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 3'0) * .83)!9!5%) 4!7\$! -!41' , 1!\$%#&'() (! .1)!0%6+) 4#%: !0#%! +8! -; 1'864! .<\$ '*'-#4'-2! +8!
 =%)!4#%3(&') 4!9-! .1 '*!67.#?) .1-#5%6\$1' , !-6%%6.'&)!9!16&)!\$%#&'() (!.%6- *36.'#- *!#0!
 *#+)! -; 1'864! , #- ,)\$. *!' -!#%()%! .#!\$%#&'()*!##+)! - *'51.!'- .#!-; 1'864! .1'-: '-52&637)*!
 6- (!, 7* .#+ *!9!16&!6&#'((!, '.6.'#- *!6- (!6-!6, 6() +', !.#-)! .#!.%8!6- (!%03) , .!+8!
 -6.7%63!&#',)!@7.!9! ('(!+6:)!7*)!#0!0##. -#.) *!0#%!\$)% .'-) - .!' -0#%+6.'#-!A6%%6.'&)*!6%)!
 #-)!#0! .1)! -; 1'864!468*!#0!6..) +\$. '-5! .#!()63!4'. 1!.1)! , #+ \$3)/'.') *!#0! , 73.7%)! .16.!6%)!
 -#.!63468*!)6*8! .#!*7+ +6%'B) >C1)%!)! .1)%D*! -#!0## (!'.D*!63468*!5## (!.#!* .6%.!4'. 1!6!
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5(3</&, %!*8!7%, 5!') *+, * -B!(!-R/1#(Mg; (-, gT((!41N, 5g''+* *5B!(-5!23T, &&, !') *+, * -B!

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I-5,%-,(&/!&/,!8(I(5,*8!P(-51(-104!M,!0)*Q,*3%!*M-!+(-<3(<,&+J,5!*3%!*M-!
+18,0&#+,&/(5!J,%#!5188,%,-&!@30&*40!(-5!%,4(1-,5!1-&14(&,&#!@*--,@&5!&*!&/,!+(-5!
?3%*-R/1#(M!&S)101-*M1-hP%,,!M(#!*8!0,,1-<!(-5!*3%*-R/1#(M!01/@!QRM1-(hP%,,!
M(#0!*8!5*1-<!&/1-<0!M,%,!(+J,!(-5!&/10!M(0!J,%#!,J15,-&1-!3%!*+(-<3(<,!D-!
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)/%(0,!1)#10*M(Q!R!Q(/Q!&*M(Q!M/1@/!&%(-0+(&,0!+1&,%(+#!(0!h&/,!&/3-5,%!"%50!(%,!
@(+1-<!*3&!&*!*-,!(-*&/,%i!D-!&/10!,N(4)+,&!/!,!>-<+10/!M*%+5J1,M!M*3+5!&#)1@(+#!
@*-015,%!&/10!3-%,(+10&1@!*%!03),%0&1&1*30B!"3&1-!&/,!-R/1#(M!M*%+5J1,M!&/3-5,%!
",1-<0!(%,!@*-015,%5!&*!",!J,%#!%,(+(-5!(+J,!0)1%&O!D-!*3%!*+(-<3(<,!(-14(+0B!
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&M*gm*%5!)/%(0,!M1&/!4(0QM(!4,(-1-<h",(%i!(-5!-1MS)14SM!h4,(-1-<D!0,,!
/14m/,%i!@,(%+#!01<-18#1-<!&/,!(-14(&,!W#!@*-&%(0&B!1-!>-<+10/!18!(!"(%!M,%,!&*!",!
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1-!&/,!1)3"+1@!0@/*+!0#0&,4B!M,!#*3-<!0),(Q,%0!*8!-R/1#(MRM1-!014)+#/(5!&*!(5()&!
&*!(!-,M!M(#!*8!&/1-Q1-<!V,!515!-*&!,(+T,!(&!&/,!&14,!&/(&!&/10!M(0!(!8*%4!*8!
,&/-*@,-&%1@!@*+*-1(+104!\$+*-<!M1&/!*&/,%!(0),@&O!*8!@*+*-1T(&1*-B!1-@+351-<!
-,<(&1J,!14)(@&O!&*!3%!*+(-5!"(0,&B!/10!1-&%*53@,5!(-5!14)*0,5!M(#!*8!&/1-Q1-<!
0+*M+#!",<(-!&*!5141-10/!*3%!/4,+1J,0B!*3%!*+(-<3(<,&!*3%!",+1,8!0#0&,4!(-5!&/,!
8("1@!*8!*3%!,N10&,-@,!(!0!-R/1#(M(Q!D&!M(0!*-+#!"#!@*-&1-31-<!&*!)%(@&1@,*3%!

