!"#\$%&'()*+%\$'&,%-*+.).#"(/0** 12'3"(*4\$"-'&'"('3#*

! "#\$#%&\$#\$%'(%)*+, +-./\dot/. O%. I, +-+\$2*. 2+'-%. \$%. %)#-2*. /%, #. -\$%'(%*#\$+\$2+-3%2"#%. 4'/+2+'-%'(%
\$/. 5#*67%8#)'-\$2*&)2+'-7%. - I%I#\$#3*#3. 2+'-7%)'-2+-&#%2'%+-('*, %)*+, +-./\dot/9*')#\$\$#\$%. - I%
+-\$2+2&2+'-\$%2'\dot/2"+\$%I. 6%46\dot#-. 4/+-3\dot('*, \$\dot'(4*&2./+26\dot). - I\dot/1+\$*#3. *I\dot'2". 2\dot'0'\dot'4\dot/4+\dot-4, . 3+-. 4/#\dot'

G'76.--.*4-.B%(8.2*%(8*6.2*7"(&.#:"2%2'.3H'(7-,8'())*I2/%(*J&.=.(3"(?*5%KL.6'3'* ! "% & .3?*5' #*M'3.?*4().-%*N%='3?*G%27*O% #"(&*+'--H%2.*% #"()*&6"3.*%7&'=.-/*:,23,'()*2.3'3&%(7.*%(8*76%().*&"*&6.*6.).#"('7*"28.2;*<(*4-.B%(8.2P3*0RSTRU*>"2E?*!"#%G#O%H+,%I*'07% 36.*.3&%\$-'36.8*&62..*#%V"2*3/3&.#3*"9*2%7'%-*7"(&2"-*'(*4#.2'7%(*6'3&"2/0*3-%=.2/?*\\#*!2">?*%(8* #%33*'(7%27.2%&'''(;*N.3:'&.*36'9&'()*%(8*8.7.:&'=.*26.&''2'7?*&6.*&.76("-")'.3*%(8*3/3&.#3*''9* 72,.-\(\delta\)/*\(8*7"(\(\delta\)'"+#.\(\(\delta\)'\(\delta\)''+#\(\delta\)'\(\delta\)''+#\(\delta\)'\(\delta\)''+#\(\delta\)'\(\delta\)''+#\(&2% (39"2#%&'"(*% (8*&2% (3-%&'"(*\$.&>...(*&6.3.*3/3&.#3;*477"28'()*&"*4(82.%*J#'&6*0RSTRU?*&6.* 9"2#%&\"(*"9*&6.3.*2%7'%-*7%3&.*3/3&.#3*7%(*\$.*,(8.23&""8*&62",)6*&6.*-.(3.3*"9*>6'&.*3,:2.#%7/* %(8*3.&&-.2*7"-"('%-'3#;*J#'&6*'8.(&'9'.3*&62..*:'--%23?*"2*:2'#%2/*-")'73?*"9*>6'&.*3,:2.#%7'3&* 3.&\dark - .2*7"-" ('%-'3#0*C0TU*3-%=.\\$\s'-'\dark \%\ (\dark I -\%7E*2\%7'3#)\?>6'76\%\ (76"23*7\%: \dark -'3#\Y*0RU*). ("7'8.?* >6'76*% (76"23*7"-"('%-'3#\)1*% (8*0ZU*"2'. (&\%-'3#\)1*>6'76*% (76"23*>\%2D*0RSTRU;\\$56.*9'23&*:'-\%2\?\ 3-%=.%\$'-'&/?*6%3*#%('9.3&.8*'(*8'99.2.(&*9"2#3?*'(7-,8'())*36%2.72"::'()?*'(8.(&,2.8*3.2='&,8.?* 7"(='7&*-.%3'())*%(8*>6%&*'3*&/:'7%--/*2.9.22.8*&"*%3*3-%=.2/*'(*4 # .2'7%(*6'3&"2/*0J # '&6*RSTRU;* 56.*7"(&'(,.8*7"##"8'9'7%&'"(*"9*\$-%7E*\$"8'.3*&6%&*7%(*\$.*"\$3.2=.8*'(*.%76*"9*&6.3.* #%('9.3&%&'''(3*'3*2'''\&.8*'(*\(\&\'-\'))/\&6\\&\&6\'-83*\\$-\\7E*'(8'='8,\%-3\\%3*'(6.2.(\&-/*3-\%=.\\\$-.*\(8* # .2.-/*:2":.2\(\)/*0J # '\(\)6\(\)*RSTRU.\(\)*56.\(\)*3.7"(8\(\):'-\(\)2\(\)*).("7'8.\(\)?2.F, '2.3\(\)\(\)6.\(\)*8'3\(\)::.\(\)2\(\)(7. H "2\(\)*

