```
"#$%&'()!*
!
!
!
  +),-./0'1!2$,3'04!%)4!2$(.0)5!6070/(83)9!%!:,&%)3';3-!<=3/('(8=>!3)!!"#$"\\ '("!?@AABCD!
                                      E%F!"#$%&'()!
         G3$';!H0%$!I0&3)%$!*AACJK5!: (L!;(!20!:,&%)5!M0''()'!N$(&!I-30)-0!G3-;3()!
                                      6$0!P(430!Q%))!
                                      @!P%),%$>!@A@*!
!
!
```

! #\$%&'()!@

```
E%F!"#$%&'()!
6$0!Q%))!
: (L!;(!#0!:,&%)!?GHID!
```

*R!S (70�\$!@A@A!

+),-./0'1!2\$,3'04!%)4!2\$(.0)5!6070/(83)9!%!:,&%)3';3-!<=3/('(8=>!3)!!"#\$"%k' ("!?@AABCD!

T&%93)0!!N(\$!%!&(&0);!!%!L%//0!U=0!L%//!3'!&%''370!!'8%))3)9!;=0!0);3\$0!'340!(N!%!7%';!#,;!

0&8;>!\$((&0!P%9904!%)4!/,&3)(,'1!;=0!#%\$\$30\$!3'!3)),&0\$%#/>!;=3-.1!&%40!(N!%!&%;0\$3%/!070)!

';\$()90\$!;=%)!43%&()40!U=0!\$((&!3;'0/N!3'!)%.04V!;=0!43&!/39=;!N\$(&!;=0!L%//!\$0N/0-;'!(NN!;=0!

',\$N%-0!(N!;=0!8(/3'=04!';()0!N/((\$1!N3//3)9!;=0!'8%-0!L3;=!%!/%-./,';0\$!9/(L0!S(L!3&%93)0!;=3'!

\$((&!;(!#0!%!8\$3'()!()0!'(!3&8\$0''3()%#/0!,8()!;=0!8'>-=0!;=%;13;!80\$70\$;'13;'0/N!3);(!8\$3'()!(N!;=0!&3)41!%!8\$3'()!(N!;=0!'0/N0!U=0!()/>!L%>!(,;!(N!;=3'!%9()3W3)9!

!			

! #\$%&'()!e

-=%\$%-;0\$!%!'0)'0!(N!8,\$8('0!%'!;=0>!;=0&'0/70'!9\$(L!;(!0&#\$%-0!%!N,)4%&0);%//>!=,&%)3';3-!
8=3/('(8=>!;=%;!8\$0'0);'!730L0\$'!L3;=!%!/%\$90/>!(8;3&3';3-!730L!(N!L=%;!3;!&0%)'!;(!#0!=,&%)0!

1-2+3#-+4%(#%\$*+4.\$5"2//6+7%8.\$&)(26+."&+#-2+9%.&+#%+:2;<=>((2?#."(2+



! #\$%&'()!B

/%';!4%>!(N!;=0!U3&0!b%\$!;(!.3//!070\$>!'3)9/0!#03)9!3)7(/704 c %//30'!%)4!0)0&30'!%/3.00!:0!L%'! $=0!()0!L=(!\&\%40!\ \%\%\%\%\%)!=0!L\%'!=0!()0!L=(!\&\%''\%-\$04!070\$>()0!!3)-/,43)9!=0!$ -=3/4\$0)0!")4!=0!L%'!;=0!()/>!()0!L=(!',\$73704!?Z6%/0.[D0!U=0!d!"!6(-;(\$1!%'!;=0!730L0\$!3'! 3);\$(4,-04!;(!=3&1!3'!%!&%)!L=('0!-(\$0!0;=3-\%/!8\$3)-38\0'!\\\$0!)(L!\\$((;04!3)!=3'!070\\$\%';3)9!=\%;\\$04! (N!=3&'0/N!!3)!=3'!/%-.!(N!#0/()93)9!%)4!%--08;%)-00!T;!3'!()/>!L=0)!=0!&00;'!=3'!=,&%)!-(&8%)3()!;=%;!=3'!8=3/('(8=>!#093)'!;(!4070/(8!3);(!%!&(\$0!=,&%)3';3-!()00! 3);\$(4,-0'!=,&%)!-(&8%)3()!_('0!U>/0\$!?23//30!<380\$D!!%!-=%\$%-;0\$!;=%;!-(&0'!;(!\$08\$0'0);!N(\$! =0!6(-;(\$!=(80!%)4!=,&%)3;>0!('0!%)4!=0!6(-;(\$!X,3-./>!N(\$&!%!';\$()9!0&(;3()%/!%::%-=&0);!3)!'83;0!(N!L=%;!=0!434!4,\$3)9!;=0!U3&0! b %\$0!T)!;=0!'%&0!083'(40!L=0\$0!=0!L%;-=0'!`%''%)4\$%! 430!!;=0!6(-;(\$!\$070%''!;(! ('0!;=%;!ZT\&!/0N;!;\$\%70//3)9!()!&>!(L)!\-('!;=0\\$0\\!)(!()0!0/'0\[!;(! L=3-=!'=0!\$08/30'1!Z;=0\$0a'!&0[!?ZU=0!f)4!(N!;=0!b)(\$/4[D0!U=3'!3'!;=0!N3\$';!\$0%/!3)';%)-0!(N!(0!)0&(;3()%//>!\$0%-=3)9!(,;!;(!;=0!6(-;(\$!!;0//3)9!=3&!;=%;!'=0!3'!;=0\$0!N(\$!=3&0!T)!;=3'!-\$,-3%/! $\&(\&0);!!_('0!3)73;0'!=3\&!;(!-())0-;!L3;=!=0\$!()!\%!40080\$!/070/!!40'83;0!=3'!=\%;\$04!(N!=3\&'0/N0!T;!)$ 3'!()-0!;=0!6(-;(\$!/(L0\$'!=3'!L%//'1!()-0!=0!/0;'!=0\$!3)1!;=%;!'=0!%--08;'!=3&!%)4!'=(L'!=3&!;=0! 7%, 0!(N!=\%73)9!'(\&0()0 c '80-3N3-\%/\>!\!=,\&\%) c ;(!-())0-;!L3;=0!T)!;=3'!L\%>!!;=0!6(-;(\\$! #093)'!;(!%''(-3%;0!N00/3)9'!(N!=(801!/(701!%)4!-(&8%''3()!L3;=!;=0!-()-08;!(N!#03)9!=,&%)0!! f70)!;=(,9=!_

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

N(,9=;!%9%3)';!4,\$3)9!

! #\$%&'()!j

'(&0=(L!',\$73704!;=0!L%\$Dl!.3//3)9!;=0&!()-0!%)4!N(\$!%//!!(\$!=0!-%)!-=(('0!;(!)(;!#/(L!3;!,81!'8%\$3)9!070\$>()0!0/'0!()!;=0!'=38 c 3)-/,43)9!%!',#';%);3%/!9\$(,8!(N!=,&%)'0!U=3'!3'!%!43/0&&%!;=%;!3);0);3()%//>!8%\$%//0/'!;=0!-=(3-0!;=%;!;=0!6(-;(\$!&%40!4,\$3)9!;=0!U3&0!b%\$c;(1!L3;=!;=0!'3&8/0!8, '=!(N!%!#,;;()!(\$!N/38!(N!%!'L3;-=1!-(&&3;!%)!%-;!(N!90)(-3400!

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

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

 $L=3-=!6())\%!\$0'8()4'!\#>!'\%>3)9!!Z>0'!!>(,!4(0!20-\%,'0!'(\&0;3\&0'!!T!;=3).!>(,!)004!'(\&0()0!);(!';(8!>(,[!?ZU=0!_,)\%L\%>!2\$340[D0!6())\%))$

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

';(\$>0!1)!;(8!(N!;=3'1!;=0!6(-;(\$!070)!;%'.'!E%\$;=%!L3;=!;=0!g(#!(N!L%;-=3)9!(70\$!=3&!%)4!

-=%)93)9!=3&!#%-.!3);(!%!U3&0!M(\$4!3N!)0-0''%\$>!!'(&0;=3)9!;=%;!P(=)!I&3;=!/%;0\$!\$0%/3W0'!;=0!

;\$,0!3&8/3-%;3()'!(N!!'%>3)9!;=%;!Z>(,\$!g(#!L%'!;(!0F0-,;0!&00[!U=0!G%&3/>1!&0%)L=3/01!N3)4'!;=0!

6(-;(\$a'!90)0\$%/!/(-%;3()!%)4!#\$,;%//>!'/%,9=;0\$'!'070\$%/!/(-%/!80(8/0!%'!;=0>!-();3),0!;=03\$!=,);!

