!9% . *'BB;!-D`(!
, '4'#. 9B!\$BD\$' , !9% . *'BB!G. !%!'9\$+ +(/!D\$5!\$(, !\$, , %'BB+(/!% . -!*\$AB' B!-. !9%'4'(-!GA-A%'!
D\$5!IN' B- .%\$+4'!@AB+*!'F+##!1'!AB' , !B!\$(!+(-'4'(+. (!* . (B+B- '(-F+D!-D`!MW6LHM!
9. #+*7!G. %!\$##!B*D. .#!, +B*+9#+'(\$7!+(*+, '(-B!A(#'BB!\$!%* . 55' (, \$+ . (!G. %!' J9A#B+. (!B!
' ^A+% ', !B!A(, '%!' \$#G. %(\$+!3, A*\$+ . (!" . , !M' *+ . (! fe>bi!L' /+((+(!<=>B!\$(, !'4' %7!
7' \$!-D`%' \$G- '%;!-D`!, +B-%+*!BD\$##!9%. 4+, ' !-%\$+ +(/!- . !B*D. .#B+ 'B!+, '(-G+ , !17!-D`!
MA9' %+(-' (, '(-!1\$B' , !. (!BAB9'(B+. (!, \$-\$+(!%B- .%\$+4'!EAB+*!'B!, 'G+' , !\$1. 4'!F+D+(!k=!
, \$7B! .GZ!

SI _+(, +(!-D\$-!\$(7!B*D. .#!D\$B!5 .%'!-D\$(!>b o !.G!\$9\$%+*A#\$!BA1 /% .A9! .%!>= o !.G!
.4' %\$##B-A, '(-B;!BAB9'(, , ;! .%!>= o !.G!\$9\$%+*A#\$!BA1 /% .A9! .%!>= o !.G! .4' %\$##!
B-A, '(-B;!\$%%'B- , !. %! /+4' (!*+-\$+. (B; !G. 5!-D`!9%+ .%B*D. .#!7' %\$!MA*D!G+(, +(!BD\$##!
1'!5\$, '!*\$D!) *-. 1' %!1\$B' , !. (!, \$-\$!* .##' *-, !G. 5!-D`!9%+ .%17' \$!\$!!

II MA*D!-%\$+ +(!BD\$##!' (BA%'!-D\$-!\$(7!B-A, '(-!FD. !% ^A' B-B!-D+B!\$B!\$(!\$#-%(\$+4'!-! !
1'!A-+##Q' , !+(!-D`!B*D. .#!BD\$##!D\$4'!-D`!%/D-!- !D\$4'!%B- .%\$+4'!EAB+*!'A-+##Q' , !-! !
\$, , %'BB!-D`!D\$5!-!-D`!B*D. .#!* . 55A(+7!\$\$(, !%'+(- /%\$- '!-D`!B-A, '(-I!!

^I !34' %7!B-A, '(-!\$(, !9\$%'(-!BD\$##!D\$4'!%+ /D-!- !. 1-\$+(!-D`!G. ##. F+(/!\$ /% /% /\$- '!, \$-\$!
. (!, +B*+9#+' (!+(!-D`! [+B-%+*-. (!!\$5 . (-D#7!1\$B+B!AB+(/!F' 1B+ '9A1#B+D+(/!17!B' %4+*!' \$' \$'
* '(-%BZ!!

SI H(!\$(, !) A-a. GaB*D. .#!BAB9'(B+. (;!+(4. #A(-\$%7!-%\$(BG'%;! .99. %-A(+7!-%\$(BG'%;!
' J9A#B+. (;!*+-\$+. (;!9. #+*!' * . 59#\$(+(-B;!\$%%'B-B!\$(, !B*D. .#1\$B' , !%\$' B-!, \$-\$!G. %!-D`!
B*D. .#aB+-'! .%!-D`! [+B-%+*!G. %!-D`%'!5 . (-DB!- !. \$7' \$!9% ' * , +(!-D`!' ^A' B-!\$(, !-D`!
(A51' %! .G!+(B-%A*+ . (\$#!, \$7B!\$(, !\$5 .A(-! .G!84' %\$ /' ! [\$+7!8--' (, \$(*!GA(, +(!
. B-!- !BAB9'(B+. (;!-%\$(BG'%;!' J9A#B+. (!\$(, !%\$%'B-I!

