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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-'5I!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-+/\$- ',!T8 OM [ YB!9. #+\*+'B!\$1 .A-!

% 'B-. %\$-+4' !EAB-+\*';!B9' \*+G+\*\$##7!-D' !<=>? !M\*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!T8 OM [ YB!'B-. %\$-+4' !EAB-+\*'!

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

, '- ' %5+( ' !D. F!T8 OM [ !\*\$(!+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-%+\*-'!5 AB-!

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

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8, , +. (\$##7;+(-'4+'FB!F+-D!'J9'%-B;!B7B-'5a+59\$\*-',!7.A(/19'.9#';!,+B-%+\*-!9.#+\*75\$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-'5I!\_+(\$##7;!--D+B!B-A,7!9%'B' (-B!\$(!\$/A5' (-!G.%!-D'!\$, \$9-\$+.(!  
 .G!\$!\* . 5 9%'D' (B+4'!B'-.!G!'\* . 5 5 '( , \$+.(B!' / \$%, + (/ (' F!, +% '\*-+. (B!T8 OM [ !BD.A#, !9A%BA'!+(!  
 .%, '%!- .!+59%.4'!A9. (!-D'!<=>?!M\*D. .#"#5 \$- '!L+##!.G!N+/D-B!\$(,!+B!BA1B'^A' (-!+59# '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#+'!' (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 3 7 5 -7!-.!9%6!41.1.2 (B) -(, ;Tm/TT41Tf( ) T j ETQq0.24000.2418.1417



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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' !0 (+-' ,!  
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+%' BI!H( , +/ ' ( . AB!B\*D . # \$% ! " \$% . # ! 8 I! 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' !0 (+-' , !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 /# \$BD!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 /# \$BD!+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# '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 !UP\$%\*+!<=>?;!?!VI!

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[ +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. (!'-!\$#!<=>: 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-%+\*-'!  
\$(, !



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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

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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,IVI!d . F '4'!FD' (!9#\$(( ' ,;!+5 9#' 5 '(-',!\$(,!





!

% 'B-.%\$+4'!9%. \* 'BB'B;\$ ( , !FD\$-!\* .A#, !1'!, . ( '!-!+5 9%.4 '!T8 OM [ 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 OM [ !' 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!\$(,!

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

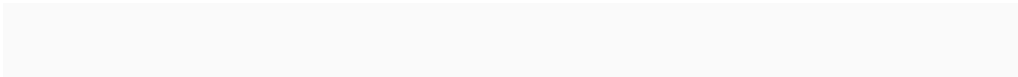
\$(,! 'J9'%-+B'I! [ 'B9+-'!'-D'B'!\*D\$##'(/'B!\$(,!#5+-\$+. (B;!--D+B!B-A,7!B-##!\$\*D+'4',!+B!/. \$#!.G!

\*%'\$+(/!\$!\* .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!!



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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. .#!, .!(.-!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-%+\*-'!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!T8 OM [ YB!'B-.%\$-+4'!9\$\*+\*'B!UTAB+\*C!<=> ;! ?=eVI!!

H!B-\$%-', !- .!( .-+\*'!\$!5 \$E. %!/\$9!+(!-D'!+59# '5' (-\$-+. (!.G!'B-.%\$-+4'!EAB+\*'!\$-!-D'! !  
! rT8 OM [ 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\$-!

T8 OM [ 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' '(G\$+#', !- .!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+. (', !H(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'B!-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 5 A(+7!+'B!gD\$4'!\$!B7B-' 5 +\*!\$( ,!BAB-\$+( ' ,!

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

' 5 9#.7' 'B!\$-!\* . 5 5 A(+7!1\$B' ,!./\$(+Q\$+.(B!\$( ,!-D'!-%AB-' ,!\* . 5 5 A(+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.%!8 , ,+,. (\$##7;!+!+B!%' . 5 5 '( , ,!-D\$-!'B-.%\$-+4'!9%\$\*+\* 'B!1'!

B+/(+G+\*\$( -#7!'J9\$( , ,!+(-!D'!'A%+\*A#A5!.G!T8 OM [ 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. .#I!3\*\$D'!.G!-D'B'!'\* . 5 5 '( , \$+.(B!\$%'!'J9#\$+( ' ,!+(!

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

!

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! 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\$-!+5 9#' 5' (+(/!\$( ,!BAB-\$+(+(/!N@!+(!B\*D. .#B!\*\$(!1'!B'4'%' #7!D+( , '%', !17!\$!

#\$\*C!.G!g1A7a+(h!#\$\*C!.G!F+##+( /('BB!-.!+5 9#' 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'!-\$#!<=>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!T8 OM [!

BD.A#,!\* . 5 5 +!-.!FD.#' aB\*D. .#!5 . , #B! .G!N@!+5 9#' 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 \$( -#+ (/!W' !-\$#C!\$1 . A-!-' \$%+ (/!