?Z:,&%)!S%;,\$0[k[U=0!G%&3/>!(N!2/((4[D0!T)40041!3;!3'!8(''3#/0!;=%;!;=0!6(-;(\$!-=('0!;(!#0-(&0!a-2)*0!)*))])))))))

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

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

6(-;(\$!g, ';!=(L!9((4!3;!N00/'!;(!#0!;=0!&%)!L=(!=0/8'!\$%;=0\$!;=%)!;=0!&%)!L=(!=,\$;'0!1)0!';\$()9!

0F%&8/0!(N!;=3'!3'!3)!()0!083'(40!;=%;!;%.0'!8/%-0!3)!<(&8033!4,\$3)9!;=0!0\$,8;3()!(N!E(,);!

Q0',73,'1!L=0)!;=0!6(-;(\$!3'!-()73)-04!;=%;!=0!=%'!;(!/0%70!L3;=(,;!'%73)9!%!'3)9/0!80\$'()!N(\$!

;=0!'%.0!(N!)(;!43'\$,8;3)9!%!ZN3F04!8(3);!3)!;3&00[!6())%1!;0%\$>!%)4!=0%\$;#\$(.0)1!8/0%4'!L3;=!=3&1!

%880%/3)9!;(!=3'!=,&%)3;>!#>!'%>3)9!!Zg,';!'(&0()00!</0%'00!S(;!;=0!L=(/0!;(L)0!P,';!'%70!

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

4070/(8&0);!80\$;%3)3)9!;(!=,&%)3'&!3'!()-0!&(\$0!8,;!;(!;=0!;0';0!T)!;=0!'80-3%/!ZU=0! b %;0\$'!(N! E%\'![!;=0!6(-;(\\$!;\\$\%70\'!;(!;=0!\n,;,\\$0!!-(\&8\0;0\>!())!=3'!(\L)!!;(!\%!=,\&\%)!#\\'0!()!\E\\\$\'0!'';! '(&0!8(3);!4,\$3)9!;=0!083'(40!!=0!\$0&0�\$'!;=%;!;=0!#%'0!0)4'!,8!0F8/(43)9!!3)'83\$3)9!%!)0L! %90!(N!'8%-0!0F8/(\$%;3()!4043-%;04!;(!;=0!-\$0L!L=(!80\$3'=04!3)!;=0!0F8/('3()0!60'83;0!;=3'1! &(;37%;04!#>!=3'!%4&3%;3()!N(\$!`%8;%3)!"40/%340!2\$((.0!?M3)4'%>!6,)-%)D1!L=('0!N,;,\$0!)9\$%)44%,9=;0\$!3'!40';3)04!;(!83()00\$!;=3'!)0L!%90!(N!'8%-0!;\$%70/1!%'!L0//!%'!#>!;=0!\$0';!(N!=0\$! -\$01. $(\$)4!=3'!\$0-(9)3;3()!(\$!;=03!/370'!\%'!7\%/,\%#/01!;=0!6(-;(\$!40-340'!;(!\%#\%)4()!;=0!\$,\0'!;=\%;!$ 90)0\$%//>!\$0';\$3-;!=3&0!U=3'!/0%4'!;(!=3&!'-\$0%&3)9!;=%;!Z;=0\$0!%\$0!/%L'0!U=0\$0!%\$0!/%L'!(N!;3&00! 1)-0!,8()!%!;3&0!;=0\$0!L0\$0!80(8/0!3)!-=%\$90!(N!;=('0!/%L'!!#,;!;=0>!43040!U=0>!%//!43040!6(!>(,! .) (L!L=(!;=%;!/0%70'Y!E0n!T;\\'!;\".0)!\&0!\\/!;=0'0!>0\\\\'!;(!\\$0\\/3\\\0!;=0!\\\L'!(\!;3\&0!\\\\$0!\\&3)0!!\))4! ;=0>!L3//!(#0>!&0n[!f70);,%//>!!%N;0\$!'%73)9!%'!&%)>!(N!;=0!\$0&%3)3)9!-\$0L!&0�\$'!%'!8(''3#/0! (\$)4!;=, '!3);(\$)800\$3)9!L3;=!(\$)18764!8(3);!3)!;3&0!-(\$)7. -(\$)9. (N!;=0!=, &%)!(\$)8. -0!!;=0!6(-;(\$!) '%>'!;(!"40%340!;=%;!ZN(\$!%!/()9!;3&0!)(L1!T!;=(,9=;!T!L%'!g,';!%!',\$737(\$1!#,;!Th&!)(;0!Th&!;=0! L3))0\$0!U=%;h'!L=(!T!%&0!U=0!U3&0!M(\$4!Q3-;(\$3(,'0[!"40/%340!';%)4'!=0\$!9\$(,)4!!;0//3)9!=3&! ;=%;!Z;=3'!3'!L\$()9!!6(-;(\$0!T!4()\h;!-\\$\$0!L=(!>(,!\\$\$00!U=0!U3&0!M(\$4!Q3-;(\$3(,'!3'!L\$()90[! +)(L3)9!;=0!3&8(\$;%)-0!(N!=0\$!40%;=!3)!3)'83\$3)9!=0\$!9\$%)44%,9=;0\$ c

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

-=%%-;0\$!!%'!;=03\$!4%\$.0';!&(&0);'!3)!;=0!8%';!L0\$0!40N3)04!#>!-(&8/0;0!3)%-;3()!3)!;=0!N%-0!(N!%!/3N0!(\$!/370'!3)!80\$3/0!U=0!0F%-;!&(&0);!;=%;!^\%8;%3)!"40/%340!2\$((.0!430'!!;=0!6(-;(\$!/0%\$)'!%!/70\$>!7%/,%#/0!/0''()!!()0!;=%;!L3//!-(&0!;(!'=%80!=(L!=0!,)40\$';%)4'!=,&%)3'&!3)!%//!(N!;=03\$!N,;,\$0!3)-%\$)%;3()'5!8(L0\$!3'!)(;!;=0!8%;=!;(!.3)4)0''c-(&8%''3()!3'0!U=0!()/>!L%>!;=0>!-%)!90;!;=0\$0!!3;!'00&'!!3'!;(!.008!4070/(83)9!\$0/%;3()'=38'!L3;=!;=03\$!-(&8%)3()'!!;(!.008!/0%\$)3)90!I%>'!\%4'40)!Z;=0!8\$0'0)-0!(N!%!-(&8%)3()!-=0-.'!;=0!-(\$\$,8;3()!-%,'04!#>!;=0!6(-;(\$a'!3&&0)'0!\%4'40)1!Z;=0!8\$0'0)-0!(N!%!-(&8%)3()!-=0-.'!;=0!-(\$\$,8;3()!-%,'04!#>!;=0!6(-;(\$a'!3&&0)'0!\%4'40)1!Z;=0!8\$0'0)-0!(N!%!-(&8%)3()'!;(!)*3).!(N!40%;=1!;=0!6(-;(\$!40-340'!;(!73'3;!0%-=!%)4!070\$>!()0!(N!;=03\$!8\$073(,'!S0L!b=(!-(&8%)3()'!;(!'%>!9((4#>00!:0!070)!73'3;'!_('0!#0N(\$0!'=0!.)0L!=3&!!g,';!'(!;=%;!=0!-(,/4!'00!=0\$!()0!/%';!;3&0!?ZU=0!f)4!(N!U3&05!<%\$;!@[D0!b3;=!;=0!40%;=!(N!;=0!*A!"!6(-;(\$!1;=0!-=%%-;0\$!9370'!,8!=(80!(N!070\$!;\$,/>!#0-(&3)9!=,&%)0!\dots;=(1;=0!*A!"!

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

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

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

\$0',/;!!=0!3'!,)%#/0!;(!L=(/0=0%\$;04/>!%--08;!;=0!;3;/0!(N!Z9((4!&%)[!%)4!;=0\$0N(\$0!N,//>!#0/3070!
3)!;=0!=,&%)3'&!;=%;!=0!;\$30'!'(!#%4/>!;(!8\$%-;3-00!U=3'!3'!#0-%, '0!;=0\$0!3'!%!43';3)-;!%)4!
3&8(\$;%);!43NN0\$0)-0!#0;L00)!4(3)9!'(&0;=3)9!g,';!#0-%,'0!3;!'=(,/4!#0!4()0!%)4!4(3)9!3;!
#0-%,'0!3;!3'!'(&0;=3)9!;(!#0!#0/30704!3)!!%)4!=,&%)3'&!%'!%!8=3/('(8=>!40&%)4'!;(!#0!#0/30704!3)0!!

