

1(:%\$!*2%!FGF"VMF"\FN!F), , %&![/]#.%:#'!S&/'&(, !/11)&&-'!6&/, !G)#%!Q*2!;!G)#%!<_ *2!!E9<!.*)\$%#*!.!(%&!
1)&&%#:A!7(&*-1-7(*-#'!-#!*2%!7&/'&(, C!L9!=2/!=%%&!(\$, -**%\$!*2&/)'2!*2%!FMFS!3<Q`4?!!
K#!*2%!W(:!=2%#!*2%!F7(&*(#!M(. *!F-\$!S&/, -.%!7-:/!*7&/'&(, , -#'!:(#12%\$!:)#12*- , %!=/ &>.2/7.C!(!**%#\$(#1%!
(\$#!.)77/&*!=(!, #- , (:?!+6*%&!*2%!1//&\$-#(*/&!(#\$!+...*(#!N-&%1*/&!, %*!=-*2!*2%!1/)#.%:#'!.*(66!/6!%(12!/6!*2%!
.12//. !12/.%#!6/&!*2%!7-:/!*7&/'&(, , -#'!3+#\$&%=!\-:!G(, %.!0-1>C!Y%D(!Z)#%(C!F-:@%&![&%%>C!O(>])&/@%C!P?[?!
O@%&&6.*4C!*2%&&!=(.!(!\$&(, (*-1!-#1&%(.%!#!(!**%#\$(#1%!!(*!*2%!=/ &>.2/7.!(#\$!).)77/&*!6&/, !*2%.12//.!(66!(*!^!/) *!
/6!*2%!Q!.12//.?!P/&>.2/7.!=%%&!.2-6*%\$!6&/, !:)#12*- , %*/!Q*2!7%&-/\$C!=2%&&!.*)\$%#*!.!=2/!=%%&!-#*%&%. *\$!/= /):\$!
&%1%-@%!(!7(..!/*!(**%#?!+.(!&%.):*C!=/ &>.2/7!(*%#\$(#1%!=%#*!6&/, !(#!(@%&(' %!/6!E8!.*)\$%#*.C*/!(#!(@%&(' %!/6!
L8!.*)\$%#*!.!7%&!=/ &>.2/7?!!

] -@%#11)&&%#*(..%., %#*!&%.):* .C!=2(*!3-6!(#A4!12(#' %!.!=-:!*2!\$%7(&*, %#*!1/#.-\$%&!, (>-#'!6/&!*2%!

M66%1*~@%1!/, ,)#-1(*-/#!%, D/\$-%!*2%(D:-*A!*/!&%1%-@%1-#6/&, (*-/#!%X12(#' %!
-\$%(.C!7&%.%#*!-#6/&, (*-/#C!(#\$!1/#@%A!, %.. (' %!-#1=(A.!2(*!(&%!%66%1*~@%!(#\$!(77&/7&-(*%*/!*2%!.*) (*-/#!(#\$!
)\$-%#1%?!!

J):*-1):*)&(:!1/, 7%*%#1%!(#\$!(1*~@%1!-1%# .2-7!&%6%&*/!
)#%\$&.*(#\$-#' !(\$\$(77&%1-(*-#' !2), (#!\$-66%&%#1%!(.!=%::!(.!7/..*~@%: A!1/#*&D)*-#' !*/!*2%1!/, ,)#-A?!!
52%.%!.>:..!&%6%&*/!*2%1(7(1*A*/!, (#(' %!/#%j.!(66(-&!D/*2!#-.\$%!(#\$!
)\$-%#1%?!!)#-@%&.-*A?!!

52%.%!.>:..!&%6%&*/!*2%(D:-*A*/!, /D:-!%' &/)7.!(&/)#\$.!2(&%\$!
-#*%&%.*!(.!=%::!(.!\$%, /#.*&(*%!(#\$!).)*(-#!, %(#-# '6):!&%:(*-/#.2-7.?!
\\%(*2A!:-@-#' !&%6%&.*!/, (>-#' !-#6/&, %\$!\$%1-.-/#.!(#\$!(1*~#' !/#!2/.%!\$%1-.-/#.!/%#2(#1%!
7%&./#(:!(#\$!1!/, ,)#-A!2%(*2?!