II MA*D!, \$-\$!BD\$##!1'!, +B\$//%' /\$- , !17!\$##!BA1 /% .A9B;!+(*#A, +(/!\$*%' ;!-D(+*+7; !3TT!
B-\$-AB;!, +B\$1#+-7!\$(, !/' (, '%!U+(*#A, '!# /##!, 'G+(+ . (!G! /' (, '%V; !17!B. *+ . a
' * . (5+*B-\$-AB!\$(, !17! .GG'(B'; !1A-!BD\$##!1'!9%. 4+, ' , !+(!F\$7!- !5\$+(-\$+(!-D`!
9%+4\$*7! .G!+(, +4+, A#\$B-A, '(-BI!

SI 8##B-A, '(-B!BD\$##!D\$4'!-D`!%/D-!- !M*D. .#aW+, '!6. B+4'!L'D\$4+. %H(-'4'(+. (B!
\$(, !MA99. %-B!UMW6LHMV!-D\$-!' , A*!'BAB9'(B+. (B;!+(*%'B'!\$--' (, \$(*! ;!+59%. 4'!
- 'B-B* . %' B!\$(, !D\$B!1A7!+(!\$(, !BA99. %-!G. 5!\$##!B*D. .#!9' %B. (('#I!

!

1I 8##!B-A, ' (-B!\$(, !9\$%' (-B!D\$4 '!-D' !%/D-!-. !G+#' !G. % 5 \$#!* . 59#\$+(-B!+G!MW6LHM!+B!(-. -!
+59#' 5 ' (-', !+(!k=!, \$7B!.G!B-A, ' (-YB!' ^A 'B-!. (!*\$ 59ABI!8!G+(, +(/!.G!-D' !G\$#A% '!

!

. (-\$(!%+- '%+\$!-. !9%. 9'%#7!, +B+(/A+BD!\$, 5+(+B-%\$-+4'!'B9. (B'B!-. !B-A, '(-!
.(, A-!9A%BA\$(-!-. !B*D. .#!, +B-%+*-!9. #+*+'B!\$(, !B-\$- '!#\$F;!G%. 5!*%+5+(\$#!
% 'B9. (B'BI!!

\$I K.!' (BA%'!-D\$-!B-A, '(-B!\$(, !9\$%' (-B!A(, '%B-\$(\$, !D\$4'!(. -+* '! .G!-D'+%! 'J+B+(/!
%+/D-!9A%BA\$(-!-. !BAB9' (B+. (!9. #+*7!UL OTa?f>e;!9/I!>`V!\$(, !B-\$- '!\$(, !G', '%\$#!#\$F;!
- .!\$99'\$#!-D'+%!BAB9' (B+. (B;!FD' (!BAB9' (B+. (!(. -+G+*\$-+. (B!\$%'!+BBA', !- .!
9\$%' (-Bn/A\$%, +\$(B;!-D+B!(. -+G+*\$-+. (!F+##!+(*#A, '!*#' \$%!+(G. % 5 \$-+. (! (-D'!B- '9B!\$(, !
+5 '#+('!- . !+(+-\$- '! \$!BAB9' (B+. (!99'\$#!!!

fI

!8##!B-A, '(-B!D\$4'!-D' !%/D-!- . !D. #+B-+*;!D'\$#-D7!
B*D. .#!' (4+% . (5' (-B!-D\$-!BA99. %-!B-A, '(-B!+(!\$##!\$B9' *-B!. G!-D'+%!D'\$#-D!\$(, !F' ##a1'+(/I!
KD'!MA9' %+(-' (, '(-!BD\$##!F. %C!F+-D!* . 5 5 A(+7;!1AB+('BB;!\$(, !9D+#\$(-D%. 9+*!9\$%-('%B!- .!
'(BA%'!B*D. .#B!D\$4'!\$***'BB!- . !GA##!B'%4+* '!* . 5 5 A(+7!B*D. .#BI!

