

! "#\$% '&'()*+ , - " , . + / 0 "%'

!

"#\$%&'(#)'!*+!, -*)*(.-/!

0*/*)!1*2#3#!

456!1*(*)7#%2'8!9: #);#!

18#/'!<.22=>9!6?5@A!

B@4AC!DD?E@AFG!!H%I!B@4AC!DD?E64J4!

#(% .2K!3#*+&#LM/%N#)0%-8#& P O-M#Q;!

!

"12 / + (3# , 4'

,

5676' ' .89:8;'/8<<=>='

! ! R8M "M!.)! , -*)*(.-/!/\$#-.%2.N.)3!.)!S%0*&! , -*)*(.-/!)Q!9\$\$2.#Q! , -*)*(#&.-/!

!

566?" ' .89:8;'/8<<=>='

>M9M!.)! , -*)*(.-/!

!

566@' ' *:) 'ABCDE9' / 8<<=>='

0M9M!7.'8!(%T*&!.)!>% '8#(%'.-/!)Q! , -*)*(.-/!

!

" AFG#&A " , (4'

,

567HIJC=9=;:'.89:8;'/8<<=>='1=JBC:K=;:'8L''M8;8KNM9' '

?64JES&#/#)'!!!9//*-.% '#!R&*+##/*&!*+!'8#!R&%-'.-#!

?64GE?64J! 9QT;)-'!R&*+##/*&!

?66J! ! ".//#&'%.*)!H#22*7!

?66F!! ! U#%-8.)3!H#22*7!

, 1??F=X, -*)*(#'&.-!>#'8*Q/Y!BZ\$&.)3!?64@ER&#/#)'C!
, 1GG4A=X, -*)*(.-/*+!\)#];%2.'LY!BZ\$&.)3!?645ER&#/#)'C!
, 1GG?A=XH.)%)-.%2!, -*)*(#'&.-/Y!BZ\$&.)3!?6?6ER&#/#)'C!
, 1??64=X>.-&*#-*)*(.-!U8#*&LY!BZ\$&.)3!?64GER&#/#)'C!
, 14G4=XR&.)-.\$2#/*+!>.-&*#-*)*(.-/Y!BZ\$&.)3=!Z; ((#&=!H%22!?66FC!

X" # (#) ' . % = ! < # 2 \$! 7 . ' 8 ! H .) %) - . % 2 ! > %) % 3 # (#) ' = ! %) Q ! H .) %) - . % 2 ! ` # 2 2 E 0 # .) 3 = Y ! 7 . ' 8 ! 9) # e ! 0 # 2 0 % / # ! %) Q !
9 0 . 3 % . 2 ! ` % 2 ' # & / M Y ! ? 6 ? 6 ! ! 7 5 + (! " # \$ % & ' (") (6 ; - % ; (& % I (> " / - & ' * " ' - / = ! G ? B G C K ! ? 5 ? E ? D J ! !
!
X R % & ' . - . \$ % ' . *) ! %) Q ! R & # E V # ' . & # (#) ' ! ` . ' 8 Q & % 7 % 2 / ! .) ! a & # 3 *) _ / ! 9 ; ' * E

X ` 8L!<%/[! [MZM!S.+#!, I\$#-'%) -L!H%22#)!0#2*7!a'8#&!1*;) '&.#/dY!7.'8!9)]!.!18#)=!92.-.%!<M!
>;))#22=!%)Q!92.-#!g;2e%&%)M! ?64AM!C, ,#+(-%(H\$-+)!4AE? ?M!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!
V#'.&# (#)'!V#/#%&-8!%'!0*/'*)!1*22#3#M!
!

X\!/ ` * &e.)3!S*)3#&!%!W**Q!R&#/-&.\$'.*)!+*!&!922dY!7.'8!Z#:#)!9M!Z%/!/M! ?64AM!C, ,#+(-%(H\$-+)!4AE
?4M!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!%'!0*/'*)!1*22#3#M!
!

X ` 8% ' _/!<%\$\$#.)3! '*! [MZM!> * &'%2.'L!V%'#/dY!7.'8!9)]!.!18#)!%)Q!92.-.%!<M!>;))#22M! ?64AM!C, ,#+(-
-%(H\$-+)!4AE4AM!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!%'!0*/'*)!1*22#3#M!
!

