

!"#\$%&'()*+,-.!'
!
"\$%&'(#)!*+!,*-.*/01!! ! ! ! \$23!45678897:;84!
<*=*)!>*/#0#!! ! ! ! ! #(%./3!#@./.#'A=-2*&BC-A#D@! !
8E5!F-G@.))!H%//! ! !
5:;>*(*)I#%/2!JK#)#!
>2#=#)@!H./L!FJ!;9:46!
!
/%. * - 0 1 #' 2 1 & 1 '<*&)!M*K#(C#&!NL!5N880!-'.P#)=2.\$L!QA,AJA!
,
/ - *\$&\$ - 0 *'
!
R&*+#==*&!*+!,*-.*/01!<*=*)!>*/#0#L!S@/1!9;;57\$&#=#)'A!"#\$%&'(#)!>2%.&L!S@/1!9;;87
9;;TA!"&#-'*&!*+!G&%D@%#!,'@D.#=L!S@/1!9;557S%)@%&1!9;5EA!
!
J==*-.%#!U#//*IL!V#//@=!W)=.'@'#A!9;9;7\$&#=#)'A!
!
F%'.)%!,A!H*&)#&! ".='.)0@.=2#D!X.=.'.)O!R&*+#==*&L!Y%D-./.+#!W)=.'@#!+*&!JDK%)-#D!
, '@D.#=L!H%&K%&D!Q).K#&=. '1L!9;5:79;58A!
!
X.=.'.)O!R&*+#==*&L!Z*(#)L!G#)D#&!%)D!,#[@%/.'1L!H%&K%&D!Q).K#&=. '1L!9;5EA!
!
X.=.'.)O!R&*+#==*&L!\%/#!,-2**/!*+!]K.&*) (#)!%)D!U*#=#'&1L!9;59L!,\$&.)0!9;5;A!
!

!
V#%-2.)0!U#//* I L!Q).K#&=. '1!*+! F %==%-2@=#' '=L!5N6476NA!

,

% 2 '' + 1 & \$ - 0'

!

R2A " AL!] -*)* (.- =L!Q).K#&=. '1!*+! F %==%-2@=#' '=L!5NT9A!!
" .=#&'%!.*)3!d

F %- J &'2@&!U*@)D%'.*)L!9;5579;5EL!+*&!\$&*?#-'!*)!>*))#- '#D!>*)=@ ('\$.*)L!i948L; ; ; ; A!
!
Y#=#%&-2!W)-#)' .K#!G&%)'L!<*= '*)!>*/#0#L!9;5;L!+*&!\$&*?#-'!*)! ,@='%.)%C/#!
>*)=@ ('\$.*)L!i58L; ; ; ; A!
!
V2#!R2./%)'2&*\$. -!>*/%C*%&' .K#!L!W)-A!5NNN79; ; ; NL!+*&!\$&*?#-'!*)!'2#!>* ((#&-.%/.P%'.*)!*+!
>2./D2**DL!i9;L; ; ; ; A!
!
F #&-c!U (./!U@)DL!5NN:7N8L!+*&!\$&*?#-'!*)! J (#&.-%)!>*)=@ (#&. = (L!i9;L; ; ; ; A!
!
G/*C%/!, '# I &D=2.\$!W). '%'. K#!R# I !>2%&.'%C/#!V&@='L!5NN:7N8L!+*&!\$&*?#-'!*)! J (#&.-%)!
>*)=@ (#&. = (L!i98L; ; ; ; A!
!
>@&&.-@/@ (!W)) *K%'.*)!U@)DL!H%&K%&D!Q). K#&=. '1L!5NNEA!
!
J (#&.-%)!] [\$&#=#!U@)D!+*&!>@&&.-@/%&! " #K#/*\$ (#)!'.)!] '2.-=L!H%&K%&D!Q). K#&=. '1L!5NN; A!
!
] -*)* (.-!R*/.-1!W)='. '@'#!5NTNA!
!
Z %&C@&0!U@)DL!H%&K%&D!Q). K#&=. '1L!5NT6A!
!
H%&K%&D!W)='. '@'#!+*&!] -*)* (.-!Y#=#%&-2L!H%&K%&D!Q). K#&=. '1L!5NT4A!
!
>/%&c!U@)DL!H%&K%&D!Q). K#&=. '1L!5NT875NTNL!5NN5L!5NNEA!
!
!
!
(- - 6 *'
!
!

I - . %& JO?3! & F \$ \$A8# ' \$&1)"\$K6 ' O/*)/*&3-1.#)-/&"-%&B.6)/ *&\$4 <1-? \$ \$&3#%\$33+&)4 <%- ;)/*&
@\$!KH\$)/*&O/B&@-%A)/ *&34O%#%+!aM \ 3!H%&\$#&!<@=.)#==bL!+*&'2-* (.)O!S@)#!9;98A!
S%\$%)#=#!#D.'.*)!aV*1*! g #.P%.!R@C/.=2#&=bA!!

! "#\$%&' \$& () *L&' - @&# ' \$&3 ' O%)/ *&\$6- / - 4 ?&* - #&')M06A\$B&O/B&' - @&#-&@)/&#&H06A!a<#&c#/#1L!
> J 3!Q). K#&=. '1!*+!>%/+*&). %!R&#=#bL!9;9; A!R%\$#&C%-c!#D.'.*)!9;95A!

.)!9 '\$& (%\$\$/k=6-/-4?d5\$OB\$L&G\$6#.%\$3k)/k=6-1-*)60lk=6-/-4)63kO/B&N.3#O)/OH)l)#?+k
#DAL!, '%).=/%K!] A!, 2 (#/#K!a, \$&.)O#&bl!9;54A!
!
>l\$/)#.B\$L&9 '\$&C\$@k=6-/-4)63k-"k9%. \$&F \$OI# 'k!aV2#!R#)O@.)!R&#==b! F %1!9;5;A!
J@='&%/.)!#D.'.*)!a, -&.C#b!9;5;A!g *k&#%)!#D.'.*)!aZ .=D* (2*@=#!R@C/.=2.)Ob!9;5;A!
>2.)#=#!#D.'.*)l!9;5;A!S%\$%)#=#!#D.'.*)!aW I %) (.!, 2*C*b!9;55A!R%\$#&C%-c!#D.'.*)!
'./#Dk9%. \$&F \$OI# 'Lk' -@kO/Bk@ ' ?k4)ll)-/3k-"k! 4 \$%)60/3kO%\$k6%\$O#)/*kOk#)4 \$K%)6 '+k
\$6-1-*)60ll?kl)* '#+d340llk360l\$+k ')* 'K30#)3"06#)-/k\$6-/-4 ?!aR#)O@.)!9;55bA!U&#)-2!#D.'.*)!
a]D.'.*)=!>2%&/#=#!^#*\$*/D! F %1#&b!9;59A!] [-#&\$'#D!.)!D\$3! (%O%P.)#L!, #'\$# (C#&!9;55A!
X.D#*!K#&=.*)!#)'.!/#D

%)D!g%&#)!H%)=#)L!IO4)l)\$3L&_)/3')<#O/B&kJ-4\$3#)6k>-1)#)63k)/k#'\$&P7NAL!aR2./%D#/\$2.%3!
V#(\$/#!Q).K#&=#'1!R&#=#b!5NN6A!] [-#&\$'#D!.)!H#)&.!M* @ I #)!#'%/!N)4<1\$%&G);)/ *k
2-4<033)-/O#\$&G)"\$ka" #)K#&3!^ .K.)O!'2#!G**D!M# I =b!5NNNA!] [-#&\$'#D!.)!,*) .%!F %%= .c!
%)D!S%-c!,*/*(*)L!#D=AL!N)* /3k-"&G)"\$&)/k#'\$&P7N7!7L&5\$OB)/ *3k- /k>-<.10%&2.1#.%\$&"-%&
F%)#\$%3!aM# I ! \ * & c 3 < # D + * & D j , ' A ! F % & ' .) _ = ! R & # = = ! 9 ; ; E L ! \$ \$ A ! 4 ; 4 7 4 5 6 b L ! %) D ! 1 A S A ! g #)) # D 1 L !
" * & * ' 2 1 ! F A ! g #)) # D 1 ! %) D ! F % & - . % ! U A ! F @ ' 2 L ! # D = A L ! 9 ' \$ & E \$ B " - % B & (.) B \$ & " - % & 2 - 1 1 \$ * \$ & F %) # \$ % 3 k
@)# '\$&5\$OB\$%&\\$L!M# I ! \ * & c 3 < # D + * & D j , ' A ! F % & ' .) _ = ! R & # = = ! 9 ; 5 ; b A ! !

!
20<#)O!+k#'\$&N#O#\$&O/B&GOH-.%Lk!&(1-HO!k>\$%3<\$6#);#L!#D=AL!S@/#!'<A!,-2*&!%)D!S*)O7./!
\ * @ ! ! a > 2 # / ' #) 2 % (3 !] D I % & D !] / O % & b L ! 5 N N 8 A !

!
I)/O/6)O!k : <\$//\$33kO/B&CO#)-/O!k>-1)6?k! .#-/-41L!#D=AL!V%&.k!<%)&@.!%)D!S@/#!'<A!
, -2*&!a f [+*&D3! f [+*&D!Q).K#&=#'1!R&#=#L!>/%&#)D*)!R&#=#!W (\$&.)'bl!5NN9A!

!
9'\$&(-1B\$/k! *\$&- "k20<#)O!34L&5\$)/#\$%<%\$#)/ *k# '\$&>-3#@O%&=^<\$%)\$ /6#L!#D=AL!, '#\$2#)!J A!
F % & O / .) ! %) D ! S @ / # ! ' < A ! , - 2 * & ! ! a f [+ * & D 3 ! f [+ * & D ! Q) . K # & = . ' 1 ! R & # = = ! L ! > / % & #) D *) ! R & # = = ! W (\$ & .) ' b l !
5NTNA!!R#\$&C%-c!#D.'*)!5NN9A!S%\$%)#=#!#D.'*)!5NNEA!

!
!
! - " . 0 1 # ' 1 . & \$ + # % * ' ,

dV2#!U* @ & ! " % 1 ! Z ##c!e!9;98L!C\$ @ kGOH-%&I-%.4L!F%1A!

!
d" * !] - *) * (. = ! V 2 .) c ! % C * @ ' ! > / . (% ' # ! > 2 %) O # ! %) D ! W) # k @ % / . ' 1 h ! , # (%) ' . - ! J) % / 1 = . ! %) D !
V * \$. - ! F * D # / .) O ! * + ! V * \$! U . K # !] - *) * (. = ! S * @ & ! % / = ! e ! 9 ; 9 8 L ! = 6 - 1 - *) 6 0 ! k = 6 - / - 4) 6 3 ! a I . ' 2 !
[0 3 3 0 / k = 1 K 9) / O ? ^ L ! + * & ' 2 - * (.) O A !

dV2#!M# I !] - *) * (. = ! * + ! Y #) # I % C / # = ! e ! 9 ; 9 8 L ! < * * c ! , 1 (\$ * = . @ (! *) ! S #) = ! < # - c # & ' _ = ! [- @ &
F \$ & N - 1 B k : . % & I . # . % \$ L ! 9 ' \$ & N - 6) - K = 6 - / - 4) 6 k 5 \$;) \$ @ L ! + * & ' 2 - * (.) O A !

d>*)=#)!%)D!>*)'#=%'.*)3!H* I!R/%'+*& (!Z *&c#&=#Y#-c*)! I.'2!'2#!Y.=c=!*+!G.O!
^%C*&le!9;9:L!F-%A+k=4<l-?4\$/#kO/BkN-6)\$#?+ka I.'2!, '#K#)!R!X%//%=!%)D!>2&.=!*\$2#&!
V.&&#/b!ETa8b35:9E75:::A!

[2''\\$=3jj?*@&\)%/=A=%0#\\$@CA-*\(jD*.j#\\$@Cj5:A5566j;N8::;56:9E55NN:::;!\)](#)

!
d>*((#&-./P%'.*)!*!d,2%&.)O!R/%'+*& (=e3!'2#!-#=#!*+!J.&C)C!2*='.)Ole!9;9:L!!4\$%)60/k
E\$'O;)-%OIk N6)\$/#)3#L! a I.'2! F#2(#! >%)=*1bA! 4TaTb3NTE75;;4A!

[2''\\$=3jj?*@&\)%/=A=%0#\\$@CA-*\(jD*.j% C=j5:A5566j:::964:99E5588E44A!\)](#)

,
d" #/.K#&.)O!" .++#&#)-#3!doQ)C#/*)0.)O_!% (*)O!QA, A!\$/%'+*& (!\$%&-#/#D#/.K#&1! I *&c#&=le!
9;9EL!204H%)B*\$k, -.%/OIk-"k5\$*)- /3+k=6-/-4?kO/BkN-6)\$#?+k

dV2#! F @/'. \$/.-%' .K#!W (\$% - '!=*+! Z *&c.)O!H* @&=!%)D!U.)#!R%&' .-@/% '#! F % '#&!>*) -#) '&%'.*)!

&Oa\$& [1Ac-A#D@;5;A5555j=- :A59:NE!Y#\$&.)'#D!.)!2 - 4 4 \$%6) - k = ^#\$%) - %L! (%0%P.)#!*+'2#!
M%'.*)% /!<%)c!*+!U* &#.0)!>* ((#&-#! F # [.-*A!
!
dZ #%'2!W)#k@%/. '1!%)D!>%&C*)!' . * [.D#!] (. == . *) = ! .)!H.027W) - * (#!>*@)'&.#=Le!9;56L!
N-6)O!&2 . %%%\$/#3L!a I . '2!_?l\$&F7&_ /)* '#!%)D! J)D&# I ! gA!S* &0#)=*)bL! : a8b3 : ;E7:59A!
!
d>* (\$/.-%' .)O!>*)K#)' . *)% / .P%' . *)Le!9;56Lk, - . % /O!k - "kXO%A\$#) / *kXO/O*\$4 \$ /#!EEa67Tb3!
4 : :7485!a I . '2!>*) * &!U . 'P (%&& . -#bA!
!
d " *#='2#! , 2%& .)O!] - *) * (1!W) - &#%=#!W)#k@%/. '1!Z . '2.)!'2#!] .02'1!R#&-#)'h3!U .)D .)O=!
+&* (!%!u @%/. '%! .K#! , '@D1!*+!R/% '+* & (!R&*K.D#&=Le!9;56L!204H%)B*\$k, - . % /O!k - "k5\$*) - /3+k
=6- / - 4 ?&O/B&N-6)\$#?L!5 ; a9b394E796N7!
!
!d " * (#=' . -!W)#k@%/. '1!%)D!>%&C*)!] (. == . *) = Le!9;56+! = 6-1- *)6O!k = 6- / - 4)63L!5E : 3 : ;8 : TL!
a I . '2! /B%\$@k, - %*\$ /3- /k%)D! I . %* & @ . !H@%)O`7!
!
dR%%&D* [#='*+! f \$#))#=#!%)D! " . = .) - ' . *)! .)!'2#! , 2%& .)O!] - *) * (1Le!9;54L!>- \$#)63L!a I . '2!
>*) * &!U . 'P (%&& . -#!!^ .)D=#1!<A!>%&+%0)%L!%)D! Z . //! J " I **D7>2%&/# = bL!8 : 3447T5A!
!
!d " * (#=' . -!W)#k@%/. '1!%)D!>%&C*)!] (. == . *) = ! .)!>* (\$%&%'.K#!R#&=\$#- '.K#!Le!9;54L!
N-6)-1- *)6O!k I - % . 4L!a I . '2! /B%\$@k, - %*\$ /3- /L! g 1/#! g) .02'!%)D! I . %* & @ . !H@%)ObA!
!
dW) - * (#!W)#k@%/. '1!%)D!Y#=.D#)' . % /!>%&C*)!] (. == . *) = ! .)!'2#!Q) . '#D! , '% '#=3! J!

d " *#=>2%)0.)0!%!^02!<@/C!^#%D!'!*>2%)0.)0!'2#! Z *&/Dh!>.K.-!])0%0# (#)'!%)D!'2#!
] -*/0.-%/!1!>*)=-.*@!>*)=@ (#&le!9 '\$! CC! GN&- "k# '\$! 4 \$%)60/k! 60B\$4 ?&- "k>-1)#)60!k
O/B&N-6)O!&N6)\$/6\$!4: :!a5b354; t5N;l!9;59!a I.'2!XO%*O\$#&F)l!3bA!
!