, . F (!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+\* 'I!N@\$ ,4+B .%B! 5 AB-!/. !G\$%!1 '7. (, !EAB-\$, ,% 'BB+( /!+( \*+, ' (\* 'B!\$B!-D' 7!\* . 5 ' !A9!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!B!-D\$-! /% \$, A\$- ' , ;!-D' 7!F' %' !S1#' !-! ., .!B 5 \$##! /% .A9!  
! \* . 5 5 A(+7!1A+#, +(/!\*+\*# 'B!F+-D!-D' !D .9' !- .!1' !S1#' !- .!D\$4' !-D' 5 !/ .!+(- .!\$ ,4+B .%7!\$(, !!  
! \* .aG\$\*+#+-\$- ' !\* . 5 5 A(+7!1A+#, +(/!\*+\*# 'B!F+-D!-D' !S, 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' %+. ,; !\$(, !S\$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#, !S\$\*-!\$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-\$(,!FDS-!+B!N@!\$(,!FDS-!! ! \$%'!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! !

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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!\* . 5 9.( '(-!+(!!\$!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(++'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\$%/ '!



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

+(!\*D\$%/ '!.G!\$##!-D+(/B!N@!\$-!-D'+%!" . 5 5 A(+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 .-5 D5 #%' \$A(+ '#1+. A#(\$ ) 0 . 2 ( . 2 (\$ ) 0 . 2 (#) 0 % 2 (B) -0 . 2 !17!9(# ) 0 . 2 ( , 7!) ] T



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+(!-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;!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!!

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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 .% ' ;!

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

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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'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# '5B! .%!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'+%9' '%B!5 \$7!1'!  
 'J9'%+' (\*+(/;!5 \$7!D\$4'!BD\$%' ,!#4' ,!'J9'%+' (\*'B!F+D!-D'+%9' '%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'+%9' '%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. %-\$(-!





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\$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'+%9'!'%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%\$\*+\*#'/%.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!

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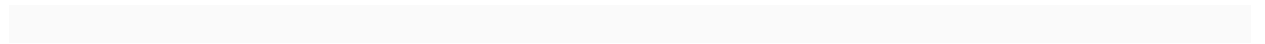
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8!#\$%/'!9\$%-!.G!'B-.%\$-+4'!EAB-+\*!'!\$-!B\*D..#B!5AB-!1'!9%. \$\*-+4'Z!'B-\$1#BD+(/!'J9'\*\$-\$+.(B;!4\$#A'B;!  
 \$(,!D'\$#-D7!5'-D.,B!.G!\*.'55A(+\*\$-+.(B!G%.5!\$(!'\$%#7!\$/!'-!9%'4'(-!+(\*+',(-B!.G!D\$%5!\$(,!-!!

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





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-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!F' \*%-\$+(\*. 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-%+\*!\*\$\$(!

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!&! :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!!

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L'7.(,!,+B\*+9#(';!%'B-.%\$+4'EAB+\*!'\$#B.!+B!\$!(+^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'!'#\$G'!\$(,!

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

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

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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%-.-!

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

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!  
•

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

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

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

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- 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'#=!
-

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

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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(-7I!) ('!%.-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!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'!-!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\*\$+.(!' . , 'IM'\*+.(! 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'\$!IMA\*D!G+(, +(/!BD\$##!  
1'!5\$, '!\*\$D!) \*-.1'%'!1\$B', !.(!, \$-\$!\* .##\*-' , !G%.5!-D`!9%+.%17'\$!%I!

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. .#B!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(+(/!  
#.#-!-!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!UMW6LHM!-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!

!

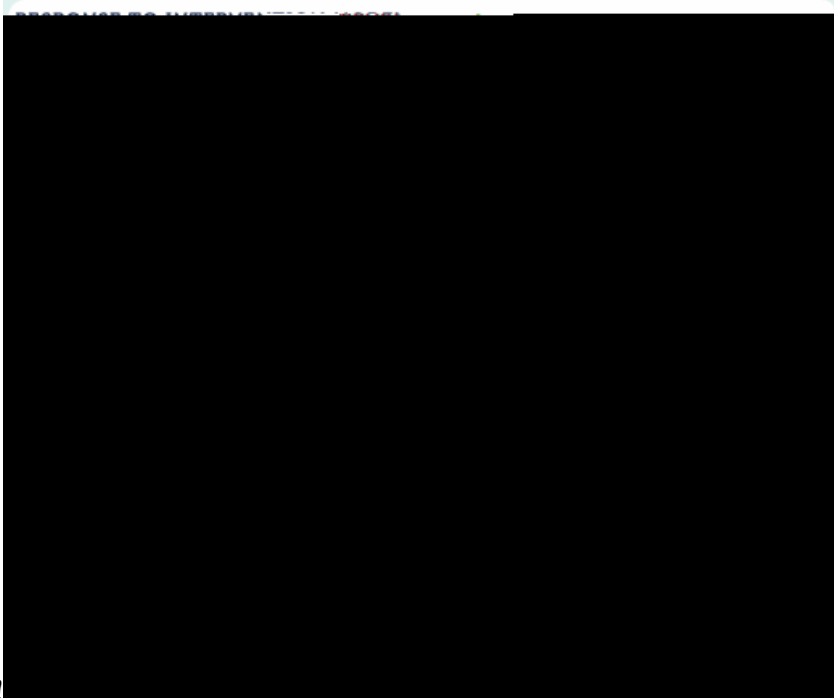
!

