



"#!\$%&' ()' *!+, -+./%*012#3!&%0' *4!255*%&' 3!2#!678' 2*!9: 6+!(;1!%#!4<=%%1!)>;13;#?!
;(5*%&' (' #0!)%#3!)8!2!0@%70=;*34!(2A%*;08B!C24' 3!%#!2!<;0;D' #73' &' 1%5' 3!2#3!5*;%*;0;D' 3!5!2#.!
0=' !)%#3!@;1!E>118!(%3' *#;D' !0=*' ' !=;?=!4<=%%14!2#3!*' 5!2<' !%#' !F76!4<=%%1B!"0!@;1!2!4%!*' 5!2<' !
%E4.!2#3!;(5%&' !4' ;4(;<!42E' 08.!2<<' 44.!2#3!?'*23' !G0=760=!4<;' #<' !<1244*%%(4!20!>5!0%!GH!
%0=' *!4<=%%14B!

/=24' !//*!!

!

SI@' 1<% (;#?.!0@%!40%*8!<% ((%#4!0=20!5*%&;3' 4!40>3' #04!2#3!0=' !<% ((>#;08!2!452<' !0%! ?20=' *.!@%*V!2#3!1' 2*#B!

!

\$' @!452<' 4!2#3!%55%*0>#;0;' 4!E%*!<2*' ' *!2#3!5*%A' <07) 24' 3!1' 2*#;#?!4%!40>3' #04!<2#! 3*' 2 (.!3' 4;?#.! (2V' !2#3!<*' 20' B!

^' 2*#;#?!@;#?4!@;0=!2!&2*;' 08!%E!452<' 4!@;*' 3!E%*!0' <=#%1%?8!0%!' #=2#<' !?%*>5!2#3! ;#3;&;3>2!;D' 3!1' 2*#;#?!

!

R' 5>*5%4;#?!0=' !2>3;0%*;> (!24!0=' !#' @!O' 3;2!1' '#0' *!2!1%@;#?;!0=;4! (2A' 40;<!452<' !0%! <%#0;#>' !0%!4' *' &' !0=' !R%4' &' !0!<% ((>#;08B!

!

\$' @!20=' 0;<4!E2<;1;0;' 4!;#<1>3' !2!#' @!78 (!@;0=! J52#3' 3!<252<;08!2#3!2!#' @!2>J;1;2*8! ?8 (!0%!4>55%*0!2<0;&;0;' 4!4><=!24!32#<' !2#3!@*' 40!;#?!

!

SI#' @!S*04!_ ;#?;!0=20!E' 20>*' 4!2! (%3' *#!0=' 20' *! (>4;<!*%% (4!2#3!2*0!<1244*%% (4B!!

!

SI<% ((>#;08!4' *;<' 4!<' #0' *!@;0=!2!=' 2!0=!<1;#;<.!<1%0=' 4!<1%4' 0.!E%3!52#0*8.!2#3! <%>#4' 1;#?!<' #0' *!0=20!5*%&;3' 4!2!4' 52*20' !' #0*2#<' !E%*!2E0' *7=%>*4!>4' !

!

!

I % #40* ><0;%#!@;11!)' !5=24' 3!4><=!0=20!40>3' #04!2#3!0' 2<=' *4!@;11!*' (2;#;!%#74;0' B! !1244' 4!@;11!)' ! (%&' 3!)' 0@' ' #!0=' !' J;40;#?!)>;13;#?.!0' (5%*2*8!<1244*%% (4.!2#3!0=' !#' @!E2<;1;08!24!;0!;4! <%#40*><0' 3B!L=' !5*%A' <0!0' 2 (!@;11!)' !;#!<%#402#0!<% ((>#;<20;%#!@;0=!R%4' &' !0!T;?;!U<=%%1! 402EE!0%! (;#; (;D' !3;4*>50;%#!0%!0' 2<=' *4!2#3!40>3' #04!0%!0=' !' J0' #0!E' 24;)1' B!

!

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

!