!

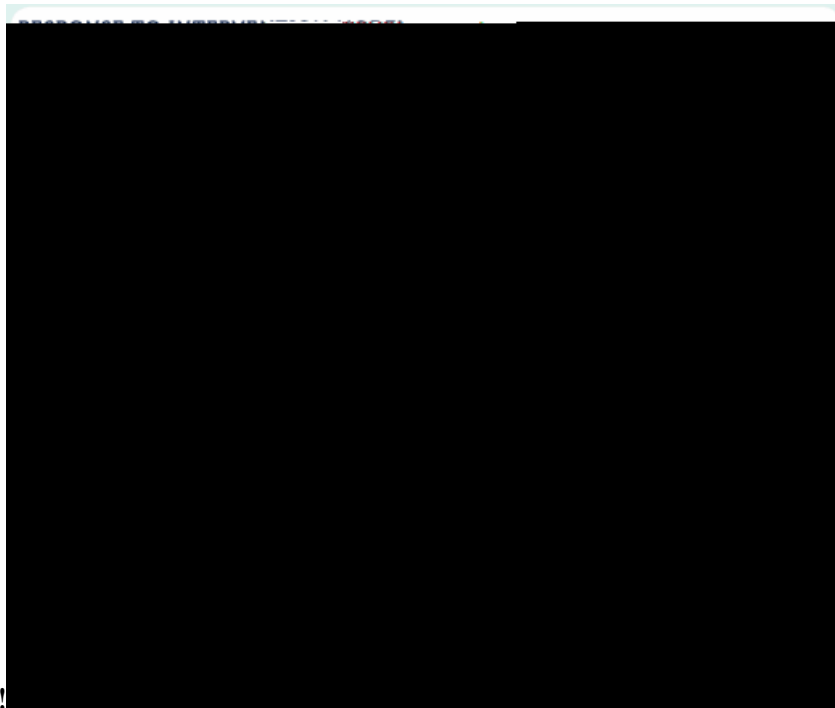
!

!

"GG)%*6H!UI! ? 5(-6VW6)1!9).-&12-6:!)E12#-6#).!S9).G&%.)!-&!4%-)1:)%-6&%T!!

!

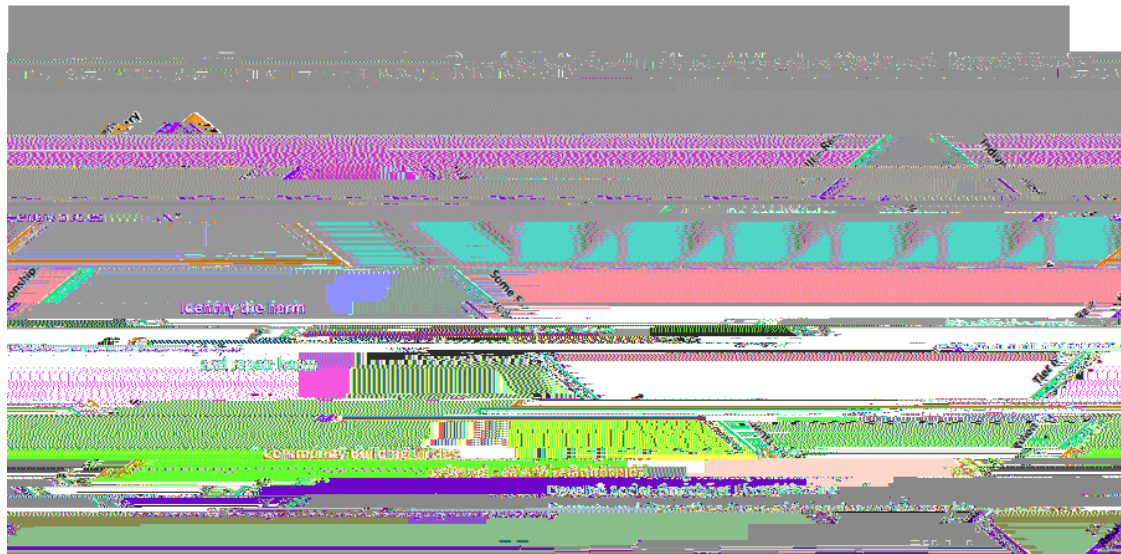
OA#+a+'%!'B-.%\$-+4'!9%\$*-*'B!\$%'!AB',!-!+59# '5'(-!FD.#'aB*D..#!'B-.%\$-+4'!EAB+*'!4\$#A'B;!\$B!
.99.B',!-!-D\$(!B+(/#!'+%'!B-.%\$-+4'!EAB+*'!FD+*D!G.*AB'B!B.#'#7!.(!g%'\$*+.((\$%7h!N@!9%\$*-*'B!
AB',!(.#7!G.%!(,+4+,A\$#!+(B-\$(*'B!.G!D\$%5!UB''!899'(+,J!8!G.%!5.%'!(G.%5\$+.(!(!'B-.%\$-+4'!
9%\$*-*'BVI!K+'%!>!-D%.A/D?!\$%!', 'B*%+1',!1'#.FIM.5'!9%'G'!-!'B''!-D+B!FD.#'aB*D..#!NKHnN@!
5.,!#\$B!*.(*'(-%+!*+*%#B;!FD+#'!. -D'%B!4+'F!+!\$B!\$!-+%\$(/#!!.%!97%\$5+,!+!'%I!!



