

!

!''#\$%&'#()*+,* - +.&/0+*1+2.0%&*
3%4/&(5%'(+,*67+'+5#7'*
!

"#\$%&'#()*+),-*)!
.#()*&/),-*)0/\$!\$#),.\$&- ,2!
@787A!69>BC98D!
E - .5(F-G!+)*H)5!
IFFJ5GKK/)*H)5&/!\$#),.\$&- ,2!

3/\$*\$4(/5!6789!
:\$*\$#5!;-4(*)#(!=)1!>8?9!
L%(/-!:\$2#5G!M! ?G88B7G88!"N!
3/\$*\$4(/5!>8DO!
LFI-#!F(4-5!.P!)JJ\$(*F4-*F!@Q25F!5-* ,!)!-B4)(1A!
!
!

!
MR!#-5\$2#/-!@5I)#- ,!S(FI!6D6DAG!
T)2#-*!;/I-/IF-#!
T)2#-*!;/I-/IF-#0/\$!\$#),.\$&- ,2!
L%(/-!:\$2#5G!N! ?B7U!MKMI!9G78B
??G88!RNU!.P!)JJ\$(*F4-*F!
3/\$*\$4(/5!68?!)
!
!

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- +2&'%*3%'7(#+'''*

MI(5!(5!FI-!(#5F!/\$2#5-!(*)!FS\$B/\$2#5-!5-V2-*/-!, -5(W*- ,!F\$!\$%-#!52JJ\$#F!) * ,!5F#2/F2#-!F\$!
5F2, -*F5!S#(F(*W!I\$*\$#5!FI-5-5!(*!3/\$*\$4(/5&!X*!\$#, -#!F\$!/\$4J1-F-!FI(5!/\$2#5-!52// -55%2!1P!) * ,!F\$!
. -!#-), P!F\$!/\$*F(*2-!S\$#Y!(*!FI-!5J#(*W<!5F2, -*F5!425F!S#(F-!)#-5-)#/I!J#\$J\$5)l&!MI(5!J#\$J\$5)l!
S(1!/\$*5(5F!\$%!42!F(J1-!J)#F5G!
!
?& O#)%F!(*F#\$, 2/F(\$*!Z!

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- +2&'%' : /(%&#/.!*

MI-#-!(5!*\$!#-V2(#-,!F- JF. \$\$Y!%\$#!FI(5!/\$2#5-!MI-!4)F-#()!F\$! . -!4)5F-#- ,!S(1! . -!/\$H-#- ,!(*!
1- /F2#- !*\$F-5!) * ,!(*B/1)55!-]-#/(5-5<!)1!\$%\$! S I(/I!S(1! . -!)H(1) . 1-!\$*!FI-!+)*H)5!S- . 5(F-!&!

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N\$5F!5F2, -*F5!S#(F-!) *!- 4 J(#(/)!)FI-5(5<!) * ,!(F!(5!/\$ 4 4 \$*!F\$!25-! ;MRMR!%\$#!,)F)!) *)!P5(5!&
;F2, -*F5!S I\$!S(5!F\$!J2#/I)5-!FI-(#!\$S*!/\$JP!\$%\$! ;MRMR!V2)1(%P!%\$#!)!52.5F)*F()! , (5/\$2*F!
FI#\$2WI!FI-! ^*(H-#5(FP_5!`#), "1)*&!N\$#-!(%\$#4)F(\$*!(5!)H(1) . 1-!FI#\$2WI!)!(*Y!J\$5F- , !\$*!FI-!
+)*H)5!S- . 5(F-!&!X!#-/\$ 4 4 -* , ! ;F)F)KX+&! "#(/-5!)#-!aD9!%\$#!)!\$*-BP-)#!!(/-*5-!<!) * , !a?9D!%\$#!)!
J-#J-F2)!)!(/- *5-!&!!!

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!

