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

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"#$%&'!()*$&+,#%-#.!($%!(-'##.!/0(/!)&12,3($)#!+3/0!/03.!.45.#)/3&$!3$!3/.!#$/3'#/6!7&'!/0#!/#'1!&7!($6!'#.4,/3$-!)&$/'()/!($%!($6!'#$#+(,.!3.!(!1(/#'3(,!'#843'#1#$/!($%!)&$%3/3&$!&7!/0#!)&$/'()/9!!:6!#;#)4/3$-!/0#!)&$/'()/!"#$%&'!)#'/373#.!)&12,3($)#!+3/0!03.!.45.#)/3&$!3$!3/.!#$/3'#/6<!($%!3.!4$%#'!(!)&$/3$43$-!&5,3-(/3&$!/&!'#1(3$!3$!)&12,3($)#!($%!'#2&'/!($6!$&$=)&12,3($)#9!

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>03.!.45.#)/3&$<!3$!3/.!#$/3'#/6<!(,.&!(22,3#.!/&!.45)&$/'()/&'.!4.#%!&$!/03.!)&$/'()/9!!"#$%&'!.0(,,!3$),4%#!/0#.#!?/($%('%!@#'/373)(/3&$.!3$!($6!.45)&$/'()/!4.#%!3$!/0#!2#'7&'1($)#!&7!/0#!)&$/'()/!4.3$-!/0#!?/($%('%!?45)&$/'()/&'!@#'/373)(/3&$!7&'1!2'&A3%#%!56!/0#!?/(/#9!

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D9Z9! "#$%&'!)#'/373#.!3/!0(.!$#3/0#'!5##$!)&$A3)/#%!&7!5'353$-!&'!(//#12/3$-!/&!5'35#!($!&773)#'!&'!#12,&6##!&7!/0#!?/(/#!&7!B,,3$&3.!&'!($6!&/0#'!?/(/#<!$&'!1(%#!($!(%13..3&$!&7!-43,/!&7!.4)0!)&$%4)/!/0(/!3.!(!1(//#'!&7!'#)&'%9!!QM!BR@?!LMMSLM=L!

!

D9W9! B7!"#$%&'!0(.!5##$!)&$A3)/#%!&7!(!7#,&$6<!"#$%&'!)#'/373#.!(/!,#(./!73A#!6#('.!0(A#!2(..#%!(7/#'!/0#!%(/#!&7!)&12,#/3&$!&7!/0#!.#$/#$)#!7&'!.4)0!7#,&$6<!4$,#..!$&!2#'.&$!0#,%!'#.2&$.35,#!56!(!2'&.#)4/&'[.!&773)#!7&'!/0#!7()/.!42&$!+03)0!/0#!)&$A3)/3&$!+(.!5(.#%!)&$/3$4#.!/&!0(A#!($6!3$A&,A#1#$/!+3/0!/0#!54.3$#..9!!QM!BR@?!LMMSLM=DM!

!

D9T9! B7!"#$%&'!&'!($6!&773)#'<!%3'#)/&'<!2('/$#'<!&'!&/0#'!1($(-#'3(,!(-#$/!&7!"#$%&'!0(.!5##$!)&$A3)/#%!&7!(!7#,&64%#'!/0#!?('5($#.=\;,#6!F)/!&7!IMMI<!&'!(!@,(..!Q!&'!@,(..!I!7#,&$6!4$%#'!/0#!B,,3$&3.!?#)4'3/3#.!R(+!&7!D]LQ<!"#$%&'!)#'/373#.!(/!,#(./!73A#!6#('.!0(A#!2(..#%!.3$)#!/0#!%(/#!&7!/0#!)&$A3)/3&$9!!"#$%&'!74'/0#'!)#'/373#.!/0(/!3.!$&/!5(''#%!7'&1!5#3$-!(+('%#%!(!)&$/'()/9!!QM!BR@?!LMMSLM=DM9L!

!