!

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

!

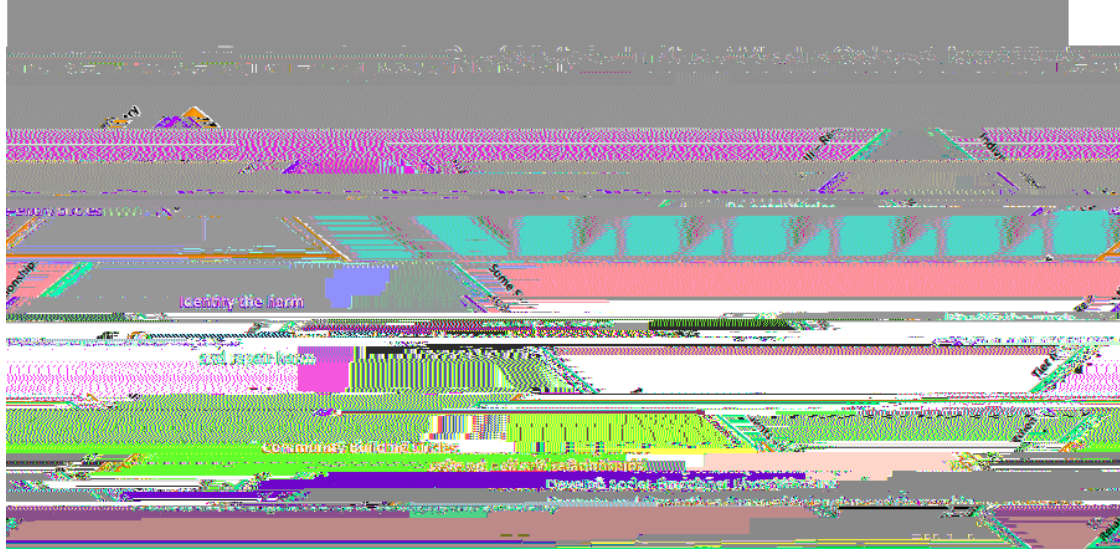
OA#+a+'%!'B-.%\$-+4'!9%\$\*-\*'B!\$%'!AB',!-!+59#'5'(-!FD.#'aB\*D..#!%'B-.%\$-+4'!EAB+\*'!4\$#A'B;!\$B!  
.99.B',!-!-!D\$(!B+(/#!'+%'!%'B-.%\$-+4'!EAB+\*'!FD+\*D!G.\*AB'B!B.#'#7!.(!g%'\$\*+.((\$%7h!N@!9%\$\*-\*'B!  
AB',!(.#7!G.%!(,+4+,A\$#!+(B-\$(\*'B!.G!D\$%5!UB''!899'(+,J!8!G.%!5.%'!(+G.%5\$+.(!(!'B-.%\$-+4'!  
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!!



!!!!!!!!!!!!!!!!!!!!

"#!

!



'\$!

\_\_\_\_\_!

!"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#+\$!gT8 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!

!

] I8I!<=>ba<=>k!" +4+#!N+/D-B! [ \$-\$!" .## \*+ . (Z!M\*D. .#! " #+5 \$-'!\$( , !M\$G' -7I! 0IMI!  
!!!!!!! [ '9\$%-5 '(-! .G!3 ,A\*\$+ . (!) GG+\*'!G. %!" +4+#!N+/D-BI!<=>eI!  
!!!!!!! D--9BZm F F F<I' ,I/ . 4n\$1 . A-n . GG+\*' Bn#B-n . \*%n . . \*BnB\*D. . #a\*#+5 \$-'a\$( , aB\$G' -7I9, G!

!

] I8I!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!  
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+##+\$5BI!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--9BZnm, .+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--9BZnm\*\$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--9BZnmG+#'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--9BZnmF 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--9BZnmF F FIDCBIDS%4\$,I',An\*'(-'%BnF+'('n9%./%\$5 Bn\*%+5+(\$#EAB+\*'n%'B'\$%\*Da  
9A1#+'\$+.(Bn7.A(/a\$,A#-aEAB+\*'n, '4'#.95'(-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!

O51%'++;!O\$%C!\$(,!O\$%#7(!6-'%B.(!8%5.A%I!  
I!M9%+(/'%!6A1#BD+(/!"'.59\$(7;!<=>=I!

6\$%(-B!)%/\$(+Q\$+-(!]'-F.%CI!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#SI.%/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,GI!

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+;,\$\$(,![\$(+#!@I!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.%(+SaB\*D..#Ba1%+(/Ba9%.5+B'a  
\*.(-.4'%B7nbe:?!e?!I!

!

!
W'11'%;!&\$%'(!3I;!@'((+G'!&+5!\$(,!35+#7!\_ \$J.(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]8Tai3NMH) ]I9,GI!

!
W'11'%;!&\$%'(!3I;!@'((+G'!&+5!\$(,!35+#7!\_ \$J.(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