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'\$!

_____!

!"O#77#,!#5!.0!JKJK!

!"FBI@G!JK;h!

!

<60(6&+12G@C''%k

8 A/AB+(' ;! " \$-D'%+('!dI;!@.D(!3(/1'%/;!P'.GG%'7!3I!P%+5 5;!3 5 5 \$!T'';!3#\$+('!T+(!W\$(/;!&\$%' (!
"D%+B-+\$ (B. (;!\$(, !8 (, % '\$!8I!@.B'9DI!g" \$(!N'B-. %\$-+4 '!6%\$*-+*'B!H59%.4 '!M*D. .#! "#5\$-'!\$(, !
"A%1!MAB9' (B+. (BuZ!8 (!34\$#A\$-+. (!.G!-D'!H59\$*-!.G!N'B-. %\$-+4 '!6%\$*-+*'B!(! \$!O+, aM+Q', !0%1\$(!
M*D. .#! [+B-%+*-,h! ['* ' 5 1 '%!<.:;!<=>fI!

!

8**'BB',!M'9-'51'?!?=>!<=<=I!D--9Zm#B*D..#%'9.-%-I*.5n\$Ba#\$aA(+G+',aBD+G-Ba<b5a\$F\$7aG. %a+-Ba
9.#+*'a1A./'-a+-aBD.A#,a\$#B.a5\$C'aBA%'a+-Ba%'B-.%\$-+4'aEAB-+*'a9%./%\$5a+BaB.A(,nI!

!

"8[N3I!d.F!"\$(!\.A!T.4'!-D'!&+,B!1A-!d\$-'!-D'!6\$%'(-Bu!8!BD\$, .F!'9.-%-!.(!-D'!A(GA#G+##',!!
!9%.5+B'B!.G!T8OM[!B*D..#!,+B*+9#+'!'G.%5!+(!M.A-D!T8I!<=>:I!!

!

"\$5\$;!6\$A#!PI!

I!

I!6%.zA'B-!TT";!<=>eI!

k>!

!

!!!!!!! U<=>:VZ!<b?

!

T'A(/;!O\$7I!gKD'!) %+/+(B!.G!N'B-.%\$-+4'!@AB-+';h!>eeel!

T+1'%5\$(;!8C+4\$I;!2!O+*D\$'#!&\$-QI!

W\$BD+(/-.(!["Z!O%1\$(!H(B+-A-'I!

!