9"2*7"(='7&'"(*9"2*&6.*3%-.*"9*9'=.*6, (82.8*)2% #3*"9*:">8.2*7"7%'(.*%(8*%*7"(='7&'"(*9"2*&6.*3%-.*"9*9'=.*)2% #3*"9*72%7E*7"7%'(.*04-.B%(8.2*TTRU;**

56'3*)2"33*3.(&.(7'()*8'372.:%(7/*%--">3*9"2*:2'3"(3*&"*\$.*9'--.8*>'&6*#"2.*\$-%7E*%(8* \$2">(*'(8'='8, %-3;*e"2*.B%#:-.?*"=.2*&6.*7",23.*"9*"(-/*&62..*/.%23?*&>"*&6",3%(8*:.":-.*>.2.* $76\%2).8*{>}'\&6*9.8.2\%-*72\%7E*7"7\%'(.*{=}'"-\%\&'"(3*Q4-.B\%(8.2*TT`U;*[9*\&6.3.*2.7"28.8*\&>"*\&6",3\%(8?*A)))$ %--*\$,&*.-.=.(*>.2.*\$-%7E*%(8*("&*%*3'()-.*'(8'='8,%-*76%2).8*>%3*>6'&.*04-.B%(8.2*TT`U;* +"22'9/'()-/?*6">.=.2?*4-.B%(8.2*7'&.3*%*3&,8/*:.\$-'36.8*'(*RSSS*92" #*&6.*L%&'"(%-*<(3&'&,&.*"(* N2,)*4\$,3.?*&6%&*2.:"2&.8*C>6'&.*3&,8.(&3*,3.*7"7%'(.*%&*3.=.(*&"#.3*&6.*2%&.*"9*\$-%7E*3&,8.(&3?* , 3.*72%7E*7"7%'(.*%&*.')6&*&'#.3*&6.*2%&.*"9*\$-%7E*3&, 8.(&3?*%(8*,3.*6.2"'(*%&*3.=.(*&'#.3*&6.*2%&.* "9*\$-%7E*3&, 8. (&3D*04-.B% (8.2*ddU;*J"*("&*"(-/*%2.*492'7%(*4#.2'7%(3*:"-'7.8*%(8*:.(%-'A.8*%&*** 6')6.2*2%&.*\6%(*>6'\&.3?*\$,\&*>6'\&.3 H 3:.7'9'7%--/*7"--.).\%).8*>6'\&.3 H ,3.*\\$"\&6*72%7E*%(8* :">8.2*7"7%'(.*%&*6')6.2*2%&.3;*56'3*'3*,(9%&6"#%\$-.*)'=.(*&6.*7"(='7&'"(*2%&.3;*12.3'8.(&* I %2%7E* [\$% # %P3*e%'2*J.(&.(7'())*47&*'(*RSTS*2.8,7.8*&6.*TSS*&"*T*72%7EX7"7%'(.*3.(&.(7.* 8'372.:%(7/*&"*%(*T_*&"*T*2%&""*0 a 2%99*TZSU;*56'3*'3*, (9"'2&, (%&.-/*3&'--*)2"'33-/*'(.F, '&%\$-.;*e"'2* 3. (\delta. (7'())\delta"\sigma.\delta.F, \delta\sigma\sigma.\delta.\delta.\delta\de 3/3&. #3*"9*2%7'%-*7"(&2"-*'(&"*&6.*7.22.(&*3/3&. #*"9*#%33*'(7%27.2%&'"(*'3*("&*-'#'&.8*&"* 3.(&.(7'();**

* 56.*9"2#3*%(8*3:%7.3*"9*:,('36#.(&*8,2'())*3-%=.2/*>.2.*&2%(3-%&.8*'(&"*9"2#3*%(8*3:%7.3*"9*:.(%-*:,('36#.(&*&6%&*%2.*3&'--*,3.8*&"8%/;*b%36%8*J6%\$%AA?*%,&6"2*"9*J9.2+./+K+-3%L/.)M-#\$\$C%

N*)"+2#)2&*#\$%'(%I'-(+-#, #-2%.-1%L/.)M%=.\$)&/+-+26%+-%I"+).3'?*%2),.30**

<(*&6.*\('&.8*J&%&.3?*7%27.2%-*:">.2?*>6'76*>%3*\$"2(*",&*"9*&2%(3%&-%(&'7*3-%=.2/?*))
>%3*.B:2.33.8*"(*&6.*:-%(&%&'"(*%(8*'(*&6.*\$2"%8.2*).")2%:6/*"9*&6.*J",&6;*
!%27.2%-*:">.2*>%3*7.(&2%-*&''*&6.*:,('&'=.*.7"("#/*"9*3-%=.2/*%(8*&6.*-.)%-*)

