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>, %, &!?' (9. &8(31!=, 8!, 08#!, 00#-, 3. \$!UN@WA!, ' ' 6, 001!3#!. 83, /0(84!, ' \$!86: : #&3!34. ! [. ' 3. &!<#&! \. 8(0(. ' -17!=4(-4!(8!, !' . 3=#&(')!), ' \$!\$, 3, !-#00, /#&, 3(9. !- . ' 3. &!34, 3!: 	(\$. 8!8. &9(-. 7!#63&. , -47! , ' \$!. \$6-, 3(#' !3#!(%: 	. !%603[(\$8, 83. &!&. 8(0(. ' -1!(' !34. !" 60<![#, 83!&.)(#' @!

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D. !, 08#!&. -. (9. \$!#' .]3(% . !\$ (8, 83. &] &. 0, 3. \$!<6' \$(')7!8: . -(<(-, 0017!UW@^ A!(' !_, 36&, 0!M(8, 83. &! \. -#9. &1!X6' \$8!3#!&. (%/6&8. !>, %, &!?' (9. &8(31!<#&!-#838!&. 0, 3. \$!3#!K&#: (-, 0!B3#&%!+% . 0\$, !, ' \$! , 08#!3#!, \$\$&. 88!<, -(0(31!\$, %,) . !, ' \$!: &. 9. ' 3(#' !<#&%!<636&. !83#&%8@!

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K4(8!: &. 8. ' 38!68!=(34!8(' (<(-, ' 3!#: : #&36' (3(. 8@!X(&837!+, %!9. &1!: 0. , 8. \$!3#!3. 001#6!34, 3!>, %, &! ?' (9. &8(31!=(00!: 	(\$. !, !Y` !. E6(31!&, (8. !: ##0!<#&!<, -6031!, ' \$!, !Y` !-#83!#<10(9(')!&, (8. !<#&!83, <<@ 5#6!=(00!). 3!, !0. 33. &!<#&%!J\!#630(' (')!34(8!(' <#&% , 3(#' @

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>, %, &!?' (9. &8(31!=(00!, 08#!, \$#: 3!, ' !UPPa4#6&!%(' (%6%!=,) . !<#&!#6&!<600]3(% . !. %: 0#1. . 87! =4(-4!, 00#=8!68!3#!&, (8. !34. !F<0##&G!<#&!<600!3(% . !=,) . 8!, 8! =. !-# ' 3(' 6. !3#!=#& ;!3#!. ' 4, ' - . ! -#%: . ' 8, 3(#' !, ' \$!&. =, &\$8!<#&! , 00@!

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X(' , 0017! =. !=(00!/. !%, ;(')!(' -&. , 8. \$!(' 9. 83%. ' 38!(' !#6&!X, -6031!, ' \$!B3, <<!K6(3(#' !, 88(83, ' - . ! : &#)&, %@!

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X(' ,0017!,! : #&3(#' !#<!#6&!<6' \$(')!(' -&. , 8. !=(00!,00#=#!>, % ,&!?' (9. &8(31!3#!-&. , 3. !, !83&, 3.)(-!
 (' 9. 83%. ' 3!<6' \$@+' !#&\$. &!<#&!34. !6' (9. &8(31!3#!/. -#%. !%#&. !-#%: . 3(3(9. !(' !34. !83, 3. !, ' \$!34. !
 ' , 3(#' 7! =. !' . . \$!34. !- , 84!<0. 2/(0(31!3#!8. 0. -3(9. 01!(' 9. 83!(' !' . =!\$.)&. . !: &#)&, %8!<#&! =4(-4!34. &. !
 (8!, !)&#=(')!%, &; . 3@+!4, 9. !. 2: . &(. ' - !(' !34(8!, &. , !, ' \$!<' \$!(3!3#!/. !, !=(' ' (')!83&, 3.)!<#&!
 , - , \$. %(-!)&# =34@B#% . !, - , \$. %(-! : &#)&, %8!4, 9. !. ' #&%#68!83, &3]6: !-#838!/63! =(34(' !!683!, !<. =!
 1. , &8!-, ' !/&(')!(' !36(3(#' !&. 9. ' 6. 8!34, 3!. 2-. . \$!(' 83&6-3(#' , 0!, ' \$!#34. &!. 2: . ' 8. 8@A, ; (')!
 &. (%/6&8. % . ' 38!3#!34. !83&, 3.)(-!(' 9. 83%. ' 3!<6' \$!<#%#!34. !' . 3!&. 9. ' 6. 8!#<!34. 8. !' . =. &!
 : &#)&, %8! =(00!, 00# =!68!3#!& . : 0. ' (84!34. !<6' \$!, ' \$!(' 9. 83!(' !34. !' . 23!3, &) . 3. \$!, &. , !<#&!
)&# =34@_#3. 7!34(8!(8!683!# ' . !: #88(/0. !68. !#<!, !83&, 3.)(-!(' 9. 83%. ' 3!<6' \$!<#&!>, % ,&!?' (9. &8(31@

