

! " # \$ % ' & ' (\$) * + !
!
!

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

!
!
, - . / . 0 1!

/* 0 1 ' + + 0 * ! 0 1 ! \$ % ' ! / * # 2 \$ - 2 ' !

, 2 / 3 1 3 2 0 3!

4 ' 5 # * \$ 6 ' (\$! 0 1 ! / 0 & - \$ - 2 # & ! 7 2 - ' (2 ' !

!
!

4 - * ' 2 \$ 0 * 8 ! 9 + & # 6 - 2 ! : - ; - & - < # \$ - 0 (! = ! 7 0 2 - ' \$ - ' + ! / * 0 > * # 6 !

!
!

4 - * ' 2 \$ 0 * 8 ! ? # @ ' & & - ! / * ' + - A ' (\$ - # & ! 7 2 % 0 & # * + ! / * 0 > * # 6 !

!
!

, 0 + \$ 0 (! : 0 & & ' > ' !

!
!

: % ' + \$ (B \$! C - & & & ! D E ! ! F G H I J !

!
!

+ 4 5 6 7 1 3 2 0 3!

, 0 + \$ 0 (! : 0 & & ' > ' ! K L M J I N ! E 0 , 0 !

!
!

, 0 + \$ 0 (! : 0 & & ' > ' ! K G F F F N ! / % 0 4 0 !

!
!

8 3 / . - 1 7 1 3 2 0 3! P : & # (! # (A ! / 0 & - \$ - 2 + ! 9 (! Q < @ ' R - + \$ # (S !

!
!

, - 2 9 . 8 (2 /) - 0 (\$ 2 4 1 1 !) ~~1 1 0 5 4 2 . 1 6 1 4 2 . 8 2 9 6 1 1 . 2 8 6 2 4 . 9 6 6 5 8 9 . 9 2 6 1~~ ~~1 1~~ ; . ! 0

! /*-(2-5#&!9(; '+\$->#S0*!#(A!/*0\ '2\$!: OU4-*'2S0*8!Q070!4 '5#*\$ 6' (\$!01!WAB2#S-0(8!
!)-\$&'!` 98!Q(A'*>#AB#S'!9(\$*(#S-0(#&!7\$BA-'!#(A!a0*' ->(!]#(>B#>' +!/*O>#*68!
! PW(%#(2-(>#!(Q(A'*>#AB#S'!D#\0*!-(!\$%'! : O&&'>'!O1!E*\$+!#(A!72-' (2'+!-(!
! 9+-2! : -; -&-<#S-0(!#(A!702-'\$- '+0S!^B& . !L8!GFFMU^B ('!VF8!GFLV!
! /*-(2-5#&!9(; '+\$->#S0*!#(A!/*O>#*6! : 00*A-(#S0*8!Q070!4 '5#*\$ 6' (\$!01!WAB2#S-0(8!
!)-\$&'!` 98!Q(A'*>#AB#S'!9(\$*(#S-0(#&!7\$BA-'!#(A!a0*' ->(!]#(>B#>' +!
! /*O>#*6 !bW+\$#@&-+%- (>!#!D-AA&'!W#+\$ '*(!#(A!9+-2!7\$BA-' +!/*O>#*6 !#S! , O+\$O(!
! : O&&'>'8b!GFFGUGFF_!
! cB+\$#(A-(>!a#2B&\$.!D' 6@ '*8!D2 ?B-&&-2BAA.U]O>B'! : '(\$*!10*! ?&O@#&! !
!]'#A' *+%-5!EY#*A8!7\$BA' (\$+!/*O>#*6 +8! , O+\$O(! : O&&'>'8!GFL!
!