N-@.-/#!0%(&#-#' !] /(:V'' #\$\$\$&' &(\$)(%0%(&#-#' !] /(:![/##%1*~/#a!M(12!7&' &(, !(\$!%@%#*!(77:-%\$!1&*-1(:!
2-#>-#' !1/, 7/#%#!.*/!2%:7!.*)\$%#*!.!)\$%\$&.*(#\$*2%-&!12/-1%!(#\$!, (>%!\$%1-.-/#.!/#!2%-&!, (k/&C!.12//:!'!/*%#\$\$C!
(#\$!)#%\$&.*(#\$*2%-&!&% .7/#.-D:-*-%.?!MX(, 7%.!/6!*2-!-#1:)\$!S&%@-%=IN(A!=2%&%!.*)\$%#*!.2(\$!2%!/77/&*)#-A!*/!
12//.%!=2-12!1/)&.%!*2%A!=(#*%\$*/!(C)\$-C!./!2(*!2%A!, (A!'*(#!#-.' 2*!*/=2(*!2%A!=/):\$!7/*%#*-(A!D%!
)\$A-# '?!#!((\$\$-*/#C!(*)2%!*%\$!/6!.%@%&(:!>%A!=/&>.2/7.C!(H(2//*=(!)*)-1%\$!*/!' ()' %!.*)\$%#*j.!)#%\$&.*(#\$-#' !
/6!*2%!, (*%&-(:C!\$%(\$:-#%.C!(#\$!(. /!(.!(/*//:!6/&!2%17&%.%#*!.*/!.%!=2(*17/-#*!.#%\$%\$*/!D!%, 72(-1%\$!/&!
%X7:(-#%\$!\$-66%&%#*A?!!

P(!*2-.(11/, 7:-.2, %#*!(!' /(:!6&/, !<UEQ;<UERh! Vg/!
! !

N-@.-/#!0%(&#-#' !] /(:V'' #\$\$\$&' &(\$)(%0%(&#-#' !] /(:![/##%1*~/#a!H(2//*=(!)*)-1%\$!(*!2%!*%\$!/6!.%@%&(:!
>%A!=/&>.2/7.!*/!' ()' %!.*)\$%#*j.!)#%\$&.*(#\$-#' !/6!*2%!, (*%&-(:!7&%.%#*%\$?H(2//*!.!(, /D:-%!' (, %=2%&%!
)\$%#*!.!(&%!(.>%\$!B)%.*-/#.!/#!2%!=/&>.2/7!*7-1C!-#1*2-!1(.!%FGF" !+\$, -.-/#!F%B)-&%, %#*!.(\$!\$%(\$:-#%.C!*2%#!
(&%!.2/=#!2%!:~@%1&%.)*.!/6!*2%!' &/)7j.!(#.=%&!*%/!(12!B)%.*-/#!/#!2%!.1&%%#?!52-!=(.!(. /!(!) .%6):!//:!6/&!2%!
7&%.%#*%&C!' -@-#' !2%, !*2%!/77/&*)#-A!*/!.%!*2(*!2%!, (*%&-(:!(.11/, 7&%2%#\$\$C!/&!2(*!#%\$%\$!(\$\$-*/#(:!
, 72(-.!/&!%X7:(#(*-/#?!J (#A!.)\$%#*!.!(*%\$*/#!2%!=/&>.2/7!%@(:) (*-/#.!2(*!2%A!#k/A\$!(#\$!D%#%6-*\$%\$!6&/, !
*2-.!6/&, !/6!&%@-%=?!!

P(!*2-.(11/, 7:-.2, %#*!(!' /(:!6&/, !<UEQ;<UERh! Vg/!
!

1/::%'%!12%\$):%&6%1*\$!/#!*2%-&!, /*-@(*-/#!6/&!7)&.)-#!!*2%-&!\$%'&%%C!(#\$!.7/>%= -*2!1)&&#*!FGF''!.*)\$%#*!.!
(D/)*!*2%-&!%X7%&-%#1%.?!!52&/)'2!*2%!.) , , %&!7&/' &(, , -#'C!.*)\$%#*!.!2(\$!*2%!/77/&*)#-*A!*/!.7%(>!= -*2!
&%7&%.%#*(*-@%.!6&/, !*2%-&!F*)\$%#*!F)11%.![%#*%&C!:%(&#!(D/)*!&%../)&1%.!6/&! , (k/&!(#\$!1 (&%&!%X7:/&(*-/#C!(#\$!
D%1(, %!6(, -:(&!= -*2!>%A!/66-1%.?!
P(!*2-.(11/, 7:-.2, %#!(!' /(:!6&/, !<UEQ;



P(!.-**-#!\$/#=#!#!(m1:(.n&//, !D%1().%Kj@%#!#%@%&!6%:*!2%!%#@-#/#, %#!!/6!
1/::%'%!.*)\$%#*?!OeMf+00!fM+00Y!0OeMN!K5iiii

J A!6(@/&-*%!7(&*!(.!*2%!1:(.!D%1().%K!:%(&#%\$. /!,)12C!(#\$!%#' ('%\$!=-*2!
*2%!1:(.?!O@%& (::!K!*2/) ' 2*!*2%!*&-7!=(.!6)#!(\$!K!6%:*!:->%K!' (-#%\$!%X7%&-%#1%!/#!2/=!1/::%'%!= /&> .?