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@3+&3%, !(-5!+(-<3(<, !0*!5, 5!@(&, 5+#!1-!*3%/!*4, 0!&/(&!4#!@*443-1&#!M(0!(", !&*!
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 -*4 (5!@!M(#!*8!+18, !1-&*!&/, !G_XF0!(-5!(!0, (0* - (+!+(-5g" (0, 5!+18, 0&#+, !%1</&!3)!3-&1!
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! a*/Q*4!M(0!1-!@/(%<, !*8!&/, !/*4, 0&, (5!(-5!M1-&, %!0&*@Q1-<(-5!*3!8**5!
 M(0!)%14 (%1+#!8%*4!&/, !+(-5!\$0!Q150!M, !/(5!&*!)1&@/!1-!M1&/" , %%#g)1@Q1-<!d!
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 h04*Q, /*30, iB!)%,) (%1-<!M1-&, %!81%, M**5B!(-5!@(% , !*8!&/, !@(&&+, !(-5!/*%0, 0!30, 5!8**!
 /3-&1-<(-5!) (@Q1-<!4, (&!*3&!*8!&/, !M**50!/?3%!5(1+#!@/*%, 0!M, %, !, N&, -0!J, !(-5!&/, !
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8!<3%, 0!(-5!Q, #!0)1%1&3(+!)%1-@1)+, 0!4, (-&!&*!@(%%#!30!&/%*3</!+18, !!

%&)+505-*)4!2+?.)05- *!

! . /, !15, (!*8!(!4 **0, g@(4)B!43@/!+1Q, !&/, !@* -@,)&!*8!(!/3-&, %g<(&/, %, %B!10!(!

410- *4, %!6, *)+, !+1J1-<!&/, !+(-5g" (0, 5!+18, 0&#+, !515!4 *%,

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= **0, !1-!*%5, %!&*!/, +)!&/, 4!+**0, -!&/, !0344, %!J, +J, &!8%*4!&/, 1%!(-&+, %0!(-5!

)%,)(% , !8*%! " (&&+, !!V, !3-5, %0&(-5!&/, !)/%(0, !R!Q14 *M(-1/QR&MSM!h&/, #!(%, !

% (1-4 (Q1-<!&*!())+#!0), @181@(+#!&*!4 **0, !(&!&/(&!&14, !*8!#, (%!P*444*-!>-<+!0/!

&/1-Q1-<!@(--*&!<% (0)!&/, !@*-@,)&!*8!(-14 (+0!/(J1-<!&/, !)*M, %!&*!4 (Q, !1&!%(1-!(-5!&!

M*3+5!&#)1@(+#!", !5104100, 5!(0!@*1-@15, -@, !*%!M*%0, B!03), %0&1&1*-!W3&!43@/!*8!

&/, 0, !-R/1#(M!Q10Q1/&(4 *M1-(!hP%, , !Q-*M+, 5<, 0i![#, 0!Q-*M+, 5<, !10!)+3%(+!T, 5!1-!

-R/1#(MRM1-!M/, -!%, 8, %%1-<!&*!4 **%, !&/(-!*-, !&#), !*8!Q-*M+, 5<, \!0&, 4!8%*4!5%, (40!

(-5!0&*%1, 0!&/(&!/(J, !", , -!/(-5, 5!5 *M-!@*3-&+, 00!<, -, %(&1*-0!(-5!" (0, 5!*-!J, %#!

1-&14 (&, !%, +(&1*-0/1)0!M1&/!+(-5!(-5!(-14 (+0!

! = **0, g@ (4)0!M, %, !8(41+#!, N@3%01*-0!1-&*!&/, !" (@Q@*3-8%#!(&!&14, !M/, -!

&/, %, !M, %, !8, M!%*(50!(-5!&/, !)(@Q!&% (1+!, &M*%Q0!M, %, !0&1++1-&(@&!\$!+(<%, !" (0, !

@(4)!M(0!0, &!3)!M1&/!0, J, % (+!04 *Q1-<!%(@Q0!(-5!(0!<(4, !M(0!/(3+, 5!&*!" (0, !@(4)B!

&/, !M*4, -!(-5!@/1+5%, -!)%*@, 00, 5!&/, !< **50!1-&*!5%#4, (&B!/15, 0B!%*), 0!(-5!, J, -!