.5@:3671320/>'

!) *&+, %-'(- '+. /012+3/44(-2+- '5+6*&+7#8 8# '9&-06*+#!+ : '5&; &'5&'6+<6-6&4!K' A0N8!
: #6 @*-A>'!Q(-; '*+\$. !/*'+8!KB(A'!*!*' ; -'YN!
P9\$&+) -6 '!S0! ? '\$!X' #&!E@OBS!Q070!9(\$*' +\$+!-(!\$%'!70B\$%! : #B2#+B+8S!Y-\$!C#>O5!
)O>%#*6 #\#(8! = -6(#' -0+3&>(&98! c2S0@ '*!LV8!GFGF!
P : ' (\$*#&!E+##8!9+ !#(A!CB6 #(!X->%\$+8S! ! ?!#%5+@ 'ABA0#; &5(-+#!+ :40- 82+ c [10*A!
Q(-; '*+\$. !/*'+8!10*\$%206-(>8!+B6 6 '*!GFLJ!
P : ' (\$*#&!E+##8!9+ !#(A! e 06' (d+!X->%\$+8S! ! ?!#%5+@ 'ABA0#; &5(-+#!+ :40- 82+
c [10*A!Q(-; '*+\$. !/*'+8!10*\$%206-(>8!+B6 6 '*!GFLJ!
PQ<@ 'R-+\$#(d+!] '#A' *+%-5!) *#(+-\$0(3!]O(>!] -; '!\$%'! " -(>fS! ! ?!#%5+@ 'ABA0#; &5(-+
#!+ :40- 82+ c [10*A!Q(-; '*+\$. !/*'+8!+B6 6 '*!GFLI!
P" BY#-\$d+!E*#@!75*-(>8S!@ ' &%CB+- '5+6*&+@ '>(%# '8&'68!EB>B+\$!GFLG!
! P9(A'5' (A' (\$!9(206 '8! /O&-\$-2#&! / #*\$-2-5#S-0(!#(A! e 06' (d+!X->%\$+!-(!Q<@ 'R-+\$#(8S!
! -(!<#A(-0+<A(&'A&4+- '5+ : '6&%5(4A(;0('-%B+<6/5(&4D+, '+: '6&C%-6&5+, ; ;%#-A*8! : '(\$*!
! 10*!7\$*#S'>-2!7\$BA-' +8! " BY#-\$!Q(-; '*+\$. !/*'+8!GFFJ!
! P` !50+R#R%!5*05#; +% '>0!gD 'A(O>O! ` +#A(-R#8S! ! "#\$%&' (&2!Z00!M8!E5*-&8!LMMH!
! KY-\$%!40(#&A! : #*&-+&'N!
! " -+\$0*--!4 '+\$#&-(-<#S+--!;!Q<@ 'R-+\$#('8S8! ! "#\$%&' (&2!Z00!G8!LMMG!KY-\$%!40(#&A! : #*&-+&'N!
! P)% '! /&->%S!O! e 06' (!-(!\$%'!Q77X8S!E#/%' -0+#!+ F#8 &'G4+<6/5(&48!75*-(>8!LMTM!
! 70; '\$+R#.#! , BR%#*#3!D0+R0; +R#.#!DOA' &!E1>%#(-+\$#(#hS8! ! "#\$%&' (&2+Z00!I8!LMTV!
! KY-\$%!40(#&A! : #*&-+&'N!
!

!25-./')75?A1>'

! " BY#-\$3! /O&-\$-2+! =! c -&!-(!\$%'! ?B&1!K-(!" BY#-\$8!QEW!#(A! i #S#*N!
! 9(\$'2B&S#*#&!#(A! /B@&-2!4-5&06 #2. !K-(!" BY#-\$!#(A!7#BA-!E*#@-#N!
: *--+! /O&-\$-2+!K /O&-\$-2#&!72-' (2'!C0(O*+!7' 6-(#*N!
, #&R#(! : -; -&-<#S-0(+!K2OUS#B>%\$!Y-\$!C+!\$0* .!4 '5#*\$ 6' (\$N'
aB(A#6' (\$#&! : 0(2'5\$+!O1! /O&-\$-2+!
9(\$*OAB2\$-0(!S0!DOA' *(! /O&-\$-2+!
: 065#*#S-; '! /O&-\$-2+!O1!\$%'!D-AA&'!W#+\$!
!)% '0*-' +!O1! : 065#*#S-; '! /O&-\$-2+!
! E1\$'!\$%'!Q77X!
! XB++-#(!a0*' ->(! /O&-2. !
! ?&O@#&! /O&-\$-2+!