: .2: .&,%&.*2%7'%-*6.) . # " (/;*56'3*2.8, (8%(7/*'3*("&.>"2&6/*%3*>.--;*4*2.3'-'. (&*3/3&. #*6%3*\$,'-&*
'(*2.8, (8%(7'.3?*3"*&6%&*&6.*9%'-,2.*"9*" (.*2.3: "(3.*8".3*("&*#.%(*%*9%'-,2.*&"**76'.=.*&6.*
3/3&. #P3*. (8*) "%-;*56.3.*2.8, (8%(7'.3*. (3,2.*&6%&*("*: .23"(*"9*7"-"2*'3*.%3'-/?*"2*.=. (*: "33'\$-/?*
%\$-.*&"*2. #%'(*, (%99.7&.8*\$/*&6.*'(9-, .(7.*"9*6.). #" ('7*("2#3*"9*7%27.2%-*>6'&.*3, :2. #%7/;*
M6. (*3' #'-%2-/*.B% #'('()*&6.*2. # (%(&3*%(8*&2%(3-%&'''(3*92" #*&6.*W' #*!2">*.2%?*>.*7%(*3...*&6%&*
>6%&*>%3*" (7.*%(*.2%*"9*8" #.3&'7*&.22"2'3 #*'3*(">*%(*.2%*"9*C7"-"2K\$-'(8D*-%>3*&6%&*%2.*,3.8*&"*
7" (&2"-*\$-%7E*%(8*\$2">(*\$"8'.3?*#'(83*%(8*9, &2.3;*&P3*("*7"'(7'8.(7.*&6%&*&6.*3&%&.3*>'&6*&6.*
6')6.3&*-/(76'()*2%&.3*%2.*&6.*3&%&.3*>'&6*&6.*6')6.3&*.B.7,&""(*2%&.3*QJ&=.(3"(*RSTcU;*f'&6.2*
>%/?*3/3&. #%&'7*2%7'3 #*'3*%7&,%-'A.8*&62",)6*%*8'3:2":"2&'"(%&.*&62.%&*"9*:2. #%&2.*8.%&6

.33.(&'%--/*:.2#'33'\$-.;*<(*Tddc?*1.--*a2%(&*.-')'\$'-'&/*>%3*%-3"*"99'7'%--/*3&2'::.8*92"#*7"(='7&.8*
9.-"(3*QG%37'*_TcU;**

56.*2')6&*&"*="&.*>%3*("&*'('&'%--/*)2%(&.8*&"*492'7%(*4#.2'7%(3

-.9&*W'#*!2">*'(&%7&D*QT^`U;*<(*&6.*L.>*N.%-P3*.7"("#'7*2.9"2#3?*&6.*8.-.&.2'",3*(%&,2.*"9*
7"-"2\$-'(8(.33*7%22'.3*"(*'(*&6.*7%3.*"9*72'#'(%-*V,3&'7.*:"-'7'.3;**!"-"2K\$-'(8(.33*3.2=.3*%3*%*
8.9.(3.*9"2*7"(&'(,'()*&"*7"(8,7&*3/3&.#'7*2%7'3#;*<9*>.*8"(P&*3..*2%7.?*>.*7%(P&*3..*2%7'3#;*<9*)
>.*8.(/*2%7.?*>.*7%(*8.(/*2%7'3#;*!"(3.F,.(&-/?*7"-"2K\$-'(8(.33*8".3*("&*6.-:*&"*76%--.().*"2*
%882.33*2%7'%-*6.).#"(/;*b".8').2*%-3"*7'&.3*b%-:6*f--'3"(P3*:"'(&*&6%&*'&*7%(*\$.*&6.*&.(8.(7/*"9*)**)**3"#.*&"*='.>*6'3&"2/*%3*C3'#:-/*\$%7E)2",(8*%(8*("&*%3*%*9,(7&'"('()*9"27.*'(*7,22.(&*3"7'.&/D*)**)**0T_cU;*56'3*'3*%(*.-"F,.(&*3/(":3'3*"9*&6.*'33,.3*9%7.8*'(*%(*.99"2&*\"*.(%7&*76%().*'(*%**)**)**0**0T_cU;*56'3*'3*%(*.-"F,.(&*3/(":3'3*"9*&6.*'33,.3*9%7.8*'(*%(*.99"2&*\"*.(%7&*76%().*'(*%**)**)**0**0**0**1.2**(8D*"2*C7"-"2K7"(37'",3D*3"7'.&/;*4*7"-"2K\$-'(8*3"7'.&/*'3*'(7%:%\$-.*"9*.B%#'('()*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"2'7*)**-6"3&'-'\%/?*"::2.33'"(?*%(8*6.).#"(/;*!"-"2*\$-'(8*26.&"