&*+0! . /, !4, -!M*3+5!0)+1&13)!(-5!/, (5!*3&!&*!&%(@Q!(-5!0&(+Q!<(4, !(-5!%, &3%-!M1&/!

8%, 0/!Q1+0!\$0!Q150!M, !M, %, !, N), @&, 5!&*!/, +)!M1&/!, J, %#&/1-<!(-5!*"0, %J, !(-5!

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("0*+3&, !(&&, -&1*-!M1&/!(+!*8!*3!0, -0, 0!(-5!1-&3!&1*-0i!(-5!(/Q(4R4*. 3(0)2(0)0. 34TJETQ. 24

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, +5, %0!!
! =*0&!(53+&0!1-!&/, !@* 4 4 3-1&#!M, %, !<, -, %(+10&0!1-!&/, 1%!-R/1#(M!Q- *M+, 5<, !
" 3&!4(-#!M, %, !Q- *M-!&*!0), @1(+!T, !1-!@, %&(1-!+18, !0Q1+0!\$0!03@/!&/, %, !M, %, !&%(@Q1-<!
4, -&*%0!(-14(+!" / (J1*%!4, -&*%0!5%3 4g4 (Q1-<!4, -&*%0!, : 3, 0&%1(-!4, -&*%0!
/15, g&(-1-!<!4, -&*%0!, J, -!4, -&*%0!8*%!4 *%, !4 *5, %-!0Q1+0!+!Q, !@(-1-!<(-5!0, M1-<!
M1&/!4 (@/1-, 0!D8!(!@/1+5!0/*M, 5!- (&3%(+!<18&0!(-5!1-&, %, 0&0!1-!(!0), @181@!(%, (!&/, !
, +5, %0!0* 4, &14, 0!-3%&3%, 5!(-5!, -@*3%(<, 5!&/10!5, J, +*) 4, -&!. /10!" 31+&!/!, !@/1+5!0!
@*-815, -@, !(-5!/+, 5!&/, 4!&*!83%&/, %!8*%4!&/, 1%!15, -&1&#!!. /, !Q1/&1#S#(Q!h, +5, %0i!
M, %, !) (%&1@3+(%+#!8*-5!*8!#*3&/!M/*!, N/1"1&, 5!&/, !: 3(+!&1, 0!*8!Q(Q(#1MS&10*M1-!(!
@*-@,)&!&/(&!5, 0@%1", 0!(-!h, (<, %-, 00!&/(&!10!(+M(#0!%, (5#!8*%!(@&1*-!(-5!0, %J1@, j!(!
M1+1-<-, 00!&*!/+,)!M1&/*3&!" , 1-<!(0Q, 5!&*!iGG!D-!4#18(41+#!!(++*8!4#13-@+, 0!
4, -&*%, 5!4, !1-!/3-&1-<!(5!" 30/!+18, !(-5!&/, #!M, %, !- *&!(+M(#0!<, -&+, !" 3&!-!(-#!
) *&, -&1(++#!5(-<, %*30!01&3 (&1*-0!D!M(0!<+(5!&*!Q- *M!&/(&#!", @ (30, !*8!&/, 1%!03%J1J(+!
0Q1+0!&/, #!M, %, !&/, !*- , 0!M/*!/(5!4#!!" (@Q!W, 8*%, !4#!<, -, %(&1*-!0* 4, !#*3&/!41</&
, J, -!<, &!0, +, @&, 5!(0!*0QS)RM(Q!*%!h@, %, 4*-1(+!())%, -&1@, 0il!. /10!&%(51&1*-!M(0!

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e30&!3)!&*!&/,!) (% , -&0!(-5!<%(-5) (% , -&0!\$&!&/, !0(4, !&14, !1&!M(0!@+, (%+#!3-5, %0&* *5!
&/ (&!@/1+5%, -!M1+!(%1J, !(&!&/, 1!*M-!"1<!)1@&3%, !3-5, %0&(-51-<!*8!&/, !M*%+5!(-5!
&/, 1%!%, +(&1* -0/1)!&*!(+!&/1-<0!1-!53, !&14, !!