! : *+--+! / 0&-\$-2+3! ` -0&' (2'8! e #*8!X'; 0&B\$-0(!
! : 0 6 5 #*# \$-; ' ! W 6 5 - * ' + !
! Z # \$ - 0 (# & - \$. ! # (A ! W \$ % (- 2 - \$. ! - (! \$ % ' ! 1 0 * 6 ' * ! 7 0 ; - ' \$! Q (- 0 (!
! , 0 * A ' * ! # (A ! : 0 (1 & - 2 \$!
! / 0 & - \$ - 2 + ! # (A ! 7 0 2 - ' \$. ! - (! : ' (\$ * # & ! W B * # + - # !
! 9 (+ - A ' ! \$ % ' ! " - (> A 0 6 3 ! : 0 (; ' * + # \$ - 0 (+ ! Y - \$ % ! 7 # B A - ! e 0 6 ' (! K ; - A ' O U 2 0 (1 ' * ' (2 - (> N !
! E (# \$ 0 6 . ! 0 1 ! 4 - 2 \$ # \$ 0 * + % - 5 !
! ! ! ! ! !

*** 4E3/30?'704' & .012-30?3!**

GFL_UGFLM3!X-+'!D'(\$0*(-(>!/ *O>*#68!, O+\$O(!: 0&&'>'! e 0 6 ' (d+!: '(\$*!
GFFHUGFGL3!a*' +% 6 # (!c*-' (\$#\$-0(8!a-*+\$! j '#*!W[5'*-' (2'!KJ!+'++-0(+N!
GFF_UGFLI3!D'(\$0*!10*!/ *'+-A' (\$-#&!72%0&#*+!/ *O>*#6!
GFFGU5*'+' (\$3!a#2B&\$.!EA; +0*!\$O!9: 7! 6 # \ 0 * + ! # (A ! 6 - (0 * + ! K I F ! + \$ B A ' (\$ + N !
!

%.615-./'704'F1A.-'G6A2:7-:='*613E313./3!