; %92#&% 5 %''('/*''0* <&/0#''=*

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>#''/. * <&/0%!MI-!J#(4)#P! , -F-#4 (*) *F!\$%!P\$2#!W#) , -!(*!FI(5!/\$2#5-!S(1! . -!FI-!V2)1(FP!\$%\$!FI-!
J#\$J\$5)!)52. 4 (FF- , !)F!FI-!- * , !\$%\$!FI-!5- 4 -5F-#&!X!S(1!-H)12)F-!FI-!J#\$J\$5)!)5!FI#- -!/(F-#()G!I\$S!
S-1!FI-P!)#F(/2!)F-!)! /1-)#!#-5-)# /I!V2-5F(\$* <!I\$S!S-1!FI-P!-]J1)(*!FI-!-]J- /F- , !/\$*F#(. 2F(\$*!F\$!
FI-!1(F-#)F2#-!<!) * , !S I-FI-#!FI-!J#\$J\$5- , !4 -FI\$, \$!\$WPI@) * , ! ,)F)!(%)JJ1(/) . 1-A!)#-!)JJ#\$J#()F-!F\$!
) *5S-#!FI-!V2-5F(\$* &!X!H(-S !FI-!\$FI-#!/\$2#5-!)55(W* 4 -*F5<!(*/12, (*W!J--#!- , (F(*W!) * , !
J)#F(/(J)F(*W!(*!J#-5-*F)F(\$*5!)5! . \$FI!J#-5-*F-#!) * , !)2 , (-*/-!4 - 4 . -#<!J#(4)#(IP!)5!(*J2F5!(*F\$!FI-!
%(*!)! , \$/24 -*F&!X!S(1<!I\$S-H-#<!/ \$*5(, -#!FI-5-!(*J2F5!S I-*!)55(W*(*W!P\$2#!%(*!)!W#) , -<!
-5J-/()!IP!(%FI-(#!V2)1(FP!(5!*\$F(/-) . !P!I(WI-#!\$#!\$S-#!FI) *!FI-!%(*!)!J#\$J\$5)!)5&!

!

@+' +&'8&+ =&/ 5 * ; %=#'(&/(#+'?'M\$! , -%-* , !) *!I\$*\$5!FI-5(5!(*! ; J#(*W!>8>8<!P\$2! 4 25F!#-W(5F-#!
P\$2#!FI-5(5! . P!7688!" N!\$*!L/F\$. -#!?<!>8?9&!R!1(*Y!F\$!FI-!#-W(5F#)F(\$*!J)J-#S\$#Y!(5!)H(1) . 1-!\$*!

FI-!+)*H)5!S- . !J)W-(5 0 5)- 0 . 2((0 . 2(W* 4) 0 . 2(-) 0 . 2(*FTf[(S) f 4 12589q 0 0 0 . 24 1258#5 0 18 0 m4 1258#

!

!

Y(B%&* - +2&'%G'',+& 5 /(#+'*'/'0*8+.#7#%'*

!

G 5 5 #=&/(#+'*'/(2'?*FI-!S-. J)W-!S S S &/!\$#), \$&- , 2K2* , \$/24 - *F- , !/\$*F)(*5!(%\$# 4)F(\$*!
#-W)#, (*W!/) 4 J25!#-5\$2#/-5!)H(1) . 1-!%\$#15F2, - *F5!) * , !- 4 J1\$P--5!S (FI!OR+R!5F)F25&!b \$2!5I\$21, !
)15\$!%--!%#--!F\$!, (5/255!P\$2#15F)F25!) * , !)*P!#-1)F- , !(552-5!S (FI!"#\$%&+), -*)&!X!S(1! , \$!4 P! . -5F!F\$!
J#\$H(, -!)JJ#\$J#(F-!)/\$ 4 4 \$,)F(\$*!\$#!/\$** - /F!P\$2!F\$!FI-! 4 \$5F!)JJ#\$J#(F-!\$*B/) 4 J25!
#-5\$2#/-5&!