B^A\$,!*%\$Z!M*D. .#!, +B*+9#+(' ;!-%A\$(*7;!\$(, !)\$%% 'B-Ih! ;!` ?;!
(.I! : ;!U<=> `VZ!>>>={>><<I!D--9Zm, JI, . .I. % /n>=I>=== :nB>=ek` a=> `a=>=?a>!

!

OA%%\$7;!@A#+\$!gT 8 0M [!6#\$(B!K. !d+% '!" #+ 5 \$- '!" . \$*D' B!H(B- '\$,!) G!" . 9BI!WDS-!W+##!KDS-!T. . C!!
! T+C'uh!M. A-D'%'(! "\$#G. % (+\$!6A1#*!N\$, +. ;!_ ' 1%A\$%7!<?;!<=>I!!
! D--9BZm F F FIB*9I. % /n9%. /%\$ 5 Bn\$+%-\$#Cn<=<n=<n<?nkkb<` n#\$AB, a9#\$ (Ba-. aD+% '!'
! a*#+ 5 \$- 'a* . \$*D' Ba+(B- '\$, a. Ga* . 9nI!

!

] I 8I!<=>ba<=>k!" +4#!N+/D-B! [\$-\$!" .## *+ . (Z!M*D. .#! " #+ 5 \$- '!\$(, !M\$G' -7I! OIMI!
!!!!!!! ['9\$%- 5 '(-! .G!3 , A*\$+ . (!) GG+* '!G. %!" +4#!N+/D-BI!<=>eI!
!!!!!!! D--9BZm F F F<' , I/ . 4n\$1 . A-n . GG+* 'Bn#B-n . *%n . . *BnB*D. . #a*#+ 5 \$- 'a\$(, aB\$G' -7I9 , G!
!
] I 8I!L%' \$C+(/-D'!M*D. . #a- . a6%+B. (!6+9'#+('!G. %!M-A, ' (-B!F+-D! [+B\$1#++'BI] \$+ . (\$#!
!!!!!!! " .A(*+#!. (! [+B\$1#+-7I!<=>bI!D--9BZm(* , I/ . 4n9A1#*\$+ . (Bn<=>bn=k>f<=>bn!

!

] . /A' %\$;!6' , % !8I!6%' 4' (+(/!\$(, !9% . , A*+(/!4+ . #' (*'Z!8!*%+*+\$!\$(\$7B+B! . G!%' B9. (B' B!- !B*D. . #!!
!! 4+ . #' (*' !kb;(! . I!<!U>eebVZ!>fea<<I!!

!

) C#F\$;!] \$-D' % (!MI;! OAD\$ 5 5 \$, !8I!&D\$#G\$;!\$(, !_ '#*+ \$!L%+B* . 'I!
!!L+(/# '7;! 0&Z!3 5 '%\$# , !6A1#BD+(/!

T+5+- ' , I!<=> :I!

!

) F' (B;!3I!KD'!3* . (. 5+*B! . G!6 . #+*(/!U_ . % -D* . 5+(/!+(-D'!
!!!!!!! ' , +-' , !17! [\$4'!O\$%* . --!\$(, !&#\$AB!m+ 5 5 '% 5 \$(VI!(I, I!
!!!!!!! D--9BZmG\$*A#-7IB+- 'BIA*+I' , An' / . F' (BnG+#' Bn<=<n=kn3* . (. 5+*Ba . Ga6 . #+*(/kk<=<=I9 , G!
!
6\$%-('%BD+9I! !6\$%-('%BD+9!G. %!T . B!!
! 8 (/ '#B!M*D. . #BI!<=<I! 8** 'BB' , !_ ' 1%A\$%7!< ;!<=<I!!
!! D--9BZm9\$%-('%BD+9#\$I. % /n%' B . A*%' Bn9 . #+*7a1%+' GBnF . %-D

!

M*D+GG;!O\$%\$! [+/ (+-7;! ,+B9\$%+-7!\$(,!, 'B+B-\$(*'Z!3GG'*+4'!'B-.%\$+4'!EAB+*'!B-%\$- /+'B!- .!9#A/!-D'!!
!! gB*D. .#a-.a9%+B. (I9+9'#+('Ih!6\$9'%!9%'B' (- ,!\$!-D'!"#.B+(/!-D'!M*D. .#! [+B*+9#+('!'P\$9Z!
!!! N'B'\$%*D!- .!6%\$*+*'!* . (G'% ' (*';!W\$BD+(/- . (;! ["I!<=>?I!

