0&\$17; \$(!N*!	ļ	@6' ' 2!4\$&49%5!' 2!T=: \$%>\$!#' ' G!
D\$%(iJ*I *!	l) 6' #41!7%G!; 9\$>G!' 2!F7%576' 7!67G9747!8%\$c!!8\$62' 6C7%3\$!' 2!7%G!7>4\$6%749: \$&! 4' !F) I /!
! +9>>\$; (!Y*E*!	,Q!	01\$!\$3' >' 5;!7%G!3' %&\$6:749' %! C7%75\$C\$%4! '2!:2".#.+28. (&'"1") (!' %!?7%U&!@\$%9%&=>7(!A\$#!\\$7>7%G!
! N6=7%(!N*+*@*!	!	01\$!C9%9C=C!\$3' %' C93!76\$7!2' 6!&7#>' 5!8>7%4749' %&!9%!d%G' %\$&97!
! N#9CM' (!E7%\$4!	,X!	Z789G!>7%G&378\$!7&&\$&&C\$%4!'2!6\$86\$&\$%4749:\$%\$&&!2'6!#9>G%2\$!3'%&\$6:749'%(!V'U949U7!^3'>'5937>!<%46934(!A\$#!W\$7>7%G!
! ?9537&(!^: \$>; %!	!	01\$!7G7849: \$!5\$' C\$46; !' 2!46\$\$!&78>9%5&!9%5' #>7%G!"7>4#74\$6!"474\$!Y' 6\$&4(!''' =41! D\$&4>7%G(!A\$#!W\$7>7%G!
! J' 6%\$6\$(!?*I *!	!	@' 8=>749' %!G; %7C93&!' 2!7!>' #>7%G!4\$6673\$!Z9C=!2' 6\$&4(!''' =41!D\$&4>7%G(!A\$#!W\$7>7%G!
) \$7(!+=9&!<*!	į	@6\$G9349' %!' 2!M6\$\$G9%5!: 7>=\$&!2' 6!5. *2"%*'. 7 (!6\$&9&47%3\$!' : \$6!&94\$&!7%G!&\$69\$&!
! V7G%(!@=6#'U'!	į	''46\$%541!86' 8\$649\$&!' 2!T=: \$%%\$!#' ' G!
! 741\$6&(! ' '!J*!	!	"8\$39\$&!G9: \$6&94; !7%G!&47%G!G\$: \$>' 8C\$%4!#9419%!7!>' #>7%G!4\$6673\$!Z9C=!2' 6\$&4(! "'' =41!D\$&4>7%G(!A\$#!W\$7>7%G!
! A7&1(!"4=764!N*!	,/!	O1\$!6\$: 9\$#!' 2!6\$5%4\$6\$G!2' 6\$&46; !9%: \$&4C\$%4!86' &8\$34=&\$&!' 22\$69%5!&\$3=6949\$&! 4'!41\$!8=M93!9%!%7C\$G!7%G!6\$2\$6\$%3\$G!2'6\$&46;!:\$%4=6\$&!9%!A\$#!W\$7>7%G! M\$4#\$\$%!<\$3\$CM\$6!,-KK!4'!]34'M\$6!,-X!
!] #\$%(!V7C%1!E*!	!	I 9&4>\$4' \$!7%G!41\$!?6=&1479>\$G!@' &&=C!9%!''9>: \$6!M\$\$31!2' 6\$&4(!''' =41! □\$&4>7%G(! A\$#!W\$7>7%G!
! 7%&=6(!d6G9U7! 	,B!	A946' 5\$%! =847U\$! G; %7C93&! 7%G! M9' >' 5937>! %946' 5\$%! 29\$749' %! 9%! 7! &9>: ' 87&4' 67>! &; &4\$C!
! "\$497#749(!e\$44;!) *?*!	į	"4=G;!'2!;9\$*G!7%G!81;8937*;R=7*;19%!!"#\$%%'()"(*(!<*!<' %!&\$\$G!'63176G&!