\$070\$;=0/0''!!3)!%!/(;!(N!L%>'!!;=0!6(-;(\$a'!3)3;3%/!\$0/%;3()'=38!L3;=!"&>!&%.0'!3;!'(!;=%;!=0!4(0'!)(;!=%70!;(!#0/3070!3)!;=3'!=,&%)3'&!#,;!3)';0%4!g,';!%-;!,8()!=3'!,)40\$';%)43)9!(N!3;0!"&>!'00'!;=0!6(-;(\$!%'!%!=0\$(1!%!'%73(\$!!\$%;=0\$!;=%)!L=(!=0!\$0%//>!3'0!T)!%)!0''%>!3)-/,404!3)!;=0!#((.!7(*&>+,6=+6*&";&!"#\$"%&'("4&?%"8&@(+A*12*+%*&\$"&B0/*,&7",6=*1!?-(&83/04!#>!P%'()!2%\$\$!%)4!`%&3//0!60!\0!E,';%-=3(D!-%//04!ZU=0!6(-;(\$!%)4!"&>!<()41[!%,;=(\$!E3-=%0/!23//3)9'!0/%#(\$%;0'!()!;=3'!4>)%&3-1!-/%3&3)9!;=%;!Z;=0!\$0/%;3()'=38!#0;L00)!;=0!f/070);=!6(-;(\$ i %)4!"&0/3%!<()4 i 3'!%!43%/(93-!#0;L00)!;=0!=0\$(!%)4!;=0!%,;=(\$ i ;=0!6(-;(\$!0F3';'!%)4!3'!40N3)04!;=\$(,9=!"&>!<()4a'!';(\$>[!?23//3)9'D!U=3'!#0/30N!;=%;!"&>!=%'!3)!=3&c;>3)9!#%-.!;(!;=0!;=0&0!

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

()-0!;=0!6(-;(\$!%--08;'!;=3'!;=%;!=0!3'!N3)%//>!%#/0!;(!N3)4!'(&0!3)-/3)%;3()!(N!'0/NC%--08;%)-0!
?'3&3/%\$!;(!;=0!d'"!6(-;(\$a'!0F80\$30)-0D!%)4!&(\$0!90),3)0/>!-())0-;!L3;=!=,&%)3';3-!340%/'!!
\$0%/3W3)9!;=%;!L=3/0!=0!3'!)(;!%!Z=0\$(1[!;=%;!4(0'!)(;!3)!%)>!L%>!';(8!=3&!N\$(&!;\$>3)9!;(!#00!

! #\$%&'()!@A

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

! #\$%&'()!@e

;=0!80\$'()!\$0'8()'3#/0!N(\$!;=0!&%\$.!%)4!40&%)4'!;=%;!Z>(,!L3//!'%70!`/%\$%1!%)4!>(,!L3//!4(!3;!) (L!(\$!T!L3/!\$%3)!=0//!()!>(,!N(\$!;=0!\$0';!(N!;3&0 i T!-%)!4(!L=%;070\$!;=0!=0//!T!/3.00!H(,\$70!\$0%4!)=0!';(30'0!H(,!.)(L!L=(!T!%&0!")4!3)!%/!(N!;=%;!;3&0!!434!>(,!070\$!=0%%)>;=3)9!%#(,;!%)>()0!L=(!';(8804!&0 i U=0!6(-;(\$!3'!)(!/()90\$!=0\$0n!H(,!\$0!';,-.!L3;=!&00!")4!T!L3//!0)4!>(,!\$)4!070\$>;=3)9!>(,!/(700[! b =3/0!;=0!6(-;(\$a' !;=\$0%;' !%\$0!(#g0-;370/>!;0\$\$3N>3)9!!)(!()0!-%)!8\$070);! `/\\$\a'!40\;=!\)4!;=0!6(-;(\\$!()-0!\\9\\3)!/('0'!=\3'!\\0';!\\\\$30)4!!;=0!()/>!\80\\$'()!L=(!070\\$!;\\$,/>! ,)40\$';((4!;=3'!70\$'3()!(N!;=0&!%)4!L=(!&%40!=3&!N00/!/3.0!;=0&'0/70'!?ZG%-0!;=0! %70)[D0! 1)-0!%9%3)!!;=0!6(-;(\$!=%'!%//(L04!&(\$%/!%',3;>!%)4!)3=3/3'&!;(!0&0\$90!%'!=3'!,)40\$/>3)9! 8=3/('(8=>1!\$0'(\$;3)9!;(!4%\$.)0''!3)!%!8%)3-.04!/%';C43;-=!0NN(\$:!;(!'%70!`/%\$%!b3;=!;=3'1!`/%\$%! =%'!#0-(&0!g, ';!%)(;=0\$!0F%&8/0!(N!;=0!6(-;(\$a'!8%3)0!I=0!=%'!#0-(&0!)(;=3)9!&(\$0!;=%)!%! &0&(\$>0!")4!>0;1!;=0!6(-;(\$!&,';!X,3-./>!&(70!()!%'!=0!3'!N(\$-3#/>!;0/08(\$;04!%L%>1!/0%43)9! 3);(!%)!083'(40!;=%;1!(N!%//!(N!;=0!S0L!b=(!';(\$30'1!&(';!8(39)%);/>!'=(L-%'0'!;=0!6(-;(\$!%'!%! $N,)4\% & 0); \%/>!=, & \%)3'; C'00.3)9!-=\%\%-; 0\$!?ZG\%-0!;=0!_\%70) [D0!$ T!;=0!)0F;1083'(401!Z: 10870)!10);1[!;=0!1086(-;(\$190;'!;1086);(18!'=3N;1086));(18!'=3N;1086);(18!'=3N -%';/0!!%/()0!!L=0\$0!=0!#0-(&0'!%!8\$3'()0\$!L3;=!)(!&0%)'!(N!0'-%800!ZT)!&(\$0!;=%)!N3N;>!>0%\$'!(N! (470); (3)91[!\\4'40)!\(10'1!Z;=0!6(-;(\$!=\'!()/>!=\4!)3)0!;0/073'04!\470); (50'1!Z;=0)!\! 99,%!-(&8%)3()[!?\%4'40)D0!U=3'!3'!()0!(N!:=('0!083'(40'0!1;3//!';\$,99/3)9!L3:=!=3'! (70\$L = 0/&3)9!9\$30N!N\$(&!;=0!/(''!(N!`/%\$1!;=0!6(-;(\$!;\$30'!;(!=(/4!=3&'0/N!;(90;=0\$!0)(.9=!;(!=(/4!=3&'0/N!);(90;=0)(.9=!;(!=(/4!=3&'0/N!);(90;=0)(.9=!;(!=(/4!=3&'0/N!);(90;=0)(.9=!;(!=(/4!=3&'0/N!);(90;=0)(.9=!;(!=(/4!=3&'0/N!);(90;=0)(.9=!;(!=(/4!=3&'0/N!);(90;=0)(.9=!;(1)(.9=!);(90;=0)(.9=!);(N3)4!!L%>!(,;0!: 0!'(()!43'-(70\$'1!=(L070\$1!;=%;!=0!3'!#03)9!'(L/>!-=%'04!%//!;=\$(,9=(,;;;=0!)-%';/0!#>!%!&()';0\$!X,3;0!8,\$8('0N,//>!)%&04!Z;=0!Q03/0[!U=0!Q03/!\$08\$0'0);'!070\$>;=3)9!;=%;!;=0! 6 (-;(\$!=%'!;\$304!;(!\$34!;=0&'0/70'!(N5!;=03\$!%)90\$1!;=03\$!9\$30N1!;=03\$!8%3)1!%)4!;=0!8%';!3//, '3()'!(N! ;=0&'0/70'0!U=0!Q03/!3'!%!\$08\$0'0);%;3()!(N!=(L!;=0!6(-;(\$!=\%'!.08;!;=0&'0/70'!=3440)\%!3;!3'!)(! &3';%.0!;=%;13;13'!;=0!Z&()';0\$[!(N!;=0!';(\$>1!;%.3)9!;=0!'=%80!(N!%!)39=;&%\$0!;=%;1;=0!6(-;(\$!=%4!

! #\$%&'()!@B

L=0)!;=0>!L0\$0!%!-=3/40!T;!3'!%/L%>'!#0=3)4!=3&1!%/L%>'!-=%'3)9!