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+ -&. , 8. \$!. ' �%. ' 37!/ #34!# ' !-, %: 68!, ' \$!# ' 0(' . 7!(8!-&6-(, 0!3#!#6&!-# ' 3(' 6. \$!86--. 88@+!/ . 0(9. !
 , \$\$(3(#' , 0!836\$. ' 38! =(00!-4#8. !>, % ,&!?' (9. &8(31!, 8! =. !%, &; . 3!-6&&. ' 3!, ' \$!\$. 9. 0#: !' . =!, ' \$!
 (' ' #9, 3(9. !\$.)&. . !: &#)&, %8@D. !%683!, 08#!<#-68!# ' !34. !86--. 88!#<!836\$. ' 38! =4#!, &. !, 0&. , \$1!(' !
 #6&!-0, 88&##%87!, 8!34. (&!-# ' 3(' 6. \$!. ' �%. ' 3! =(00!/. !; . 1!3#!#6&!<636&. !<(8-, 0!#63-#%. 8@!

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b: : #&36' (3. 8!3#!-# ' ' . -3!836\$. ' 38! =(34!, - , \$. %(-!8. &9(-. 8!, ' \$!4() 4!(%: , -3! : &, -3(-. 8!, &. !
 , 9, (0, /0. 7!, ' \$!34. !, 88(83, ' - . !#<!#6&!<, -603!!, ' \$!83, <<!=00!/. !9. &1!(%: #&3, ' 3!, 8! =. !: &#%#3. !
 836\$. ' 3!: , &3(-: , 3(#' !(' !34. 8. !8. &9(-. 8@

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C034#6) 4!34(8!(8!%1!<(&83!, \$ \$&. 88!3#!1#6!, 8!1#6&! ' . =! : &. 8(\$. ' 37!+!\$. -(\$. \$!3#!83, &3! =(34!34. !
 /6\$) . 3! ' . =8!/. - , 68. !(3!8, 18!, !0#3!, /#63!, 00!#<1#6@5#6!-0. , &0!14, 9. !34. !\$&(9. !, ' \$!\$. \$(-, 3(#' !3#!
 =#& !-#00. -3(9. 01!(' !&. 8: # ' 8. !3#!, 00!%, ' ' . &!#<!-4, 00. ') . 8@5#6H9. !8. . ' !34. 8. !-4, 00. ') . 8!34) 47!
 , ' \$! ' # =!1#6&! : . &8(83. ' - . !!(8!83, &3(')!3#!: , 1!#<<@!+3H8! =(34!34, 3!8#0(\$!<#6' \$, 3(#' !(' !: 0, - . !34, 3!+H\$!
 0(; . !3#!3. 00!1#6!, /#63!%1! ' 6%/ . &!# ' . !: &#&(31!<#&!>, % ,&!?' (9. &8(31@K4. !<, -3!(87!(3!4, 8!/. . ' !%1!
 ' 6%/ . &!# ' . !: &#&(31!(' !. 9. &1!, \$%(' (83&, 3(9. !: #8(3(#' !+!4, 9. !4. 0\$@+ ' !84#&37!+! =, ' 3!68!3#! =#& ;!
 3#) . 34. &!3#!6' \$. &83, ' \$7!, : : &. -(, 3. 7!, ' \$!(%: 	. !#6&! [, %: 68! [6036&. @!

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B#7! =4, 3!\$#!+!% . , ' !/1! [, %: 68! [6036&. d