! ''96\$576(!d&U7%G76!W*!	!	I 7%75\$C\$%4!'2!8' >>\$%(!8' >9%749' %!7%G!) 9MM\$6\$>>9%!NBb. !9%!! "#\$%"()"(*(!<*!<' %! &\$\$G!'63176G&!
! D9; ' %' (!?7CM7%5!	į	"=8\$63694937>12>=9G!U] χ!\$S467349' %!' 2!#7S\$&!26' C!67G9747!89%\$!%\$\$G>\$&!
! <'=5>7&&(!Z7>81!	,!	Y' 6\$&4! \$&474\$! C' G\$>9%5! C\$41' G' >' 5;!2' 6! 7%! 9%4\$5674\$G! 75693=×4=67×17%G! 46\$\$! 8>7%4749' %!86' I\$34(!"7M71(!I 7>7; &97!
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! A5=59(!I 9317\$\;\;\Z*!	ļ) 6' #41! 7%G! ; 9\$×G! C' G\$×&! 2' 6! : \$/'-%%\$\& 8\$\%"*(#"+(! [I 9>*\! 7%G! ! "#\$\& /(*\$8(! ["31\\$34!f!J17C*\!56' #%!9%!F\$\%; 7!
! Z\$7; (!"4\$81\$%!	!	01\$! &=33\$&&! ' 2! 416\$\$! 6\$&4' 6749' %! 8>7%49%5&! 74! F\$%%\$G; g&! ?=&1(! @' 64! V9>>&(! J7%4\$6M=6; (!A\$#!W\$7>7%G!
! Z93U76G(!J16%4' 81\$6!	!	d%46' G=3\$G! &C7>! C7CC7-&! 7%G! 9%: \$64\$M674\$! 3' %&\$6: 749' %! 9%! 7! >' #>7%G! 8' G' 3768!2' 6\$&4(!''' =41!D\$&4>7%G(!A\$#!W\$7>7%G!
! @9%5!h=! !	,!	Z\$3':\$67M>\$!3' »78&\$!'2!176G!M\$\$31![;.*2.<(1\$\%*'\$#+(*(\!
D74U9%&(!E' \$≯	,K!	01\$!G' C\$&493!G\$C7%G!2' 6!M\$\$31!2=\$>#' ' G!9%!''' =41>7%G!7%G!] 475' c!7!C76U\$4! 7%7>; &9&!
! D\$&4(!) 6717C!	!	01\$!\$22\$34&!' 2!I 7U=!>' 4=&!' %!41\$!56' #41!' 2!67G9747!89%\$!9%!F79%576' 7!Y' 6\$&4!
! □9%416' 8(!+%7!	!	"\$\$G! 679%! 9%! 3=>49: 74' 6H

Ţ			
W96	5%1\$¼(!"7C!	!	Y' $6\$\&4! = 49\%749'$ %! ' $849'$ %&! 2' $6!$ I 7' $69H'$ #%\$G! $9\%G95\$\%' = \&!$ 2' $6\$\&4!$ $9\%!$ ''' $= 41>7\%G!$ N' $4\$76'$ 7bA\$#! $W\$7>7\%Gc!$ 4' #76G&! 7! 3' \gg 7M' 6749: \$! 7886' 731! 4' ! &=&479 $\%$ 7M>\$! C7%75\$C\$%4!!
! J7 I	'447%\$' (!1 7697%7!	XQQ/!	^22\$34&!' 2!_936' &94\$!3176734\$69&493&(!3' _8\$4949' %!7%G!56709%5!' %!j!"#\$%#+. #*. '*(! <' =5>*g!N%G!j/%-\$). *%\$1(&7-#?"-%""![I %M^\!Y67%3' g!&\$\$G-9%5!\$&47M-9&1_\$%4!
: G\$	5!W#764(!^; U' ≯%7!	!	@' &&=C!6\$&' =63\$!&\$>\$349' %!9%!7!2675C\$%4\$G!>7%G&378\$(!J7&&(!A\$#!W\$7>7%G!
:)6	7M97%' #&U9(!I 76U!	ļ	I \$7&=69%5!73' =&493!86' 8\$649\$&!9%!>=CM\$6!7%G!46\$\$&!