D9]9! "#$%&'!)#'/373#.!3/!3.!$&/!5(''#%!7'&1!0(A3$-!(!)&$/'()/!+3/0!/0#!?/(/#!5(.#%!42&$!A3&,(/3$-!/0#!2'&0353/3&$.!'#,(/#%!/&!#3/0#'!.451 3//3$-S+'3/3$-!.2#)373)(/3&$.!&'!2'&A3%3$-!(..3./($)#!/&!($!#12,&6##!&7!/0#!?/(/#!&7!B,,3$&3.!56!'#A3#+3$-<!%'(7/3$-<!%3'#)/3$-<!&'!2'#2('3$-!($6!3$A3/(/3&$!7&'!53%.<!('!#84#./!7&'!2'&2&.(,<!&'!'#84#./!&7!3$7&'1(/3&$<!&'!.313,('!(..3./($)#!V#;)#2/!(.!2('/!&7!(!245,3)!'#84#./!7&'!.4)0!3$7&'1(/3&$X9!QM!BR@?!LMMSLM=DM9LV#X!

!

D9DM9! "#$%&'!)#'/373#.!/0(/!3/!($%!3/.!(773,3(/#.!('#!$&/!%#,3$84#$/!3$!/0#!2(61#$/!&7!($6!%#5/!/&!/0#!?/(/#!V&'!37!%#,3$84#$/!0(A#!#$/#'#%!3$/&!(!%#7#''#%!2(61#$/!2,($!/&!2(6!/0#!%#5/9!!QM!BR@?!LMMSLM=DD<!LM=ZM!

!

D9DD9! "#$%&'!)#'/373#.!/0(/!3/!($%!(,,!(773,3(/#.!0(,,!)&,,#)/!($%!'#13/!B,,3$&3.!J.#!>(;!&$!(,,!.(,#.!&7!/($-35,#!2#'.&$(,!2'&2#'/63$/&!/0#!?/(/#!&7!B,,3$&3.!3$!())&'%($)#!+3/0!2'&A3.3&$.!&7!/0#!B,,3$&3.!J.#!>(;!F)/9!!QM!BR@?!LMMSLM=DI!

!

D9DI9! "#$%&'!)#'/373#.!/0(/!3/0(.!$&/!5##$!7&4$%!56!(!)&4'/!&'!/0#!E&,,4/3&$!@&$/'&,!:&('%!/&!0(A#!)&11 3//#%!(!+3,,74,!&'!*&+3$-!A3&,(/3&$!&7!/0#!U$A3'&$1#$/(,!E'&/#)/3&$!F)/!+3/03$!/0#!,(./!73A#!6#('.<!($%!3.!/0#'#7&'#!$&/!5('''#%!7'&1!5#3$-!(+('%#%!(!)&$/'()/9!!QM!BR@?!LMMSLM=DN!

!

D9DQ9! "#$%&'!)#'/373#.!3/!0(.!$#3/0#'!2(3%!($6!1&$#6!&'!A(,4(5,#!/03$-!/&!3$%4)#!($6!2#'.&$!/&'#7'($!7'&1!53%%3$-!&$!(!?/(/#!)&$/'()/<!$&'!())#2/#%!($6!1&$#6!&'!&/0#'!A(,4(5,#!/03$-<!&'!()/#%!42&$!/0#!2'&13.#!&7!.(1#<!7&'!$&/!53%%3$-!&$!(!?/(/#!)&$/'()/9!!QM!BR@?!LMMSLM=IL!

!

D9DN9! "#$%&'!)#'/373#.!3/!0(.!'#(%<!4$%#'./($%.!($%!3.!$&/!*&+3$-,6!3$!A3&,(/3&$!&7!/0#!^K#A&,A3$-!P&&'_!2'&A3.3&$.!&7!/0#!B,,3$&3.!E'&)4'#1#$/!@&%#9!!QM!BR@?!LMMSLM=QM!

!