4-+2B++#(\$!Pa*' 'A0 6 !#(A! : 0 '*2-0(-(!\$%'! i B*d#(3! " ' . ! ` '*'++8S!] -@*'\$.!aB(A!
: 0(1 '* ' (2 ' 8 ! ^ B & . ! L V U L I 8 ! G F G V 8 ! 9 (A - # (# 5 0 & + 8 ! 9 Z !
: B*#\$0*8!P]#(A+2#5'!01!D' 6 0 * . 3 ! 7 ' ; ' (1 9 (+ \$ # & & # \$ - 0 (+ ! 1 * 0 6 ! \$ % ' ! , # * \ ' ' & ! a 0 B (A # \$ - 0 (8 S !
7%#*\#%8!Q0E0W8!D2DB&&' (!DB+' B 6 8 ! ^ # (B # * . ! V F U ^ B (' ! H 8 ! G F G V !
: 0 (+B&\$#(\$!P e 0 (A '*+!01! : * '#\$-0(3!E*\$+8!72-' (2'!#(A!9((O;#\$-0(-(!\$%'!9+-2! e 0 * & A 8 S !
D2DB&&' (!DB+' B 6 ! 0 1 ! E * \$ 8 ! ^ # (B # * . U ^ B (' ! G F G _ !
PX' 1 & ' 2 \$ - 0 (+ ! 0 (! X B + + - # d + ! e # * ! - (! Q R * # - (' 8 S ! 5 * ' + ' (\$ # \$ - 0 (! 1 0 * ! , : ! E & B 6 (- ! ` '\$ * # (+ !
E++02-#\$-0(8!E5*-&!G8!GFGH!
PXB++-#d+! e # * ! - (! Q R * # - (' 8 S ! Y ' @ - (# * ! 1 0 * ! Z # \$ - 0 (# & ! , : ! E & B 6 (- ! E + + 0 2 - # \$ - 0 (8 ! 0 * > # (- < ' A ! @ . !
e '+\$2%' +\$ '*! : 0 B (\$. ! 2 % # 5 ' * 8 ! D # * 2 % ! L H 8 ! G F G G !
PE1>%#(-+\$#(E1\$' *!E 6 '*-2#8S!5*'+' (\$#\$-0(!\$O!, O+\$O(!: 0&&'>'!E&B 6 (-!E++02-#\$-0(8!
c2\$0@*'!GT8!GFGL8!]#*2% 6 0 (\$8!Z j !
e 0 * R + % 0 5 ! c * > # (- < '*!#(A! / * ' + ' (\$ ' * 8 ! P) % ' ! ? B & 1 8 ! X B + + - # ! # (A ! \$ % ' ! : 0 B (\$ * - ' + ! 0 1 ! \$ % ' !
: 0 6 6 0 (Y ' # & \$ % ! 0 1 9 (A ' 5 ' (A ' (\$! 7 \$ # \$ ' + ! K : 9 7 N 8 S ! ? B & 1 ! X ' + ' # * 2 % ! : 0 B (2 - & ! : 0 (1 ' * ' (2 ' ! G F G F 8 !
: # 6 @ * - A > ' ! Q (- ; '*+\$. 8 ! ^ B & . ! G L U G I 8 ! G F G F ! !
WA-\$0*U-(U: %-! 18! ! ? 1 # % 5 + @ ' A B A 0 # ; & 5 (- + # 1 : 4 0 - 8 8 ! P : ' (\$ * # & ! E + - # ! # (A ! E 1 > % # (- + \$ # (! X ' > - 0 (# & !
750&&->%\$S! c [1 0 * A ! Q (- ; '*+-\$. ! / * ' + + 8 ! G F L _ U 5 * ' + ' (\$!
X ' ; - ' Y ' * 8 ! c [1 0 * A ! Q (- ; '*+-\$. ! / * ' + + 8 ! + 2 % 0 & # * & . ! 6 # (B + 2 * - 5 \$ + ! 0 1 1 ' * ' A ! 1 0 * ! 5 B @ & - 2 # \$ - 0 (! 0 (!
: ' (\$ * # & ! E + - # ! # (A ! E 1 > % # (- + \$ # (8 ! G F L V U L _ !