! @'	%4(!<7:9G!!	!	N!C'G\$\!'2!&\$3'\%G76;!56'#41!2'6!67G9747!8\%\$!
! 01	' C8&' %(!F76×!	!	I 76U\$4!733\$&&!2' 6!A\$#!W\$7>7%G!&9: \$6!M\$\$31![; . *2. <(1\$%/7-#?"-%""\!9%!^=6' 8\$!
! J1	69&4\$%&\$%(!?6\$%G' %!	XQQB!!	L7%G94;!'2!M9'G9:\$6&94;!C'%94'69%5!86'567CC\$&c!?'=%G76;!"46\$7C!I 79%>7%G! @6'T\$34(!<\$84!'2!J'%&\$6:749'%!
! @1	988&(!V9>76; !	!	N&&\$&&9%5!41\$!&=33\$&&!' 2!6\$&4' 6749' %!8>7%49%5&!74!J78\$!Y' =>#9%G!
! 07	'M=U' :=(!I 79U7!	!	I 76U\$49%5!&4=G;!' 2!C76U\$4&!2' 6!Y9T97%!176G#' ' G!&8\$39\$&!9%!A\$#!W\$7>7%G!
! 01	\$9%176G4(!A\$69G7!	!	@>7%4!6\$&4' 6749' %!74!7%!' 8\$%!37&4!3' 7½C%\$(!D\$&4!J' 7&4!k!A\$#!W\$7>7%G!
! 0&	7%5(!F\$%%\$41!	!	

! D751' 6%(!I 7441\$#!! !	!	^22\$34!'2!9%9497\&47%G!&8739%5!7%G!M6\$\$G!'%!G;%7C93!C'G=>=&!'2!\$>7&49394;!'2! !"#\$%%'()"(*(!
! V7%&\$%(!V\$>5\$!	XQQ.!	N3' =&493!&4=G9\$&!' %!#' ' G!
! 7%&\$>\(!E\$6\$C;!!	!	<6724!C7%75\$C\$%4!8>7%!2' 6!J7&1C\$6\$!Y' 6\$&4(!@' 64!V9>&(!J7%4\$6M=6; !
!] gF\$»; (!) >\$%!	XQQK!	Y' 6\$&4HC9>>19%4\$56749' %!26' C!7!467%&7349' %!3' &4&!8\$6&8\$349: \$!
: W' 693(!?67%%⊳7∶!	!	I 'G\$>%5!41\$!9%2>=\$%3\$!'2!&4'3U9%5!'%!>'%594=G9%7\17%G!67G97\1:769749'%!9%!\#''G! 86'8\$649\$&!'2!!"\#\$\%'()"(*(!'%!7!\#76C!A'641>7\%G!\&94\$!
! N%G\$6&' %(!''4=764!	XQQ-!	Y=\$\:\tauC'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
! 3<'%7%G(!0%C! 	!	I 7U%5!&\$%&\$!'2!5\$%'4;8\$!S!\$%:%'%C\$%4!%4\$67349'%!'2!!"#\$%'()"(*(!%!A\$#!W\$7>7%G!
!] =%\$U17C(!F17C&\$%\$!	!	<\$:\$>'89%5!478\$6!7%G!:'>=C\$!\$R=749' %&!2' 6!D*6' (C&*. #E"#-#%"%!9%!+7' &!
! D7U\$-9%(!V\$741\$6!I !	! XQ, Q!	! d5%949' %!416\$&1' >G&!2' 6!567&&>7%G!2=\$>&!7%G!9C8>93749' %&!2' 6!7349: 94; !3' %46' >&!' %! 8=M>93!3' %&\$6: 749' %!>7%G!9%!J7%4\$6M=6; !
! "4\$#76G(!) 6\$5' 6;!	XQ, ,!	N!56' #41!7%G!;9\$>G!C'G\$>!2'6!A\$#!W\$7>7%G!F7=69![O1(*2"%(\$%*'(8"%\!56' #%!9%!\$:\$%H75\$G!8>7%4749' %&!