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MI-!Y,,#7%*+,*Z#7(#5*F''#'(/'7%*@L \ RA!J#\$H(, -5!%#--!) * , !/\$*%(, -*F()!(%\$# 4)F(\$*!
/\$*52!F)F(\$*!52JJ#\$F<!), H\$ /) /P!) * , !5I\$#F!F-#4 !/\$2*5-1(*W!5-#H(/-5!F\$! ^*(H-#5(FP!\$#!+\$!\$#) , \$!
' \$2! , -#!5F2, - *F5<!W#), 2)F-!5F2, - *F5<!%) /2!FP!) * , !5F)%%!S I\$!I)H-!-]J-#(-*/- , !)!F#)2 4)F(/<!
, (5F2# . (*W!\$#!!(% - !), (5#2JF(H-!-H- *F&!L \ R!(5!*\$F!)J)#F!\$!FI-!J\$!(/-!, -J)#F 4 - *F!\$#!FI-!L%%(/ -!\$%!
X*5F(F2F(\$*)!3V2(FP!) * , !+\$ 4 J1() * /-<!) * , !(5!/\$*%(, -*F()!#-5\$2#/-!%\$#15F2, - *F5<!5F)%%) * , !%) /2!FP&!
MI-(!S-. J)W-!(5!S S S &/!\$#), \$&- , 2K\$H!) * , !FI-P!/) * , !-!#-)/I- , !. P!JIS*-!)F!787&69>&DDee!) * , !
. P!-B 4)(!)F!)55(5F 0 /!\$#), \$&- , 2!!

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Y(B%&* !'#\$%&'#() *8+.#7#%'?*

*

3#'/[#.#()*F77+5 5 +0/(#+''*

X%!P\$2!V2)1(%P!%\$#!)/\$ 4 4 \$,)F(\$*5! . -/)25-!\$%!)! , (5) . (1(FP<!J1-)5-!52 . 4 (F!P\$2#!)/\$ 4 4 \$,)F(\$*!
1-FF-#!%\$# 4 !O(5) . (1(FP!; -#H(/-5!F\$!P\$2#!%) /2!FP! 4 - 4 . -#!(*!)!F(4-1P! 4)** -#!5\$!FI)F!P\$2#!*-- , 5!/) *!
. -!) , #, -55- , &!O(5) . (1(FP!; -#H(/-5! , -F-# 4 (*-5!)/\$ 4 4 \$,)F(\$*5! .)5- , !\$*! , \$/24 - *F- , ! , (5) . (1(F(-5!
(*!FI-!)/ , - 4 (!-!H(\$#* 4 - *F&!X*%\$# 4)F(\$*!\$#!#-V2-5F(*W!)/\$ 4 4 \$,)F(\$*5!(5!I\$)/F- , !\$*!FI-!
O(5) . (1(FP!; -#H(/-5!S-. 5(F- &!+\$*F)/F!O(5) . (1(FP!; -#H(/-5!)F!787B69>BDfC?!)\$#!
. 5(%\$ 0 /!\$#), \$&- , 2!%\$#!%2#FI-#!)55(5F) * /-&!X%!P\$2!I)H-!)!F- 4 J\$#)#P! 4 - , (/)!/\$* , (F(\$*!\$#!
(*Q2#P<15--!M- 4 J\$#)#P!N- , (/)!+\$* , (F(\$*5!2* , -#!FI-!; F2 , - *F5!F) . !\$*!FI-!O(5) . (1(FP!; -#H(/-5!
S- . 5(F-&!

!