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_. 237!+= (00! = #&!; !4, &\$!3#!<#83. &! , ' !#: . ' !. ' 9(&# ' % . ' 3! = 4. & . !(' \$(9(\$6, 08!<. . 0! - #%<#&3, /0. !, 8; (')!
 E6. 83(#' 8!, /#63! = 4, 3!34. 1!, & !\$(#')!, ' \$! = 41@D. !\$(#' H3!' . . \$!3#!/. !, <&, (\$!#<! : #' 3. \$!E6. 83(#' 8@
 K4. 1! - #%. !<#&%!, !: 0, -. !#<!, 634. ' 3(-! 2: . &(' - . 7!, ' \$!34. 1!4. 0: !68!3#16' \$. &83, ' \$!, 00!<, -. 38!#<!, !
 : &#/0. %!, ' \$!3#!, 9#(\$!%, ; (')!, 886%: 3(#' 8@C8! = . !/. - #%. !%#&. ! - #%<#&3, /0. !, 8; (')!E6. 83(#' 87!
 = . !, 08#!' . . \$!3#!/. !&. , \$!13#! - #%. !3#) . 34. &!3#!\$(8-688!4# = !8#%. 34(')!%)43!/. !\$(#' . !
 \$(<<. &. ' 301 !+8: . ' \$!, !0#3!#<!%1!3(% . !: 600(')!(' \$(9(\$6, 08!3#) . 34. &!(' 3#! - X] <6' - 3('# , !03. , %8@
 K4, 3! = , !!#6&!\$. -(8(#' 8! = (00!3, ; . !(' 3#!, --#6' 3!34. !6' (9. &8(3!!, 8!, ! = 4#0. 7!' #3!683!#' . !: , &3(-60, &
 , &. , @C' \$!(<! = . !: #0!#6&! 2: . &3(8. 7! = . !-, ' !, 08#!: . -3!34. !%#83!9, 06, /0. !&. 8#6&- . !# ' !-, %: 687!
 #6&!3(% . @

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D. !, 08#!' . . \$!3#!34(' ; !\$. 0(/. &, 3. 01!, /#63! = 4(-4!, -3(#' 8! = . !3, ; . !' # = ! = (00!0. , \$!3#!34. !0#')]3. &%!
 86--. 88!#<!34. !6' (9. &8(3!@D4. 34. &! = . !0(; . !3!#&! #37!: 6/0(-!6' (9. &8(3(8!, &. !/6&. , 6-&, -(87!, ' \$!
 <#&%!34. !836\$. ' 3!: #' 3!#<!9(. = 7!34, 3!<, -3!-, ' !%, ; . !68!8. . %!3##!&!)(\$!, ' \$!6' <. . 0(')@S63!
 6' (9. &8(3(8!, 08#!4, 9. !6' (E6. 7! - #00. -3(9. !: . &8#', 0(3(8!34, 3!, &. !(' <06. ' - . \$!/1!34. !836\$. ' 3!/#\$17!
 34. !83, <<7!34. !<, -60317!, ' \$!34. !, \$%(' (83&, 3(#' @C8! = (34!, ' 1!: . &8#', 0(317!, !6' (9. &8(3!H8! - #00. -3(9. !
 : . &8#', 0(3!\$#. 8!. 9#09. !#9. &!3(% . @K = . ' 317!<#&317!8(231!1. , &8!,)#7!>, %, &!?' (9. &8(3! = , 8!
 8#%. 34(')!\$(<<. &. ' 3!34, ' !3!(8!3#\$, 1@C' \$!(' !34. !. ' \$7!>, %, &! = (00!#630(9. !68!, 00@D4, 3! = . !\$(#!3#\$, 1!
 = (00!, <<. -3!>, %, &!?' (9. &8(3!H8!(\$. ' 3(31!(' !34. !<636&. @>. 3H8! #3!<, 9#&!84#&3!3. &%!(' \$(9(\$6, 0! = (' 8!, 3!
 34. ! - #83!#<!0#')!3. &%!(' 83(363(#' , 0!86--. 88@>. 3H8!\$#!34(')8!(' !86-4!, ! = , 1!34, 3!#' . !\$, 1! = 4. ' ! = . !
 0##; !/, -; !, 3!>, %, &!?' (9. &8(3! = . !-, ' !80. . : ! = . 00!, ' \$!/ . !: \$!; ' # = (')! = . !\$(#!#6&!; , &3@

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J() 4!8-4##0!8. ' (#&8!4. , \$. \$!3#!-#00.) . !%, 1!/. !0##; (')!<#&=, &\$!3#!%#\$. &' !, % . ' (3(. 87!
-#%: . 3(3(9. !8: #&387!, ' \$!' . =!&. . \$%#8!34, 3!-#%. !=(34!34. !-#00.) . !. 2: . &(' - . e!, 3!34, 3!,) . 7!84#&3!
3. &%!&. =, &\$8!, &. !, 0=, 18!; , &, %#6' 3@S63!34. &. !(!# ' !0# ')!3. &%!. ' \$. , 9#&!34, 3!=(00!- , 68. !34. %!
3#!(' 9. 83!1. , &8!#<!34. (&!0(9. 87!, ' \$!#%!' #3!3, 0; (')!, /#63!34. !/, -4. 0#&!\$.)&. . !!(38. 0-!#&!34. !<636&. !
!#/#8. -6&(3!134, 3!-#%. 8!=(34!(3@#%!3, 0; (')!, /#63!34. !-# ' -&. 3. !. 2: . &(' - . !#<!4, 9(')!, !0.) (3(% , 3. !
, -, \$. %(-!(' 3. &. 83@!