! ?\$6U\$44(!V7C%1!	XQ, X!	N%!\$\$7C9%749' %!'2!41\$!3=66\$%4!&>'8\$!567G9\$%4&!M\$9%5!\$\$8\$69\$%3\$G!M;!56'=%GH M7&\$G!2'6\$&4!C7319%\$&!9%!A\$#!W\$7>7%G!8>7%4749'%!2'6\$&4&!
! <\$%%; (!E\$CC7!	!] 22&\$4!?7%U9%5!9%!A\$#!W\$7>7%Gc!4' #76G&!&=&479%7M>\$!G\$: \$>' 8C\$%4(!#941!9%&9514! 26' C!9%4\$6%749' %7>!C' G\$>&!
! V\$%&17#(!N>\$S!	!	Y734' 6&! 9%2>=\$%39%5! 2=4=6\$! 37%' 8;! 3' C8' &949' %! 74! 096' C' 7%7! ?=&1(! A' 641! J7%4\$6M=6; (!A\$#!\\$7>7\G!
! @76U(!<7□' ' %!	!	^3' %' C93!#' ' G!7: 79>7M9>94; !7%G!86' 2947M9>94; !' 2!&C7>>H&37>\$!2' 6\$&4&!9%!D7%57%=9! <9&46934!
! NGU9%&(!A931' >7&!	XQ, /!	L\$5\$4749' %!7&&\$&&C\$%4!4' !=%G\$6&47%G!41\$!\$22\$34!' 2!2\$67½5' 74!8' 8=>749' %&!' %! %749: \$!2>' 67!3' C8' &949' %!
! NG=!] 87671(!d6\$%\$!	!	@1'4'&;%41\$493!7339C749'%!4'!4\$C8\$674=6\$!'2!2'=6!9\$+(86/*\$%!&8\$39\$&!7%G!D-F\$."(8%-7/-'>"'-#%!
! "7=(!N%G9!NG697%7!	!	I =7%492; 9%5! 2' 6\$&4! G\$567G749' %! 7%G! G\$2' 6\$&4749' %! =&9%5!) \$' 5678193! d%2' 6C749' %! "; &4\$C! [) d"\m! 7! 37&\$! &4=G;! 9%! 41\$! 416\$\$! 86' : 9%3\$&(! "' =41! F7-9C7%47%(!^7&4!F7-9C7%47%!7%G!"' =41H\$7&4!"=>7#\$&9(!d%G' %\$&97!
! □\$U\$&7(!N%%\$!	!	P&9%5!) d''! 4' ! 7&&\$&&! 41\$! 8' 4\$%497>! ' 2! 36' 8! 6\$&9G=\$&! 2' 6! \$%\$65; ! 5\$%\$6749' %! 9%! F\$%; 7!
! <7:9\$&(!A931'>7&!	XQ, B!!	Z\$: \$6&\$!\$%59%\$\$69%5!41\$!06\$\$!
! @\$%G>; (!I \$%&&7!	!	d%: \$&495749%5!41\$!6\$59' %7>: 769749' %!9%!6=>\$&!7%G!M\$&4!C7%75\$C\$%4!8673493\$&!2' 6! 2' 6\$&46; !9%!A\$#!W\$7>7%G!

e76=6!01; &(!@7=>7! ! J76M' %! &\$R=\$&4\$6\$G! M; ! %749: \$!6\$&4' 6749' %! 8>7%49%5&(! &' =41\$6%! @' 64! V9>&! 7%G! I =79>d&>7%G(!J7%4\$6M=6; ! ! !

N≫=C(!V' 8\$!	į	Z\$5\$%\$6749' %!' 2!7!46' 8937×1679%!2' 6\$&4!724\$6!3=×49: 749' %!' 2!! "/-'&7-*26%*"+\$7!
! ?\$>\$%(!+' 6%7!@*!	!	^22\$34&! '2! 9%4\$6&8\$39293! 3' C8\$4949' %! '%! 81' 4' &; %41\$&9&! 7%G! &4' C747>! 3' %G=347%3\$!' 2!! "#\$%' () "(*(!9%!6\$>749' %!4' !#74\$6!7%G!%=469\$%4!7: 79>7M9>949\$&!