! #\$%&'()!@K'

L=3/00[! b 3;=!070\$>!8,)=!(N!;=0!L%/!1;=0!6(-;(\$!&%.0'!%!/3;;/0!&(\$0!8\$(9\$0''!,);3/!!()0!4%>!!)L3;=!%!8%''%90L%>!/%\$90!0)(,9=!N(\$!=3&!;(!N3;!;=\$(,9=1!=0!#\$0%.'!;=\$(,9=!3;!!;=0!/39=;!N\$(&!;=0! #\$(.0)!L%//!'=%;;0\$3)9!;=0!Q03/!;(!830-0'0!\(3)9!;=\$(,9=!;=0!L%//!!;=0!6(-;(\$!0'-%80'!;=0!-%';/0a'! $8, $9\%; ($>!\%)4!N3)4'!=3&'0/N!()! \ \%//3N$0>1!=3'!=(&01!N($!;=0!N3$';!;3&0!3)!\%//!(N!SOL!b=(!))$?Z:0%70)!10);[D0!U=0!L%//!3;'0/N1!/3.0!;=0!Q03/1!3'!%!'>&#(/1!\$08\$0'0);3)9!;=0!6(-;(\$a'!0&(;3())%/!))#%\$\$30\$'!;=%;!=0!8,;'!,8!'(!;=%;!)(!()0!-%)!Z90;!3)0[!S070\$;=0/0''!!;=3'!083'(40!;%.0'!;=0!';%)-0! ;=%:!;=0'0!L%//'!=%70!%)!%470\$'0!0NNO-;!()!;=0!6(-;(\$!!;((!!%'!=0!=3&'0/N!3'!,))##/0!;(!Z90;!(,;0[! b3;=!070\$>!Z3)-%\$)%;3()[!(N!;=0!6(-;(\$!?\$08\$0'0);04!#>!;=0!Z#,\$)3)9[!(N!;=0!'0/N!L=3-=!3'! '>&#(/3-!(N!\$090)0\$%:3)9D!!=0!-=38'!%L%>!%:!;=0!L%//!!)(!&%;;0\$!=(L!/()9!3;!;%.0'0!"//!;=0!L=3/0!! ;=0!Q03/c;=0!#,\$40)'!%)4!\$09\$0;'!(N!;=0!6(-;(\$a'!8%';c;\$>!;(!#\$3)9!=3&!4(L)0!U=0!L%//!3'!%/'(! '>&#(/3-!(N!L=%;!';%)4'!#0;L00)!;=0!6(-;(\$!%)4!%4(8;3)9!%!=,&%)3';3-!340(/(9>0!T;!3'!`/%\$%!!(\$! %;!/0%';!=3'!3&%93)04!70\$'3()!(N!=0\$!!L=(!-()73)-0'!=3&!;(!90;!,8!%)4!.008!N39=;3)91!;(!.008! -=3883)9!%L%>!%;!;=0!L%//!;=%;!'08%\$%;0'!=3&!N\$(&!;=0!80\$'()!;=0>!L%);!;(!#00!U=3'!3'!70\$>! 3&8(\$;%);!!%'!070)!;=(,9=!3;!'00&'!/3.0!3;!L%'!\\%\!L=(!#\$34904!;=0!6(-;(\$!;(!;=0!80\$'070\$%)-0! (N!;=0!=,&%)!'83\$3;!!(*!L%'!;=0!()0!3&%93)3)9!=0\$!!&0%)3)9!;=%;!=0!434!3;!%//!=3&'0/N0!'')4!=0! 4(0'!3;0!: 0!ZL3)'0[!: 0!4\$(8'!=3'!0&(;3()%/!#%\$\$30\$'!%)4!/0;'!;=0!;\$,;=!'=(L0!: 0!/0;'!9(!(N!=3'! 3)) 0\$!4%\$.) 0''1!=3'!3)) 0\$!) 3=3/3' & 1!%) 4!!3) 4'!=3'!=(&00! ") 41!&(';!3&8(\$;%);/>!!=0!N3) 4'! =,&%)3'&!()!;=0!(;=0\$!'3400!"//!=0!=%4!;(!4(!L%'!Z#\$0%.!N\$000[!

Z:0%70)!I0);[!,/;3&%;0/>!'0;'!;=0!';%90!N(\$!;=0!

! #\$%&'()!@R

\$0L%\$40[!: 0!=%'!) (!0F80-;%;3()!(N!\$090)0\$%;3)9!!,)40\$';%)43)9!;=%;!;=3'!3'!L=0\$0!=0!430'!()-0!
%)4!N(\$!%/0!2,;!=0!%--08;'!;=%;1!.) (L3)9!;=%;!=3'!40%;=!L3//!=%70!'0\$704!;(!'%70!80(8/00!U=3'!
%;3;,40!3'!%!N%\$!-\$>!N\$(&!;=0!80\$'()%/!8=3/('(8=30'!%//!(N!;=0!8%';!S0L!b=(!3)-%\$)%;3()'!(N!;=0!
-=%\$%-;0\$0!U=0!6(-;(\$!=%'!!%'!=0!8\$(70'!=0\$01!%-=30704!%!=,&%)3';3-!8=3/('(8=>0!")4!L=3/0!=0!3'!
/,-.>!0)(,9=!;(!070);,%//>!\$090)0\$%;01!;=%;!4(0'!)(;!;%.0!%L%>!N\$(&!;=0!N%-;!;=%;!=3'!%-;3()'!434!
)(;!N%-;(\$!;=%;!3)!%'!%)!(8;3()!?ZU=0!6(-;(\$!G%//'[D0!T)!;=0!0)4!!;=0!*@'"!6(-;(\$!%-;04!L3;=!,;;0\$!
.3)4)0''!%)4!-(&8%''3()1!070)!L3;=(,;!=3'!-(&8%)3()'!';%)43)9!)0F;!;(!=3&!;0//3)9!=3&!;(!4(!'(0!:0!434!3;!%//!()!=3'!(L)1!'=(L3)9!;=%;!=,&%)3'&!3'!)(L!;\$,/>!L=%;!=0!340);3N30'!L3;=!%)4!
#0/3070'!3)0!f70)!L3;=!=3'!/%';!'800-=1!()!;=0!70\$90!(N!\$090)0\$%;3()!!;=0!6(-;(\$!%44\$0''0'!=3'!
N,;,\$0!'0/N!;0//3)9!;=0&!;(!Z%/L%>'!;\$>!;(!#0!)3-01!#,;!)070\$!N%3/!;(!#0!.3)4[!%)4!;(!Z/%,9=!=%\$4!!
\$,,)!N%':!!#0!.3)4

! "#\$%&'()!@d

```
%9%3)';!;=0!L%//!(70$!%)4!(70$!%9%3)0!")4!%9%3)0!")4!%9%3)0!TN!;=0!L%//!3'!';$()90$!;=%)!43%&()4!!
;=%;!&0%)'!;=%;!()0a'!'83$3;!&,';!#0!!;((0! b 3;=!070$>!3)-%$)%;3()!3)!S0L! b=(1!;=0!6(-;($!9(0'!
%#(,;!-=3883)9!%L%>!%;!;=03$!(L)!L%//!!&(;37%;04!#>!;=03$!$0/%;3()'=38'!L3;=!;=03$!-(&8%)3()'!;(!
#$0\%.!;=$(,9=!\%)4!N3)4!;=0!=,&\%)3'\&!L\%3;3)9!N($!;=0&!()!;=0!(;=0$!'3400!U(!X,(;0!\%4'40)!()0!
/%';!;3&01!Z;=0!6(-;($a'!\#3/3;>!;(!-\$0!\\(\$!(;=0\$!\#03)\9'!\\)\4!\\-;!3)!;=03\$!\#0';!3);0\$0';'!3'!\9\\(,)\404!
3)!=3'!$0/%;3()'=38'!;(!=3'!-(&8%)3()'[!?\%4'40)D0!T)!;=3'!L%>1!!"#$"%\'("!%'!%!'=(L!8$0'0);'!
3; '!730L0$'!L3;=!;=0!340%!;=%;!#03)9!=,&%)!3'!40N3)04!#>!%'80-;'!(N!.3)4)0''!%)4!-(&8%''3()!;=%;!
()0!-\%)!-=(('0!;(!0\&\#(4>1!070)!3N!;=0>!\%\$0!N\%\$!N\$(\&!\#0/3073)9!3)!=,\&\%)3'\&!L=0\$0!;=0>!\%\$0!)(L0!)
I(!9(!\%=0\%40!<,)=!;=0!L\%/0!I00!L=\%;!/30'!()!;=0!(;=0\$!'3400!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
```

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

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

3)!%!%)4(&!()0!(N!;=0'0!'=(L'1!0%-=!(N!;=0&!3)!%!43NN0\$0);!()00!U=0!6(-;(\$!0'-%80'!=3'1!/((.3)9!)))))