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<!#6!34(' ;!/, -; !3#!. , &0! , \$6034##\$7!. 9. &1# ' !(' !34(8!&##%!= (00!&. % . %/ . &!34, 3!%##. ' 3!=4. ' !, !
0(' !#<!8#<3=, &. !-#\$. !<(883!%, \$. !8. ' 8. !3#!1#67!#&! =4. ' !1#6!<(883!8%. 00. \$!, !9. &1#0\$!/#; !(' !, !
&, &. !/#; 8!&##%7!#&! =4. ' !1#6!0##; . \$!34) 4!, !%(--#; . !, ' \$!8#%. 34(')!9. &!186&: &(8(')!
4, : : . ' . \$!/. 3= . . ' !34. !3=#!80(\$. 8@

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K4. 8. !, &. !34. !%#%. ' 38!34, 3!-4, ') . \$!. 9. &134(')!<#&!68!, ' \$!34, 3!\$. !68!3#!: 6&86. !, !- . &3, (' !
-#6&8. !#<!836\$!&. 0. ' 30. 88017!=(34#63!, ' !1#638(\$. !. ' -#6&,) . % . ' 3@K4. 8. !%#%. ' 38!, &. !8#!
: #3. ' 3!/. - , 68. !34. !1<#&%!, !9(3, 0!; , &3!#<!#6&!(\$. ' 3(3!@D. !, -36, 00!18, 17!F#%!, !4(83#&(, ' 7!#%!, !
/(#0#)(837!#%!, !8#-(#0#)(837G!#&7!<#&!% . 7!FJ(7!#%R, (% . !K, 10#&7!, ' \$!#%!, !: 418-(83@!D4, 3!=#60\$!(3!
% . , ' !<!34. !>, % , &!?' (9. &8(3!1<, -6031!<: &. 8. ' 3. \$!(38. 0-!3#!: : . -3(9. !836\$. ' 38!(' !34(8! =, 17! #3!, 8!
: &#<. 88#&87!/63!, 8!; . #. 0. !=4#7!1. , &8!,) #7!86--6%/ . \$!3#!34. (&!# = ' !-6&(#8(3!1, ' \$!)#3!4##; . \$!# ' !
, ' !, -, \$. %(-!\$(8-(0(' . d!+ 83. , \$!#<F: &#<. 88(')G! =4, 3! = . !, 0&. , \$1!; ' # = !(' !#6&!-0, 88&##%87! =4, 3!
=#60\$!(3!% . , ' !<! = . !8, (\$!3#!#6&!836\$. ' 387!FB(3!\$# = ' !/. 8(\$. !% . !, ' \$!0. 3#8!<) 6&. !34(8!#63!
3#) . 34. &@!