!d] - *) : 3!] - *) * (.-!+*!R#*\$/#!'2#!R/%)#!'!%)D!'2#!U@'!&#le!a/#\$%/O#)-/O!k, -. %/O!k- "k
>l. %O!3 4 kO/Bk=6-/- 4)63k=B. 60#)- /L!9;59L!a I.'2!, O4 \$3k_7kE- ?6\$!G#&%/D!] \$='#.)!S@/.#!
, -2*!%)D! " *@0/%=! gA!, (.'2bA!
!

dV2#!Q)D#&D*O!] ++#- '3!V2#! F %&c#'.)O!*+! " .=%DK%) '%O#!'2&*@02!<&%)D!<.*O&%\$21le!
, -. %/O!k- "k2 -/3. 4 \$%&5 \$3\$O%6 'L!E6a8b!!U#C&@%&1!9;557k!a I.'2!C\$\$. k>O 'O%)O! J)%!
g#.)%)!%)D!S.//! J K#&1bA!
!

d>* (C%' .)O!>*)=@ (#&. = (!%)D!>%\$. '%/. = (3! J! " #-%D#!%+'#&!C-kG- *-e! F - 4 \$/J3&N#. B)\$3k
O. O%#%\$! ?L!U%/j Z .)'#&!9;5;A'
,

!d F *%&/.'1!%)D!\$00.24/0050328.9998-371Tm/TT51T f (!)+u (11)TjET.d0%2 (.)O.&%\$21le!

!
dU&* (!fC=-@&.'1!'!*>\$-<l\$XO*OW)/\$Le!-*)&'.C@'.*)!'*!R@C/.-!,*-.*/#0.#=3!J!,1(\$*=@(!
+&*(!<*='*)!>*/#0#L!/#%D!%'2*&!F.-2%#/#<@&I*1L!N-6)O!l&>%-H!\$43+!85a5b3595759:L!
U#C&@%&1!9;;;:A!

!
df/D#&!>*)=@(#&=%)D!'2#!]-*/#O.-%/!"./#((%Le!V2#!J0#!][\$/*=-.)3!<%C1!<***(#&=
%)D!<#1*)DL![0%;0%B&(\$/\$%O#)-/3&>-1)6?&,.-%/O!L!536N7N;L!Z.)'##!9;;;:A!

!
dV2#!>*((*D.+-%'!)!+!>2./D2**D3!V%/#=!+&*(!'2#!JDK#&'=..)O!U&*)!'^.)#=#Le!
[\$B*\$' - *k5\$;)\$@L!8a9b3!679EL!,@((#&!9;;;E3!!

!
dQ)D#&=%)D.)O!2#!M#I!>*)=@(#&=(3!W)#k@%/.'1L!](@/%'.*)!)D!'2#!]&*=-.)*!+!Z#//7
<#.)Ole!9)MB36'%)#&;--%&N-6)-1-*)\$!9Ea5b35;79;L!9;;;9!a.)!U/#(.=2!&%)=/%'.*)b!
Y#\$&.)'#D!.)!5-#4O/&XO*OW)/\$!aQ).K#&='1!'!+!V*&*)'!<@=.)#=#!, -2**/bL!=\$#-./!./=#!
#)'.!/#D!dV2#!J//7>*)=@(.)O!W==@#Le!,\$&.)O!9;;;TA!

!
dV2#!V&.\$/#!W(\$#&%'.K#3!G/*C%/!]-*/#O!L!R*K#&'1!%)D!Z*#&c'.(#!Y#D@-'*)Le!E\$%A\$!\$?&
,.-./O!l&-"&N-6)-1- *1L!:839756L!9;;;5A!

!
dV2#!M#I!R*./.'.-=!*+!>*)=@(\$'.*)Le!E-3#- /k5\$;)\$@!9:aE7:b3:7NL!,@((#&!5NNNA!
Y#\$&.)'#D!.)!9'\$&2-/#\$4<-%O%?&5\$OB\$%L!#.02'2!#D.'*)L!G%&1!G*=20%&.%)!^*)O(%)!
9;;;:0!Q-1./#O%?&N)4<1)6)#?L&5\$3<- /B)/ *k#-&2- /3. 4\$%&2.1#. %\$!#D=A!"%)#)! " *2#&'1!%)D!
J(.'%!.!]'P.*).!a^%)2%(LF"3!Y*I(%)!%)D!^.'!/#+.#/Db!9;;;E3487T90!Q-1./#O%?&
N)4<1)6)#?L&9'\$&>-\$#)6&!1#\$%/O#);\$&#-&2- /3. 4\$%&2.1#. %\$+!#DAL!,%(@#/#!J/#%)D#&!
aJ@c/%)DL!Ms3!, '#%D!%)D!"%@O2'#&_=#!bL!9;;;NL!\$A!98E796;0!, *-.%/!, -.#)-#!^ .CT5000!2(-)0.2(.)0.2(#)0.2

wZ *cL!V. (#!)D! F *)#13!M# I !R*/.-.#=!+*&! J (#&.-%Lw!Q%)M\$#)MB&\$/&N04\$/1\$;)/+*d59aEb3N7
99L!M*K# (C#&!5NN8A!

!

wZ *c'. (#!.)!>*)'# (\$*&%&1!>*)'#['3! J (#)D.)O!'2#!U%.&!^%C*!&!, '%)D%&D=! J - 'Lw!
2 ')60*-K_#/#G0@&5\$;)\$ I L!6; a5; ;b35; ;7558L!5NN8A!

!

wJ ==#==.)O!'2#!V. (#!, k@##P#!H1\$*'2#=-.3!]=' (%'#=!*+! F %&c#'%!)D!M*)7 (%&c#!H*!@&=!.)!
'2#!Q).'#D!, '% '#=L!5N4N75NTNLw!a/B. 3#%)O!&5\$!O#)- /-!EEa5b3987: EL!5NN: L!a I . '2!^%&&!
^##'#7G@1bA!

!

wG/*C%/!W)#k@%/. '1!)D!]K.&*) (#)%/!>&.=.3! J)!J&O@ (#)'!+*&!Y#D@-.)O!Z *c.)O!H*!@&=!
)!'2#!M*!&'2Lw! F -%lB&J \$; \$l - < 4 \$/#!5Na5b36E7T: A!S%)@%&1!5NN5!Y#\$&.)'#D!.)!2%\$O#)/ *kO
C\$@&F -%lB&=6- / - 4 1L!#D=AL!G#&%/D!]\$=#.)L!S@/#!G&%2% (!%)D!S#=-.%!M# (C2%&DL!
aR2./%D#/\$2.%3!V# (\$/#!Q).K#&=. '1!R&#=-bL!5NNEA!

!

w] (\$/*1 (#)'!Y#)'=!%)D!'2#!W)-.D#)-#!*+!, '&.c#=#Lw!5\$;)\$@&- "k=6- / - 4)63kO/B&N#O#)3#)6=L!
^ 1 W 1 a: b38T: 78N9L!M*K# (C#&!5NT6!a I . '2!, % (@#/!<* I /#=#a!

!

w>2%)O#=#.)!'2#!>1- / - %/!R%'#&)!*+!Y#%/!Z %O#=#!]K.D#)-#!+&* (!M.)#!>*@)'&.#=L!5N887
5NT;Lw!=6- / - 4)6k, - .%/O!+!N83: 897: 4TL!S@)#!5NT8A!

!

!

! - " . 0 1 # 1 . &\$+ # % * ' ' 0 2 % . ' . % 9 \$ % 3 ' - . '\$ 0 ' / . - + % * * '

!

dM%K.O%'.)O!^.#!Q)D#&!%U*!@&7 " %1!Z *c I ##c3!J!F @/'. (#'2*DL!G#)D#&#D!^.#!>*@&=#!
] [(.)%'.*)!*+!V. (#7 Z *c!<*@)D%&1!, '&%#O.#=!%)D!Z *c7^.#!U.'le!.)!\$&#\$&%&'.*)L!
a I . '2!D- . / * 4) / k 2 ' . L!R21//.=! F * #) L!%)D!Z #)!U%)bA!

!

d " .='.)-'.*)!%'!Z *c3!, '% '@=!R&%-'.-#=#.)!%!>* ((@). '1!R&*D@-'*)!])K.&*) (#)'le!9; 99L!
a I . '2!F)ll&2 'O!\$3`+! (.) * &!&#K.=. *)!%'!2 - / # \$ 4 < - % O % ? k = # ' / - * % O < ' ? 7 k

!

dV2#!Y%-.%/!R/%'+*& (!V&%\$3!>* ((#)'le!9; 9: L!, - .%/O!k- "kXO/O*\$4\$/#ka/c.)%?L!@)D#&!
&#K.# I A!

!

d " *#=#! I *c!'. (#!&#D@-'*)!. (\$&*K#! I *c#&=#! I #//7C#.)Oh!]K.D#)-#!+&* (!O/*C%/!+*!@&7D% I!
I *c I ##c!'&.%/le!9; 9: L!CO#. %\$& [. 4O/kES 'O;)-%+!@)D#&!&#K.# I !a I . '2!F\$/k IO/L! f &/%!
g #//1!%)D!G@*./.)!G@bA

dZ 2*!G#='!*!, 2%&#!.)!'2#!d, 2%&.)0!] -*) * (13!Q)D#&=%)D.)0!'2#!R%' '#&)=!*+!
R%&'-.\$.%' .*!)!%)D!] [-2%)0#!.)!J .&C)Cle!9;5NL!a I .'2!

d^#==*)=!.)'2#!'. (#!*+!> f XW "le!9;9;L!#!#==%1!+*!&!N6' . 406 '\$%&2 -11\$*\$+&YS'&! //);;%30%?&
E- -AL!#DA! ,%' .=2!g@ (%&A!

!
dU*& I %&Dle!9;9;L!N'0%)/*&X -H)l)#\$3L&O. \$3#)- /)/ *& : .%&5)* '#&#- &# '\$&2)#?&)/&# '\$&
2 -110H-%0#);\$&=6- /- 4 ?+&C1! " %K.D#!J &- .D.%-*)*!%)D! F .c#! " @00%)!a^*)D*)3!Y*@'/#DO#bA!

!
dV2#! ,2%&.)0!] -*) * (1le!9;5NL!9 '\$& : ^"- %B& [O/BH- -A&- "&2 - /3. 4<#)- /L!#D=AL!U&#D#&.-c!UA!
Z 2#&&1!%)D!W%)!Z **D I %&DL!aM# I ! \ * &c3! f [+*&D!Q).K#&=. '1!R&#==bl!a I .'2! F #2 (#!
>%)=*1bA!!

!
dV2#!R/%'+*& (!] -*) * (13!- *)=#k@#)-#=!+*&!/%C* @&L!.)#k@%/. '1!%)D!'2#!#)K.&*) (#)'le!9;5TL!

d>/. (%'#!%)D!>*)=@ (\$'.*)le!.)!21)40#\$&2 'O/*\$&O/B&N-6)\$#?L&&N-6)-1-*)601&>\$%3<\$6#);\$3L!
Y./#1!]A!"@)/%\$!%)D!Y*C#&'!S!<&@//#!#D=AL!aM#I!\ *&c3! f [+*&D!Q).K#&=. '1!R&#==bl!a I . '2!
g %&#)!]2&2%&D'7 F %&' .)#Pbl!9;58A!
!
Y#\$/1!'*!gA!,%C##!/Y%2 (%)L!d>*)'#='.)O!R&.K% '#!R* I#&Le!

V2* (\$=*)L!aM# I !H%K#)3! \ %/#!Q) .K#&=.'1!R&#==bl!a I .'2!] (./.#! J A! " @C* .=!%)D!^.)D=#1!<A!
>%&+%0)%bl!9; 5 :L!\$A!N8759 : A!

!
dZ *&c=2%&.)0le!)! J \$*%- @# 'LkOk; -60H. 10%?k"- %kO/\$@&\$%O+!#D=L!G.% - * (*! " `%/.=%L!U#D#&. -*!
" # (%&.%!)D!G.*&O*!=! g %//.=!L!aM# I ! \ *&c3!Y*@'/#DO#bl!9; 5 : A!

!
dZ 21! , */K.)O!>/. (%#!>2%)O#!Y#k@.&#=# Z *&c.)O!^#=#le!.)&9)4 \$k - /k : .%&N)B\$&Lk F ' ?k F \$k
! 11k C\$B&OkN' - %#\$%&F - %A)/ *k F \$A+!#D=A! J))% !> ** '#!%)D!S%)#!SA!U&%)c/.)L!a^*)D*)# I !
#-*)* (.-=!+*@)D%'.*)bl!9; 5EA!

!dU&* (!U%=!U%=2.*)!*!>*)#- '#D!>*)=@ ('\$.*)3! ,/* I .)O! " * I)!'2#! , \$#)D.)O!
V&#%D (./!e!)!2 . 1# . %\$k - "k# ' \$kN1 - @LkN - 6)O!&J \$6\$!\$%O#)- /k)/kO/k ! 66\$!\$%O#B&F - %!BL!#DAL!
M.-c! f =C%/D.'*)!a<%=.)O=*c#LQg 3!R%/O&%K#! F % - (./%)bl!9; 5EA!

dF *&#!*+!^#=#3!S@/.#! , -2*&!>%//=!+*&!%! F *&#!>*)=-.*@=!^.#=#'1/#le!W)'#&K.# I ! I .'2!S@/.#!
, -2*&!C1!>2k='.)% ! J =k@.'2!9 ' \$kN-1.#)- /3k, -. %/O!L! : a5b3!U#C&%&1!9; 5EA!

!
dV2#!R%&&D* [!*+! F % #&.%/'13!U%=2.*)! F %&c#'.)O!%)D!'2#!R/%)#'%&1!] -*/O!le!5 - . #!\$B*\$k
2 - 4 <O/)- /k# - k ! B; \$%#)3)/ *kO/Bk>% - 4 - #)- /O!&2 . 1# . %\$!#D=L! F %''2# I ! F - J //.= '#&!%)D!] (./!
Z#='!a^*)D*)3!Y*@'/#DO#bl!9; 5EA!

!
!dY#D@-.)O!O&* I '2! '*!%-2.#K#!#)K.&*) (#)'%/!=@='%)C./.'13!'2#!&*/#!*+! I *&c!2* @&=le!.)!
2O<#)O!3 4k - /k9%)O!Lk=^<1-%O#)- /3k)/k# ' \$k9%OB#)- /k - "k9' - 4 O3kF \$)33A - <L!Y*C#&'!R*//.)!%)D!
S#%)#''#!Z . -c=7^ . (!#D=A!a>2#/'#)2% (3!] D I %&D!] /O%&b!a I .'2!g 1/#!g).02'!)D!] @O#)#! J A!
Y*=%bl!9; 5EA!