! "#\$%&'()!J@

U=3'!3'!%!70\$>!3&8(\$;%);!'(,\$-0!;=%;!T!\$0N0\$0)-0!3)!&>!8%80\$0!T!,'0!3;!3)!;=0!3);\$(4,-;3()!;(!9370!-();0F;!;(!\$0%40\$'!;=%;!&39=;!.)(L!/3;;/0!;(!)(;=3)9!%#(,;!/"#\$"%''("0!U=0\$0N(\$0!!;=0!L%>!;=%;!T!N\$%&0!;=3'!3)N(\$&%;3()!3'!0F;\$0&0/>!3&8(\$;%);!!%'!3'!;=0!L%>!3)!L=3-=!T!90;!;=3'!3)N(\$&%;3()0!U=0!%\$;3-/0!(,;/3)0'!;=0!=3';(\$>!(N!;=0!'=(L1!4%;3)9!%/!;=0!L%>!#%-.!;(!;=0!`/%''3-!f\$%0!"--(\$43)9!;(!=3'!#3(9\$%8=>!%;!;=0!0)4!(N!;=0!%\$;3-/0!!P%&0'!`=%8&%)1!;=0!%,;=(\$1!3'!%!8\$(N0''(\$!(N!N3/&!';,430'!%;!;=0!m)370\$'3;>!(N!M03-0';0\$!%)4!%,;=(\$04!%!#((.!3)!@AAK!%/'(!%#(,;!/"#\$"%''("0!U=0!%\$;3-/0!3;'0/N!-();%3)'!%!/(;!(N!3)N(\$&%;3()!L\$3;;0)!#>!'(&0()0!L=(!-/0%\$/>!%4&3\$0'!%)4!\$0'80-;'!;=0!'=(L0!

`(&;(3'1!P%&0'0!Z6%734!U0))%);!S%\$\$(L/>!U(8'!P(430! b =3;;%.0\$!3)!<(//!(N!G%7(\$3;0!6(-;(\$'! %&()9!6(-;(\$! b = (!G%)'0[!@E?E&'95C!!IHGH! b T_f1!@@!I08;0!@A@A!! LLL0'>N>0-(&k'>N>L3\$0k4%734C;0))%);CN%7(\$3;0C4(-;(\$CL=(0!!

U=3'!%\$;3-/0!%'!%!'(,\$-0!%//(L'!&0!;(!\$0N0\$0)-0!;=0!N%-;!;=%;!6%734!U0))%);!;0)4'!;(!#0!%!N%)!
N%7(\$3;0!6(-;(\$!%&()9!!"#\$"%k'("!N%)'0!U=3'!3'!3&8(\$;%);!3)!0';%#/3'=3)9!;=0!'-\$00)'=(;!(N!;=0!
*A!"!6(-;(\$!;=%;!T!9370!3)!;=0!8%80\$!!;\$>3)9!;(!90;!\$0%40\$'!;(!,)40\$';%)4!0F%-;/>!L=(!;=0!-=%\$%-;0\$!
3'!%)4!L=%;!=0!';%)4'!N(\$0!U=0!N%-;!;=%;!;=0!%\$;3-/0!\$0/%;0'!N%7(\$3;3'&!3)!;=0!'=(L!;(!;=0!(;=0\$!
3;0\$%;3()'!(N!;=0!-=%\$%-;0\$!%/'(!%//(L'!N(\$!-(&8%\$3'()!#0;L00)!L=(!3'!&(';!#0/(704!%)4!L=(!3'!
)(;0!P%&0'!^(&;(3'!!%--(\$43)9!;(!;=0!L0#'3;0!!3'!%!8/%>L\$39=;!%)4!%!\$08(\$;0\$!L=(!=%'!#00)!%!
/()9;3&0!N%)!(N!;=0!'=(L0!M3.0!;=0!(;=0\$!%,;=(\$'!T!\$0N0\$0)-0!!%!/3.3)9!(N!;=0!'=(L!3)43-%;0'!%)!
(#/39%;3()!;(!4(!\$39=;!#>!3;!L=0)!L\$3;3)9!%#(,;!3;!!'0-,\$3)9!3;!%'!%!\$0/3%#/0!'(,\$-00!

Z6%/0.0[!!"#\$"%" ("1!L\$3;;0)!#>!_(#0\$;!I=0%\$&%)1!43\$0-;04!#>!P(0!"=0%\$)01!80\$N(\$&%)-0'!#>!!

`=\$3';(8=0\$!f--/0';()!%)4!23//30!<380\$1!'0\$30'!*1!083'(40!K1!22`!I;,43('1!JA!"8\$0!@AAB0!

! U=3'!083'(40!3'!-\$3;3-%/!;(!0';%#/3'=3)9!;=0!Z)0L[!-=%\$%-;0\$!(N!;=0!6(-;(\$0!U=%;!3'1!;=0!

! #\$%&'()!JJ

083'(40!3'!0''0);3%/!;(!,)40\$';%)43)9!=(L!;=0!U3&0! b %\$!=%'!%NNO-;04!;=0!6(-;(\$!!=3'!8'>-=0!!%)4!
=3'!80\$'()%/!8=3/('(8=>0!T;!'=(,/4!#0!)(;04!;=%;!;=3'!083'(40!=%'!%!'80-3%/!3&8(\$;%)-0!3)!;=%;!3'!%!
8%\$;!(N!;=0!N3\$';!'0\$30'!(N!;=0!'=(L!?%N;0\$!;=0!\$0737%/D!%)4!)%\$\$%;0'!;=0!\$0;,\$)!(N!%)!3-()3-!73//%3)0!!
T)!;0\$&'!(N!;=0!8/(;1!;=3'!083'(40!N3)4'!;=0!6(-;(\$!%)4!_('0!/%)4!;=0!U''_6TI!3)!'(&0!.3)4!(N!
,)40\$9\$(,)4!&,'0,&!/(-%;04!3)!m;%=!3)!@A*@0!U=0!&,'0,&!%880%\$'!;(!#0!%!-(//0-;3()!(N!%/30)!
%\$;3N%-;'!%)4!3'!-(&8/0;0/>!8\$37%;0V!/%;0\$!!3;!3'!\$070%/04!;=%;!;=0!&,'0,&!3'!(L)04!%)4!(80\$%;04!#>!
:0)\$>!7%)!I;%;;0)c;=0!&%)!L=(!Z(L)'!;=0!3);0\$)0;0[!U(!',&&%\$3W0!%!X,3;0!-(&8/3-%;04!';(\$>1!
7%)!I;%;;0)!3'!=(,'3)9!%!6%/0.c%!40%4/>!%)4!8,\$0/>!073/!%/30)!;=%;1/370'!3)'340!%!;0\$\$3N>3)9/>!
-(&3-%/!&0;%/!'=0//c3)!=3'!&,'0,&!!L=3-=!-%,'0'!%!/(;!(N!;,\$&(3/!N(\$!;=0!6(-;(\$!!%'!;=0!U3&0!)))))))

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

"''(-3%;0!60%)!(N!;=0!`(//090!(N!"\$;'1!M0;;0\$'!%)4!f4,-%;3()!%;!f%';0\$)!b%'=3)9;()!m)370\$'3;>0!
: 0!3'!%/'(!%!/()9;3&0!N%)!(N!!"#\$"%%'("%

! #\$%&'()!JB

! U=3'!3'!;=0!083'(40!L=0\$0!;=0!6(-;(\$!%)4!_('0!90;!'08%%;040!"N;0\$!%!'3&,/;%)0(,'!6%/0.!%)4!Z`>#0\$&%)[!3)7%'3()!!;=0!6(-;(\$!'-\$%&#/0'!;(!.008!;=0!f%\$;=!'%N0!!070);,%//>!\$0%/3W3)9!;=%;!
=0!-%)!',-.!;=0!6%/0.'!%)4!`>#0\$&0)!3);(!%!7(34!'3&3/%\$!;(!(,\$!-()-08;!(N!(#/373()!%)4!=0//0!)
6(3)9!'(!!=0!N3)4'!;=%;!=0!%)4!_('0!%\$0!%/'(!#03)9!',-.04!3)!!'(!;=0>!=(/4!()!%'!#0';!%''!;=0>!-%)0!
_('0!!;=(,9=!!-%))(;!=(/4!()!N(\$!/()9!!%)4!070);,%//>!/0;'!9(0!I=0!3'!'%704!#>!%)!%/;0\$)%;0!
,)370\$'0!70\$'3()!(N!=0\$!N%;=0\$!L=(!;=0>!=%70!#00)!3);0\$%-;3)9!L3;=1!;=(,9=1!%)4!3'!#\$(,9=;!;(!;=%;!(;=0)!,)370\$'0!g,';!%'!;=0!9%;0'!#0;L00)!;=0&!-/('00!U=3'!/0%70'!;=0!6(-;(\$!%)4!_('0!';\$%)404!()!)03;=0\$!'340!(N!;=3'!,)370\$'%/!ZL%//1[!,)%#/0!;(!90;!;(!0%-=!(;=0\$0!"!#\$,;%/!&(&0);!N(\$!N%)'!!;=3'!-%,'0'!;=0!6(-;(\$!;(!#0-(&0!70\$>!'%4!%)4!N\$%);3-!3)!;=0!)0F;!083'(40!%'!=0!';\$,99/0'!;(!-(80!L3;=!)3'!N00/3)9'0!T)!0';%#/3'=3)9!;=0!;3&0/3)0!(N!-(&8%)3()'!%'!L0!&(70!;=\$(,9=!S0L!b=(1!3;!3'!