D9DL9! "#$%&'!)#'/373#.!/0(/!37!3/!03'#.!(!2#'.&$!'#843'#%!/&!'#-3./#'!4$%#'!/0#!R&5563./!K#-3./'(/3&$!F)/!/&!(..3./!3$!&5/(3$3$-!($6!?/(/#!)&$/'()/<!/0(/!$&#!&7!/0#!,&563./[.!)&./.<!7##.<!)&12#$.(/3&$<!'#3154'.#1#$/.!&'!&/0#'!'#14$#'(/3&$!+3,,!5#!53,,#%!/&!/0#!?/(/#9!!QM!BR@?!LMMSLM=QT!

!

D9DZ9! "#$%&'!)#'/373#.!/0(/!/!3,,!$&/!'#/(3$!(!2#'.&$&'!#$/3/6!/&!(//#12/!/&!3$7,4#$)#!/0#!&4/)&1#!&7!(!2'&)4'#1#$/!%#)3.3&$!7&'!)&12#$.(/3&$)&$/3$-#$/!3$!+0&,#!&'!3$!2('/42&$!/0#!%#)3.3&$!&'!2'&)4'#1#$/9!!QM!BR@?!LMMSLM=QT!

!

D9DW9! "#$%&'!)#'/373#.!3/!+3,,!'#2&'/!/&!/0#!B,,3$&3.!F//&'$#6!`#$#'(,!($%!/0#!@03#7!E'&)4'#1#$/!\773)#'!($6!.4.2#)/#%!)&,,4.3&$!&'!&/0#'!($/=)&12#/3/3A#!2'()/3)#!(1&$-!($6!53%%#'.<!&77#'&'.<!)&$/'()/&'.<!2'&2&.#'.<!&'!#12,&6##.!&7!/0#!?/(/#9!!QM!BR@?!LMMSLM=NM<!LM=NL<!LM=LM!

!

D9DT9! "#$%&'!)#'/373#.!/0(/!37!3/!3.!(+('%#%!(!)&$/'()/!/0'&4-0!/0#!4.#!&7!/0#!2'#7#'#$)#!'#843'#%!56!/0#!E'&)4'#1#$/!&7!P&1#./3)!E'&%4)/.!F)/<!/0#$!3/!.0(,,!2'&A3%#!2'&%4)/.!24'.4($/!&!/0#!)&$/'()/!&'!.45)&$/'()/!/0(/!('#1($47()/4'#%!3$!/0#!J$3/#%!?/(/#.9!!QM!BR@?!LDW!

!

D9D]9! "#$%&'!)#'/373#.!./##,!2'&%4)/.!4.#%!&'!.422,3#%!3$!/0#!2#'7&'1($)#!&7!(!)&$/'()/!&'!245,3)!+&'*.!.0(,,!5#!1($47()/4'#%!&'!2'&%4)#%!3$!/0#!J$3/#%!?/(/#.<!4$,#..!/0#!#;#)4/3A#!0#(%!&7!/0#!2'&)4'#1#$/!&'!$&!)&$/'()/!&'!)&$/'()/!&'!&/0#'!'#14$#'(/3&$!+3,,!5#!53,,#%!/&!/0#!?/(/#9!!QM!BR@?!LZL!

!

D9IM9! P'4-!0'##! a&'*2,()#!

!

Q9IM9D! B7!"#$%&'!#12,&6.!IL!&'!1&'#!#12,&6##.!($%!/03.!)&$/'()/!3.!+&'/0!1&'#!/0($!bL<MMM<!"#$%&'!)#'/373#.!3/!+3,,!2'&A3%#!(!%'4-!7'##!+&'*2,()#!24'.4($/!/&!/0#!P'4-!0'##! a&'*2,()#!F)/!

!