56.*:2'3"(*'\data.-9*'3*\subseteq"(*",\data*"9\data.*.B:-"'\data\data'"(*"9\subseteq"\subseteq"(8\data.*>6'\data.*3,:2.#\%7'3\data*
'#:,-3.3\data6\data,(8.2)'28\data'\data'\data.''(3.:\data2\subseteq"-.\subseteq"#\data6.\subseteq"(3\data'\data,\data'"(\data'\data-9\sis,\sis,\sis,\data'\data'\data')'(\data-9\sis,\sis,\sis,\data'\data'\data'\data')'(\data-9\sis,\sis,\sis,\data'

'(7-,8.0*:2'3"(*%\$"-'&'"('3#*2.3,-&3*'(*%(*'##.8'%&.*.-'#'(%&'"(*"9*:2'3"(3*"2*'(7%27.2%&'"(* 3'#'-%2*&"*&6.*3,::"3.8*.(8*"9*3-%=.2/*>'&6*&6.*56'2&..(&6*4#.(8#.(&Y*3.7,2.*7"(9'(.#.(&*'3*("* -"().2*%(*":&'"(Y*%(8*3'#'-%2*&"*&6.*:2.='",3*:"'(&?*%--*='"-.(&*"99.(8.23*36",-8*\$.*%\$-.*&"*-'=.* 92..-/*%#"()*3"7'.&/;**

* <(*%7&,%-'&/?*12'3"(*%\$"-'&'"('3#*'3*'(3&.%8*%(*.B&2.#.-/*:2"7.33*"2'.(&.8*#"=.#.(&?*
>6'76*%'#3*9"2*.=.(&,%-*8.7%27.2%&'"(?*.B7%27.2%&'"(?*%(8*8.72'#'(%-'A%&'"(*QN%='3*%(8*
b"82'),.AU;*N.7%27.2%&'"(*'3*&6.*:2"7.33*"9*2.8,7'()*.'&6.2*

7,22.(&*V,3&'7.*3/3&.#*7"(8,7&3*'&3.-9;*4-"()*&6.*3%#.*=.'(?*:2'3"(*%\$"-'&'"('3#*'3*("&*7"##'&&.8*
&"*8.(/'()*&6.*.B'3&.(7.*"9*&6.*C8%().2",3*9.>D*QG7O."8*RST]0*TT^TU;*12'3"(*%\$"-'&'"('3#*8".3*
%2),.?*6">.=.2?*&6%&*C4 (/*3,76*8%().2",3(.33*"(*&6.*:%2&*"9*&6"3.*'(7%27.2%&.8*7,22.(&-/*'3*
.B%7.2\$%&.8*\$/*9.%&,2.3*"9*:2'3"(*3"7'.&/*&6%&*%*>'8.2*.#\$2%7.*"9*%(*%\$"-'&'"('3&*.&6'7*%(8*
92%#.>"2E*>",-8*'#:2"=.D*QG7O."8*RST]0*TT^TU;*<9*3,77.339,-?*&6.*:2"7.33.3*"9*:2'3"(*

12'3" (*%\$"-'&'" (*6%3*&6.*: "&. (&'%-*&"*36'9&*", 2*: 2%7&'7.3*"9*V, 3&'7.*92" #*.B7-, 3'" (%2/*% (8*:, ('&'=.*&''*2.3&''2%&'=.*% (8*'(7-,3'=.*QN%='3*% (8*b"82'), .AU;*477"28'()*&''*4--.)2%*G;*G7O."8?*

>%3*'(&.(8.8*&''*%76'

GP8%L1b?*RS*J.:&;*RST`?*

```
 . -1\%2''\#\%0-).*)\#*.2+'-\%L+-3\#,\%O\%(6\%\#?*GN0*b">\#\%(*p*O'\&\&-.9'.-8?*RSTS;**) $$ J\#'\&6?*4(82.\%;*QRSTRU;*<(8').(.'&/?*3.\&\&-.2*7"-"('%-'3&?*>6'&.*3,:2.\#%7/;*<(*N;*G;**) $$ +"J\%()?*[;*O\%I.((.&\&?*p*O;*1,-'8"*Qf83;U?*b\%7'%-*9"2#%&'"(*'(*&6.*RT3\&7.(&,2/*Q::;*``KdSU;*I.2E.-./?*!40*\('=.23'&/*"9*!\%-'9"2('%*12.33;**) $$ $$ $$ $$ $$
```