!

MC+1\$;!NI;!OI!8%% ' , (, . ;!] I!W+##+\$ 5 BI!gO . %!'KD\$(!8!O'-\$9D.%Z!KD'!* . (-%+1A+ . (!.G!
!!!!!!! 'J*#AB+ . (\$%7! ,+B*+9#+('!'!B*D. .#a-.a9%+B. (I9+9'#+('Ih!
`:(.I!`!U<=>`VZ!b`kabk`I!D--9BZm, .+I.%/n>=I>=f=n>=kkbkf`I<=>`lebfekb!

!

M-%\$(/;!d '\$-D'%'!-I!\$#!gN'B-.%\$+4'!EAB+*'!* . (G'% ' (*(/!UN@ "V!AB+(/!G\$*'a-.aG\$*'!5' '-(/B! .G!
!!!!!!! .GG' (, '%B!\$(,!4*+ 5 BZ!'GG'*-B! . (!.GG' (, '%!' *+, +4+B 5!\$(,!4*+ 5!B\$-BG\$*+ . (Ih!<=>?I!
D--9BZm*\$ 5 91'##\$.##\$1 .%\$+ . (I.%/n1'--'a'4+ , ' (*'n'B-.%\$+4'aEAB+*'a* . (G'% ' (*(/a%'*+, +4+B 5 a
4*+ 5 aB\$-BG\$*+ . (ID-5#!

!

M-'%(;!8#'J+B!\$(,!'D%+B!N. / '%BI!

!<=>eI!

!!!!!!! D--9BZmG+#'BI'%'*I' ,I/ .4nGA##-'J-n3 [beffe:I9,G!

!

M#\$/-'%;!T\$A%' (I!g \ .A(/!"++Q' (!K%\$(BG.% 5 B!M*D. .#!"A#-A%'!-D. A/D!N'B-.%\$+4'!@AB+*'Ih!O#4';!!
! O\$7!<:;!<=>kI!D--9BZmF F FI 5 #+4'I* . 5n(' FBn\$((a!
!!! \$%1 . %n<=>kn=bn7 . A(/y*++Q' (y-%\$(BG.% 5 ByB*D. .ID-5#I!!

!

M'% ' ,; [\$(+'##'!I!g_-B-'%+(/!8** .A(-\$1+#+-7!8 5 . (/! \ .A(/!8 ,A#-BIh!] I,I!8**'BB' ,!] .4' 5 1'%;;!<=>=I!
D--9BZmF F FIDCBIDS%4\$,I' ,An*' (-'%BnF+' ('%n9% . /%\$ 5 Bn*%+ 5 +(\$#EAB+*'n%'B'\$%*Da
9A1#+'\$+ . (Bn7 .A(/a\$,A#-aEAB+*'n , '4'#.9 5' (-Ba+(a7 .A(/a\$,A#-aEAB+*'nG .B-'%+(/a\$** .A(-\$1+#+-7a
\$ 5 . (/a7 .A(/a\$,A#-BI!

!

M'% ' ,; [\$(+'##'!I!g 8** .A(+(/!G.%! i +.#' (*'Z!d . F!- .!H(*%'\$B'!M\$G' -7!\$(,!L%'\$C!)A!_#+' ,!!
!!! N'#+\$(*'!. (!O\$BB!H(*\$*%'\$+ . (Ih!8** .A(+(/!G.%! i +.#' (*';!(I,I;!?fi!

!

!

U<=>:VZ!>`bI!

!!!!!!! D--9BZnnFFFI(*E%BI/.4n9.GG+#'B>n.EE.9n/%\$(-Bn<b=f:<I9.G!