P9(A'5'(A'(\$!9(206'8!/0&-\$-2#&!/#*-\$-5#-\$-0(!#(A!e06'(d+!X->%\$+!-(!Q<@'R-+\$#(8S!
:0(1'*'(2'!0(!702-#&!72-'(2'+!#(A!9(\$'*A-+2-5&-(#*!.!7\$BA-' +3!E(!9(\$ '>*\$' A!E55*0#2%8!
"BY#-\$!Q(-; '*+-\$.8!4'2'6@'!*!GFFI!
PX'>-0(#&!/0&-\$-2#&!W&-\$'+!#(A!\$%'! " #-60;!7B22'+-0(8S!:0(1'*'(2'!0(!702-#&!72-'(2'+!
#(A!9(\$'*A-+2-5&-(#*!.!7\$BA-' +3!E(!9(\$ '>*\$' A!E55*0#2%8!"BY#-\$!Q(-; '*+-\$.8!4'2'6@'!*!
GFFI!
P?'(A'*!E\$\$-SBA'+!#(A!4'602*#-\$-<#-\$-0(8S!e0*!A!E11#-*+!] '2\$B*'!7'*-'+8!7%'*-(!=!
]0A>'(8!LFF!7B66'6'7\$*' '\$8!, 0+\$0(8!Z0;'6@'!*!L_8!GFFI!
P76#&&U72#&!') '**0*-+6!#(A!E*6+!)#*11-2R-(>!-(!Q<@'R-+\$#(!#(A!)#-R-+\$#(S!5*'+'(\$#-\$-0(!
\$O!C#*;#*A!Z#-\$-0(#&!D0A'&!QZ!/*O\ '2\$8!Z0;'6@'!*!LT8!GFF_!
P)%'/0&-\$-2#&!]#(A+2#5'!0!Q<@'R-+\$#(S!e0*!A, 0+\$0(!&'2\$B*'8!^B('!GFF_!
P)%'!e#*!10*!DB+&-6!D-(A+8S!e0*!A!E11#-*+!] '2\$B*'!7'*-'+8!7%'*-(!=!]0A>'(8!LFF!
7B66'6'7\$*' '\$8!, 0+\$0(8!c2\$0@'!*!GG8!GFFH!
P)%'!]#+\$!e' 'R+!c!e0*!A!e#*!998S!9(\$*';-'Y!10*!)%!'!C-+\$0* .!:%#(('&8!4'2'6@'!*!GFFH!
PW+\$#&+&-(->!/ *O>#*6+!-(!9+-2!7\$BA-' +!-(!Q7!Q(-; '*+-\$'+8S!9(\$*';-'Y!10*!7\$#'\$!
4'5#*\$6'(\$!Z'Y+&'\$\$*8!a'@*B#* .!GFFH!
9(\$*';-'Y+!10*!a#*+!Z'Y+!E>'(2. !20(2'*(->!9*#(-#(!B2&'#!Y'#50(+!5*O>#*68!'&'2\$-0(!
0!E%6'A-(#A8!#(A!Q7U9*#(-#!* '&#-\$-0(+8!c2\$0@'!*!GFFH8!^B('!GFF_8!7'5\$'6@'!*!GFF_!
b)%'!7'20(A!/#*\$.!7'2*\$#* .!-(!\$%'!Q(-0(!X'5B&&-2+b!EE77!Z#-\$-0(#&! :0(; '\$-0(8!
CO(O&B&B8!Z0;'6@'!*!LMTT!
b4'U7\$#&-(-<#-\$-0(!-(!Q<@'R-+\$#(8b!Z#-\$-0(#&-\$'+!]B(2%'0(!7'6-(#*8!a'@*B#* .!LL8!LMTI8!
:00&-A>'!C#&&8!4#;+!:'(\$*8!C#*;#*A!
Sa#-<B&&#!' %0\#';!#(A!ER6#&!9R*#60;3!)Y0!`-'Y+!0(!DB+&-6!D0A'*(-<#-\$-0(S!Z'Y!
W(>&#(A!7&#;-2!E++02-#-\$-0(8!D#*2%!GV8!LMT_!
!
!2; ; 3!1../'C''03E.-/3!='G.-E36.'
GFGHkE: :!E2#A'6-2!] '#A'*+% -5!Z'\$YO*R!
GFGFU5*'+'(\$! ?&O@#&!W(>#>'6'(\$! :066-\$-\$'8!6'6@'!*!'5*'+'(\$->!D :E7!
GFLIU5*'+'(\$!Q(-; '*+-\$.! :OB(2-&!0(!)'#2%-(>8! :%#*!
GFLIU5*'+'(\$!PQ(-; '*+-\$.!W\$%-2+S! :066-\$-\$'!6'6@'!*8!2%#*8!E\$%&'\$-2+!B@U2066-\$-\$'8!
^'+B-\$!9(+-\$-B\$'8!20(1'*'(2'!E5*-&!_UJ8!GFLJ!
GFLIU