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<! = . !- , ' !#-68!#6&!# ']- , %: 68!&. -&6(3%. ' 3!. 9. ' 38!# ' !, - , \$. %(-87!>, % , &!?' (9. &8(31!D>>!83, ' \$!
#63@!/. 0(. 9. !34, 37!, ' \$!#!4, 9. !. 2: . &(' - . \$!(3@!>, % , &!?' (9. &8(31!4, 8!F[, &\$(' , 0!S##G!, ' \$!
F>, % , &\$()&, 8G!-#%(')!6: 7!, ' \$!: #88(/0!1, !34(&\$!&. -&6(3%. ' 3!. 9. ' 3!34(8!1. , &@!K4. 8. !. 9. ' 38!=(00!/. !
34. !%#83! (%: #&3, ' 3!&. -&6(3%. ' 3!, -3(9(3(. 8! = . !\$#@C ' \$!, 3!34. !- . ' 3. &!#<!34. 8. !. 9. ' 38!=(00!/. !, ' !
C-, \$. %(-!B4# = - , 8. ! =4. &. !: #3. ' 3(, 0!836\$. ' 38!, ' \$!34. (&!; , &. ' 38!-, ' !% . . 3!=(34!<, -6031!, ' \$!
-6&&. ' 3!836\$. ' 38!\$. %# ' 83&, 3(')! =4, 3#8!-##0!, /#63!34. (&!\$(8-(0(' . 87! =4. &. !34. !1-, ' !-, 3-4!, !
)0(%: 8. !#<!-6&(#8(31!(' !, -3(# ' 7!, ' \$!, ' !(\$. , !#<! =4. &. !, !\$.)&. . !(' !34. (&!\$(8-(0(' . !-, ' !0. , \$!34. %!(' !
0<. @K4(8!8' H3!l683!, /#63!. 2: 0, (')!34. !&. E6(&. % . ' 38!#<!. , -4!, -, \$. %(-!; #&) &, %!3#!<636&. !
%, !#&8@+3#8!, /#63!-# ' 9(' -(')!; : . -3(9. !836\$. ' 38!34, 3!(' !-#00.) . 7!34. !1=(00!4, 9. !3(% . !, ' \$!
#: : #&36' (31!3#!<#00# =!34. (&!-6&(#8(31@K4. !C-, \$. %(-!B4# = - , 8. !(' !. , -4!#<!34. 8. !. 9. ' 38!-, ' !, ' \$!
84#60\$!&. : &. 8. ' 3!34. !, /8#063. !/. 83!34, 3!>, % , &!?' (9. &8(31!4, 8!3#!#<<. 87!, ' \$!=(00!/. -#%. !34. !
=(' \$# = !(' 3#!34. !4. , &3!#<!#6&!6' (9. &8(31@

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B#!<(8837! = . !%683!/6(0\$!(3@S63! =4, 3!=(00!%#3(9, 3. !: : . -3(9. !836\$. ' 38!3#!9(8(3!-, %: 68!, ' \$!
, 33. ' \$!# ' !#<!34. 8. !. 9. ' 38d!A!1!)# , 0!(8!3#!(' -&. , 8. !34. !' 6%/ . &!#<!: #3. ' 3(, 0!836\$. ' 38!9(8(3! ')!
>, % , &!?' (9. &8(31!1! , 3!0, 83!YO` !34(8!1. , &@+ ' !#&\$. &!3#!\$#!34, 37! = . !=(00! ' . \$!3#!&. , -4!#63!3#!#6&!
-# ' 3, -38!(' !34. !F!34) 4!PN!8-4##0!8183. %!, ' \$!0. 3!34. %!; ' # =!34. 8. !, &. !34. !; . !1. 9. ' 38!34. (&!
836\$. ' 38! ' . \$!3#!. 2: . &(' - . @D. !' . . \$!3#!(' 9(3. !34. !4) 4!8-4##0!-#6' 8. 0#&8!3#!, 33. ' \$!, 8!g+T8@
C ' \$!34. ' 7!, <3. &!34. !<(883!3&, ' 8<#&% , 3(9. !. 9. ' 37! =#&\$!=(00!). 3!#63@R6' (#&8!, ' \$!8. ' (#&8!=(00!3, 0; !3#!
34. (&!&(' \$87!-#6' 8. 0#&8!=(00!3, 0; !3#!34. (&!836\$. ' 387!, ' \$!, 33. ' \$, ' - . !=(00!(' -&. , 8. !. , -4!3(% . @!

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T. &8# ' , 007!+!-, ' H3! =, (3!<#&!34. 8. !. 9. ' 38@K4(8!8! =4. &. !+!=(00!4, 9. !34. !#: : #&36' (31!3#!% . . 3!. , -4!

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1#6!#' !1#6&!#=' !36&<!, ' \$!0. , &' !, /#63!1#6&!&. 8. , &-4!, ' \$!4#=#!1#6!. '),). !=(34!836\$. ' 38@5#6!

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C!0(330. !<, &34. &!#63!(8!J#%. -#%(')! = 4(-4! = (00!/ . !_#9@V]PY! = (34!34. !: , &, \$. 7!X, ' !X. 83!, ' \$!
34. !), %, !#' !34. !PY34@K4(8!1. , &H8!34. %. !!(8![, &\$(' , 0: , 0##Q, @

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<!1#6!4, 9. ' H3!1. 3!&. -. (9. \$!, ![bg+M!9, --(' . 7!1#6H00!4, 9. !, ' !#: : #&36' (31!3#!). 3!#' . !3#\$, 1@5#6H00!
<' \$!34. !9, --(' . !-0(' (-!\$# = ' !3#!1#6&!0. <3!, 8!1#6!0. , 9. !(' !34. !g(8(3#&8!>#-; . &!\\##%!]!L683!<#00# =!
34. !8() ' 8@

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