XU8#! \ (\$ - '!*+!V%./.)3!18.2Q&#)!*!V#'.&# (#)'!Z#- ; &.'L=Y!7.'8!92.-.%!<M!>;))#22!%)Q! ` #)2.%)3!
<* ;M! ?64AM!C, ,#+(-%(H\$-+)!4AE4@M!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!%'!0*/'*)!
1*22#3#M!
!

X9&#!>%)L!V#'.&##!/7.'8!"# (#)'.'S%-e.)3!<#2\$dY!7.'8!9)#e!0#20%/#%!)Q!Z%&! , 22#)!c.)3M!
?64AM!C, ,#+(-%(H\$-+)!4AE4DM!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!%'!0*/'*)!1*22#3#M!
!

X" *! ` * (#)!Z'.22!Z\$#)Q!> * /! '*+!U8#.&!S. : #/!> %&&.#QdY!7.'8!92.-.%!<M!>;))#22!%)Q!Z%&! , 22#)!
c.)3M! ?64AM!C, ,#+(-%(H\$-+)!4AE45M!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!%'!0*/'*)!
1*22#3#M!
!

!X" *!<* ; /#8*2Q/!<% :#!% !W**Q!Z#) /#!*+!U8#.&!V#'.&# (#)'!R&#\$%&#Q)#//dY!7.'8!92.-.%!<M!>;))#22!
)Q! ` #)2.%)3!<* ;M! ?64AM!C, ,#+(-%(H\$-+)!4AE5M!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!
'!0*/'*)!1*22#3#M!
!

X<*7!k*0!18%)3#/#!9++#-'!V#'.&# (#)'!U. (.)3!OL!Z*-.*#-*)* (.-!Z'%' ; /=Y!7.'8!Z#:#)!9M!Z%/!/!)Q!
18&./ '*\$8#&!> M!W.22./M! ?64AM!C, ,#+(-%(H\$-+)!4AEGM!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!
V#/#%&-8!%'!0*/'*)!1*22#3#M!
!

X1*3).'. : #!93.)3!%)Q!'8#!1%\$%-.'L!'!*>%)%3#!>*)#L=Y!7.'8!9)#e!0#20%/#M! ?64AM!C, ,#+(-%(H\$-+)!
4AE4M!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!%'!0*/'*)!1*22#3#M!
!

XZ%'#!9 ; '*E\9!R&*3&% (/K!U8#!c #L/!'*!H.)%)-.%2!Z#2+EZ;+.-.#)-L=Y!7.'8!92.-.%!<M!>;))#22!%)Q!
9)#e!0#20%/#M! ?64@M!C, ,#+(-%(H\$-+)!4@E4JM!18#/'); '!<.22=!> 9K!1#) '#&!+*!&!V#'.&# (#)'!V#/#%&-8!%'!
0*/'*)!1*22#3#M!
!

X1*3).'. : #!93.)3!%)Q!90.2.'L!'!` * &e

XH#%/0.2.'L'Z';QLK! a *)!V#'.&# (#)'!Z% :.)3!/R2%)=Y!7.'8!9)#e!0#20%/#!?64@M!18#/'); '!<.22=!
> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X>%&e#!V#/#%&-8!V#\$*&'K! a *)!V#'.&# (#)'!Z% :.)3!/R2%)=Y!7.'8!9)#e!0#20%/#!?64@M!18#/'); '!<.22=!
> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X" *!<* ;/#8*2Q!/!Z% :#)!>*&#! ` 8#)!8#!c.Q!/!S#% :#!<* (#dY!7.'8!\&#)%!" ;/8.=!92.-.%!<M!> ;))#22=!
9)'8*)L! ` #00!%)Q!9]!.!18#)M! ?64@M!C, ,#+(-%(H\$-+)(4@EFM!18#/'); '!<.22=!> 9K!1#)'#&!+*&!
V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X<*7!" *!k*0!Ze.22!/!U8%'! "#-2.)#! ` .'8!93#!9++#-'! ` 8.'#E1*22%&! ` *&e#&/dY!7.'8!9)#e!0#20%/#!
)Q!18&./!*\$8#&!>M!W.22./M! ?64@M!C, ,#+(-%(H\$-+)(4@E@M!18#/'); '!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!
V#/#%&-8!'!0*/*)!1*22#3#M!