! #\$%&'()!Jj

(L)!/3N0!?&,/;38/0!;3&0'Dl!%)4!070)!=3'!'0)'0!(N!'0/N0!")4!>0;!=0!.008'!9(3)91!.008'!;\$>3)9!;(! #\$0%.!;=\$(,9=!;=0!L%//0!^()'340\$3)9!=3'!&(;37%;3()!N(\$!;=3'!&%.0'!;=0!083'(40!%!9\$0%;!'(,\$-0!N(\$!;%/.3)9!%#(,;!;=0!-=%\$%-;0\$0!

Z:,&%)!S%;,\$00[!!"#\$"%" '("!!L\$3;;0)!#>!<%,/!`(\$)0//!!43\$0-;04!#>!`=%\$/0'!<%/&0\$!!!

80\$N(\$&%)-0'!#>!6%734!U0))%);!%)4!G\$00&%!"9>0&%)!!'0\$30'!J!!083'(40!R!!22`!I;,43('!!@K!E%>!@AAj0!

- ! U=3'!083'(40!3'!;=0!N3\$';!8%\$;!(N!%!;L(C8%\$;0\$!3)!L=3-=!;=0!6(-;(\$!#0-(&0'!=,&%)!%N;0\$!
 ;\$>3)9!;(!%7(34!;=0!G%&3/>!(N!2/((40!U=0!083'(40!8\$3&%\$3/>!'0\$70'!;(!'0;!,8!;=0!070);'!3)!;=0!
 '0-()4!083'(40!!L=3-=!&(\$0!=0%73/>!0F8/(\$0'!;=0&0'!!340%'!!%)4!X,0';3()'!',\$\$(,)43)9!;=0!
 6(-;(\$!;=%;!&%>!)(;!=%70!-(&0!,8!#0N(\$00!T)!;=3'!L%>!!;=0!083'(40!3'!70\$>!3&8(\$;%);!!%'!3;!
 0';%#/3'=0'!;=0!6(-;(\$a'!40'3\$0!;(!#0-(&0!=,&%)!070)!L=0)!=0!.)(L'!=0!-%))(;!%)4!%/'(!#\$3)9'!
 ;(!\$3'0!)0L!340%'!L3;=3)!;=0!'=(L!;=%;!L0\$0!)(;!8\$073(,'/>!;=0\$00!U=0!083'(40!%/'(!'=(L'!;=%;!;=0!6(-;(\$!4(0'!)(;!\$0%//>!-()'340\$!E%\$;=%!3)!=3'!40-3'3()!;(!#0-(&0!=,&%))!N,\$;=0\$!8\$(73)9!;=%;!=0!
- P%-.'()!!E%;;=0L0!Z<0;0\$!`%8%/43!fF8/%3)'!b=>!S(!1)0!`%)!20!U((!1/4!;(!</%>!U=0!6(-;(\$0[! @E?E&'95C!!IHGH!bT_f!!d!60-0!@A*J!!LLL0'>N>0-(&k'>N>L3\$0k80;0\$C-%8%/43C0F8/%3)'C L=>C)(C()0C-%)C#0C;((C(/4C8/%>C4(-;(\$0!!

U=3'!%\$;3-/0!N,)-;3()'!%'!%!'(,\$-0!L=3-=!3)N(\$&'!&0!\#(,;!=(L!(/4!<0;0\$!`\%8\/43!L\%'!L=0)!
=0!L\%'!-\%';!;(!8\%>!;=0!6(-;(\\$0!T!, '0!;=3'!3)N(\\$&\%;3()!3)!;=0!0''\%>!;(!-()70>!;=\%;!`\\8\%\/43!3'!(/40\\$!
;=\%)!=3'!S0L! b=(!8\\$040-0''(\\$'!!;=,'!'39)3N>3)9!\%!43NN0\\$0)-0!3)!-=\\\$\%-;0\\$0!U=0!\\\$;3-\0!8\\$(7340'!)
;=\%3'!3\)N(\\$\&\%;3()!\%'!L0\\/!\%'!\%!-();0F;!\\\$(\&!L=0)!;=0!40-3'3()!;(!=\%70!`\\8\%43!8\\%>!;=0!-=\\\$\%-;0\\$!

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

=(L!()0!-=%\$%-;0\$!40'-\$3#0'!;=0!6(-;(\$!;=%;!&%.0'!;=0!083'(40!3&8(\$;%);!;(!&0);3()1!%'!;=3'!
40'-\$38;3()!9(0'!;(!'=(L!;=0!730L0\$!L=%;!;=3'!)0L!*A!"!6(-;(\$!L3//!';%)4!N(\$!%)4!L=%;!=0!L3//!
\$08\$0'0);0!"'!;=0!6(-;(\$!3'!40'-\$3#04!%'!Z/()0/>1[!3;!0';%#/3'=0'!;=0&0'!%)4!340%'!;=%;!=0!L3//!
';\$,99/0!;=\$(,9=!;=\$(,9=(,;!=3'!0);3\$0!;3&0!%'!;=0!-=%\$%-;0\$1!;=,'!#03)9!3&8(\$;%);!;(!&0);3()!3)!
'0;;3)9!;=0!';%90!N(\$!;=3'0!

I&3;=.%1!<%,/%1!%)4!M0L3'1!`(,\$;/%)40!ZE(\$0!6(-;(\$!b=(!%)4!<=3/('(8=>0[!)"%*&!"#\$"%\'("\&\delta\)+,-\(\delta\).(\(\delta\)"1"2(3!!180)!`(,\$;1!@A*B0!

ZU=0!")90/'!U%.0!E%)=%;;%)0[!!"#\$"%" '("1!L\$3;;0)!#>!I;070)!E(NN%;1!43\$0-;04!#>!S3-.!:,\$\$%)1!!

"#\$%&'()!eA

80\$N(\$&%)-0'!#>!E%;;!I&3;=1!+%\$0)!\3//%)1!"\$;=,\$!6%\$73//1!%)4!"/0F!+3)9';()1!'0\$30'!j1!
083'(40!B1!22`!I;,43('!!@d!108;0!@A*@0!

! T)!;=3'!#\$,;%/!083'(40!!;=0!6(-;(\$!!"&>!!_(\$>!!%)4!_370\$!';\$,99/0!%9%3)';!%)!3)7%'3()!(N! b 0083)9!")90/'!3)!E%)=%;;%)!3)!;=0!@A!"!-0);,\$>0!_(\$>a'!/3N0!3'!80\$3(43-%//>!0)4%)90\$04!!#,;! ;=0>!070);,%//>!N3)4!%!L%>!(,;0!";!;=0!0)4!!;=(,9=!!_(\$>!3'!;0/08(\$;04!#%-.!3)!;3&0!#>!;=0!'3)9/0! ;(,-=!(N!%! b 0083)9!")90/!%)4!3'!,)%#/0!;(!90;!#%-.!;(!;=0!6(-;(\$0!U=3'!8\$(&8;'!"&>!;(!/0;!;=0!

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

;3&0!;=%;!;=0\$0!=%70!070\$!#00)!&,/;38/0!6(-;(\$'!()!'-\$00)!;(90;=0\$!%;!;=0!'%&0!;3&0!?;=%;!3'1!'3)-0!
;=0!@AAB!\$0737%/D0!U=0!L%>'!;=%;!;=0>!3);0\$%-;!L3;=!0%-=!(;=0\$!3'!;=,'!70\$>!;0//3)9!(N!;=0!-=%\$%-;0\$!
%'!%!L=(/01!%)4!3;!8\$(7340'!%!&0%)'!N(\$!43\$0-;!-(&8%\$3'()!(N!=(L!;=0!6(-;(\$!4070/(8'!(70\$!;3&00!

ZU=0!6(-;(\$!G%//'0[!!"#\$"%"'("1!L\$3;;0)!#>!I;070)!E(NN%;1!43\$0-;04!#>!_%-=0/!U%/%/%>1!!

80\$N(\$&%)-0'!#>!<0;0\$!`%8%/43!!<0%\$/!E%-.30!!P(=)!I3&&!!E%;;!M,-%'!!%)4!E3-=0//0! \(&0\)!'0\\$30'!*A!!083'(40!*@!!22`!I;,43('!!*!P,/0!@A*j0!