+

+, - \$\$. ' ' / \$ %

I 1244' 4!3;4512<' 3!) 8!*' # % & 20; % # 4! 0% ! 0 = ' ! - M + - !) > ; 13; # ? ! @ ; ! !) ' ! = ' 13! ; # ! # ' @ 18! < % (51' 0' 3!!
< 1244 * % % (4! % * ! ; # ! 0' (5% * 2 * 8! E 2 < ; 1; 0; ' 4! 7! 0 = ' ! (% 3 > 12 * !) > ; 13; # ? 4. ! ! ;) * 2 * 8! @ ; # ? . ! 2 # 3! < 2 E' 0' * ; 2! @ ; # ? B! !
L = ' ! / * % A' < 0! L' 2 (! @ ; ! ! * ' (2; # ! ; # ! < % # 402 # 0! < % ((> # ; < 20; % # ! @ ; 0 = ! 402 E E ! 0% ! 4 = 2 * ' ! < % # 40 * > < 0; % # !
> 5320' 4! 2 # 3! 2 # 0; < ; 520' 3! ; (52 < 04! 0% ! 0 = ' ; * ! * % % (4. ! 4 > < = ! 24! # % ; 4' ! % * ! / = 24' ! ! 0% > < = 7 > 5! @ % * V B!
!

01# - * # . % -) 2 % & # . 3' . / () 4 % / . * \$ %

<%#0;#>' !0%!)' !2!02*?' 0' 3!*' 4%>*<' !0%!0=' !3' 4;?#15*%<' 44.!24!0=' 8!V#%#@!0=' !%5' *20;%#4!%E!0=' !
4<=%%1.!0=' !40>3' #04!@=%!1' 2*#!0=' *' !2#3!0=' !%55%*0>#;0;' 4!0=20!' J;40!E%*!;(5*%&' (' #0B!

SI!2*?' !#>()' *!%E!5>)1;<!%>0*' 2<=!2#3!' #???' (' #0!' &' #04!@' *' !=' 13!;#<1>3;#?!.: !W' 4;?#!
S3&;4%*8!X*%>5!(' ' 0;#?4.!: !5>)1;<!3' 4;?#!@%*V4=%54!2#3!H!3' 4;?#!%5' #!=%>4' 4B!L=' !//U!
%>0*' 2<=!0' 2 (!200' #3' 3!%&' *!Y, !52*'#0!E%<>4' 3!2#3!#';?)%*=%%3!(' ' 0;#?4!Z!' &' #04B!\$%0;<' 4!
E%*!5>)1;<!(' ' 0;#?4!@' *' !3;40*;)>0' 3!0=%%>?=!4<=%%1!#' @4! 00' *4.!E!8' *4!512<' 3!;#!4<=%%14!2#3!
0=%%>?=%>0!<% ((>#;0;' 4B!S34!E%*!' &' #04!@' *' !512<' 3!;#!1%<2!#!' @4525' *4!;V' !0=' !UV2##' *!2#3!
0=' !U0B![%=#4!R' &' @B!__' !214%!>4' 3!0=' !\OOS!' (2;1!4840' (!0%!4' #3!%>0!#%0;<' 4!2#3!>5320' 4!0%!
=>#3* 34!%E!5' %5! B!S14%!0=' !//U!! "\$%&')!4840' (!4' #3!%>0!<2!14!0%!E2 (;!; 4!%E!40>3' #04!20!
R%#4' &' 10!2#3!2!1!;04!E' ' 3' *!4<=%%14!@=' #' &' *!2!5>)1;<!@%*V4=%5!%*!%5' #!=%>4' !@24!=' 13B!
!