! ?' #%(!V' 6739' !	!	D%G416' #!\$3' %' C93&!74!41\$!2' 6\$&4!>\$: \$\frac{1}{2}\f
! ?=6=6=(!V\$741\$6!	!	N&&\$&&9%5! 41\$! 87649398749' %! ' 2! D\$&4\$6%! "7C' 7%! #' C\$%! 9%! 7! #74\$6&1\$G! C7%75\$C\$%4!86' I\$34!
! <7#\$(!I 76U!	!	<\$4\$6C9%749' %!' 2!41\$!' 849C7>!>\$: \$\!' 2!8=\8#' ' G!&4' 3U&!4174!&1' =\G!M\$!1\$\:\G!4' ! \$\%&=6\$!3' \%49%=94;!' 2!&=88\:\!4' !41\$!F9\\\$\\$41!@=\8!7\\\G!@78\$6! \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
!] 5>\$(!I 9U\$!!	!	Y734' 6&!722\$349%5!41\$!\$76>; !56' #41!7%G!&=6: 9: 7½' 2!9%G95\$%' =&!&\$\$G¾5&!8>7%4\$G! 2' 6!41\$!8=68' &\$!' 2!\$3' >' 5937½6\$&4' 6749' %!
! +7CM\$64(!I 9317\$>!	!	''4\$C!M6\$7U75\$!'2!!"#\$%&'()"(*(!G=69%5!C\$317%937;42\$>>9%5!9%!F9%>\$941!Y'6\$&4(!J\$%467;4A'641!d&>7%G(!A\$#!W\$7>7%G!
! +%5(!I 9317\$>!F*''*!	!	01\$!G\$:\$>'8C\$%4!'2!7!C7%75\$C\$%4!9%2'6C749'%!&;&4\$C!2'6!6=MM\$6!8>7%4749'%&!9%!17>7;&97!
!] #\$%(!<7: %G!A*!	!	N%!%: \$&495749' %!' 2!41\$!=&\$!' 2!3' C8=4\$6!7\$97;4' C' 56781; (!C75%\$493!6\$&' %7%3\$! 9C759%5! 7%G! &37%%%5! \$>\$346' %! C936' &3' 8;! 2' 6! \$\$7C9%%5! G\$: \$>' 89%5! ! "#\$\\'()"(*(!<*!<' \!&\$\$G!3' \%\$\!
!] 5>\$(!Z*!I 9317\$;k 	!	Y734' 6&!722\$349%5!41\$!\$76>; !56' #41!7%G!&=6: 9: 7>! 2!9%G95\$%' =&!&\$\$G>9%5&!8>7%4\$G! 2' 6!41\$!8=68' &\$!' 2!\$3' >' 5937>16\$&4' 6749' %!
! ■ N≫=C(!V' 8\$!Z*!	,!	Z\$5\$%\$6749' %! ' 2! 7! 46' 8937>! =8>7%G! 679%! 2' 6\$&4! 724\$6! 3=>49: 749' %! ' 2! ! "/-'&7-*26%*"+\$7!
! ?7U\$6(!E76\$G!	!	Y%\$!6' ' 4!G; %7C93&!9%!67G9747!89%\$!9%!6\$&8' %&\$!4' !96695749' %!7%G!3' C8\$4949' %!' %! 41\$!J7%4\$6M=6; !@>79%&!
! 9GG>\$C7&&(!<7:9G!	!	+' 55\$6! 74494=G\$&! 4' #76G&! C\$G97! \$22\$349:\$%\$&&! 9%! G9&&\$C9%749%5! &72\$4;! 9%2' 6C749' %!
! A' : 76>; (!E' 1%!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	!	Y734' 6&! 722\$349%5! 6\$&9%! 4788\$6! 86' G=349: 94; *! N! 37&\$! &4=G; ! 9%! F=%9%57%! Y' 6\$&4! <%46934(! D \$&4!E7: 7!H!d%G' %\$&97!
! @' 1(!J' %&47%3\$!J*!	!	01\$!\$:7>=749' %!'2!\$\$8\$69C\$%47>!46\$74C\$%4&!2'6!86' C'49%5!2>'#\$69%5!9%!67G9747! 89%\$!56724&!7%G!&\$\$G>%5&!
