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W(!7,&!2##'!).%#!(7,'!(#'!5#,%&!&*'+#!(7#!;-.2,-!/*','+*,-!+%*&*&!./!?==V@?==T6!:7*+7!+.'(%*20(#1!(.!(7#!:*1#&$%#,1!*'(%.10+(*.'!./!),+%.$%01#'(*,-!$.-*+5!,&!,'!#&&#'(*,-!/*','+*,-!%#;0-,(.%5!$.-*+5!(..-!(.!/.%#&(,--!.%!-*)*(!(7#!*)$,+(!./!2,'3*';!+%*&#&8!X0$$.%(*';!(7*&6!(7#%#!7,B#!2##'!'0)#%.0&!#)$*%*+,-!&(01*#&!:7*+7!$%.B*1#!%.20&(!#B*1#'+#!/.%!(7#!#//#+(*B#'#&&!./!),+%.$%01#'(*,-!$.-*+5!*'!,1B,'+#1!+.0'(%*#&!,'1!#)#%;*';!),%3#(!#+.'.)*#&!&0+7!,&!Y,B*&!#(!,-!C?=>VG6!Q,%%#%,&!#(!,-!C?=>TG6!Q#%0((*!#(!,-!C?=>VG6!F3*'+*!,'1!E-)&(#,1@D0)&#5!C?=>TG6!Q-,#&&#'&!#(!,-!C?=>AG6!Y#--4F%*++*,!#(!,-!C?=>?G!,'1!P*)!#(!,-!C?=>>GG8!N.&(!./!(7#&#!&(01*#&!7,B#!&$#+*/*+,--5!/.+0&#1!.'!(7#!#//#+(*B#'#&&!./!),+%.$%01#'(*,-!$.-*+5!*'!(7#!,%#,!./!(7#!/*','+*,-!&#+(.%!:7#%#!(7#%#!*&!(7#!).&(!$.(#'(*,-!/.%!&5&(#)*+!%*&3!(.!1#B#-.$6!(7,(!*&!2,'3!+%#1*(!,'1!(7#!7.0&*';!),%3#(8!
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W'!(7*&!+.'(#K(6!2,'3&!%#),*'!+#'(%,-!*'!(7#!/*','+*,-!&#+(.%!*'!B*%(0,--5!,--!+.0'(%*#&Z!,!&.0'1!,'1!$%./*(,2-#!2,'3*';!&#+(.%!%#),*'&!*)$.%(,'(#%)#1*,(*.'!./!2,'3&!:*(7!(7#!;%.:(7!./!+,$*(,-!,'1!&#+0%*(*#&!),%3#(&6!*)$%.B#)#'(!*'!/*','+*,-!&5&(#)!(#+7'.-.;5!,'1!(7#!(%,'&/.%),(*.'&!./!2,'3&4!.$#%,(*';!#'B*%.')#'(8!F!%#+#'(!#K,)$-#!*&!(7#!/-*;7(!(.!2,'3!+%#1*(!-*'#&!25!+.)$,'*#&!:7#'!&#+0%*(*#&!),%3#(&!+-.&#1!(.!,--!20(!(7#!).&(!+%#1*(:.%(75!/*%)&!*'!N,%+7!?=?=!,&!(7#!Q.%.',B*%0&!(..3!7.-18!J0%(7#%).%#6!,!%.20&(!,'1!:#--!+,$*(,-*&#1!2,'3*';!&#+(.%!*&!2#((#%!,2-#!(.!:*(7&(,'1!'#;,(*B#!&7.+3&!/%.)!/*','+*,-!1*&%0$(*.'&!,'1!(70&!+.'(%*20(#!(.!/*','+*,-!&(,2*-*(58![.:#B#%6!1#&$*(#!(7#!*)$.%(,'+#!./!$%./*(,2*-*(5!(.!2,'3&4!;%.:(7%B*B,-6!&(,2*-*(5!,'1!(7#!&*;'*/*+,'+#!./!(7#!2,'3*';!&#+(.%!/.%(7#!%#,-!+#+.'.)5!,'1!(7#!%#+#'(!;%.:(7!*'!)*')#!./!(7#!%#+#'(!;.:(7!*'!)*')#!./!),+%.$%01#'(*,-!$.-*+56!(7#%#!7,B#6!(.!.0%!3'.:-#1;#6!2##'!'.!&(01*#&!:7*+7!,&&#&&!(7#!#//#+(!./!),+%.$%01#'(*,-!%#;0-,(*.'!.'!2,'3&4!$%./*(,2*-*(58!!
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; , $&! * ' ! (7#! -*(#%, (0%#! 7*; 7-*; 7(#1! , 2 . B#6! (7*&! , -& . ! , 1B, ' +#&! 0 ' 1#%&(, ' 1* ' ; ! . /! 7 . : ! 2, ' 3&! %#, +(! (. !) , +% . $%01# ' (*, -! %#; 0-, (*. ' &! , ' 1! 7# ' +#! (7#! (%, ' &) *&&* . ' ! $% . +#&&! /% .) ! $. -*+5! (. ! +%#1*(! *&&0, ' +#8! Q#%0((*! #(! , -! C?=>VG6! / . %! #K,) $-#6! &0; ; #&(#1! (7#%#! *&! , ! : #, 3#%! #//#+(! . /!) , +% . $%01# ' (*, -! $. -*+5! . ' ! , &&#(! $%*+#&! , ' 1! +%#1*(! * ' !) . %#! 1#B#- . $#1! , ' 1!) . %#! /* ' , ' +*, --5! . $# ' ! #+ . ' .) *#&6! &0; ; #&(* ' ; ! & .) #! , B . *1, ' +#!, ' 1_ . %!1*&* ' (#%) #1*, (* . ' ! . /!(7#!$. -*+56! : 7*+7!&7 . 0-1!/* ' 1!$, %, --#-&!* ' !$% . /*(, 2*-*(58!!
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-. . 3* ' ; ! , (!(7#!bL6!U#%) , ' 5! , ' 1!%(, -5!* ' ! , !&*) *- , %!) , ' ' #%!0&* ' ; !(7#!e*UI N ! ; -. 2 , -!#+. ' .) #(%*+!) . 1#-6!
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(7#! * ' 1*B*10 , -! 2 , ' 38! b ' 1#%! $#%/#+(! + .) $#(*(* . ' ! (7#! * ' 1#K! *&!]#% . ! , &! (7#! . 0($0(! $%*+#! C) , % ; * ' , -! %#B# ' 0#G!#H0 , -&!) , % ; * ' , -!+ . &(6! , ' 1!g ' . %) , -h!#+ . ' .) *+!$% . /*(&! , %#!]#% . 8!F++ . %1* ' ; -56!* ' ! . 0%!2 , &#-* ' #!) . 1#-6! . ' -5!(7#!P#% ' #%!W ' 1#K!*&!* ' +-01#18!P#% ' #%!* ' 1*+#&! : #%#!0&#1!* ' !2 , ' 3@$% . /*(, 2*-*(5!&(01*#&!&0+7! , &!!