!
d>*)#- '#D!^#%&.)O3! J)! J O#)D%!+*&!Y#=#%&-2!%)D! " #=.O)le! J !Y#\$*&'!+&* (!'2#!
F % - J &'2@&!>*)#- '#D!^#%&.)O!Y#=#%&-2!M# ' I *&c!a>2.-%O*3! F % - J &'2@&!U*@)D%'.*)bl!
a I .'2! F .P@c*!W*!L! g &.=!G@'.#&&#PL! , *) .% ! ^ .K.)O=*)#L!<./!R#)@#L!S#%)!Y2*D#=#! g %'.#!
, %/#)L!S@/.)! , #+ '*)7G&##)!)D! , A!>&% .O! Z %'c.)=bl!9; 5EA!

!
!d<@./D.)O!%!, @='%)C/#!%)D! " #=.&%C/#!] -*)* (17.)7 , * - .# 17.)7M%'@&#!
le!)!N9! 9=k : I k9 [=k F : 5GJ &RSVYL! Z *&/D! Z %' -2!W)='.'@#!aM \ 3!M* &'*)bl!9; 5EA!a I .'2!
5 - H\$%#k2 - 3#O/WOL!G%&! J /\$#&*K.'PL!H#& (%)! " %/L!S*=2@%!U%&/#1L!>%&*/!U%&)- *L!V. (!
S%-c=*)L!WD%! g @C.=P# I =c.L!%)D!R#'#&!X. - '*&bl!9; 5EA!Y#\$&.)'#D!.)!2%\$O#)/ *kO&N. 3#O)/OH!\$k
O/Bk J \$3)%OH!\$&I . # . %\$Lka/3)* '#3k"- 4 k hT&*! - HO!&# ' - . * '#k!\$OB\$%3+!#D=AL!Y*C#&'!>*=%)P%!
)D!WD%! g @C.=P# I =c.!aM# I !S#&=#13! Z *&/D! , -.#)' .+.-bl!9; 5 : A!

!
>*)'&.C@'.*)! '*!U* &@ (!*)! F .-2%#/, %)D#/_=! F ' O#&X - /\$?k2O/]#&E. ?! [\$B*\$' - *k5\$;)\$@L!
9; 59A!

!
dR&#+% - #le!

d f K#&'@&).)O!'2#! F *D#&).='!R&#D.-'.*)=3!Y#-#)'!V&#)D=!.)!Z *c!%)D!^#.=@&#Le! [O/BH- -A&
-"&G\$)3.%\$&N#.B)\$3L!#D=AL!>2&.!Y*?#cL!, @=%)! , 2% I !%)D!V*)1!X#%/L!aH*@)D (./=!
<%=.)O='*c#3!R%/O&%K#! F %- (./%)b!9 ; ; 6A!
!
d>2./D&#)!%)D!>*)=@ (#&.= (Le!=/6?6l-<\$B)O&- /&2 ')lB%\$/+&! B-1\$36\$/#3&O/B&# '\$&X\$B)OL!#DA!
S#++! J &#)'!L!a , %O#bL!9 ; ; 6A!
!
!d>*)=\$.-@*@=!>*)=@ ('\$.*)Le!=/6?6l-<\$B)O&- "&N-6)-l- *?L!#DA!G#*&O#!Y.'P#&!a f [+*&D3!
</%-c I #//bL!9 ; ; 634T574T4A!Y#\$&.)'#D!.)!'2#! F)I\$?KE106A@\$l&=/6?6l-<\$B)O&- "&
2- /3. 4 <#)- /&O/B&2 - /3. 4 \$%&N#. B)\$3L!#D=L! " %) .#/#>*c!%)D! F .-2%#/#Y1%)A!9 ; 58A!!
!
d , \$#)D.)O!M%'.*)3!>*)=@ (#&.= (!%)D!'2#!U@'@&#!*+!^ .C#&%/!X%/@#=#Le!.)! [] * '\$%&
=B. 60#)- /L& : <\$/&"-%&E. 3)/\$33+&#DAL!>2&.=!.%)!G./D#!a^#[.]O'*)!<*c=bL!9 ; ; 6359875ETA!
!
d>*)=@ (#&!>@/'@&#Le!#)'&1!+*&!a/#\$%/O#)- /O!&=/6?6l-<\$B)O&- "&=6- / - 4)6&N-6)-l- *?

dQA, A!>*)=@ (#&l!>2#%\$! F %) @+% - '@&#-!l%)D!'2#!G/*C%/!, I #%'=2*\$Le!.)!N#O#\$&-''&# '\$&F -%lB&
RSSh+&n<\$6)O!& I -6. 3L&9 '\$&2 -/3. 4\$%&n-6)\$#?!a Z %&=2.)O'*!)L! " >3! Z *&/D I %'-2!W)='.'@'#b!
9; ; :A!
!
!d>*)=@ (#&.=(!%)D!>* ((@).'!le!.)! " %)!, 2./.)O!#D.'*&L!2 -/; ;\$%30#)-/3&- /&2 - 4 4 . /)#?L!
aR2*#). [L! J s3! J &.P*)% !H@ (%). '#=>*@) -./b!l9; ; E3: 6784A!
!
dV2#!a#K#)! (*&#b! f K#& I *&c#D! J (#&.-%)le!.)!S*2)!D#!G&%+L!#D.'*&L!90A\$&E06A&D- . %&
9)4\$&I) *'#)/ *k : ; \$%@ -%A&O/B&9)4\$&> - ; \$%#?&)/&! 4\$%)6O!a, %) !U&%) -.-*3!<#&&#''7 g *#2/#&3b!
9; ; E!a#[-#&\$'#D!.)!E- 3#- /&2 -l!\$*\$&XO*OW)/\$! Z .) '#&!9; ; ; :L!\$!58ab!
!
d^#=#!, '@+L! F *&#!U@)3!W) '#&K.# I ! I . '2!S@/#!'!, -2*!le!a/B)60#-%3L!9a5b3575; L! Z .) '#&!9; ; ; 97
EA!
!
!w>/#%) .)O!'2#!>/*=#'3!V* I %&D!% !M# I !] '2.-!*+!U%=2.*)Lw!.)!N. 3#O)/OH!\$&>!O/\$#L&n-1.#)- /3&
"- %&# '\$&RV3#&2\$/#. %?&a< *='*)3!<#%-*)!R&#==b!M*K# (C#&!9; ; ; 9A!Y#\$&.) '#D!.)!
=;/)% - /4\$/#O!&n-6)-1- *?L&""- 4&! /O!?3)3&#- &!6#)- /L!V2.&D!] D.'.*)!#D=L!^#=#./#!g.)O!%)D!
"#C*%&2! F -> J &'2!J @&.+#./#!a^%)2% (L! F " 3!Y* (%)!%)D!^.''/#+.#/Db!l9; 5 : A!
!
d] #)! I #0#)c%&&!K**&!D#!95='#!##@ I 3!%&C#.D='.?D!#)!D@@&P% (#!-*)=@ (\$'.#le! :)A-3&
95a9b3647N; L!9; ; ; 9A!
!
wY* @)D'%C/#!*)! J DK#&' .=.)O!%)D!X%/@#-Lw! ! B; \$%#)3)/ *&O/B&n-6)\$#?&5\$;)\$ I L!zE35L!9; ; ; 9A!
!
dV. (#!>&@)-2!J (*)O!J (#&.-%)!R%&#)'=le!.)!90A)/ *&>O%\$/#)/ *&>. Hl)-L!#D=AL!, 1/K.%!

9'%)#L&# '\$&')3#-%?&-"&O/&! 4\$%)60/&6.1#. %O!&4 -; \$4\$/#L!C1!J)D&# I!^A! \ %&&* I!C\$@&D-%A&
9)4\$3&N. /BO?&E--A&5\$;)\$@+!S%)@%&1!9; 58A!

&

9'\$&C\$@&2 -/3. 4\$%3L!C1!M*& (%)! F #1#&=!%)D!S#)).+#&! g#) 'L!=6-1- *)60!&=6-/-4)63L!
88aEbl!M*K# (C#&!9; ; 8A!

,

: ; \$&# '\$&=B*\$!C1!^#*!<*O%&!%)D!NO; O*\$&>O3#)4\$3!C1!H%&*/D! , -2#-2'#&L! F O3 ')/*#- /&
>-3#&E--A&F -%lBL! F %1!58L!9; ; 8L!\$A: A!

!

>-)/#&-"&>1\$O3. %\$L& [-@&N' -<<)/*&2 'O/*\$B&! 4\$%)60/&2.1#. %\$!C1! , 2%&*)!s@c.)L!
2-/#\$4<-%O%?&N-6)-1- *?L!E: a5bl! :E7: :L!9; ; 8A!

,

!

dG.0! Z *&c#&=! J &#!] (\$/*1##=A!, '%&'!V&#%'.)0!V2# (!V2%'!Z %1Ae!C\$@&D-%A&9)4 \$3L! f \$7#DL!
S%)@%&1!5NL!9;95!a I .'2!X##)%!" @C%/bA!

2''\$=3jj I I I A)1'. (#=A-* (j9;95j;5j5Tj*\$.)*)j\$&*\$*='.*)7997-%/.+*&).%7C.D#)A2' (/!!

!

dG.0! I *&c#&!# (\$/*1 (#)'!+.02'=!/.c#!'2*=#!)!>%/.+*&).%!\$.!'+/# [.C./.'1!%0%.)=!%!/ .K%C/#!
I %0#! t!C@'!o\$/%'+*& (!- **\$#&%'.K#=_!- */D!#)=@&#! I *&c#&=!0#!C*'2le!V2#!>*)K#&=%'.*)L!
f - '*C#&!9;9;A!

2''\$=3jj'2#-*)K#&=%'.*)A-* (j0.07 I *&c#&7# (\$/*1 (#)'7+.02'=7/.c#7'2*=#7.)7-%/.+*&).%7\$.7
+/# [.C./.'17%0%.)='7%7/.K%C/#7 I %0#7C@'7\$/%'+*& (

d59!u@#='.*)=! '* p W)'#&K.# I! I.'2!S@/.#', -2*&Le! (!a! &K&

dG/*C%/!G&* I '2!J (#&.-%)!V2&.+!le!5 -- 4 &"-%&J \$HO#\$&E! - *+&C\$@&D-%A&9)4 \$3&- /1)/\$!
,#&'# (C#&!9:L!9 ; ;NA!
!
d] % '! ^#=#! F # % 'le!5 -- 4 &"-%&J \$HO#\$&E! - *+&C\$@&D-%A&9)4 \$3&- /1)/\$!U#C&@%&1!98!9 ; ; NA!
,
7H*/.D%1!, 2*\$\$.)0 | S@='! " *)_!le!G-3&! / *\$!\$3&9)4 \$3!M*K# (C#&!9TL!9 ; ; TA!
!
dJ @!R%1=! " #=! Z * &c%2*/.-=le!R2./*=*\$2.#! F %0%P.)#!R%&.=!M*K# (C#&!9 ; ; TA!
!
dV2#!] &%!*+!>2#%\$!G**D=!.=! f K#&le!E-3#- /& (l-H\$!, @)D%1! J \$&./!9TL!9 ; ; T!a I . '2!
R&%=%)) %)!R%&'2%=%&% '2.ba'
,
dJ !>/#%)#&!G&##)#&!>2&.= ' (%=le!E-3#- /& (l-H\$!, @)D%1! " #-# (C#&!5 ; L!9 ; ; 4A!
,
dJDK#&' .=.)0!Q)+%.&/1!V%&0#'=!g.D=le!.)! ! B; \$%#)3)/ *!#D!] /#%) *&!, '%)+*&DL!aU%& (.)O'*)!
H.//=L! F W3!G&##)2%K#!R&#=#b!9 ; ; 43!8E74; A!a# [-#&\$'!+&* (!d " # (% '#&.%/ .P.)O! f @&! g .D=3!%)!
)'#&K.# I ! I . '2!S@/.# '! <A!, -2* &L!.)! [- <\$!M*K# (C#&j " #-# (C#&!9 ; ; ; Ab!
,
dS@)c!U**D!M%'.*)le!9 '\$&CO#)- /!J @O@='!9 ; ; 8L!\$\$A!58756A!a I . '2!G%&1!Y@=c.)ba!
,

w J &#! I #!Y#%//1!V2%'!^%P1Lw!.)'##K.# I L!C\$@3@\$A+dU#C&@%&1!56L!5NN9A!Y#\$&.)'#D!.)!9 '\$d
2%-33")%\$d5\$OB\$%+d#D!A!F 1&*)!V@=(%)!aJ//1)!%)D!<%-*)bL!S%)@%&1!5NN9!%)D!.)!G\$O%/)/ *d
=6-/-4)63Ld!& >%06#)60!d F -%AH--cL!#D!A!J C2%1!<A!G2.%&&!a J DD.=*)! Z #=#1!^*)O (%)bL!
S@/1!5NN6A!
!

w W+! \ *@!V2.)c! \ *@&#! Z *&c.)O! F *&#!%)D! F *&#!H*@&=L! \ *@&#!Y.02'Lw!G-3d! / *\$!\$3d
9)4 \$3+S%)@%&1!5NL!5NN9A!
!

w Z *&cL! , \$#)D! Z *&cL! , \$#)D3!W=V2.=! J)! Z %1!*!^ .K#hw!9 '\$d F O3 ')/ *#- /& >-3'L!S%)@%&1!
5NL!5NN9A!
!

w Z *&c#&=#*+!2#! Z *&/DL!Q) I .)DLw!9\$6' /-1- *?&5\$;)\$I L!M*K# (C#&j! " #-# (C#&!5NN5A!
] [-#&\$'#D!.)! , - . %/O!k - "ka/3#)#. #&\$" -%&>-1)#)60!d=6-/-4 1L!S%\$%)L!S@)#!5NNE0!%)D!.)!>-1)#)60d
\$Bd=6-/-4)O+dW%/1L! " #-# (C#&!5NNEA!
!

w J (#&.-%)=! Z *&c!V**!H%&DLw!C\$@&d-%A&9)4 \$=L!*\$7#DL!S@/1!98L!5NN5A!] [-#&\$'#D!.)!9 '\$d
N' -%#&>%-3\$5\$OB\$&L!#D=A!GAHA! F ./#&!%)D!HA! , A! Z .#)#&L!aM# I ! \ *&c3! F -G&% I 7H./bL!
S%)@%&1!5NN:!)D!2 '\$6A<-)/#3Ld J \$; \$1-<)/ *2 -1!\$*\$d=/*1)3 ' &NA)l=l!E&D!#D!.'*)L!S%-c!
R%O#L!a J DD.=*)! Z #=#1!^*)O (%)bA!
!

w Z 21!W!% (!M*!^*)O#&!%R&*O&#==.K#Lw! l \$#O& (%O%P.)#L! J \$&./!5NTNA!
!

w V2#! J &'!*+! , #&K.-#Lw! l \$#O& (%O%P.)#L!S%)@%&1!5NTNA!
!

w F %)@+%- '@&.)O!>&.=.hw! l \$#O& (%O%P.)#L!M*K# (C#&!5NTTA!
!

w R#%-#!V2&*@02!] -*)* (.-!> **\$#&&' .*)3! F *K.)O!<#1*)D! F ./.'%&1!%)D!] -*)* (.-!
" * (.)%)-#Lw!>l -@3 'O%\$+K*/A!5EL!zEL! , @ ((#&!5NTTA!
!

w ^#''#&=#*! F .==! F *)#1\$#))1Lw! l \$#O& (%O%P.)#L!S@/17 J @O@='!5NTTA!
!

w V2#!G&#%'!V&%D#! " #C%'#=#Lw! l \$#O& (%O%P.)#L! F %&-2!5NTTA!Y#\$&.)'#D!.)!>&#%' .)O!%M# I !
Z *&/D!] -*)* (1L!#D=L!] \$=#.)L!G&%2% (!%)D!M# (C2%&DL!aR2./%D#/\$2.%3!V# (\$/#bL!5NNEA!
!

w V&./=!%)D!V&%D@/%' .*)=Lw! l \$#O& (%O%P.)#L!S%)@%&1!5NTTA!
!

w H*='./#!V%#*K#&=3!V2#!0.2 (/)0.2 (!V02 (#64Tm/TT71T f %)6aT f (!)T2 (D=-)0-2 (')00.2 (-)0.2 (0.2Q)O!
!