!

gK%+1\$#!P.4'%'(5'(-Bih!T.B!8(/'#'B!"+-7n".A(-7!] \$-+4'!85'%'*\$(!H(+,\$(!".55+BB+. (I!]I,I!!

!! 8**'BB',!_'1%A\$%7!.;!<=<>I!D--9BZnn#\$(\$+*I#*\$*.A(-7I/.4n%'B.A%*'Bn-%+1\$a/.4'%'(5'(-BnI!

! ! ! ! !

W\$#C'%;!T.%'((Ig8#1'%-!3/#\$BD!2!-D'!d+B-.%7!.G!N'B-.%\$-+4'!@AB+*!'17!N'B-.%\$-+4'!@AB+*!'2!) -D'#!

6A1#+*!d'\$#-D!899%. \$*D'B!G.%!d'\$#+(/Ih!]I,I!8**'BB',!) *- .1'%'>`;!<=<=I!

D--9ZnnFFFI#.%'((F\$#C'%'I*.5n1#./nu9€>>:I!

!

]I\$!gL#\$*C!P+%#B!O\$--'%Z!6ABD',!.A-;!.4'%9.#+*',;!\$(,!A(,%9%.-'*-',Ih!<=>bI!8**'BB',!] .4'51'%'!>;!

<=<=I!D--9B68m280.9417597.106810.2(B)-0.2(B)0.2(+)/9€>>:

!

O+%BC7;!T\$A\$!gN'B-.%\$+4'!@AB+*!'6%\$*+*'B!.G!]\$-+4'!85'%+*\$(!;_+%B-!]\$+.(!\$(,!)-D'%!H(,+/'(.AB!
6'.9#'.!G!]%.D!85'%+*\$Z!6\$%-!)(';h!<==`;!;!I!

!

N.1'%-;!"\$-D'%+(!'\$(,!)\$-D'\$(!M!8I!)C#F\$!g8!N'4+'F!.G!T.B!8(/'#'B!0(+G+',![\$-\$!_##.F+(/!!
!-D'!) "N!".59#+\$(*!'H(4'B+/\$+.(I!3,A*\$+-(!\$(,!O%1\$(!M.*+'-7;!==;(!.I!:=;!U<=>fVZ!!
!>a<?I!

N.5'%.;!3B5'%\$#,!\$_\$1R(I!g]'F!6#\$(!G.%!T8!M*D..#B!"##B!G.%!N'.%/\$(+Q\$+-(!\$(.A(,!".55A(++'B!
\$(,!359.F'%B!6%+(+*9\$#B!-.!O\$C'!T8OM[!\$!T'BB!w".59#'J!M7B-'5IYh!O\$7!
<e;!<=>e!8**'BB',!_'1%A\$%7!;;!<=>I!D--9Zm#B*D..#%'9.%-I*.5n('Fa9\$\$(aG.%a#SaB*D..#Ba*##Ba
G.%a%'.%/\$(+Q\$+.(a\$\$.A(,a*.55A(++'Ba\$(,a'59.F'%Ba9%+(+*9\$#Ba-.a5\$C'a#SaB,aSa#'BBA
*.59#'JaB7B-'5nI!

O.%%B.(;!L%'(\$!3I!gN'/A#\$+(/!M\$G'!M*D..#!"'.55A(++'BZ!L'+(/!N'B9.(B+4'!\$(,!N'B-.%\$+4'Ih!
<==?I!8**'BB',!M'9-'51'%!<e;!<=>I!D--9BZm,.,I.%/n>=I>>=fn=eb:f<?=?>=b=`kk>I!

051%'++;!O\$%C!\$(,!O\$%#7(!6'-'B.(!8%5.A%I!
I!M9%+(/'%!6A1#BD+(/!"'.59\$(7;!<=>=I!

6\$%(-B!)%/\$(+Q\$+-(!]'-F.%C!gN'5.4+(/!L\$%+%BZ![+B%A9+4'!6'B.(!T'--'B!2!".(G#*+!
N'B.#A+.(Ih!<=>I!8**'BB',!O\$%*D!<=>I!D--9BZmFFFI9\$%(-('F.%Ca#S!.%/n%'5.4+(/a
1\$%+%Ba>I!