C%0=!O240' *!/12##;#?#2#3!U<=' (20;<!W' 4;?#!@%*V4=%54!@' *' !=' 13!20!R%#4' &' 10!T;?=.!0=' !
I=2*1' 4![%*32#!I % ((>#;08!I ' #0' *.!2#3!X' %*?' !O;331' !U<=%%B!L=' 4' !@%*V4=%54!@' *' !
E%11%@' 3!)8!P5' #!T%>4' 4!@=' *' !0=' !5*' E' ***' 3!(240' *!2#3!4<=' (20;<!3' 4;?#1512#4!@' *' !
;#E%* (2118!5* 4' #0' 3!0%!0=' !<% ((>#;08B!!S!<%#40* ><0;%#;!; (52<0!P5' #!T%>4' !@24!214%!= ' 13B!
L=' 4' !%5' #!(' ' 0;#?4!?2&' !(' ()' *4!%E!0=' !<% ((>#;08!2#!%55%*0>#;08!0%!3;* <0!8! #???' !@;0=
0=' !W' 4;?#!L' 2 (!;#!3' E;#;#?!2!<%11' <0;&' !&;4;%#!E%*!0=' ;*!4<=%%1B!!!
/' %51' !@' *' !2)1' !0%!4=2*' !0=' ;*!0=%>?=04!2#3!;3' 24!%#W!__=20!4=%>13!0=' !E>0>' !R%#4' &' 10!1%#V!
2#3!E' ' !1!;V' h!__=20!52*04!%E!0=' !)>;13;#?!2#3!<2 (5>4!@%*V!@' 1h!!__=20!52*04!3%#d0h!!T%@!<2#!

E>#<0;%#21!2#3!E%<>4' 3!%#!' 3><20;%#21!#' ' 34!@=;'! !2<<% ((%320;#?!3' 4;*' 3!<% ((>#;08!
2<0;&;0;' 4B!L=;4!;#<1>3' 4!)>;13;#?!<=2#?' 4!0=20!<*' 20' !E! J;)'! !452<' 4!E%*!0' 2<=#?#2#3!1' 2*#;#?;!
2#3!%0=' *!;(5*%&' (' #04!0=20!4>55%*0!40>3' #0!2<=#; '&' (' #0B!

L=' !3' <;4;%#!0%!E>118! (%3' *#;D' !%*!<% (51' 0' 18!*' 512<' !2!4<=%%1!)>;13;#?!3' 5' #34!%#;!04!2?' .!
=;40%*;<14;?#;E;<2#<' .!<%#3;0;%#.!3' E;<;' #<;' 4!2#3!4;D' !2#3!5*%?*2 ((20;<!452<' !#' ' 34B!
//U!=24! (2#8!=-;40%*;<!#';?=) %*=%%3!4<=%%14B!T;40%*;<!)>;13;#?4!2*' !)' ;#?!*' =2);1;020' 3!0=*%>?=
0=' !U<=%%1!C>;13;#?!' (5*%&' (' #0!C%#3!;#!2!@28!0=20!4!<%#4;40' #0!@;0=!0=' !)>;13;#?d4!=-;40%*;<2!1
3' 4;?#20;%#4!2#3!)>;13;#?!<% (5%# ' #04.!@=;'! !5*%&;3;#?!>570%7320' !0' 2<=#?#2#3!1' 2*#;#?!
' #&,*%# (' #04!2#3! (%*' !3>*2)' !.4>402;#2)' !E;#;4=' 4B!L' 2<=# *4.!402EE!2#3!E2 (;!;' 4!2*' !;#&%1&' 3!
;#!512##;#?#0%!= ' 15!5*' 4' *&' !0=' !>#;g>' !245' <04!E!' 2<=!4<=%%1!2#3!;04!;#0' ?*20;%#;!#0%!0=' !
4>***>#3;#?!<% ((>#;08B!

!

O2#8!5>);<!2#3!5*;&20' !;(5*%&' (' #0!5*%A' <04!;#<1>3' !*' g>;*' (' #04!0%!<%#40*><0!*' 120' 3!
0*2#45%*020;%#!;(5*%&' (' #04!24!2!52*0!%E!0=' !@%*VB!//U!2#3!0=' !! ;08!=2&' !2?*'' 3!0=' !! ;08!@;1!
3' 4;?#!2#3!<%#40*><0!2#8!*' g>;*' 3!0*2#45%*020;%#!5*%A' <04!;#!0=' !! ;08d4!*;?=07