!

XZ%'#!Z% :.)3!/!\).'.%'. :#/'K!S#//*)/!+&* (!!%2.+*&.)%!)Q!1*)#-'.- ;'=Y!7.'8!9)#e!0#20%/#!92.-.%!
<M!> ;))#22!%)Q!^%&!V8#MY! ?64@M!C, ,#+(-%(H\$-+)(4@EDM!18#/'); '!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!
V#/#%&-8!'!0*/*)!1*22#3#M!

!

XZ%'#!\).'.%'. :#/'!*1* :#&! []- * :#&#Q!R&.:%'#!Z#-'*!& ` *&e#&/=Y!7.'8!92.-.%!<M!> ;))#22!%)Q!9)#e!
0#20%/#!?64@M!C, ,#+(-%(H\$-+)(4@E5M!18#/'); '!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!
1*22#3#M!

X" *#/#!% [].+*& (!V#'.&# (#)'!93#!>#e#!Z#)#dY!7.'8!9)'8*)L! ` #00=!^%'%2.%!ZM! a 2* :%=!)Q!
1%)Q%-#!>M!1*/3&* :#M! ?64@M!C, ,#+(-%(H\$-+)(4@E4M!18#/'); '!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!
V#/#%&-8!'!0*/*)!1*22#3#M!

!

XV#\$*&'!)*!'8#! "#/.3)!*+!1*)#-'.- ;'_!/V#'.&# (#)'!Z#- ;&.'L!R&*3&% (=Y!7.'8!92.-.%!<M!> ;))#22!
)Q!9)#e!0#20%/#!?64DM!18#/'); '!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X" *#/#!>*&'%2.'L! ".++#&!0#7##)!R;02.-!%)Q!R&.:%'#!Z#-'*!& ` *&e#&/dY!7.'8!92.-.%!<M!> ;))#22!%)Q!
k#%)ER.#&&#!9 ;O&LM! ?64DM!>4&4+(&%I(?"/&'(*+%, -"%(*'&%,(C, ,#+(-%(H\$-+)(55M!18#/'); '!<.22=!> 9K!
1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X" *!R;02.-!R#)/.*/!<#2\$!V#-& ;.'!%)Q!V#'.%)!<.38!h ;%2.'L! ` *&e#&/dY!7.'8!92.-.%!<M!> ;))#22!
)Q!k#%)ER.#&&#!9 ;O&LM! ?645M!>4&4+(&%I(?"/&'(*+%, -"%(*'&%,(C, ,#+(-%(H\$-+)(54M!18#/'); '!<.22=!> 9K!
1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X ` 8%'! ` #!c)*7!90* ;!<#%2!8!V#++& (!.)!>%//%-8 ;/#'/MY! ?645M!C, ,#+(-%(H\$-+)(45EJM!18#/'); '!<.22=!
> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

XR#)/.)*!R%&'-.\$.%'*)!)Q! []- * :#&#Q! ` *&e#&/=Y!7.'8!^%Q.%!c %&% (-8# :%M! ?646M!C, ,#+(-%(H\$-+)(
46E4GM!18#/'); '!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X\!/R#)/.)*!\)#] ;%2.'L!W&*7.)3dY!7.'8!^%Q.%!c %&% (-8# :%M! ?646M!C, ,#+(-%(H\$-+)(46E4M!18#/'); '!<.22=!
> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/*)!1*22#3#M!

!

X1%)!'8#!0*''* (!U8.&Q! ` *&e!S*)3#&dY!7.'8!92.-.%!> ;))#22!%)Q!Z'#:#)!Z%/M!?66J!C,,#+(-%(H\$-+)(
JE4M!18#/');'!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/'*)!1*22#3#M!

!

X ` *&e.)3! ` .:#/!V#Q; -#!Z*-.%2!Z#-; &. 'L!V#\$2%-# (#)'!V%'#/Y!7.'8!92.-.%!> ;))#22!%)Q!>% ;&.-.*!
Z*' *M!?66A!M!C,,#+(-%(H\$-+)!AE4D!M!18#/');'!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/'*)!
1*22#3#M!