"3NNI!gN'B'\$%*D!0(+!n!T8OM[!N'B'\$%*D!6%+(+*9#Bih!]I,I!8**'BB',!M'9-'51'%!e;!<=>I!
D--9BZm\$*D+'4'I#SaB,I('n6\$/n>be`>I!

6\$4'#C\$;!M!gN'B-.%\$+4'!@AB+*!'!+(!-D'!M-\$-BZ!8(!8(\$#7B+B!.G!M-\$-A-.%7!T'/+B#\$+-(!\$(,!6.#*7Ih!
<!(.I!>?!U<=>kVZ!>a<?I!8**'BB',!]'.4'51'%!e;!<=>I!
D--9BZmFFFI(\$%EI.%/n+5\$/Bn9,GnN'B-.%\$+4'y@AB+*'y+(y-D'yM-\$-Ba
8(y8(\$#7B+By.GyM-\$-A-.%7yT'/+B#\$+.(y\$(,y6.#+*7y<I9,G!

i\$(!)'BB;[\$(+#!W!I!\$(,!&\$%('!d'-'-%CB!M-%.(/!
K\$7#.%!2!_%\$(+BI!<=>BI!8**'BB',!)*)-.'1%!>`;!<=>I!
D--9BZmFFFI*+'(*'+%*-I*.5n1..Cne:f>`bb:??efn%B-.%+(/aEAB+*'•1..Ca,'B*%+9+.(I!

i.;!KD7I!gMAB9'(B+.(B!6#A55'-!W+-D!)'F![+B*+9#+'!6.#+*7!+(!M\$(-\$!8(\$!M*D..#Bih!i.+'!G!!
!)";!['* '51'%!f;!<=>I!!
D--9BZm4.*'.G.*I.%/n<=>kn=n('Fa\$99%.\$*Da-.a,+B*+9#+'a+(aB\$(-\$a\$(SaB*D..#B!
!a#'\$,Ba-.a1+/a,%9a+(aBAB9'(B+.(BnI!
!i+-\$#;!8#'JI! I!MI#IZ!i3NM);!<=>:I!

W\$BD1A%(![\$4+,;\$\$(,![\$(+#!@!W!##BI!gKD'!N+B'!.G!N'B-.%\$+4'!@AB+*!'!+(!"#\$+G.%(\$!M*D..#B!L%+(/B!!!
6%.5+B'!;"(-.4'%B7Ih!;!O\$7!>?;!<=>f!8**'BB',!M'9-'51'%!?!<=>I!
D--9BZm',B.A*%I.%/n<=>fn-D'a+B'a.Ga%B-.%\$+4'aEAB+*'a+(a*\$#G.%(\$aB*D..#Ba1%+(/Ba9%.5+B'a
*.(-.4'%B7nbe:?!e?I!

!

!
W'11'%;!&\$%'(!3I;!@'((+G'!&+5!\$(,!35+#7!_\$. (I!gL\$#+5. %'!'"+-7!6A1#+*!M*D. .#B!N'B-. %\$-+4'!
6%\$*-+*'B!N'9. %-Ih!<=<=I!D--9BZnnFFFI. B+1\$#+5. %'I. %/nF9a*. (-'(-nA9#. \$, BnN6a9#\$(a\$(, a
\$99'(+Ja H] 8Tai 3NMH)]I9,GI!

!
W'11'%;!&\$%'(!3I;!@'((+G'!&+5!\$(,!35+#7!_\$. (I!gN'B-. %\$-+4'!6%\$*-+*'B!+(!L\$#+5. %'!'"+-7!M*D. .#BZ!
N'B'\$%*D!A9, \$-'B!\$(, !+59#'5'(-\$-+. (!/A+, 'Ih!<=<=I!D--9BZnnFFFI. B+1\$#+5. %'I. %/nF9a
*. (-'(-nA9#. \$, Bn<=<=n=enN6aN'9. %-a<=<=a H] 8TI9,GI!

!
gWD'%'!W'!W. %C! j