, > f Y J W L 9 ; 5 N 7 \$ & # = #) ' A !
< * * ' = & % \$ \$.) O ! ' 2 # ! > * / / % C * & % ' . K # !] - *) * (1 L ! U . K # ! 1 # % & !] Q ! & # = # % & - 2 ! \$ & * ? # - ' L ! 9 ; 5 T 7 \$ & # = #) ' A !
V 2 # ! ^ # I ! %) D ! < @ = .) # = ! * + ! ' 2 # ! , 2 % & .) O !] - *) * (1 ! I # C = . ' # L ! 9 ; 5 4 7 \$ & # = #) ' A !
W) = . ' @ ' # ! + * & ! ^ . C # & % ! / J & ' = ! ! < * = ' *) ! > * / / # 0 # L ! 9 ; 5 ; 7 9 ; 5 6 A !] [# - @ ' . K # ! > * ((. ' ## ! 9 ; 5 6 7
\$ & # = #) ' A !
f) # !] % & ' 2 ! U * @) D % ' . *) L ! M * K # (C # & ! 9 ; 5 ; 7 \$ & # = #) ' A !
F # D . % !] D @ - % ' . *) ! U * @) D % ' . *) L ! S @) # ! 9 ; ; 4 7 \$ & # = #) ' A !
R & * ? # - ! *) ! d Z * & c ! ! Z # / + % & # L ! Z * & c ! %) D ! Z # % / ' 2 ! + * & !] @ & * \$ # L e ! J @ = ' & . %) ! W) = . ' @ ' # ! * + !
] - *) * (. - ! Y # = # % & - 2 L ! 9 ; 5 5 7 9 ; 5 4 A !
, #) . * & ! J D K . = * & 1 ! > * @) - . / ! V 2 # ! J / / . %) - # ! + * & ! % ! H # % / ' 2 1 ! V * (* & & * I L ! S %) @ % & 1 ! 9 ; ; 8 7 \$ & # = #) ' A !
< * % & D ! * + ! J D K . = # & = L ! J - ' . *) ! > * % / . ' . *) ! + * & ! F # D . % !] D @ - % ' . *) L ! , @ ((# & ! 9 ; ; : 7 \$ & # = #) ' A !
W) ' # &) % ' . *) % / ! J D K . = * & 1 ! < * % & D ! R & * O & % ((# ! *) ! , * - . * 7] - *) * (. - ! , # - @ & . ' 1 L ! W) ' # &) % ' . *) % / !
^ % C * & ! f & O %) . P % ' . *) L ! 5 N N N 7 9 ; ; 8 A ! !
G / * C % / ! " # K # / * \$ (#) ! %) D !] K . & *) (#) ! W) = . ' @ ' # L ! V @ + = ! Q) . K # & = . ' 1 L ! 5 N N 6 7 \$ & # = #) ' A !
> * / / # 0 # ! %) D ! Q) . K # & = . ' 1 ! Z * & c j U % (. / ! J = * - . % ' . *) L ! 5 N N 8 7 5 N N 6 A !
U * @) D .) O ! < * % & D ! R] G , ! a > * ((. ' ## ! *) ! ' 2 # ! R * / . ' . - % / !] - *) * (1 ! * + ! ' 2 # ! G * * D ! , * - . # ' 1 b !
5 N N : 7 \$ & # = #) ' A !
> #) ' # & ! + * & ! ' 2 # ! , ' @ D 1 ! * + ! > * ((# & - . % / . = (L ! Z % = 2 .) O ' *) L ! " A > A ! 5 N N 9 7 9 ; ; ; A !
Y # = # % & - 2 ! J D K . = * & 1 ! > * @) - . / !] - *) * (. - ! R * / . - 1 ! W) = . ' @ ' # L ! , # \$ ' # (C # & ! 5 N T 4 7 5 N N 8 A !
!
!

J , J!Y#\$&#=#)'%.K#!'2#!*O%).P.)O!#% (L! I *&c.)O!*)!=-.%/!=-.#)-#!=*+'2#!Q).'#D!
, '% #=#!G/*C%/!>2%)O#!Y#=#%&-2!R&*O&% (L!O&*@\$!EL! " &.K#&=!*+!>/. ('%#!>2%)O#L!9;547
9;56A!
!

R%&'-..\$%)'L!Y%D-./++#!J-%D# (.-!X#) '@&#=#, # (.)%&!*)!V2#!, 2%&.)O!] -*)* (1L! " #-# (C#&!
9;54A!
,

Y#K.# I #&L! " .=#&'%' .*)!U#// * I =2.\$L!>#) '#&!+*&!])O%O#D!, -2*/%&=2.\$L!9;54!
!

, -.#)' .+.-!>* ((.'##L!QM] , > f!<#&)%&D! F %&.=!] -*)* (1!%)D!, *-.#'1!>2%&.L!9;54A!
!

f &O%).P#&L!Y#O@/%&! , #=#.*!*)!>*)=@ (#&=!%)D!>*)=@ (\$'.*)L!J , J! (##'.)O=L!9;54A!
!

Z *&c=2*\$!R%&'-..\$%)'L!d>*)=@ (\$'.*)!%)D!, *-.%/!>2%)O#Le!V] ^^Q, !W)='. '@#L! f - '*C#&!
9;58A!
!

Z *&c=2*\$!R%&'-..\$%)'L!d, *-.%/!^ .+#!*+!>/. ('%#!>2%)O#Le!>#) '#&!+*&! J DK%) -#D!, '@D.#=!..)!
'2#!<#2%K.*&%/!, -.#)-#=#L!, '%)+*&DL! f - '*C#&!9;58A!
!

R%&'-..\$%)'L! f \$#)!, *-.#'1!U*@)D%' .*)!>*)K#).)O!*)!dV2#!U@'@&#!*+!Z *&cLe!M# I! \ *&cL!
J \$&./!9;58A!
!

R&*O&% (!>* ((.'##L! J , J!>*)=@ (#&=!%)D!>*)=@ (\$'.*)!, #-'.*)! F .).7-*)+##&#) -#L!
<#&c#/#1L!> J L! J @O@='!9;5 : A!
!

F WV!>/. ('%#!>*7^%C!>*)=@ (\$'.*)!>*) '#=#!S@DO#L!9;5 : A!!
!

f &O%).P#&L!Y#=#%&-2!Z *&c=2*\$!+*&!G&%D@%#!, '@D#)'=L!>* ((*)<*@)D!>*)+##&#) -#L!M# I!
] -*)* (1!>*%/.' .*)L!M* &'2#%='#&!)!Q).K#&='1L!<*'='*)L!S@)#!9;5 : A!
!

X.='.)O!U%-@/'1L!<%&D! F < J!.)! , @=%.)%C./.'1L! F %1!9;5 : A!!
!

, -.#)' .+.-!>* ((.'##L!:'!'
!

!
f &0%).P#&L!V2# (%' .-! , #==.*)!*)!>*)=@ (#&!Q'*\$\$.% =L! J , J!J))@%/! F ##'.)O! " #)K#&!9 ;59A!
!
>*) '&.C@ '*&L!G@%&D.%)! , @='%.)%C/#!<@=.)#==!R%0# =L!9 ;59A!
!
W)K. '#D!R%&' .-.\$%) 'L!d>2%//#)0.)O!>*)=@ (#&.= (3!V* I %&D!^ .K.)O!Z #!/! , @='%.)%C/1le!!
>*)+#&#) -#L! , > f Y J Wj f)#!] %&'2L!Q).K#&=. '1!*+!<&.' =2!>*/@ (C.%L! F %&-2!9 ;59A!
,
f &0%).P#&L!R&% -' .-.)O!R/#). '@D#!] -*)* (1L!W)=.' '@'#!+*&!^ .C#&%/! J &' =L!<*= '*)!>*/#O#L!
f - '*C#&!9 ;55A!
,
F# (C#&L!Z *&/D!] -*)* (.- =! J ==* - .% '*)A!
,
F# (C#&L! F % - J &'2@&!U* @)D% '*)!>*))#- '#D!^#%&).)O!Y#=#%&-2!M# ' I *&cL!9 ;5 ;79 ;56A!
!
, '##&.)O!G&*@\$! F# (C#&L!R&*?#- '*)!'2#IE F .//#). @ (!] -*)* (1L!9 ;5 ;7\$&#=#)'A!
!

,
!dV2#!R%&&D* [!*+! J ++/@#) -#le!U%-@/'1!, -2*/%&!>*)+#&#) -#!+*&!R2.!V2#'!g %\$\$%M%'.*)%!
H*)*&=!, '@D1!V*\$\$.-L!S%)@%&1!9; ;TA!
,
Y#=#%&-2!, -2*/%&L!R*/.'-./!] -*) * (1!Y#=#%&-2!W)=!'@'#!Q).K#&=. '1!*+! F %==%-2@=#' '=L!
F %&-2!9; ;67\$&#=#)'A!
,
W)K.'#D!R%&'!-\$%) 'L!dM# I] -*) * (1!V2.)c!V%)c!>*)+#&#) -#le! , -2@ (%-2#&!>*/#0#!
" #K*)L!Qg!M*K# (C#&!9; ;6A!
,
W)K.'#D!R%&'!-\$%) 'L!dV* I %&D!%M# I !>*)=-.*@=#==e!>*)+#&#) -#! f &0%).P#D!C1! \ %/#!
Q).K#&=. '1!J=\$#)L!>*/%&&D*!L! f - '*C#&!9; ;6A!
,
F# (C#&L!] ['#&)%/!Y#K.# I !>*) * ((.'##!V@+='! "#\$%&' (#)'!*+!, *-.//*01! f - '*C#&!9; ;6A!
,
G@#='!R&*+##==*&L!W)=!'@'#!+*&!, *-./!] -*/01!Q).K#&=. '1!*+!g /%0#)+#/DL!X.#))%L! J @='&.%L!
S@)#!9; ;4A!
!
WD%!>*&D#/.%!<<#% (!" .='.)0@.=2#D!X.='.)0!R&*+##==*&L!Q).K#&=. '1!*+!W* I %L! f - '*C#&!9; ; :A!
!
,#/#-'!*)!>*) * ((.'##!Y%/\$2!] (#&=*)!J I %&DL!R2.!<#'%!g %\$\$%L!9; ; :A!
!
JDK.=*&1!G&*@\$!dV2#! Z *&c7U% (./17>* ((@).'1!M#[@=le! ,/*%)!U*@)D%'.*)!Y#=#%&-2!
R&*?#- 'L!H%&K%&D!g , G!%)D! , RHA!
!
,#/#-'!*)!>*) * ((.'##!J (#&.-%)!>*@)-./!*+!^#%&)#D!, *-.#'.#=#U#//* I =2.\$=L!9; ;E7;4A!!
!
U%-@/'1! Z 2.DC#1!W)=!'@'#!>*@&=#!*)!>2%//#)0.)0!G/*C%/P%'.*)L!J @0@='!9; ; :A!
!
U%-@/'1! , -2@ (%-2#&!>*/#0#!])0%)DL!>*@&=#!*)!>2%//#)0.)0!G/*C%/P%'.*)L!S@/1!9; ;EL!
9; ;8A!
!
U%-@/'1!V#%-2#&=!%=! , -2*/%&=!R&*0&% (L!H%&K%&D!G&%D@%'#! , -2**/*+!] D@-'!*)L!9; ;57
\$&#=#)'A!
!

X.=.'.)O!R&*+##=*&!] [-2%)0#L!JDK#&'=.)O!]D@-%'.*)!U*@)D%'.*)L!S@/1!9 ; ;5A!
!
R%&'-..\$%)'L!Z * &cL!U% (. /1!%)D! " # (*-&%-1!W).'.%' .K#!V2#!S*2)=*)!U*@)D%'.*)L!9 ; ; ;75A!
!
U% -@/'1L! , -2@ (%-2#&!> *//#0#L!])O/%)DL!S@/1!5NNNA!
!
JDK.=*&1!< *%&DL!G/*C%/!" #K#/*\$ (#)!%)D!] K.&*) (#)!W)='. '@!#L!V@+'=!Q).K#&=. '1L!5NN67
\$&#=#) 'A!
!
>*)=@/'%)'L!Q). '#D!M%'.*)=! " #K#/*\$ (#)!R&*O&% ((#L!

,
2 - + " 4 %0&1 . ?'>\$# 4 '1 0 2'9\$2% - '1 / /%1 . 1 0 + %* '@ABCDBEFG'
!
\ *@!M##D!V2.=A!9;9EA!
V2#!U*@&! " %1!Z ##cL!V] "!'%/cL!9;99A!
•] - *€) * (. - =3!U* @&!\$%&! =#&. # =!W!D#K#/*\$D!*)!'2#!-/. (%'#!-&. =. =L!9;99A!
" *!W!M##D!V2.=h!9;99A!
V2#!R#*\$/#!K=A! J (#&. - %L! J /7S%P##&%! (@/'.\$%&! =#&. # =L!9;56!a (-lB&F - %lB&X \$B0l&@) // \$%+&
C\$@&d - %A& I \$3#); 0l&" - %&I)l 4 &O/B&9Q+&> - l)#63b&!
F .) . (%/.= (L!9;54A!
G&* I '2<@=#&=L!9;54A!
J J YR!, %K.)0!U./ (L!9;58A!
Q=#^#=#L!+*&'2-* (.)0A!
, 2%&#- *) * (1L!+*&'2-* (.)0A!
F *) * - @/'@&#L!+*&'2-* (.)0A!
Y#=#./.#) - #L!+*&'2-* (.)0A!
G**D! f /D!G&* I '2L!9;58A!
^ .K.)0! I .'2!R/#) . '@D#L!V&.) . '1! Z %//!, '&##'L!M \ L!9;58A!
^% @&#)!G&##) +.#/D!Y# '&*= \$#-'.K#L!9;5 : A!
<<>! , #&. # =!*)!> *) = @ (#&!> @/'@&#L!9;5 : A!
M# I !] - *) * (. - =!5;5L! F #D.%!] D@ - %' .*) !U* @) D%'.*) !U./ (L!9;5EA!
" *!V2#! F %'2L!E8;A* &0!9;5EA!
F *) #1!%) D!^ . + #L!9;5EA!
H**c#D!*) !G&* I '2L!9;5; A!
R/%1!J 0%.)L!9;5; A!

dV2#!U@'@&#!*+!Z *&c!%)D!'2#!U*@&! "%1!Z ##c!F *K# (#)'le!R/#)%&1!R%)#/*)!V2#!U@'@&#!
*+!Z *&c!J ,]!Z *&/D!>*)O&#=#!*+!'2#!J ==*-.%'.*)!+*&! , *-.%/!] -*)* (.-=L!Q F %==j<*=')L!
S@)#!9;9:A!
,

d " *#=#!'2#!U@'@&#!*+!Z *&c!F #%)!^#=#!Z *&ch3!'2#! (*K# (#)'!+*&!%!*+@&!D%1! I ##cle!
g#1) *'#!] (#&0.)O!V#-2)*/*0.#=!%)D!'2#!U@'@&#!*+!Z *&c!>*)+##)#-#!Q F %==j<*=')L!
M*K# (C#&!9;9EA!
!

dV2#!U*@&! "%1!Z ##cle!g#1) *'#!, 2.)#!, @ ((.'!9;9EL!, 2.)#!%)D!H@ (%)!U/*&.=2.)O!
R&*O&% (L!H%&K%&D!Q).K#&=. '1!f - '*C#&!9;9EA!
,

dV2#!Y*/#!*+!R@C/.-!, #&K.-#=#!)D!Y#D@-#D!Z *&c.)O!V. (#!'*!J -2.#K#!>/. (%#!S@='.-#le!
]@&*\$#%)!R@C/.-!, #&K.-#=#!Q).*)L!R@C/.-!, #&K.-#! "%1!S@)#!9;9EA

dG#)#&%'.*)! Z #%/ '2le!W&.=!M.02'!=^#-'@&#L!J))#)C#&0! , \$%-#!+*&!R2*'*0&%\$21L!^*=-!
J)0#/#=L!S@)#!9 ;56A!