!

Xk*O!U#);&#!%)Q!'8#!Z\$&#%Q!*+!564BeC/Y!7.'8!c#22L!<%:#&/'.-e!%)Q!92.-.%!> ;))#22M!?66@M!C,,#+(-%(
H\$-+)!DD!M!18#/');'!<.22=!> 9K!1#)'#&!+*&!V#'.&# (#)'!V#/#%&-8!'!0*/'*)!1*22#3#M!

!

Xk*O!U#);&#!%)Q!R#)/.*)!1*:#&%3#-Y!7.'8!92.-.%!<M!> ;))#22!%)Q!c#22L!<%:#&/'.-e!M!?66@M!
3#)0601.9206j2000.500050601.920.20672(!),#+!,#+) ("0.2(3#*2(!7)-0.V#)0.2*:#)0.2V#%:1.92cBa

?64@! ` #/'#&!), -*)*(.-!/9//*-.'.*)! \)'#&)%'.*)%2!1*)+#&#)-#!
!
X"*#/#!93#EV#2%'#Q!"#-2.)#!.)!90.2.'L!1*#&#/\$*)Q!7.'8!V#'.&#(#)'!93#Y!
?64@! 922.#Q!Z*-.%2!Z-.-#)-#/#!9//*-.'.*)!f9(#&.-%)!,-*)*(.-!9//*-.'.*)!
!
X"*#/#!93#EV#2%'#Q!"#-2.)#!.)!90.2.'L!1*#&#/\$*)Q!7.'8!V#'.&#(#)'!93#Y!
?64D! 9(#&.-%)!9//*-.'.*)!*+!R*2.-L!9)%2L./!%)Q!>%)%3#(#)'!
!
X`8%'!1%;/#!/` *#e#&/'!*!V#'.&#!0#+*#&#!'8#L!R2%)dY!
?64D! Z*-.%2!Z#-;.&.'L!V#'.&#(#)'!V#/#%&-8!1*)/*&'!.;(!
!
X"*#/#!93#EV#2%'#Q!"#-2.)#!.)!90.2.'L!1*#&#/\$*)Q!7.'8!V#'.&#(#)'!93#Y!
?64D! Z*-.%2!Z#-;.&.'L!V#'.&#(#)'!V#/#%&-8!1*)/*&'!.;(!
!
XV#-&;.'!)3!%)Q!V#%'.)3!<.38Eh;%2.'L!Z%'#!%)Q!S*-%2!` *#e#&/K!"*!R#)/.*/!>%'#&dY!
?645! 9));%2!1*)+#&#)-#!*+!'8#!^%'*)%2!U%I!9//*-.'.*)!
!
X"#%Q0#%'!"%Q/Y!
?66J! ,;&*\$#%)!1#)'&#!+*&!;,&*\$#%)!,-*)*(.-!V#/#%&-8!Z;((#&!` *#e/8*\$K!X^#7!U*\$.-/!.!)!
,(\$.&-%2!S%O*#&!,-*)*(.-/MY!

3;0N:=P'FC=9=;:B:\8;9'

X\)#];%2.'#/#!)Q!'8#!\(\$%-!'*+!1*:.QE4JMY!
?6?6! "#+.)#Q!1*)'&.0;'*)!\)/.';'.*)%2!\):#/'(#)'!9//*-.'.*)!
!
X1 a j\"E4J!)Q!\)#];%2.'LMY!
?6?6! 0*/*)!1*22#3#!a++-#!*+!\)/.';'.*)%2!".:#&/.'L!
!
XU8#!,-*)*(.-/!*+!\)#];%2.'LMY!
?64J! 0*/*)!1*22#3#!a(.-&*)=! "#2'%=!,\$/./2*)!\)Q;-'.*)!").)#&!
!
X9)![\$Q%'#!*)!a*)Z%:#/!H#%/.#0.2.'LMY!
?64F! a*)!V#'.&#(#)'!Z#-;.&.'L!O*%&QM!
!
X1*3).'.:#!\(\$%.&(#)'!)Q!Z*-.%2!Z#-;.&.'L_!/V#&#/#)'%'.:#!R%L##!R&*3&% (MY!
?64A!