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W'!-*'#!: *(7!(7#!20-3!./!(7#!-*(#%,(0%#6!: #!) #,&0%#!.0%!1#$#'1#'(!B,%*,2-#6!2, '3!$%./*(,2*-*(5!25!(7#!
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;#'#%,(#!$%./*(&!: 7*-#!DEFI!) #,&0%#&!(7#!$#%/.%) , '+#!./!,!2, '3!2,&#1!. '!*(&!,B#%,;#!&7,%#7.-1#%&4!
#H0*(56! (7#! %#(0%'!(.!&7,%#7.-1#%&! . '!(7#*%! #H0*(58! 97#! %#(0%'&!/*;0%#! *&! 2,&#1! . '! ,! '0) 2#%! ./!
&02+.) $. '#'(&6! ',) #-5! '#(! *'(#%#&(! *'+.) #6! '. '@*'(#%#&(! *'+.) #6! '. '*'(#%#&(! +.&(&! , '1!
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%#&0-(&!*'!(7#!%#&#,%+7!-*(#%,(0%#!CX#+(*. '!AG!&7. :!) *K#1!%#&0-(&6!: #!&7. :!*'!(7#!/*',-!+.-0) '!.0%!. : '!
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G#3,&.*5!%#/#%&!(.!2,'3*';!*'10&(%5!:*1#!B,%*,2-#&6!:7*+7!,%#!(:./.-18!97#!^QD WX WX!B,%*,2-#!*&!,!B#+(.%!+,$(0%*';!(7#!$%#&#'+#!./!,!2,'3*';!+%*&*&!10%*';!(7#!$#%*.1!,!+.0'(%5!#K$#%*#'+#1!,!2,'3*';!+%*&*&6!,&!1#/*'#1!25!P,#B#'!,'1!\,-#'+*,!C?=>TG8!W(!*&!,!10))5!B,%*,2-#!,'1!*(!*&!+.1#1!.'#!*'!(7#!5#,%!(7#!+%*&*&!&(,%(&!0'(*-!(7#!5#,%!*(!:,&!.B#%!,'1!*&!.(7#%:*&#!]#%.8!PWeYIj!*&!(7#!+7.&#'!+.)$#(*(*.'!B,%*,2-#6!(7#!P#%'#%!W'1#K6!:7*+7!B,%*#&!2,'3!25!2,'38'!e.(#!(7,(!:#!1.!'.(!#)$-.5!(7#!f,'],%@D.&&#![!&(,(*&(*+!0'-*3#!X+7,#+3!,'1!Q*7p3!C?=>?G6!Y,B*&!,'1!L,%*)!C?=>aG!,'1!.(7#%&6!.:*';!(.!&.)#!(#+7'*+,-!*&&0#&!,%*&*';!:*(7!(7*&!)#,&0%#8(!