!
dV2#!0.0!#-*)*(1!._j.=!) *'!&#K*/@'.*) .P.)0!'2#! I *&/D!*+! I *&cLe!R/#)%&1!\$%)#/#! Z * (#)_=!
U* &@ (L! " #%@K.//#!M*K# (C#&!9 ;54A!

!
dG#''.)0!'*!R/#) . '@D#e!g #1) *'#! J DD&#=#L! J +'#!U*=-./!U@#/=3!V2#!M#['!] -*)*(1!
-*)+##&#)-#!! f C#&/.)!L! f - '*C#&!9 ;54A!

!
dV* I %&D!%M# I !] -*)*(13!V. (#L!>&#%' .K.'1!%)D!>*((@).'1le!R-*)+##&#)-#!R/#)%&1!
<@./D.)0!G**D!] -*)*(.#=>*)+##&#)-#!U* &D2% (!Q).K#&=. '1L!J \$&./!9 ;54A!

!
dQC#&.+.-%'.*)!*&! ,*/.D%&.'13!]K.D#)-#!+&*('!2#! ,2%&.)0!] -*)*(1le!W)K.'#D!^#-'@&#L!
Y2*D#!W=/%)D! , -2**!/*+! " #=.0)L!M*K# (C#&!9 ;58A!

!
d> **\$##%' .*)3!'2#! ,*/.D%&.'1!*+!'2#!U@'@&#L!>*)+##&#)-#!*)! Z #!M*'! F #L!'2#!U**D!*+! J //L!
M%' .*)% /! J ==*-.%' .*)!*+!>*)=@ (#&!> **\$##%' .K#=#L! F ./%)!] 1 R f 9 ;58L!S@/!19 ;58A!

!
d ,2%&.)0!] -*)*(1!%)D!'2#!U@'@&#L!*+! Z * &cle! , \$%P.*!^%K* &*>*)+##&#)-#!G.)0.%-* (*!
U#/'&.)#//.!U* @)D%' .*)L! F ./%)L!S@)#!9 ;58A!

!
dV2#!=2%&.)0!#-*)*(13!21\$##7-%\$.%' /,=(!*&!%!=@=%.)%C/#!/'#&)%'.K#he!U.&=#!W)'#&)%'.*)% /!
Z * &c=2*\$!*)!'2#! ,2%&.)0!] -*)*(1L!>*\$##&).'-@=#!W)='.'@'#!*+! , @=%.)%C/#! " #K#/*\$ (#)'L!
Q'&#-2!'!Q).K#&=. '1L!V2#!M#'2#&/%)D=L!S@)#!9 ;58A!

!
dH* (*! X%&.)=3! " .K#&=#! F *'.K#=#!%)D!] -*)*(.-! <#2K.*&!.)!'2#! ,2%&.)0!] -*)*(1le!
,2%&.)0!] -*)*(1!%)D!'2#!U@'@&#L!*+! F *)#1! I * &c=2*\$L! F *C./#! ^.#! >#)'#&!%)D! ,W> ,L!
, '*-c2*/ (L!S@)#!9 ;58A!

!
dY#&+% (.)0!'2#!>/. (%'#! " .- *@&=#le! " %K.D! F A!G* &D*)!^#-'@&#L!?' .*)!'!J (#&.-%)!
] -*)*(.-#!J ==*-.%' .*)jQ).*)!+* &!Y%D.-%/!R*/'!.-%/!] -*)*(.-#! ,#=#.*)L!J , , J! (##'.)0=L!
S%)@%&1!9 ;58A!

!
dV* I %&D!%!>/#%)!])#&01!U@'@&#L! F %=#!])#&01!J))@%/! F ##'.)0L! g #1) *'#! , \$%#c#&L!
>% (C&.D0#L! F J!L!M*K# (C#&!9 ;5 :A!

!
dZ * &cL! F %c.)0!%)D!'2#!V&%)=.!' .*)!'*!%!, @=%.)%C/#!] -*)*(1le!S#++!U%&&.=L!S&A!])D* I #D!
^#-'@&#L!Q).K#&=. '1!*+!>#)'&%/! J &c%)= %L! f - '*C#&!9 ;5 :A!

!
dV2#!M# I ! ,2%&.)0!] -*)*(13!\$%&%D* [#=#!*+!*\$#))#=#!%)D!D.='.)-'.*)le! , > f Y J W!

7>&#%'.)0!%R/#).'@D#!]-*)*(13!\$%'2 I %1=!*//* I

!
d<#1*)D!E4;!G&* I '2e!R/#)%&1!, #==.*)L! Z * (#)_=!U*&@ (L! " #%@K./!#L!U&%) -#L! f - '*C#&!
9;59A!

!
dZ * &c!%)D! " #7G&* I '2le!W) '#&)%'.*)% /!>*) +#&#) -#!*)! " #7G&* I '2!.)! '2#!J (#&.-%=L!
F*)'&#%/L! F %1!9;59A!

!
dV&@#! Z #%/ '23! f)7&% (\$!'*!%)# I !#-*)* (1le!g #1)*'#!, \$#%c#&L!<*=')*!<@./D.)O!
Y#=#&-#=#!J))@%/!F##'.)O!S@)#!9;59A!

7G#'.)O!'*!R/#).!@D#3!<@./D.)O!%, (%//7, -%/#L!^* I 7



dZ2%'!Z#!J&#!^.#3!>*)=@ (#&.= (!.)!>*)'# (\$*&1!>*)'#['e!g#1)*#!%DD&#=#!'!
d,#''.)O!'2#!-*&=#3!\$%'2='!*!=@=%.)%C/#! I %1='*+!/.+#!d,1 (\$*=@ (L! "#)c I #&c!s@c@)+!
U*@)D%'!*)!+*!&-@/'@&#/#&#)# I %/L!<#&/.L!S%)@%&1!9;55A!
!
dR/#).'@D#!%)D!<@=.)#=#!%!=!,*-%!/W)) *K%'.*)le!g#1)*#!JDD&#=#L!"*.)O!G**D!%)D!"*.)O!
Z#//!>*)+##) -#!W],]!<@=.)#=#!, -2**/L!<%&-#/*)%L!, \$%.)L!U#C&@%&1!9;55A!
!
d>*)=@ (\$'.*!)%D!, @=%.)%C./.'13!V* I %&D!'2#!R/#).'@D#!] -*)* (1le!>*/#0#!*+!
>2%&/#=#*)L!W)K.'#D!^#-'@&#!M*K# (C#&19;5;A!
!
dZ *&cL!U% (.!1!%)D!'2#!R/#).'@D#!] -*)* (1le!g#1)*#!JDD&#=#L!<%/%) -#D!^.#K#=
,1 (\$*=@ (L!Q).K#&=. '1!*+!W* I %L!R@C/.-!R*/.-1!>#)'#&L!f - '*C#&19;5;A!
!
dR/#).'@D#!e!W)K.'#D!^#-'@&#!W)=.'@'#!+*!&!JDK%) -#D!, '@D1L!Q).K#&=. '1!*+!F.))#=#%'L!
f - '*C#&19;5;A!
,
dR/#).'@D#3!#)K.=.*.)O!%!=@=%.)%C/#!#-*)* (1le!g#1)*#!g.-c7f++!>*)+##) -#!+*!&!>9>L!
Z../% (=!>*/#0#!])K.&*) (#)'%/!, '@D.#=!R&*O&% (L!, #)\$' (C#&19;5;A!
,
dR/#).'@D#3!* I %&D!%!=@=%.)%C/#!#-*)* (1le!J))@%/!, ,Y>!^#-'@&#!Q).K#&=. '1!*+!
G%/ I %1!G%/ I %1!W&#/%)DL!S@)#!9;5;A!
,
dU&* (!] -*-.D#!*!R/#).'@D#!e!R.'P#&!>*/#0#!>#)'#&!+*!&!, *-%!/W)k@.&1le!J \$&./!9;5;A!
,
dJDD&#=#.)O!'2#!' I .)!-&.=#3!+&* (!%=@=#&.'1!*!\$/#).'@D#!e!F - J @/#1!^#-'@&#!, 'A!S*=#\$2_=
>*/#0#!>*)#-'. -@'L!J \$&./!9;5;A!
,
dR/#).'@D#!%)D!>*)=@ (#&!>@/'@&#!e!"#).=*)!Q).K#&=. '1L!U#C&@%&1!9;5;A!
,
dF %-&*#-*)* (.!>*)D.'!*)=!+*!&!, @=%.)%C./.'1le!G&* I '2!.)!V&%)=.'!*)L!J @=&.%!^WU]!
(.)='&1!-*)+##) -#!S%)@%&1!9;5;A!
,
d, *--%/!<#2%K.*&!%)D!'2#!V&%)=.'!*)!*!, @=%.)%C./.'1le!H#&C#&!,\$#) -#&!^#-'@&#!f [+*&D!
Q).K#&=. '1L!F %&-2!9; ;NA!
!
dU%='!U%=2.*)3!J!F %-&*7F %'##&./='!J)%/1=.=!*+!Q, !>*)=@ (\$'.*)L!5NNT79; ;8le!
F%) -2#=#&!Q).K#&=. '1L!>#)'#&!+*!&!, @=%.)%C/#!>*)=@ (\$'.*)L!F %&-2!9; ;NA!
!
d>*)=@ (#&!>@/'@&#!%)D!G&##Dle!>*)K#&=#'.*)! I .'2!" %K.#!^*1L!J @&*%&!U*%&@ (L!, '%)+*&D!
Q).K#&=. '1L!" #-# (C#&19; ;TA!
!
d, @=%.)%C/#!>*)=@ (\$'.*)le!R2.//.\$=J)D*K#&!J -%D# (1L!f - '*C#&19; ;TA!
!
dV2#!R%&D* [!*+!J ++/@#) -#!e!g#1)*#!JDD&#=#L!M%'.*)/!>*)+##) -#!*)!H*) *&=!, '@D1!
V*\$.-!R2.!V2#!%'!g%\$\$\$!H*) *&=!, *-.#'1L!, %) !U&%) -.-*!, '%#!Q).K#&=. '1L!S@)#!9; ;TA!
!

] -*)* (.-!%)D!G#*7R*/.'-!/V&%)=+*& (%'.*)Le! f \$#).)O!g#1)*'#!JDD&#=#L!, .['2!M*&D.-!
>*)+#&#)-#!*!)K.&*) (#)'%/!, *-./!, -.#)-#=#!V@&c@jJC*L!U.)/%)DL!S@)#!9; ;EA!
!
d, @='%.%)C/#!>*)=@ (\$'.*)!%)D!J (#&.-%)!W (\$#&.%/.=(Le!g#1)*'#!JDD&#=#L!Q, !] -*/0.-%/!

d<#1*)D!%!] -*)*(1!*+! Z * &c!%)D!, \$#)Dle!^ .C#&%/! J &'=!%)D!, -.#) -#>#)')#) .%/!
, -2*%&!W)K.'#D!^#- '@&#L! " #R%@/!Q).K#&=. '1L!M*K# (C#&!9; ; ; ; A!
!
dV2#!M# I !>*)=@ (#&. = (le! J))@%/!>*)+##&#) -#!*+!Y#=#*)=.C/#! Z #%/!2L!<*=*)L! J \$&./!
9; ; ; ; A!
!
dM#0*'.%' .)O!'2#!>*)=@ (#&!>@/'@!>2./D&#)!)D!R%&#)'=le! , /%*)j<#&c#/#1j<Y Z U!
, \$*)=*&#D!>*)+##&#) -#!*!)d Z * &c!%)D!U% (./13!] [\$%)D.)O!'2#!H* &.P*)=le! , %) !U&%) - .=-*L!
F %&-2!9; ; ; ; A!
!
dV2#! f K#& I * &c#D! J (#&. -%)le!>*/#0#7 Z .D#!^#- '@&#L! , I %&'2 (* &#!>*/#0#L! f - '*C#&!
5NNNA!
!
dV. (#L!+* &!% !>2%)O#3!V&%)=+* & (.)O!'2#! , '&@- '@&#=!*+!] K#&1D%1!^ .+#!le! g #1)*'#! J DD&#==!%'!
"@c#!Q).K#&=. '1! Z * (#)_=! , '@D.#=>*)+##&#) -#!9 : j6Y#='!%)D!Q)&#='L! f - '*C#&!5NNNA!
!
G&&D@%' .*)! J DD&#==!Y%D-./ .+#! , # (.)%&=L!Y%D-./ .+#!>*/#0#L!S@)#!5NNNA!
!
dV. (#!%)D! F *)#13!H* @=#2*/D=!)Q)D#&!R&#==@&#le! g #1)*'#!%DD&#==!%'!Y%D-./ .+#!R@C/ .-!
R*/. -1!W)' . '@#jU* &D!U* @)D%' .*)L! Z * &c!%)D!^ .+#!9; ; ; ; !Y* @)D'%C/#L!M# I ! \ * &c!>.'1L! F %1L!
5NNNA!
!
F .//#) .@ (7V%0#!>*)+##&#) -#!! g %==#/#!G#& (%)1L!5NNTA!
!
wV2#! f K#&=#\$)'! J (#&. -%)Lw! J &'=!%)D!H@ (%).' .#&^#- '@&#L! , #&. #&=L!U&% (.)O2% (! , '%#!
>*/#0#L!5NNTA!
!
w<#1*)D!%!] -*)*(1!*+! Z * &c!%)D!, \$#)DLw!W)%@O&%/! f &%'. #L!V./C@&O!Q).K#&=. '1L!5NN6A!
wV2#! f K#&=#\$)'! J (#&. -%)Lw!<*=*)!>*/#0#!H@ (%).' .#&=, #&. #&=j^* I #/!^#- '@&#L!5NNTA!
!
d<#1*)D! Z * &c!%)D!, \$#)DLw!M# I ! , '&% '#0.#=>+* &!] K#&1D%1!^ .+#!>*)+##&#) -#!V./C@&O!
Q).K#&=. '1L!5NN4A!
!
wV2#!W) -&#%=.)O!R% -#!*+!^ .+#!Lw! " **&=!*+!R#&-#\$'.*)! : L!M#'2#&/%)D=! " #=.O)!W)' . '@#L!5NN4A!
!
!