-./''&++ 5 *1%B/\$#+&*

*

; F2, - *F5!) * , !%) /2!FP!-) /I!I)H-!#-5J\$*5(. (1(FP!%\$#! 4)(*F)(*W!) *!)JJ#\$J#(F-!1-)#*(*W!
- *H(\$#* 4 - *F&!MI\$5-!S I\$!%) (1F\$!), I-#-!F\$!52/I! . -I)H(\$#!)15F) * ,)# , 5! 4)P! . -!52 . 0- /F!F\$!, (5/(J1(*-&!
"#\$%-55(\$*)1!/\$2#F-5P!) * , !5- *5(F(H(FP!)#-!-5J-/()!P!(4 J\$#F) *F!S (FI!#-5J- /F!F\$!(* , (H(, 2)15!) * , !
F\$J(/5! , -)1(*W!S (FI!#) /-<!/!\$#<!) *)F(\$*)!\$#(W(*!5-]<J#-W*) * /P<!)W-<!, (5) . (1(FP<!/#-- , <!#-1(W(\$*<!
5-]2)!\$#(- *F)F(\$*!W- * , -#!(, - *F(FP<!W- * , -#!-]J#-55(\$*<H-F-#) *15F)F25<J\$!(F(/)!)%)(1)F(\$*!\$#!
J\$!(F(/)!)J!I(\$5\$JIP&!!+1)55!#5F-#5!)#-!J#\$H(, - , !F\$!FI-!(*5F#2/F\$#!S (FI!FI-!5F2, - *F5!1-W)!!*) 4 -&!X!
S(1!W1) , !P!I\$*#!P\$2#!#-V2-5F!F\$!), #, -55!P\$2! . P!) *!)IF-#*)F-!*) 4 -!\$#!W- * , -#!J#\$*\$2*! "1-)5-!
) , H(5-! 4 -!\$#!FI(5!J#-%-#-*/-!-)#P!(*!FI-!5- 4 -5F-#15\$!FI)F!X! 4)P! 4)Y-!)JJ#\$J#(F-!/I) *W-5!F\$! 4 P!
#-/\$# , 5&!!=\$#! 4 \$#-!(%\$# 4)F(\$*!5--!FI-!J\$!(/-5!\$*!/1)55\$S\$ 4 ! . -I)H(\$#!) * , !FI-!; F2 , - *F!+\$, -!\$%!
+\$* , 2/F&!

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@+''+&* - +0%*

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R1!15F2, - *F5!- *\$#11- , !(*!)! ^*(H-#5(FP!\$#!+\$!\$#) , \$!' \$2! , -#!/\$2#5-!)#-!#-5J\$*5(. 1-!%\$#!Y*\$S(*W!
) * , !), I-#(*W!F\$!FI-! : \$*\$#!+\$, -&! \ (\$!)F(\$*5!\$!FI-!J\$!(/P! 4)P!(* /12 , -G!J1)W()#(54 <! /I-)F(*W<!

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. -!#-J\$#F-, !F\$!FI-!: \$*\$#!+\$, -!@IS*\$#0/\$!\$#), \$&- ,2AU!787B69>Beee8A!;F2, -*F5!SI\$!)#-!%\$2*,!
#-5J\$*5(. 1-!%\$#!H(\$!F(*W!FI-!)/), -4(/!(F-W#(FP!J\$!(/P!S(1!1. -!52. Q-/F!F\$!*\$*)/), -4(/!5)*F(\$*5!
%#4 !FI-!: \$*\$#!+\$, -!)5!S-1!1)5!)/), -4(/!5)*F(\$*5!%#4 !FI-!%)/2!FP!4-4. -#&!R, ,(F(\$*)!
(*%\$#4)F(\$*#!#-W)#, (*W!FI-!: \$*\$#!+\$, -!)/), -4(/!(F-W#(FP!J\$!(/P!/)*)!. -!%\$2*, !)F!FI-!: \$*\$#!+\$, -!
L%(/-!S-.5F-&!

!

J!L2/. * : #'7+'027(\#3#7 #'/(#+''\#@/&/' 5 %'('/'0H+&* ; %./(%0* ; %(/.#/(#+''*

!