! U=3'!083'(40!N3)4'!;=0!6(-;(\$!=0/83)9!%!=,&%)!-(/()>!()!%!'8%-0'=38!070)!;=(,9=!=0!
.)(L'!;=%;!;=0>!%\$0!4((&04!!%'!3'!=00!T)!;=0!8\$073(,'!083'(40!!;=0!6(-;(\$!/(';!-(&8%)3()!23//!
<(;;'!%)4!)(L1!4>3)9!%)4!#%'3-%//>!%/()01!=0!';%)4'!L3;=!;=0'0!80(8/0!()!;=3'!'=38!N(\$!)(!(;=0\$!
\$0%'()!;=%)!#0-%,'0!3;!3'!.3)40!U=0!6(-;(\$!!3)!;=3'!L%>!!=%'!-(&8/0;04!;=03\$!g(,\$)0>!(N!N3)43)9!
=,&%)3'&!!%'!;=0>!%\$0!)(L!%#/0!;(!40&()';\$%;0!=,&%)3';3-!X,%/3;30'!%)4!#0/30N'!L3;=(,;!%!
-(&8%)3()!#>!;=03\$!'3400!:(L070\$!!;=0!083'(40!%/'(!9(0'!;(!'=(L!;=%;!3;!3'!;=0!6(-;(\$a'!-(&8%)3())!L=(!9(;!;=0&!;=0\$0!!070)!'=(L3)9!;=0&!3)!%!&();%90!%'!;=0!6(-;(\$!3'!()!;=0!#\$3).!
(N!40%;=0!T)!;=0!0)4!!;=0!6(-;(\$a'!%-;3()'!3)!=3'!083'(40!g,';3N>!;=0!340%!(N!%!-(&8/0;04!%\$-!(N!-(&8%)3')*&0!

ZU=0!f/070);=!:(,\$0[!!"#\$"%' ("!!L\$3;;0)!#>!I;070)!E(NN%;1!43\$0-;04!#>!" 4%&!I&3;=1!!

80\$N(\$&%)-0'!#>!E%;;!I&3;=1!+%\$0)!\3/%)1!%)4!"\$;=,\$!6%\$73//!!'0\$30'!B1!083'(40!*1!22`!
I;,43('1!J!"8\$0!@A*A0!

! U=3'!083'(40!3'!;=0!N3\$';!(N!E%;;!I&3;=a'!0\$\%!(N!#03)9!;=0!**!"!6(-;(\\$0!U=0!083'(40! 0';\\#/3'=0'!=3&!\\'!\&,-=!43\\\0\00\);!;=\\\)!;=0!\\A!"!6(-;(\\$!\#,;!';3\\/!;=0!'\\&0!80\\'()1!9\\(\L3\)9!;(! ! "#\$%&'()!e@

0';%#/3'=!-();3),3;>!#0;L00)!;=0!;L(!3)-%\$)%;3()'0!E%;;!I&3;=!=%4!%!70\$>!=%\$4!g(#!%=0%4!(N!=3&1!%'!6%734!U0))%);!L%'!#0/(704!#>!%&(';!%//!!'#\$"%&'("!

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

8=3/('(8=>!()!/3N00!U=0!N%-;!;=%;!;=0!6(-;(\$!4(0'!)(;!4(!%)>;=3)9!;(!';(8!;=0!40%;=!(N!`%''%)4\$%!
3'!70\$>!;0//3)9!(N!=3'!)0L!)3=3/3';3-!8=3/('(8=>1!;=,'!&%.3)9!;=0!083'(40!3&8(\$;%);!;(!&0);3()!3)!
43'-,''3()'!(N!=3'!#0/30N'!%)4!80\$'()%/3;>0!

ZU=0!f)4!(N!U3&05!<%\$;!@0[!!"#\$"%" ("1!L\$3;;0)!#>!_,''0//!U0!6%730'1!43\$0-;04!#>!f,\$('!!

M>)1!80\$N(\$&%)-0'!#>!6%734!U0))%);1!20\$)%\$4!`\$3##3)'1!P(=)!I3&&1!%)4!U3&(;=>!6%/;()1!@AAd!`=\$3';&%'!'80-3%/1!22`!I;,43('1!@!P%)0!@A*A0!

! U=0!'0-()4!8%\$;!(N!;=3'!';(\$>!3'!6%734!U0))%);a'!/%';!083'(400!U=0!U3&0!M(\$4'!%\$0!;\$>3)9!
;(1\$0;,\$)!,'3)9!%!-())0-;3()!;=\$(,9=!;3&0!!#,;!;=0!6(-;(\$!.)(L'!;=%;!=0!-%))(;!/0;!;=3'!=%880)!
#0-%,'0!!;(L%\$4'!;=0!0)4!(N!;=0!U3&0! b %\$!!;=0!U3&0!M(\$4'!#09%)!;(!\$08\$0'0);!&(\$0!073/!
;0)40)-30'0!U=0!6(-;(\$!8,;'!%!';(8!;(!;=3'!#,;!4(0'!3;!%;!;=0!-(';!(N!=3'!/3N00!20N(\$0!=0!430'!!
;=(,9=1!;=0!6(-;(\$!'%>'!9((4#>0!;(!070\$>!S0L! b=(!-(&8%)3()!;=%;!;=0>!=%70!070\$!=%41!
-=(('3)9!/(70!3)!;=0!N%-0!(N!40%;=0!U=3'!3'!%!-=(3-0!;=%;!;=3'!70\$'3()!(N!;=0&'0/70'!';\$,99/04!L3;=!
;=\$(,9=(,;!=3'!\$,)!%'!;=0!-=%\$%-;0\$!!#,;!;=0!N%-;!;=%;!=0!L%'!%#/0!;(!4(!3;!?070)!3N!3;!L%'!%;!;=0!0)4!
(N!=3'!/3N00!3'!70\$>!3)43-%;370!(N!;=0!;=0&0!(N!9\$(L;=0!

ZU=0!\\3\$\!! b = (!63040[!!"#\$"\%' ("1!L\\$3;;0)!#>!I;070)!E (\n\\;!\%)4!P\&30!E\\$;=30'()!!43\\$0-;04!#>!!

f4!2\\\%\\/90;;0!!80\\(\\$\&\%\)-0'!#>!<0;0\\$!\\8\\/43!!P0))\\\!\\(\'1\)(\/0\&\%\)1!\\)4!E\\\3'30! b\\3\/3\\&'!!

'0\\$30'!d!!083'(40!B!!22\\!I;,43('!!*j!1-;0!@A*B0!

! U=3'!083'(40!'=(L'!;=0!6(-;(\$!\$0%/3\%3)9!;=\%;!;=0>!\%\$0!L=(!;=0>!\%\$0!\#0-\%, '0!;=0>!;\\$>!;(!

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

6(-;(\$!3'!3)'83\$04!;(!40-/%\$0!;=%;!=0!'%70'!80(8/0!L=0)!%!/(-%/!93\$/!3)!%!Q3.3)9!73//%90!430'!%'!%!
\$0',/;!(N!;=0!6(-;(\$a'!8/%)!;(!'%70!;=0!L=(/0!;(L)0!:0!3'!-%8%#/0!(N!'%73)9!=0\$!#,;!.)(L'!;=%;!=0!
3'!)(;!',88('04!;(!#0-%,'0!(N!Z\$,/0'[!?-())0-;3()!#%-.!;(!ZU=0!G3\$0'!(N!<(&8033[D0!U=3'!3'!L=%;!
8\$(&8;'!=3&!;(!\$0%/3W0!;=%;!;=0!6(-;(\$!'%70'!80(8/01!%)4!=0!9(0'!#%-.!%)4!'%70'!;=0!93\$/0!T)!
90)0\$%/1!;=0!083'(40!3'!%!9((4!()0!;(!\$0N0\$0)-0!#0-%,'0!3;!'=(L'!;=0!*@!"!6(-;(\$!'(/73)9!=3'!
340);3;>!-\$3'3'!%'!=0!-(&0'!;(!%)!,)40\$';%)43)9!%#(,;!#(;=!=3&'0/N!%)4!;=0&'0/70'0!

ZU=0!G%&3/>!(N!2/((40[!!"#\$"%" '("1!L\$3;;0)!#>!<%,/!`(\$)0//1!43\$0-;04!#>!`=%\$/0'!<%/&0\$!!!

80\$N(\$&%)-0'!#>!6%734!U0))%);!%)4!G\$00&%!"9>0&%)!!'0\$30'!J1!083'(40!d1!22`!I;,43('!!@!P,)0!@AAj0!