J)) .K#&=%&1!>*)+##&#) -#L!W)=.'@'#!+*&!U@)D% (#)'%!/R*/.'-%/!] -*)*(1L!g%)=%.!
Q).K#&=. '1L! f =%c%L!5NNE!a\$@C/.=2#D!.)!, - .%/Olk - "k>-1)#)60!k=6-/-4 1L!z64L!F %1!5NN :bA!!
!
w] -*)*(.-! " .=-*@&=#!%)D!'2#!u @%/.'1!*+!^ .+##L! " #C=7V2* (%=7<#&)=#.#)!J I %&D! " .))#&L!
<*= '*!)L!5NNEA!
!
F #)L! Z * (#)!%)D! Z * &c3!V. (#=!J &#!>2%)O.)Olw!S#=#! " %).#/#J (#=!^#- '@&#! , #&. #=#!
, *@'2 I #=#&!)Q).K#&=. '1L!5NNEA!!
!
wV2#! f K#& I * &c#D! J (#&. -%)Lw! " .='.)O@.=2#D!X.=.'*&!^#- '@&#! , #&. #=#!Q).K#&=. '1!*+!
" %1 '*!)L!5NNEA!
!
wY#/#-'.*)=!*!)V2#! f K#& I * &c#D! J (#&. -%)Lw!^*@" * @O/%=!^#- '@&#! , #&. #=#!g%)=#! , '%#!
Q).K#&=. '1L!5NN9A!!
!
>*)+##&#) -#!*)!w Z * &c.)O! Z *)D#&=3! Z * (#)`=R#&=#%)%/L!R&*+##=.*%)!/%)D!R@C/.-!Y*/#=#Lw!
Y%D-./.+#!>*/#0#L!5NN9A!
!
wV2#! f K#& I * &c#D! J (#&. -%)3!W (\$/.-%'.*)=!*&!Y#- &#%' .*)!R&*+##=.*%)%/Lw!M%' .*)%/!
Y#- &#%' .*)!)D!R%&c=! J ==*-.%' .*)! J))@%/! F ##'.)OL!5NN9A!
!
dV2#! f K#& I * &c#D! J (#&. -%)Lw!J))@%/!>*)+##&#) -#L!H@ (%)!Y#=#*@&-#=#! F %)O# (#)!
J ==*-.%' .*)!*+!>2.-%0*L!5NN9A!
!
>*((#) -# (#)!J DD&#=#L! Z .)-2#=#&7V2@&=#*!) , -2**/!+*&!G.&=#L!R. '=C@&02L5NN9A!
!
!
!
!
/ . %%%0&%2' / 1 / % . *; '&1 # 6 *; 'HIF'9\$. &' 1 # ' 1 / / % 1 . 1 0 + % *'
!
dF #0%/*\$*/.=le!\$*='7+./ (!D.-@==.*)! I . '2!U&%) -.=!U* &D!>*\$\$/%L! J #&#!V2#%'&#L! , %) '%!
F *). -%L!S%)@%&1!5L!9; 98A!!
!
dU.K#! , '\$\$='*!%!, @='%)%C/#!%)D!R#%-#%C/#!] -*)*(1le!! F %==!R#%-#! J -'.*)! Z #C.)%&L!
" #-# (C#&!9; 9 :A!
!
dV2#!U* @&7 " %1! Z * &c I ##c!%)D!'2#!U@'@&#!*+! Z * &cle!>&#.02'*)!Q).K#&=. '1L!M*K# (C#&!
9; 9 :A!
!
>*)K#&=#'.*)!*!)!2#! , 2%&.)O!] -*)*(1L!R&*0&#=#h! , # (.)%&=#L! J (2#&=#!>*/#0#L!M*K# (C#&!
9; 9 :A!
!
dV2#!+* @&!D%1! I ##c!%)D!/*-!/O*K#&) (#)'3! I #//7C#.)OL!#-*)*(.-!%)D!-/ . (%'#!. (\$%- '=le!

d>%)!'2#!+*!D%1! I ##c!%DD&#==!C@&)*@'he!'%/c!'*!V2.=!>%)!H%\$\$#)!>*)+##)#-#! f - '*C#&! 9;9:A!

d , @--##D.)0!%)D!U%./.)0! I .'2!'2#!U*!@&! " %1! Z ##c!e! , J ,]!J))@%/! F ##'.)0L!^ . (#&.-c! S@)#!9;9:A!

d " *#='2#!U@'!@&#!*+! Z *!c! F #%)!^#==! Z *!c!e!'%/c!'*!H%&K%&D!V&%D#!Q).*)!R&*0&% (L! VQ>!^#%D.)0!>2%)0#!R&*0&% (L!H%&K%&D!Q).K#&=. '1L!S@)#!9;9:A!

dV2#!] [\$#&.#)-#!*+!G.0!Z *!c3!<#1*)D!R/%'+*!& (!" #'#& (.).= (Le!\$%)#/#!*)!Z *!c#&=_!] [\$#&.#)-#!*!>@/(.)%'.)0!Z *!c=2*\$!*+!M , U!U Z 7HVU!\$&*?#-'!*)!dV2#! J /0*!&.'2 (.-! Z *!c\$/%-#le!M*!&'2#%='#&)!Q).K#&=. '1L! F %1!9;9:A!

dZ 2%'!H%\$\$#)=!'*! , *-.*/*01_!o<.0! u @#='.*)=_!.)!%)!J 0#!*+!])K.&*) (#)'%/! Q)-#&'%.)'!h!e! J , J!V2#*!1! , #-'.*)L! " .=-@==%)!L! F %1!9;9:A!

F *D#&% '*&L!V2#!H*!'#=#! \ #%&3!.)!*@&!%' (*=\$2#&#!%)D!*@&!\$*/.'.-=L!R%)#/#!D.-=@==.)*! I .'2!

!

d f I)!V2.= {3!H* I !R/%'+*& (!> **\$#&%'.K#=#H#/\$!Z *&c#&=#!<@./D!%"# (*-&%'.-!W)'#&)#'le!.)!



dV2#! "#C%'#!JC*@!G.O!^%C*&3!M#I!Z%1!'*!Z*&c!*&!M#I!Z%1!'*!] [\$/*.'hle!>*++##!%)D!
>*)K#&=%'.*)!,#&.#=L!>*)'.)@.)O!]D@-%'.*)!R&*O&% (L!<*=*)!>*/#O#L!J\$&./!9;99A!

!

dF #%=@&.)O!'2#!>%&C*)!)D!Z#//7C#.)O!W (\$%-='*+!%U*@&!"%1!Z*&c!Z##c3!V&.%/=!+&* (!
W&#/%)D!%)D!'2#!QA,Le!U%-@/'1!Y#=#%&-2!,#&.#=!*!)!>/. (%'#!>2%)O#L!, -2.//#&!W)=.'@'#L!
<*=*)!>*/#O#L!J\$&./!9;99A!!

,

dV2#!G.0!] -*)*(1le!Z *&c\$/% -#!V2#*&1!)D!R*/.-1!Z *&c=2*\$3!Y#. (%0.)0!Z *&c!J+'#&!9;9;l!\ %/#!Q).K#&=. '1L!U#C&@%&1!9;95A!

!

dZ *&c.)0!V. (#!Y#D@-'.*)!+*&!%U%.&L!, @='%.)C/#L!%)D!R&*=\$#&*@=!, *-.#'1le!R%)#/" .=-@==.)*!%'!]VQW7]VQ>!V* I %&D!%M# I!, *-.*7] -*/*0.-%/!>*) '&%-'!>*)+#&#)-#L!U#C&@%&1!9;95A!

!

d "#\$#)D#)-#!%)D!R&#-%&.'1!.)'2#!G.0!] -*)*(1le! F %&c#'\$/%-#!! J/0*&.'2 (=!)D! " #-.)!
,# (.)%&L!>*/@ (C.%!Q).K#&=. '1L! J @0@='!9;9;A!

!
d>/. (% '#!>2%)0#L!W)#k@%/.'1!%)D!'2#!G&##)!M# I! " #%/Le!R&#=#)'%.*)!'*!, @ ((#&!, -2**/!
QM>VJ " jWM] VL! J @0@='!9;9;A!

!
dZ 2%'!D*!R/%'+*& (=! " *he!] @&*\$#%)!%)D!G/*C%/!, '@D.#=L!Q).K#&=. '1!*+!R%D@%L!S@)#!9;9;A!

!
dZ *&c.)0!V. (#!Y#D@-'.*)le!g#1)*'#!R%)#/L! " #G&* I '2!>*)+&#)-#!X.#))%L!S@)#!9;9;A!

!
dZ 2%'!>%)!> f XW " 75N!V#%-2!Q=hle!

d>%\$. '%/.= (3!'2#!+@'@&#!*+!%)!./@=.*)le!R/#)%&1!R%)#/L!] %=#&!)!, *-.*/*0.-%/!, *-.#'1L!
J))@%/! F ##'.)O! F %&-2!9;5NA!

dY#=#%&-2!*!'2#!, 2%&.)O!] -*)* (1le!\$&#=#)'%'.*)!'*!"#\$%&' (#)'!*>* ((@).-%'.*)=!
>*//*k@.@ (L!<*=*)!>*//#0#!U#C&@%&1!5TL!9;5NA!

" .=-@==%)'L!, # (.)%&!*)!'2#!H.= '*&1!*+!Z * (#)L!G#)D#&L! ~!, #[@%/.'1L!, -2/#=.)O#&!
^.C&%&1L!H%&K%&D!%)D! F %== -2@=#'!'!H.= '*&.-%/!, *-.#'1L!U#C&@%&1!9;5NA!

dV2#!, 2%&.)O!] -*)* (1L!R/%'+*& (!>*7*\$=!%)D!'2#.&!^ (.'!>*)+##&#)-#!*)!!>/. (%'#!
U@'@&#=#L! " #=.O)!%)D!'2#!S@='!V&%)=.'* | J!, 1 (\$*=.@ (jYW, " 7<&* I)L!M*K# (C#&!9;5TA&#!*+!%)!./@=L (.+*& (

d>%)!F%&c#'.)0!F%&c#!!" .+&#&#)-#he!\%/#!,1(\$*=-.@(!*)!>*)=@(#&=!%)D!>*)=@(\$'.*)L!
F%&-2!9;56A!

!

d>*)=@(\$'.*)!.)!2#!J)'2&*\$*-#)#le!Y#'.2.)c.)0!]-*)*(.-!H.=*!&1!.)!2#!J)'2&*\$*-#)#!
Z*!&c=2*\$L!<*=!*!)!>*/#0#!F%&-2!9;56A!

!

d>/.(#'#!%)D!Z*!&c.)0!H*!&=le!,#=#.*!)*)!>/.(#'#!>2%)0#!]]%=#&!)!,*-.*/0.-%/!
J==*-.%'.*)!F##'.)0=L!R2./%D#/\$2.%L!U#C&@%&1!9;56A!

!

d]'2.-%/!>*)=@(\$'.*)le!]]%=#&!)!,*-.*/0.-%/!J==*-.%'.*)!F##'.)0=L!R2./%D#/\$2.%L!
U#C&@%&1!9;56A!

!

F*)#1!V%/c=L!J@'2*!&!F##'=>&.'.=-!,#=#.*!)L!]]%=#&!)!,*-.*/0.-%/!J==*-.%'.*)!F##'.)0=L!
R2./%D#/\$2.%L!U#C&@%&1!9;56A!

!

dW)#k@%/.'1!%)D!R&#-%&.'1!.)!2#!R/%'+*!&(!]-*)*(1le! ".0.'%/!W).'.%'.K#!,#(.)%&L!H%&K%&D!
<@=.)#=#!, -2**/L!U#C&@%&1!9;56A!

!

d"#\$#)D#)-1!%)D!R&#-%&.'1!.)!2#!R/%'+*!&(!]-*)*(1le!>QM\!,*-.*/0!!"#\$%&'(#)'L!
M#I!\ *!&cL!U#C&@%&1!9;56A!

!

d>2&.=(' %!>*)=@(#&.= (L!)D!^%&D%*! ,le!R%)#/.='!+*!&!G/*C%/!>'2*/.-!>/.(#'#!>2%)0#!
F*K#(#)'!Z#C.)%&L!"#-#(C#&!9;54A!

!

dR&%-'.-.)0!'2#!-* ((@).'17C%#D!)#I!#-*)*(1le!Z*(#)=!U*!&@ (L!"#%&K./#!
M*K#(C#&!9;54A!

!

d]-*/0!L!Y#/.0.*)!)D!] '2.-=3!V2#!Y*/#!*+!Y#/.0.*)!)D!] -*/0!le!Y#/.0.*)L!] -*/0!
%)D!f @!&R/%)#'%&1!U@'@&#L!>#)'#&!+*!&!2#!,'@D1!*+!Z*!&/D!Y#/.0.*)=L!H%&K%&D!Q).K#&='1!
f-'*C#&!9;54A!!

!

dY#0#)#&%'.K#!>%\$.%/.=(!%)D!>/.(#'#!>2%*=le!>*)K#&=%'.*)!I.'2!S*2)!U@//#&'*)L!J+'#&!
U*=-./U@#/=3!V2#!M#[!']-*)*(1!-*)+#&#)-#!fC#&/.)L!f-'*C#&!9;54A!

!

dJ@'2*!&!F##'=>&.'.=-3!S@D.'2!Z%-?(%)L!R&#=#D!+*!&!V.(#L!J))@%/!F##'.)0L!J(#&.-%)!
,*-.*/0.-%/!J==*-.%'.*)L!,#%'!/#L!J@0@='!9;54A!

!

d"#70&*I'2!%)D!2*!&!&#D@-'*)=3!%)#-#=#&1!(.'0%'.*)!\$*/.-1!*!&!\$&*0&#=#.K#!+%)'%=1he!
R%)#/#=#=#.*!)%!'!J))@%/!F##'.)0L!, , ,RL!,#%'!/#L!J@0@='!9;54A!

!

dZ2*!G#='!*!,2%&#!.)!2#!d,2%&.)0!] -*)*(13!Q)D#&=%)D.)0!'2#!R%'#&)=!*+!
R%&'-.\$.%'.*)!)D!] [-2%)0#!.!)!J.&C)Cle!aI.'2!F#2(#'!>%)=*1bl!>*)+&#&#)-#!*)!f\$#)!%)D!
Q=#&!W))K%'.*)L!H%&K%&D!<@=.)#=#!, -2**/L!J@0@='!9;54A'

!

dV%/#=#!+&* (!'2#!,2%&.)0!] -*)*(1le!<#1*)D!'2#!<%=-=>*)+&#&#)-#!W)='.'@#'+*!&!>%&#&#&!
V%&#)='.*)=L!F#V!F%1!9;54A!

dR&* (*'.)0!] -*) * (.-! J /'#&)% '.K#=#K.%!R@C/.-!, *-.*/*01le! J , J!, #==.*)L!, #-'.*)!*)!
, *-.*/*0.-%/R&%-' .-#!%)D!R@C/.-!, *-.*/*01le! J))@%/! F ##'.)0L!>2.-%0*L!W^!L! J @0@='!9;58A!
!

d " #C%'.)0!'2#! , 2%&.)0!] -*) * (1le! f W g f , !V2.)c!V2%)cL! J)' I #&\$#)L!<#/@. (!L!S@)#!
9;58A!
!

d ,.'@%'.)0!'2#!] '2.-%/!>*)=@ (#&3!.)D.K.D@%/!%-'.*)!%)D!=1='# (.-!-2%)0#e!>*)=@ (\$'.*)!
] '2.-=!)! , *-.#'1! , # (.)%&L!] , Y>!R&*?#-'!*)!] '2.-=!)!>*)=@ (\$'.*)3!W)'#&D.-.\$/.)%&1!
R#&=\$#-' .K#=#L!Q).K#&=. '1!*+!^#.-#=#&L!S@)#!9;58A!
!