! "7%4' &' (!?\$%; 7 C9 %!V*!	ļ	^: 7>=749' %!' 2!176: \$&49%5!=&9%5!1 7G9>>!Q. , !V7=>\$6!

l		
F7G76#749(!O69!^&49!	!	01\$! \$R=99M69=C! C' 9&4=6\$! 3' %4\$%4! '2! C\$G9=C! G\$%&94;! 29M6\$M' 76G! 7%G! 94&! 3' C8' %\$%4&!
V' 66\$≫(!?6\$%G7%!Z!	,!	A\$%' %! 6\$59' %! 9%G95\$%' =&! 2' 6\$&4! 6\$&' =63\$! 9%: \$%4' 6; c! 9%4\$56749%5! &74\$>>\frac{1}{2}4\$!&\$\%\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot
IR67C(!NM=!	!	Z\$:9\$#!'2!:769' =&!7&8\$34&!'2!89%\$!89431!37%U\$6c!M9' >'5;!7%G!C7%75\$C\$%4!
1 7>\$3G7%(!1 769>; %!	!	^22\$34!' 2!''' G9=C![A7\!' %!I 75%\$&9=C![I 5\!=847U\$!9%!M\$7%&![! 2 (% 8\$%%>\$81 ('"% 4\!\!
''\$497#7%(!I *!d%&7G!	!	01\$!9%2>=\$%3\$!' 2!&87497>!7667%5\$C\$%4!' 2!&=M!&' 9: 3' C87349' %!' %!41\$!6' ' 4!56' #41! ' 2!67G9747!89%\$!&\$\$G\$9%5&!
"=31' G' >7U(!) \$67>G' !	!	Y\$7&9M994;!' 2!7!?670997%!&4;>\$!89%\$!Z*0*N*!2=6%94=6\$!2734' 6;!9%!A\$#!W\$7>7%G!
L\$%\$57&(!L934' 6!	ļ	N!3' C876749: \$!7%7>; &9&!' 2!41\$!A\$#!W\$7>7%G!7%G!J19>\$7%!8=M93!2' 6\$&46; !&\$34' 6&!
D744(!I 9U\$!	!	"4=G; !%4' !41\$!%2>=\$%3\$!' 2!5\$%\$493!9C86' : \$C\$%4!' %!&\$3' %G!>' 5!M67%31%5!%! 67G9747!89%\$!
I =%417%(!"17G693U!"!	XQQQ!	0' #76G&!7319\$: 9%5!3' HC7%75\$C\$%4!' 2!07%07%97!@=M93!Y' 6\$&4&!
''19%5>\$4' %(!N%%7!	!	Y' 6\$&4!M9' &\$3=694; c!7%!7%7>; &9&!' 2!41\$!267C\$#' 6U!9%!A\$#!W\$7>7%G!
J17%; \$%57(!0\$CM' !	XQQ,!	D''G>7%G!C7%75\$C\$%4!8>7%!2'6!"9>:\$6#''G!
<6\$; \$6(!I 9317\$>!!	!	01\$!Y' 6\$&4!''4\$#76G&198!J' =%39;13\$649293749' %!' 2!) ' #7%!V9;1Y' 6\$&4nt9C8;93749' %&! 2' 6!41\$!&=&479%7M;\$!C7%75\$C\$%4!' 2!A\$#!W\$7>7%Gg&!9%G95\$%' =&!2' 6\$&4&!
l&U7%G\$6(!<=G9!	!	01\$!6\$>749' %&198!M\$4#\$\$%!>\$7&4!>\$C\$49%5!#74\$6!67%5\$!7%G!86' G=349:94;!'2!!"#\$%&'()"(*(&<*!<'%!&\$\$G\$9%5&!
 7G' %G' (!I 7%G; !	!	01\$!\$22\$34&!'2!26'&4!6\$G=349'%!46\$74C\$%4&!'%!&\$\$G!;9\$>G!9%!7!67G9747!89%\$!&\$\$G!'63176G!
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