U=3'!3'!;=0!'0-()4!083'(40!(N!;=0!;L(C8%\$;!';(\$>!3)!L=3-=!;=0!6(-;(\$!#0-(&0'!=,&%)!%)/!
3)!%)!0NN(\$;!;(!%7(34!;=0!G%&3/>!(N!2/((40!U=0!083'(40!3'!()0!(N!;=0!N3\$';!3)!L=3-=!730L0\$'!%\$0!
&0%);!;(!X,0';3()!3N!L=%;!;=0!6(-;(\$!434!L%'!\$39=;V!;=3'1!3)!;,\$)1!8\$(70'!;=%;!;=0!6(-;(\$!4(0'!)(;!=%70!;=0!,/;3&%;0!%,;=(\$3;>!;(!&%.0!;=0'0!40-3'3()'!#0;L00)!L=%;!3'!-()'340\$04!;(!#0!\$39=;!%)4!
L=%;!3'!-()'340\$04!;(!#0!L\$()90!U=0!083'(40!-=%\$%-;0\$3W0'!;=0!*A!"!6(-;(\$!#\$3//3%);/>!!'=(L3)9!
=3'!';\$,99/0!;(!L%);!;(!#0!=,&%)!40'83;0!;=0!N%-;!;=%;!=0!-%))(;0!T;!%/'(!3//,';\$%;0'!;=0!0NN0-;!(N!;=0!6(-;(\$a'!%-;3()'V!%'!8(3);04!(,;!#>!%!-=%\$%-;0\$!3)!;=0!083'(40!!3N!;=0!6(-;(\$!=%4!)(;!-=('0)!;(!=340!3)!f)9/%)4!3)!*d*J!!;=0)!)(#(4>!L(,/4!=%70!4304!;=0\$0!%'!%!\$0',/;0!U=0!;\$,0!4%\$.)0''!%)4!
)3=3/3'&!(N!;=0!6(-;(\$!3'!'-%\$3/>!0';%#/3'=04!%'!L0//!!#03)9!8\$0'0);!3)!;=0!L%>!3)!L=3-=!=0!
3&8\$3'()'!;=0!G%&3/>!(N!2/((40!U=3'!3'!()0!(N!;=0!&(';!3&8(\$;%);!083'(40'!;(!;%/.!%#(,;!L=0)!43'-,''3)9!;=0!6(-;(\$a'!%\$-!N(\$):=0'0!\$0%'()'0!

ZU=0!G3\$0'!(N!<(&80330[!!"#\$"\\"' ("1!L\$3;;0)!#>!P\\&0'!E(\$\\))1!43\$0-;04!#>!\(/3)!U0\\9,01!!

! #\$%&'()!eK

&3) (;%, \$!&(70'!;(!';\$3.00!<%\$%//0/'!%\$0!4\$%L)!#0;L00)!;=0!6(-;(\$!%)4!;=0!%)-30);!&3) (;%,\$!!%)4!

340%'!%#(,;!L=%;!;=0!6(-;(\$!N0%\$'!%)4!=%'!N%3;=!3)!%\$0!%/'(!X,0';3()04!3;0!T;!3'!=3'!-(&8%)3()'a!

N%3;=!3)!=3&!?'80-3N3-%//>!"&>a'D!;=%;!3'!;=0!;\$,0!N(-,'!(N!;=3'!083'(40!!=39=/39=;3)9!;=0!6(-;(\$a'!\$0/%;3()'=38!L3;=!;=('0!L=(!;\$%70/!L3;=!=3&!%)4!=(L!;=%;!%NN0-;'!=3'!80\$'()%/!730L'!%)4!

8=3/('(8=30'0!U=3'!3'!L=%;!&%.0'!;=3'!083'(40!',-=!%!-(&80//3)9!'(,\$-00!

ZU=0!S%&0!(N!;=0!6(-;(\$0[!!"#\$"%"'("1!L\$3;;0)!#>!I;070)!E(NN%;1!43\$0-;04!#>!I%,/!!

E0;W';03)1!80\$N(\$&%)-0'!#>!E%;;!I&3;=1!P0))%!\(\((10\)&\(\0)\)1!\(\0)\)4!\(\"\0F!+3\)9';\((1)!\)'0\$30'!j1!\\
083'(40!*J1!22\)!I;,43('1!*R!E\(\0)\)!@A*J0!

U=3'!083'(40!3'!;=0!N3\$';!%!;=\$00C8%\$;!0F8/(\$%;3()!(N!;=0!6(-;(\$a'!-=%\$%-;0\$!!3)-/,43)9!;=3'!
083'(40!!;=0!BA!"!%))370\$'%\$>!'80-3%/1!%)4!E%;;!1&3;=a'!\$090)0\$%;3()!083'(40!?;=0!^=\$3';&%'!
'80-3%/D0!U=3'!083'(40!8\$(70'!;(!#0!()0!(N!;=0!&(';!3&8(\$;%);!083'(40'!;(!&0);3()!3)!;%/.3)9!
%#(,;!;=0!-=%\$%-;0\$!(N!;=0!6(-;(\$!#0-%,'0!3;!\$070%/'!;=0!0F3';0)-0!(N!;=0!b %\$!6(-;(\$1!L=(&!;=0!6(-;(\$!=(/4'!%)!,)#0/307%#/0!%&()9!(N!-();0&8;!N(\$0!:0!3'1!=(L070\$1!%!70\$'3()!(N!;=0!6(-;(\$a'!'0/N1!\$08\$0'0);3)9!;=3)9'!;=%;!;=0!6(-;(\$!=%'!4()00!U=0!N%-;!;=%;!;=0>!=%70!#,\$304!;=3'!70\$'3()!(N!;=0&!'(!N%\$!L3;=3)!;=0&'0/70'!8\$(70'!;=0!409\$00!;(!L=3-=!;=0!6(-;(\$!=%'!#00)!,)%#/0!;(!%--08;!;=0&'0/70'1!#,;!%/'(!3)43-%;0'!;=%;!;=0\$0!3'!8\$(9\$0''!;(!#0!&%400!U=0!083'(40!/0%4'!)3-0/>!3);(!;=0!BA!"!%))370\$'%\$>!'80-3%/1!L=0\$0!;=0!6(-;(\$!/0%\$)'!;(!%--08;!;=3'!70\$'3()!(N!;=03\$!'0/N0!

ZU=0!<%\$;3)9!(N!;=0!b%>'0[!!"#\$"%" ("1!L\$3;;0)!#>!_,''0//!U0!6%730'1!43\$0-;04!#>!P(0!"=0%\$)01!!

80\$N(\$&%)-0'!#>!`=\$3';(8=0\$!f--/0';()!%)4!23//30!<380\$!!'0\$30'!*!!083'(40!*J!!22`! I;,43('!!*R!P,)0!@AAB0! "#\$%&'()!ej

ZU=0!_,)%L%>!2\$3400[!!"#\$"%!'("1!L\$3;;0)!#>!_,''0/!U0!6%730'1!43\$0-;04!#>!f,\$('!M>)1!!

80\$N(\$&%)-0'!#>!6%734!U0))%);!%)4!`%;=0\$3)0!U%;0!!@AAK!`=\$3';&%'!'80-3%/1!22`!

I;,43('!!@B!60-0!@AAK0!

! "'!)(;04!3)!&>!8%80\$!!;=0\$0!%\$0!K*%3!N0L!3)';%)-0'!3)!L=3-=!;=0!6(-;(\$!3'!%/()0!3)!%)!

083'(40!!-(&8%)3()/0''0! b =3/0!;=3'!083'(40!3'!;0-=)3-%//>!)(;!()0!(N!;=0&1!%'!=0!3'!g(3)04!#>!

6())%!S(#/0!!'=0!3'!)(;!=3'!\$09,/%\$!-(&8%)3()0!:0!3'!L=(//>!,)N%&3/3%\$!L3;=!=0\$!?%)4!=0\$!L3;=!

=3&D!!%)4!=0!';3//!&3''0'!_('00!U=,'1!3)!%!/(;!(N!L%>'1!;=0!6(-;(\$!3'!\$0/%;370/>!()!=3'!(L)!3)!;=3'!

083'(40!!%-;3)9!L3;=(,;!%!;\$,0!-())0-;3()!;(!=,&%)3;>!,);3/!6())%!0';%#/3'=0'!=0\$'0/N!%'!()0!N(\$!

=3&0!U=0!083'(40!N3)4'!;=0!6(-;(\$!40%/3)9!L3;=!%)!%/30)!3)7%'3()!(N!'8340\$C/3.0!%/30)'1!L=(!=%70!

%/\$0%4>!#00)!&0''3)9!L3;=!6())%a'!/3N0V!;=3'!3'!=(L!'=0!&00;'!;=0!6(-;(\$0!:0!#\$3)9'!6())%!

%/()9!L3;=!=0\$!!=0\$!4())04!3)!=0\$!L0443)9!4\$0''!%'!'=0!L%'!g,';!%#(,;!;(!90;!&%\$\$304!?=0)-0!;=0!

!			

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

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

) (L!=%70!%!N,//>!\$(,)4!,)40\$';%)43)9!(N!=,&%)3'&!;=%;!340);3N30'!L3;=!;=0&!%)4!;=03\$!U3&0!

M(\$4!#0/30N'0!U=0!6(-;(\$!(N!;=0!N,;,\$0!L3//!#0!.3)4!%)4!=,&%)3';3-V!%;!/0%';1!;=%;!3'!L=%;!;=0!*@'"!

6(-;(\$!%'.'!(N!;=0&!3)!=3'!N3)%/!&(&0!;!N3!N3)%