Q9IM9I! B7!"#$%&'!3.!($!3$%3A3%4(,!($%!/03.!)&$/'()/!3.!+&'/0!1&'#!/0($!bLMMM<!"#$%&'!)#'/373#.!3/!.0(,,!$&/!#$-(-#!3$!/0#!4$,(+74,!1($47()/4'#<!%3./'354/3&$<!%3.2#$.(/3&$<!2&..#..3&$<!&'!4.#!&7!(!)&$/'&,,#%!.45./($)#!%4'3$-!/0#!2#'7&'1($)#!&7!/0#!)&$/'()/9!!QM!BR@?!LTM!

!

D9ID9! "#$%&'!)#'/373#.!/0(/!$#3/0#'!"#$%&'!$&'!($6!.45./($/3(,,6!&+$#%!(773,3(/#!3.!2('/3)32(/3$-!&'!.0(,,!2('/3)32(/#!3$!($!3$/#'$(/3&$(,!5&6)&//!3$!A3&,(/3&$!&7!/0#!J9?9!U;2&'/!F%13$3./'(/3&$!F)/!&7!D]W]!&'!/0#!(22,3)(5,#!'#-4,(/3&$.!&7!/0#!J$3/#%!?/(/#.!P#2('/1#$/!&7!@&11#')#9!!QM!BR@?!LTI!

!

D9II9! "#$%&'!)#'/373#.!/0(/!$&!7&'#3-$=1(%#!#8432 1#$/<!1(/#'3(,.<!&'!.422,3#.!74'$3.0#%!/&!/0#!?/(/#!4$%#'!/0#!)&$/'()/!0(A#!5##$!&'!+3,,!5#!2'&%4)#%!3$!+0&,#!&'!3$!2('/!56!7&')#%!,(5&'!&'!3$%#$/4'#%!,(5&'!4$%#'!2#$(,!.($)/3&$9!!QM!BR@?!LTQ!

!

D9IQ9! "#$%&'!)#'/373#.!/0(/!$&!7&'#3-$=1(%#!#8432 1#$/<!1(/#'3(,.<!&'!.422,3#.!74'$3.0#%!/&!/0#!?/(/#!4$%#'!/0#!)&$/'()/!0(A#!5##$!2'&%4)#%!3$!+0&,#!&'!3$!2('/!56!/0#!,(5&'!&7!($6!)03,%!4$%#'!/0#!(-#!&7!DI9!!QM!BR@?!LTN!

!

D9IN9! >03.!(22,3#.!/&!3$7&'1(/3&$!/#)0$&,&-6!)&$/'()/.!($%!3.!&/0#'+3.#!$&/!(22,3)(5,#9!!"#$%&'!)#'/373#.!/0(/!3$7&'1(/3&$!/#)0$&,&-6<!3$),4%3$-!#,#)/'&$3)!3$7&'1(/3&$<!.&7/+('#<!.6./#1.!($%!#8432 1#$/<!%#A#,&2#%!&'!2'&A3%#%!4$%#'!/03.!)&$/'()/!)&12,6!+3/0!/0#!(22,3)(5,#!'#843'#1#$/.!&7!/0#!B,,3$&3.!B$7&'1(/3&$>#)0$&,&-6!F))#..353,3/6!F)/!?/($%('%.!(.!245,3.0#%!(/!V+++9%0.9./(/#93,94.S33/((X9!QM!BR@?!LTW!

!

D9IL9! "#$%!+,(7!&''($)%!*+!.),-+1%!5#+!+5,!1)%$-),*$&(!4/$(-$,<%!4/*!$%!+*#)15$%)!,+*!&''($6&4()9!"#$%&'!)#'/373#.<!37!3/!&+$.!'#.3%#$/3(,!54 3,%3$-.</0(/!($6!A3&,(/3&$!&7!/0#!R#(%!E&3.&$3$-!E'#A#$/3&$!F)/!0(.!5##$!13/3-(/#%9!!NDM!BR@?!NL!

!

D9IZ9! "#$%&'!)#'/373#.!3/!0(.!$&/!5##$!)&$A3)/#%!&7!/0#!&77#$.#!&7!53%!'3--3$-!&'!53%!'&/(/3$-!&'!($6!.31 3,('!&77#$.#!&7!($6!./(/#!&'!&7!/0#!J$3/#%!?/(/#.9!!WIM!BR@?!LSQQ!U=Q<!U=

!