R%)#/.='!d<=#C%//!%)D! J (#&.-%)!^ .#le!V2#!G&#%'U#) I %1!R%&c! Z &.'#&=#! , #&.#=#!U#) I %1!
R%&cL!<#='*')L! F %1!5NL!9;58A!
!

u ~ J!>/. (%'#!>2%)0#J -'.*)!]K#)'L!Q).'#D!M%'*)=!]]> f , f>L!=\$*)=*#D!C1!U&#) -2!
(.=#.*)!'*!'2#!QML!%+'#&!>2* I .)0!*+!'2#!+./ (L! (--Bk : lBk (%-@# 'L! J \$&./!9;58A!
!

dR&* (*'.)0!] -*) * (.-! J /'#&)% '.K#=#K.%!R@C/.-!, *-.*/*01le!W)K.'#D! , #==.*)#)'./#D!
" .=# (.)%'.)0!Y#=#%&-2!<#1*)D!'2#! J -%D# (1L!J (#&.-%)! , *-.*/*0.-%/! J ==*-'.'*)!
F ##'.)0=L!>2.-%0*L!9;58A!
!

d , #'.')0!'2#!Y#=#%&-2! J 0#)D%le!Y# (%&c='*!V2#!M#['! , 1=# (!R&*?#-'! F ##'.)0L! F WV!
F #D.%!^%CL! " Q , Rj F WV! " #=# (C#&!9;5 : A!
!

dR%&%D* [#=#*+! f \$#))#=#!%)D! " .='.) -'.*)!.)!'2#! , 2%&.)0!] -*) * (1le!H%&K%&Dj F WV!
] -*) * (.-! , *-.*/*01! , # (.)%&L!M*K# (C#&!9;5 : A!
!

d \ *@&!M#['!<.0! , '%&'@\$!WD#%3! Z 21!W)'#&)'#!R*/.-1! F %'#&=le!Y*#@)D'%C#/\$%&'-.\$.%)'L!
W)'#&)'#!R*/.-1! , 1 (\$*=@ (!H%&K%&D!W)='.'@#'+!R*/.'.-=!)D!<#&c (%)!>#)'#&L! , #'\$# (C#&!
9;5 : A!
!

dH%)D (%D#! F %'#&=L!aY#bW (%0.))0!oH* (# (%D#_!U**D!'!'2#!<*@)D%&.#=#*+!U**D! , I %\$!
>.&-@.'=le!R%\$%&L!\$%&=#)'#D!'! J , J! , #==.*)!*)!>*)=@ (#&=!%)D!>*)=@ (\$'.*)L! , %)!
U&%) -.-*!L! J @0@='!9;5 : !a I .'2!>*))*&!U.'P (%@&.-#bA!
!

d>%)! F %&c#!'<=#D! J /'#&)% '.K#=#<#!V&%)=+*& (%'.K#h!R/#)'.@D#!R%&'-.\$.%*'&1! F %&c#'=!
)D!Y2.P* (%'.-!Y#=#%) -#le! J , J! , #==.*)!*)!>*)=@ (#&=!%)D!>*)=@ (\$'.*)L! , %)!
U&%) -.-*!L! J @0@='!9;5 : A!
!

J! " ##\$#&!^**c!'!'2#!^ (.'!'*!G&* I '2!M# I!] -*) * (1!V&%)='.'*)=I #C.)%&L!W)='.'@#'+*&!
R*/.-1! , '@D.#=#! Z %2.)0!*')L! " A>AL!S@)#!9;5 : A!
!

!dM# I ! Z %1=#*+!^ .K.)0!.)!%!>/. (%'#!>*)='&%)#D! Z *&/Dle! :5='!%))@%/!^*)#&0%)!
Z *&c=2*\$L!<#='*')!>*/#0#L!S@)#!9;5 : A!
!

dV2#! , 2%&.)0!] -*) * (1le!R%)#/'! " .=-@==.*)L!>* ((*)<*@)D!>*)+##&#) -#L!M# I!] -*) * (1!
>*%/'.'*)L!M*#&'2#%=#&!)Q).K#&=. '1L!S@)#!9;5 : A!
!

!
dJ)#!# (#&0.)O!#-*72%C.'@=3!'2#!&#-*).0@&%'.*)!*+2.02!-@/'@&%/!-%\$. '%/!\$&%-'.-#=# (%*)O!
'2.-%/!-*)=@ (#&=le!, > f Y J W!>*)+##&#)-#!!>/%&c!Q).K#&=. '1!S@)#!9;5EA!
!
d]-*/01!%)D!V. (#!)!'2#!>&.=!*+! Z *&c!e!G/*C%/!>%\$. '%/.= (!%)D!'2#!>&.=!*+! Z *&c!
>*)+##&#)-#!!Q).K#&=. '1!*+!>2.-%0*! J \$&./!9;5EA!
!
!dR&%-'.-%/!=#\$=!*&!&#D@-.)O!2*=@&=*+! I *&c!e!M# I !] -*)* (.-=!W)=!'@'#!>*)+##&#)-#!!
Q).K#&=. '1!*+!<&.'. =2!>*/@ (C.%! J \$&./!9;5EA!
!
!dR&.)-.\$/#=!*+!M# I !] -*)* (.-=le!U@)D#&=_!>%//!+*&! Z *&c.)O!G&*@\$!*)!M# I !] -*)* (.-=!
J \$&./!9;5EA!
!
dM# I ! (*D#/#=!*+!\$&*D@-'.*!)%D!-*)=@ (\$'.*)le! F W V!M# I !] -*)* (.-=! " .=-@==.*), #&.#=!
J \$&./!9;5EA!
!
dM# I !] -*)* (.-=le!>*)+##&#)-#!*)!Y#7. (%0.)O! f @&!] -*)* (.-!, 1=# (L! F .-2.0%), '%#!
Q).K#&=. '1! F %&-2!9;5EA!
!
dQ)D#&=%)D.)O!, @='%.%)C/#!>*)=@ (\$'.*)le! J))@%/!R&#==!>*)+##&#)-#!!< F Z L! F @).-2!
G#& (%) 1! F %&-2!9;5E!
!
dZ 2%'! =*-.%/!=-.#)-#!2%=!/#%&)#D!%C*@'!&#=\$*)=#=!*'!-/. (%#!-2%)O#le!H%&K%&D!>* ((.'##!

!
d " .=-@==%)'le! J , J !R%\$##!=#==.*)!*>*)=@ (\$'.*)!)D!W)#k@%/. '1L! " #)K#&L! J @0@='!9 ;59A!
!
, \$*'/.02!'R%)#/'R%&'!-.%)'L! F .).7-*)+##&#)-#!*)!G/*C%/P%'.*)!)D!>*)=@ (\$'.*)! J , J !
>*)=@ (\$'.*)! , #-'.*)7.)7U*& (%'.*)!L!Q).K#&=. '1!*+! " #)K#&L! J @0@='!9 ;59A!
!
dV&@#! Z #%/'2le!R@C/.-!^#-'@&#!=\$*)=*&#D!C1! , (.'2!>*/#0#! " #S%&&' (#)!*+! , *-.*/*01!%)D!
F #D.%!]D@-%'.*)!U*@)D%'.*)!M*%&'2% (\$'*)!L! F J L!S@/1!9 ;59A!
!
d , '&%'#0.#=+*!&G*.)0!G&##)le!^@)-2#*)!V%/c!'!*<=*')!>*/#0#!^C&%&%)=!G&*@\$! J \$&./!
9 ;59A!
!
d Z *%&c.)0!H*%&=#!)D!M#[!'^#+!le!>*)+##&#)-#!*)!'2#!M#[!'^#+!3!<@./D.)0!M# I !
>* ((@).'.#=#le!H%&K%&D!^ I ! , -2**/L!>% (C&.D0#L! F J L! J \$&./!9 ;59A!
!
dR/#).'@D#le!V&%)=.'*)!'!%#M# I !] -*)* (1!>*)+##&#)-#L!H%&K%&D!Q).K#&=. '1! F %&-2!9 ;59A!
!!
dR/#).'@D#3!'2#!\$% '2 I %1!'!*=@=%.)%C./.'1le! F #//*)!U#//* I =! , # (.)%&!%)D!R@C/.-!V%/cL!
<&* I)!Q).K#&=. '1!U#C&@%&1!9 ;59A!
!
d Z *%&c.)0!H*%&=#!)D! " #7G&* I '2le! Z *%&c=2*\$!'!#'*\$.%L!<&@=#/L!S%)@%&1!5 :L!9 ;59A!
!
d Z *%&c.)0!H*%&=#!)!'2#! " #C%'#!%C*%!'G&* I '2!%)D! , @=%.)%C./.'1le!)# I !#-*)* (.-#!
+*@)D%'.*)!-*)+##&#)-#L!V* I %&D=95!H*%&=#!) , #''.)0!'2#! J 0#)D%!'*%&! , 2*%&#! Z *%&c.)0!
Z ##cL!^*)D%!) , -2**/!*+!] -*)* (.-#L!S%)@%&1!59L!9 ;59A!
!!
d] -*)* (.-#!+*%&'2#!NN • le!H%&K%&D!Q).K#&=. '1! f --@\$1!V#%-27.)L!M*K# (C#&!6L!9 ;55A!
!d>*)=@ (\$'.*)!)D! , @=%.)%C./.'1le!] R J ! Z #C.)%&L!�.*)!5 ;L!M*K!5L!9 ;55A!
!
d , 2%&.)0!%)D!>%&.)03!M# I !>*)=@ (#&!R&#-' .-#=#!)!%!" .0.%!/ J 0#le!R&#-' .-.)0!R/#).'@D#!
>*)+##&#)-#L!<=*')!>*/#0#!! f -'*C#&!9 ;55A!
!
dR&%-' .-.)0!R/#).'@D#le!R&#=#)'%'.*)!'!*'2#!C*%&D!*+!'2#!>#)'#&!+*%&!H@ (%)=!)D!M%'@&#L!
>2.-%0*L! f -'*C#&!9 ;55A!
!
d<@./D.)0!'2#!R/#).'@D#!] -*)* (1le! , @=%.)%C/#!<#/(*)!'^#-'@&#! , #&.#=#L!<#/(*)!'H.//!
, -2**/L!<#/(*)!L! F %=#L! f -'*C#&!9 ;55A!
!
d Z *%&c!H*%&=#!>*)=@ (\$'.*)!L!%)D!>/. (%'#!>2%)0#3! J !>&*==7M%'*)%/'R%)#/' J)%/1=#!*+!
f] >" !>*@)'&.#=#L!5N6 ;79 ; ;6le!'!>%\$. '%/.= (!*)!V&.%/!R] YWL!Q F %=#L! f -'*C#&!9 ;55!
!
d>*)#-'#D!>*)=@ (\$'.*)le!V%/c!'!G@00#)2#. (j< F Z !^%CL!M# I ! \ *%&c! f -'*C#&!9 ;55A!
!
dV&@#! Z #%/'2le! J !>*)K#&=%'.*)!%C*%!'! , @=%.)%C/#!R&*O&#=#L! " # (*=j Z *%&D!R*./-1!
W)=.'!@#L!M# I ! \ *%&c! f -'*C#&!9 ;55A!
!

dW=!G&* I '2!, @='%.)%C/#he!V%\$&***'!=!>*/k@.@ (L!>#)'#&!+*&!>* ((@).'1!>2%)0#L!Y*C#&'!
UA! Z %0)#&!G&%D@%'#!, -2**/!*+!R@C/.-!, #&K.-#L!M# I ! \ *&c!Q).K#&=. '1L! " #-# (C#&!9; ;4A!
!
dV&#)D=!.)!'2#!>* ((#&-.%/P%'.*)!*+!>2./D2**Dle!, # (.)%&!\$&#=#)'#D!'!M%'.*)%/
>*)=@ (#&=!>*@)-./L!^*)D*)L!M*K# (C#&!9; ;4A!
!
dV2#*&#'.-!/W==@#=#!)!'2#!>* ((#&-.%/P%'.*)!*+!>2./D2**Dle!R%\$&!\$&#=#)'#D!'!, # (.)%&!
)!'2#!H.= '*&1!*+!>2./D2**DL! F %OD%/#)!>*/#0#L! f [+*&D!Q).K#&=. '1L!M*K# (C#&!9; ;4A!
!

!
d>/#%.)O!'2#!>/*=#'3!V* I %&D!%M# I !] '2.-!*+!U%=2.*)Le!U#%'@&#D!^#-'@&#!%!'>2.-%O*!
H@ (%).'#=#U#='.K%/! 1 WXL!, %K.)O } , \$#)D.)OL!M*K# (C#&!9; ; EA!
!
f \$#).)O!, \$#%c#&L!V#c#!<%-c!\ *@&!V. (#! " %1!, \$#%c7 f @'L!U%)#@./!H%/L!<*=)*! f - '*C#&!
9:!!9; ; EA!
!
dV2#!>* ((*D.+-%'!.*)!*+!>2./D2**Dle!\$%\$#&!\$&#=#)'#D!%'!=#==.*)*!>*)=@ (#&=%)D!
>*)=@ (.)O!W!J (#&.-%)!, *-.*/*O.-%/! J ==*-.%'.*)! F ##'.)O=L! J ' /%)' %L! J @O@='!9; ; EA!
!
d<#1*)D! Z * &c!%)D!, \$#)Dle! F # (* &.%/!^#-'@&#!J ==*-.%'.*)!*+!W)D#\$#)D#)'!W)+*& (%'.*)!
R&*+#=#.*)%/L!56"!J))@%/!>*)+#&#)-#L!R&*K.D#)-#L!Y2*D#!W=%)DL! F %1!9; ; EA!
!
d<#1*)D!'2#!>1-/#!*+!Z * &c!%)D!, \$#)D3! J -2.#K.)O!<%/%) -#Le!^@)-2#*)! J DD#&=#!'*! Z W " !
aZ * (#)!.)! " #K#/*\$ (#)'!*+!G&#%'#&!<*=)*bL! J \$&./!9; ; EA!
!
d>%)! J (#&.-%)=!>*)=@ (#!, @='%.)%C/1h!] -*/O.-%/!^ .+#='1/#=U* &!] K#&1*)#Le!
])K.&*) (#)'%/, '@D.#=! " # \$%&' (#)'L! F .DD/#C@&1!>*/#O#L! F %&-2!9; ; EA!
!
w F % '#&.%/. = (!%)D! Z #//)#=#Lw! Z * &c=2*\$!R&#=#)'#D!%'!R&*?#-'! Z #//)#=#3!>&#%'.)O!
>*)#-'!.*)=L! J -'*)7<* [C* &*@O2!, -2**/! " .'&.-'!>*)+#&#)-#L! F #&&. (%-c!>*/#O#L! F %&-2!
9; ; E!a%/=#!\$&#=#)'#D! F %&-2!9; ; 9bA!
!
dV2#!>* ((*D.+-%'!.*)!*+!>2./D2**D3!V%/#=#!+&* (!'2#! J DK#&' .)O!U&*)'!^.)#=#Le!
>*/#k@.@ (!*)!'2#!>* ((*D.+-%'!.*)!*+!] K#&1'2.)OL!W)=.'@'#!+* &! J DK%) -#D!, '@D.#=!.)!
>@/'@&#!Q).K#&=. '1!*+!X.&O.) .%L!U#C&@%&1!9; ; EA!
!
d] (#&O.)O!V&#)D=!)!>*)=@ (#&!>@/'@&#!Le! g #1) * '#!'!>*)K#).#)-#!Y#%./.)O!>*)+#&#)-#L!
, -*' '=D%/#L! J &.P*)%L!U#C&@%&1!9; ; E!
!
d>2./D&#)!%)D!>*)=@ (#&!>@/'@&#!Le!R@C/.-!^#-'@&#!Q).K#&=. '1!*+!>*)#-' .-@'L!
" # \$%&' (#)'!*+!, *-.*/*O1L! " #-# (C#&!9; ; 9A!
!
d>&.'.-%/!R#&=\$#-' .K#=#*)!] -*)* (.-=!5; Le!H%&K%&D!Q).K#&=. '1!M*K# (C#&!9; ; 9A!
!
dU&.D%1!U* &@ (!*)!, @='%.)%C/#!R/%)# 'Le!H%&K%&D!<***c!, * &#!> (C&.DO#L!M*K# (C#&!9; ; 9A!
!
dV2#!W F U!%)D!'2#!Z * &/D!<%)c!)!R#&=\$#-' .K#Le!V#%-27.)!*)!'2#!W F U!%)D!Z * &/D!<%)cL!
=\$*)=* &#D!C1!H%&K%&D! J .D=!>*/.'!*)!L!H%&K%&D!Q).K#&=. '1!, # \$%# (C#&!9; ; 9A!
!
dM%'.*)%/, #-@&.'1!%)D!'2#!J (#&.-%)! " &#% (Le!R/#)%&1!, #=#.*)L!])K.&*) (#)'%/
G&%)' (%c#&=! J ==*-.%'.*)L! J =2#K.//#L!M* &'2!>%&*/.)%L!, # \$%# (C#&!9; ; 9A!
!
dV. (#!%)D!, @='%.)%C./.'1le!, #-*)D! J))@%/!>#)'@&1!*+!'2#!])K.&*) (#)'!>*)+#&#)-#L!
f (#O#!W)=.'@'#!%)D!Y#=@&O#)-#! F %O#P.)#L!Y2.)#C#-cL!M# I ! \ * &cL!, # \$%# (C#&!9; ; 9A!
!