MI-!^*(H-#5(FP!\$%!+\$!\$#), \$!' \$21, -#!@+ ^!' \$21, -#A!(5!/\$4 4 (FF-, !F\$!%\$5F-#(*W!)!J\$5(F(H-!)*, !
S-1/\$4 (*W!1-)#*(W<S\$#Y(*W<!)*, !(H(*W!-#H(\$*4 -*F!+ ^!' \$21, -#!S(1!*\$F!F\$!-#)F-!)/F5!\$#!
5-]2)!!4(5/\$*, 2/F!@(*12, (*W!5-]2)!!)55)2!F<-]J!\$F)F(\$*<!I)#)554 -*F!,)F(*W!\$#!, \$4 -5F(!
H(\$!-*/-<!)*, !5F)IY(*WA<!, (5/#(4(*F(\$*<!I)*, !I)#)554 -*F!. P!4-4. -#5!%\$2#!/\$4 4 2*(FP!
X*, (H(, 2)15!SI\$!. -!(H-!FI-P!I)H-!. --*!52. Q-/F!F\$!4(5/\$*, 2/F!#!#-F)I(F\$#P!)/F(\$*5!%#!#-J\$#F(*W!
)!/\$*/-#*!5I\$21, !/\$*F)/F!FI-!L%%(/-!\$!X*5F(F2F(\$*)!3V2(FP!)*, !+\$4 J!I(*)/-!@LX3+A!)F!787B69>B
>?>C!\$#!2#-J\$#F O/\$!\$#), \$&- ,2&X*\$%#4)F(\$*!). \$2F!FI-!LX3+<12*(H-#5(FP!J\$!(/(-5<!)**\$*P4 \$25!
#-J\$#F(*W<!)*, !FI-!/)4 J25!#-5\$2#/-5!/)*)!. -!%\$2*, !*\$!FI-!LX3+!S-.5(F-&!!

"1-)5-!Y*\$S!FI)F!)/2!FP!)*, !(*5F#2/F\$#5!I)H-!)#-5J\$*5(. (1(FP!F\$!(%\$#4 !LX3+!SI-*!4), -!)S)#-!
\$#!(*(/, -*F5!%\$15-]2)!!4(5/\$*, 2/F<!, (5/#(4(*F(\$*<!I)#)554 -*F!)*, K\$#!#-1)F-, !#-F)I(F(\$*<!F\$!- *52#-!
FI)F!(*, (H(, 2)15!(4 J)/F-, !#-/(H-!(%\$#4)F(\$*!). \$2F!JF(\$*5!%#!#-J\$#F(*W!)*, !52JJ\$#F!#-5\$2#/-5&!
*

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; %.#=#+2 '*Y ['%&\$/' '7%' *
(+) 4 J25!J\$!(/P!#-W)#, (*W!#-1(W(\$25!\$. 5-#H)*/-5!#-V2(#-5!FI)F!)/2!FP!4)Y-!-H-#P!-%\$#F!F\$!, -)!!
#-)5\$*) .!P!)*, !%)(#P!S(FI!)1!5F2, -*F5!SI\$<!. -/)25-!\$#!#-1(W(\$25!\$. 1(W)F(\$*5<I)H-!/\$*%1(/F5!S(FI!
5/I-, 2!-, !-])4 5<!)55(W*4 -*F5!\$#!#-V2(#-, !)FF-* ,)*/-&!X*!FI(5!/\$2#5-<1J1-)5-!(%\$#4 !4 -!*\$!1)F-#!
FI)*!F\$!S!S--Y5!J#(\$#!F\$!) *P!/\$*%1(/F!P\$2!%\$#-5--<15\$*\$-#!(%!J\$55(. 1-<15\$!FI)F!S-!4)P!(*, !)*!
)!F-#*)F(H-!)#)#*W-4 -*F!%\$#!P\$2!F\$!/\$4 J1-F-!FI-!#-V2(#-4 -*F5!%\$#!FI-!/\$2#5-&!; --!/)4 J25!J\$!(/P!
#-W)#, (*W!#-1(W(\$25!\$. 5-#H)*/-5!%\$#!%2!1!, -F)(15&!

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