D9QD9! "#$%&'!)#'/373#.!/0(/!3/!0(.!'#(%<!4$%#'./($%.<!($%!3.!3$!)&12,3($)#!+3/0!/0#!'#-3./'(/3&$!'#843'#1#$/.!&7!/0#!U,#)/3&$.!@&%#!VDM!BR@?!LS]=QLX!($%!/0#!'#./'3)/3&$.!&$!1(*3$-!2&,3/3)(,!)&$/'354/3&$.!($%!'#,(/#%!'#843'#1#$/.!&7! /0#! B,,3$&3.! E'&)4'#1#$/! @&%#9! ! "#$%&'! +3,,! $&/! 1(*#! (! 2&,3/3)(,!)&$/'354/3&$! /0(/! +3,,! A3&,(/#! /0#.#!'#843'#1#$/.9!!QM!BR@?!LMMS I M=DZM!($%!LM=QW!

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=,!&66+1-&,6)!5$*#!%)6*$+,!>?@AB?!+:!*#)!=(($,+$%!C1+6/1)D),*!3+-)0!E),-+1!6)1*$:$)%!&%!&''($6&4()F!

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□!!E),-+1!$%!,+*!1)G/$1)-!*+!1)<$%*)1!&%!&!4/%$,)%%!),*$*7!5$*#!*#)!H*&*)!I+&1-!+:!J()6*$+,%;!

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+1!

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□!!E),-+1!#&%!1)<$%*)1)-!5$*#!*#)!H*&*)!I+&1-!+:!J()6*$+,%;!!K%!&!1)<$%*)1)-!4/%$,)%%!),*$*70!E),-+1!&6L,+5()-<)%!&!6+,*$,/$,<!-/*7!*+!/''-&*)!*#)!1)<$%*1&*$+,!&%!1)G/$1)-!47!*#)!K6*;!

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D9QI9! F!2#'.&$!V&/0#'!/0($!($!3$%3A3%4(,!()/3$-!(.!(!.&,#!2'&2'3#/&'X!14./!5#!(!%4,6!)&$./3/4/#%!,#-(,!#$/3/6!($%!(4/0&'3d#%!/&!/'($.()/!54.3$#..!&'!)&$%4)/!(77(3'.!3$!B,,3$&3.!2'3&'!/&!.451 3//3$-!(!53%!&'!&77#'9!!B7!6&4!%&!$&/!1##/!/0#.#!)'3/#'3(<!/0#$!6&4'!53%!&'!&77#'!+3,,!5#!%3.84(,373#%9!!QM!BR@?!LMMS I M=NQ!

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E),-+1!D/%*!D&L)!+,)!+:!*#)!:+((+5$,<!*5+!6)1*$:$6&*$+,%!47!6#)6L$,<!*#)!&''1+''1$&*)!4+M;!!!

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F9 □!E),-+1!6)1*$:$)%!$*!$%!&,!$,-$.$-/&(!&6*$,<!&%!&!%+()!''1+''1$)*+1!&,-!$%!*#)1):+1)!,+*!%/4N)6*!*+!*#)!1)G/$1)D),*%!+:!%)6*$+,!>?@OP!+:!*#)!C1+6/1)D),*!3+-);!

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:9 □!E),-+1!6)1*$:$)%!*#&*!$*!$%!&!()<&(!),*$*70!&,-!5&%!&/*#+1$Q)-!*+!*1&,%&6*!4/%$,)%%!+1!6+,-/6*!&::&$1%!$,!=(($,+$%!&%!+:!*#)!-&*)!:+1!%/4D$**$,<!*#$%!4$-!+1!+::)1;!!"#)!H*&*)!D&7!1)G/$1)!E),-+1!*+!''1+.$-)!).$-),6)!+:!6+D''($&,6)!4):+1)!&5&1-;!

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