d ,#%&-2!+*!&WD#)'.'1!.)'2#!W)'#&#)'!JO#Le!R%)#/'R%&'-.\$.%)'L!>*)+#&#)-#!*!)W)'#&#)'!~!
,*-.#.'1!9; ; ; 3!>2%)0.)0! f @&!^ .K#=#L!H%&K%&D!Q).K#&=#.'1L!S@)#!9; ; ; A!
!
dV#&#)D=!)!V. (#!Q=#3!J ==#=#.)0!'2#!>*)'&*K#&=1Le!"#\$%&'(#)'!^*+^#.#=@&#!,'@D.#=#!
Q).K#&=#.'1!*+!W//.)*.=#!J \$&./!9; ; ; A!
!
dV2#!M# I !>*)=@ (#&. = (le!</%c#!^ .C%&&1L!" .=-@=#.*!) , @)D%1! , #&. #=#! , '@%&'!U/*&.D%L! J \$&./!
9; ; ; A!
!
dV#&#)D=!)!V. (#!Q=#3!J ==#=#.)0!'2#!>*)'&*K#&=1Le!>#)'#&!*!)>%&##&=#!>*)#//!Q).K#&=#.'1L!
S%)@%&1!9; ; ; A!
!
dJDD&#=#.)0!] -*) * (.-!W)#k@%/. '1%!H* (#!%)D! J C%&*%Dle!M# I !H% (\$=2.&#!Q).'%&.%!)
Q).K#&=#./.'! , *-.%!/Y#=\$*)=.C./.'1!>*)+#&#)-#!M%=2@%L!M# I !H% (\$=2.&#! f - '*C#&!5NNNA!
!
dV2#! f K#&=#\$)'!J (#&. -%)le!<*=*)!^#%&.)0!>#)'#&L!M##D2% (L! F %AL! f - '*C#&!5NNNA!
!
dH*=@#2*/D=!)Q)D#&!R&#=#@&#le!\$&#=#)'%'.*)!'!<*=*)!>*/#0#!>#)'#&!+*&!Z *%&c!)D!
U% (./!L!>*\$%&%&'#!Z *%&c!)D!U% (./!Y*#@)D'%C/#! F ##.)0L!>% (C&.DO#! F %AL! , # \$ # (C#&!
5NNNA!
!
dV2#!M# I !>*)=@ (#&. = (!%)D! , . (\$/#!^ .K.)0le!\$&#=#)'%'.*)!'!Q).'%&.%!)Q).K#&=#./.'!
,*-.#.'1L!Z #//=#/#!1L! F %AL! , # \$ # (C#&!5NNNA!
!
d>*)=@ (#&. = (!.)!J (#&. -%le!\$&#=#)'%'.*)!'!^WU] [\$*L!W)'#&)%'.*)%!/W)K#=# (#)'!
>*)+#&#)-#=#!J)%2#. (L!>%/.+*&).%L! J @0@='!5NNNA!
!
dW)'#0%&'!)0!^%C*%&!%)D!>*)=@ (#&! F %&c#'=le!R&#=#)'%'.*)!'! , , Y>!, @ ((#&! , # (.)%&!*)!
^%C*%&! F %&c#'=L! F %AL! J @0@='!5NNNA!
!
dZ *%&c!)D!>*) ((@).'1le!>*) ((@).'1! F %' '#&=!^#-'@&#! , #&. #=#! J C% - *%R%&')#&=2.\$!+*&!
>*) ((@).'1L!R%/ (!<#%-2!G%&D#)=L!U/*&.D%L! F %1!5NNNA!
!
dV2#!M# I !>*)=@ (#&. = (le! , # (.)%&L!M# . (%)!U*#@)D%' .*)L!H%&K%&D!Q).K#&=#.'1L! F %1!5NNNA

wZ *&c'. (#!)D!'2#"#-./)#!.)!>.K.-!])0%0# (#)'Lw!>*)+#&#)-#!*)!>.K.-!])0%0# (#)'!.)!
J (#&.-%)!' "# (*-&%-1L!Y@==#//!,%0#!U*@)D%'.*)L!5NN6A!
!
wX*/@)'%&1!" *I)=2.+'#&=!)!'2#!Q,L!5NN;75NN4Lw!J))@%/!F##'.)OL!J-%D#(1!*+!
F%)%0#(#)'L!,1(\$*=-.@(L!5NN6A!
!
w"*!J(#&.-%)!g##\$!@\$!I.'2!'2#!S*)#=#-h3!V2#!W(\$%-!'*+!>*)=@(\$'.*)!J=\$.&%'.*)=!*!)
,%K.)0!<#2%K.*@&Lw!,#(.)%&L!u@##)=!>*/#0#L!>% (C&.D0#!Q).K#&=. '1L!5NN6A!
!
w"*!J(#&.-%)!g##\$!@\$!I.'2!'2#!S*)#=#-3!V2#!W(\$%-!'*+!>*)=@(\$'.*)!J=\$.&%'.*)=!*!)
,%K.)0!<#2%K.*@&Lw!F%-&*!,#(.)%&L!>])'##&L!V./C@&0!Q).K#&=. '1L!5NN6A!
!
wY#+@0##=!+&* (!'2#!,U%'!%)D!F#%)!]-*)*(13!" *I)=2.+'.)0!.)'2#!5NN;=Lw!"%K.D!G*&D*)!
F#(*&.%/!>*)+#&#)-#!M#I!, -2**/!+*&!, *-./!Y#=#%&-2L!5NN6A!
!
w<#1*)D!Z *&c!%)D!, \$#)D3!M# I!J''.'@D#=#!*!Z *&c!&V. (#L!^#.=@&#!%)D!>*)=@(\$'.*)Lw!
R@C/.-!^#-'@&#!M# I!Z%1=#!*!Z *&c!&^*)D*)L!5NN4A!
!
V* I%&D!%M# I!V2#*%&1!*+!>*)=@(\$'.*)Lw!,#&.#=#+!V2&##!^#-'@&#=#!H%K#)=!>#)'#&L!
,*-.*/01!"#\$%&'(#)'L!Q).K#&=. '1!*+!Z.-*)=.)L!5NN4A!
!
w<#1*)D!Z *&c!%)D!, \$#)DLw!J&.P*)%H@(%).'.#=#>*@)-./!>*((@).'.#=#!)!V&%)=.'*!)
R&*?#- 'L!5NN4A!
!
wZ *&c!%)D!V. (#Lw!Z *&D/]-*)*(.-!U*#@ (L!J))@%/!F##'.)OL!"%K*=L!, I.'P#&%)DL!5NN4A!!
!
wM# I!Y#=#%&-2!*)!>*)=@(#&!<#2%K.*&3!JDD&#=#.)O!'2#!u@%/.'1!*+!^.#!W==#=#Lw!
>*)+#&#)-#!*)!]-*)*(.-=!%)D!S*%&)%/.= (L!F%-J&'2@&!U*@)D%'.*)L!Q).K#&=. '1!*+!
F%==%-2@=#' '=L!5NN8A!
!
w>*)=@(#&.=(!%)D!'2#"#-./)#!)*+!U% (. /1!%)D!>*((@). '1le!U%-@/ '1!U% (. /1!,#(.)%&L!
H%&K%&D!" .K.).'1!, -2**/L!5NN8A!
!
wG#)D#&L!V. (#L!%)D!F*)#13!M# I!] (\$/*1 (#)'!F *D#/=!+*&'2#!V I#)'17U.&=#!>#)'@&1Lw!
Q).K#&=. '1!*+!M*%&'2!>%&*/.)%j!G&##)=C*%&*L!"#\$%&'(#)'!*+!^#.=@&#!,'@D.#=#!)D!Z*(#)'=
, 'D.#=#!5NN8A!
!
U%-@/'1!JDD&#=#!S@).*%&!R%&#)'=!Z##c#)DL!H%&K%&D!>*/#0#L!5NN8A!
!
wV* I%&D!, @=#.)%C/#!>*)=@(\$'.*)Lw!])K.&*(#)'%/!, 'D.#=#!R&*O%&(L!W)).=!>*/#0#L!
Q).K#&=. '1!*+!V*%&*)' *L!5NN8A!
!
wQ)#k@%/!" .='&.C@'.*)=3!V. (#L!Z *&c!%)D!U% (. /1!.)'2#!>*)'#(\$*%&&1!Q).'#D!, '%#=#Lw!
,#(.)%&L!F%-J&'2@&!U*@)D%'.*)L!5NN8A!
!
w] (\$.&.-%/!V#=#!*+!, '%@=#!>*)=@(\$'.*)Lw!J))@%/!F##'.)OL!J] JjJ , , JL!5NN8A!

wZ *c'. (#!.)!J (#&.-%3!V2#!>2%//#)O#!+*!R*/.-1 (%c#&=Lw!^%C*!W==@#=#!,#(.)%&L!
M%'.*)%/!>*)+#&#)-#!*+!, '%#!^#O.=/%'@&#Lw!,%)!S@%)L!5NN:A!
!
wM#I!F*D#/=!*+!](\$/*1(#)!+*!'2#!VI#)'17U.&=#!>#)'@&1Lw!<*= '*)!H@(%)!Y#=#*@&-#=#!
J==*-.%'.*)L!5NN:A!
!
dZ*(#)!%D!>2%)O#3!]=-\$.)O!'2#!>1-/#!*+!Z*&c7%)D7,\$#)DLw!Z*(#)!%D!Y#=#*K#&1!
>*)+#&#)-#L!G&##)K.//#L!,A>AL!5NN:A!
!
wV2#!>2%//#)O#!*+!>*)=@(\$'.*)3!, '&%'#O.#=#!+*!&!W)D.K.D@%/!)D!W)='.'@'.*)%/!>2%)O#Lw!
R/#)%&1!,#=#.*)L!]K.&*(#)%/!G&%)'(%c#&=!J==*-.%'.*)!>*)+#&#)-#L!<&#' '*)!Z**D=L!
5NN:A!

IA:MN2

!

wW=! F *&#!<#'#&h! Z *&c!%)D!R&*D@-' .K. '1!.)!'2#!5NN;=Lw!H%&K%&D!Q).K#&=. '1!^ .C&%&1!
R&*+#==.*)%/" #K#/*\$ (#)'!>* ((.'##L!5NN;A!

!
wZ21!,2*#'##!H*@&=!J&#!R&*+'.%C/#Lw!^#-'@&#!'!*!g]W " JMY]ML!aU#D#&%'.*)!*+!S%\$%)#=#!
] (\$/*1#&=bl!V*c1*L!5NNEA!
!
wV2#! fK#& I *c#D!J (#&.-%)3!V2#!S%\$%)7QA,A!>* (\$%&.=*)Lw!R@C/.-!^#-'@&#!V*c1*!

wV2#! f K#& I *&c#D! J ''*&)#13!Y#-*K#&.)O!V. (#!+*&! , #/+!%)D!U% (./1Lw!H%&K%&D!^% I!
, -2**/L!5NNEA!
!
w Z *&c.)O!H* @&=!%)D!QA, A!Q).*)=Lw!H%&K%&D!V%&D#!Q).*)!R&*O&% (L!H%&K%&D!Q).K#&=. '1L!
5NNEA!
!
w Z *&c.)O!, 2* &'#&!H* @&=3!W=!W'!] - *) * (.-%//1!U#%=.C/#h!H* I !>%)!W'!<#! " *)#hLw!<*=*)!
Z *&c7U% (./1!U* &@ (L!5NNEA!
!
wV2#! f K#& I *&c#D! J (#&.-%)Lw!<#='!*+! J (#&.-%!>*)+##&#)-#!V% (\$%L!U/*&.D!5NNEA!
!
w Z *&cL!^#.=@&#!%)D!>*)=@ (\$'.*)3!V2#!R*=' I %&!QA, A!] [\$#&.#)-#Lw!^%C* &! , '@D.#=!
" #S%&' (#)'L! F - F %='#&!Q).K#&=. '1L!5NNEA!
!
wV&#)D=!)!QA, A! Z *&c.)O!H* @&=3! J ==#==.)O!'2#!>*)'&*K#&=1Lw!M# I ! , -2**/+*&! , *-./!
Y#=#%&-2L!5NNEA!
w J ==#==.)O!'2#!] - *) * (.-! , '% '@=!*+! Z * (#)Lw! Z * &/D!] - *) * (.-!U* &@ (L! J))@%/! F ##'.)O!
" %K* =! , I . 'P#&/%)DL!5NNEA!
!
w <@=.)#==L!^%C* @&!%)D!'2#! , '% '#Lw! Z * &/D!] - *) * (.-!U* &@ (L! J))@%/! F ##'.)O! " %K* =!
, I . 'P#&/%)DL!5NNEA!
!
wV2#! f K#& I *&c#D! J (#&.-%)Lw!V2#!>% (C&.DO#!U* &@ (L!>% (C&.DO#! F %== -2@=#' =L!5NN9A!
!
wR@C/.-!R* /.-1!%)D! Z *&c.)O!H* @&=w! , * /.-.'* &7G#)#&%/^=! , # (.)%&! , #&.#=L! " #S%&' (#)'!*+!
^%C* &L!5NN9A!
!
w J &#! Z * (#)! , k@##P#D!+* &!V. (#h3!V&#)D=!)!QA, A! Z *&c.)O!H* @&=Lw!W)K. '#D! , #==.*)L!
J (#&.-%)! , '% '.-'-%/! J ==*-.'*)!F ##'.)O=L!<*=*)L! F J! J @O@='!5NN9A!
!
!

wZ *&c.)O!H* @&=!%)D!^#.=@&#!V. (#!.)! '2#!R*=' I %&!Q). '#D!, '% '#=Lw!] -*)* (.-=!
" #S%&' (#)'L! Z #/#=#/ #1!> *// #O#L!5NN;A!

!

wW=!V2#&#!% !V. (#!, k@##P#hw!W)D@='&.%/!Y#/%'.*)=! ,# (.)%&L! F %==%-2@=#'='!W)='! '@ '#!*+!
V#-2)*/*O1L!5NTNA!

▼!

wV2#! " #C% '#!*K#&! F %) @+%- '@&.)O!K#&=@=! , #&K.-# =Lw! , 2.+'.)O!G#%&=L!>*)+ #&#) -#!=\$*)=*&#D!
C1!'2#! F %==%-2@=#'='!U* @)D%'.*)!*)!'2#!H@ (%). '#=!%)D!R@C/.-!R* /.- 1L! Z *&-#=#&!