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f-#,&#!&##!F$$#'1*K!?!/.%!(7#!&0))!,%5!&(,(*(*+&!,+%.&&!(7#!&,)$-#6!:7*+7!,%#!*'!-*'#!:*(7!(7.&#!*'!.(7#%!&(01*#&!&0+7!,&!Y,B*&!,'1!L,%*)!C?=>aG8!F$$#'1*K!?!,-&.!&7.:&!(7#!+.%%#-,(*.'!),(%*K!/.%!(7#!B,%*,2-#&!,+%.&&!(7#!&,)$-#8!"#!/*'1!(7,(!'.'#!./!(7#!B,%*,2-#&!,%#!7*;7-5!+.%%#-,(#1!#K+#$(!/.%!(7#!+.%%#-,(*.'!2#(:##'!),',;#)#'(!#//*+*#'+5!CQEX9WeQG!,'1!P#%'#%!W'1#K!CPWeYIjG!,(!@=8VRa6!:7*+7!*&!).1#%,(#-5!'#;,(B#-5!+.%%#-,(#1!Cf#,%&.'4&!+.%%#-,(*.'!+.#//*+*#'(G!C&###![*'13-#!#(!,-!C?==AGG8!e.'#!./!(7#!.(7#%!+.%%#-,(*.'&!#K+##1!=8S8!!

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3&"85)H()U57%5##1.-)%5#08$#)6.%)%5$0%-).-)&:5%&75)&##5$#)JUS!!M)&-/)%5$0%-).-)&:5%&75)5V01$=)
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W.S,-›&O9›&L,0"8.-.1›&L9C9&,()&A9&C.$0,)$Q&D[@<IF›&\N"$1&J,2-"6`-4)$(#.,0&R$;40,#."(&X$,Qa&G+.)$(2$&3-"8&,&bY&`"0.2S&GU*$-.8$(#\›&]"4-(,0&"3&J"($S›&L-$).#&,()&P,(Q.(;›&O4**0$8$(#&#"&Z"09&Ic›&!"9&<›&K$/-4,-S9&

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N,+.1&G&`>&X.,)T$&'&,()&`.;;"##&R&D[@<BF>&eW11$11.(;&#5$&8,2-"$2"("8.2&.8*,2#&"3&,0#$-(,#.+$&8,2-"*-4)$(#.,0&*"0.2.$1g>&G2"("8.2&J")$00.(;>&E@>&I@_6I[E&

N,+.1>&G9`9>&Y,-.8>&N9&,()&!"$0>&N9&D[@[@F>&eK.(,(2.,0&O#,/.0.#S&,()&J,2-"*-4)$(#.,0&`"0.2S‰W-$&#5$-$&2-"116/"-)$-&$33$2#1agg>&8.8$">&P-4($0&b(.+$-1.#S&

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J.00$->&O9& J 9>&n&!"40,1>&W9& j 9&D<BB_F>&e`"-#3"0."&8.U&,()&0,-;$6/,(Q&*-"3.#,/.0.#S&.(&#5$&bOWg>&W**0.$)&G2"("8.21>&

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