! \$015, !8%* 4!&/, !&* 3</!+*J, !(-5!&/, !1-, J1&("+, !/(%0/!%, (+1&1, 0!*8!<%*M1-<!3)!
(%* 3-5!(+@*/+104!(-5!1-&, %<, -, %(&1* - (+!&%(34 (B!4#!@/1+5/**5!53%1-<!&/, !+(0&15(#0!
*8!(!03" 010&, -@, !+18, 0&#+, !1-!&/, !" *%, (+!8**&/1+0!(-5!8**%, 0&0!*8!' *%&/, (0&, %-!WPB!M, %, !
8!+, 5!M1&/!(5J, -&3%, !(-5!+, 00* -0!&/ (&!0&1+!<315, !4, !&*!&/10!5(#!\$&!&/, !&14, !D!515!- *&!
Q- *M!&/ (&!&/10!M(0!(/*+10&1@!M(#!*8!+18, !" , @ (30, !1&!M(0!@* 4)+, &, #!- *%4 (+1T, 5!A(5!
4#!#* 3-<, %!41-5!3-5, %0&* *5!4 *%, B!D!5* -i&!&/1-Q!D!M* 3+5!/(J, !&(Q, -!&/, !+18, 0&#+, !8*%!
<%(-&, 5!!!

! . /, !03" 010&, -@, !M(#!*8!+18, !M/, %, !M, !8**+*M, 5!&/, !0, (0* - (+!* 3-50!(-5!
@#@+, 0!*8!&/, !+(-5!+(0&, 5!%1</&!3-&1+!&/, !G_]F0!M/, -!Q, #!, +5, %0!" , <(-!* *51, !*88!*%!<* &!
&* *!+5!&*!" , !(@&1J, !* -!&/, !+(-5!2* 4, /*MB!1&!@*g, N10&, 5!M1&/!&/, !4 *5, %-104!&/ (&!
0+*M+#!@%,)&!1-&*! *3%!* -@, !10*+(&, 5

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H-&')4!>. 9--45*6!

!! >J, -!&/ *3</!4#!<%(-5) (% , -&0!M, % , !- * &!8*%4 (++#!, 53@(&, 5!(-5!0) *Q, !(+4 *0&!

-*!>-<+10/![4 *0k4!0) *Q, !0* 4, !"*%*Q, -!>-<+10/\B!&/, #!0(M!&/, !J(+3, !*8!(!8*%4 (+!

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510@*J, %, 5!/ *M!&*!4 (Q, !), *)+, !+(3</!(-5!+, (%-, 5!&*!, -e*#!0) *%&0!!\$@(5, 4!@(+##!1&!
M(0!&/, !%, (51-<!(-5!M%1&1-<!(*-<!M1&/!4#!0*!@1(+!-, , 5!&*!" , +*-<!&/(&!<*&!4, !
&/%*3</!M/, -!(+!4#!*+5!@+(004 (&, 0!8%* 4!&/, !%, 0, %J, 0!M, %, !5%*))1-<!*3&! . /, #!+*0!
1-&, %, 0&!(-5!8, +&!*3&!*8!)+(@, !0*!4 (-#!+, 8&!0@/**+0!(0!0**-(0!&/, #!M, %, !*+5!, -*3</!&*!
e*1-!&/, !M*%Q8*%@, !!!

! V/, -!D!M(0!1-!03-1*%!A1</!2@/**+!1&!M(0!- *&!3-@* 4 4 * -!&*!, N), %1, -@, !"+(&(-&!
%(@!04!8%* 4!1-5!J153(+0!" 3&!*3%!41-50!M, %, !&*#!#*3-<!&*!%, @* <-1T, !&/(&!&/, !0@/**+!
0#0&, 4!1&0, +8!%,)%, 0, -&, 5!(!8*%4!*8!1-0&1&3&1* - (+1T, 5!%(@!04!5, 0!<-, 5!0), @!8!@(+##!8*%!
&/, !0&(&30!: 3*!(-5!&/, 1%!4k-1#SM!hV/1&, !*%!V, 0&, %-!M(#0!*8!0, , 1-<!&/, !M*%+5! . /!0!
0#0&, 4!8(1+, 5!4 *0&!*8!&/, 0, !h5%*)g*3&0i!" , @(30, !4 (-#!*8!&/, 4!M, %, !/1</+#!0Q1+, 5!1-!
(%, (0!D!@*3+5!-, J, %!" , !. /, 0, !h5%*)g*3&0i!M, %, !1-&, +1<, -&!1-!M(#0!&/, !0@/**+!0#0&, 4!
0!4)+#!M(0!- *&!("+, !&*!%, @* <-1T, !" , @(30, !0@/**+0!M, %, !8*!30, 5!* -!)%, 0@%1" , 5!
8*%43+(0!(-5!- *&* -!1-5!J153(+0!! . /, !)%(@&!@(+!&/(-50g* -!&/+10&1@!%, +(&1* - (+!&
1-&, <%(&, 5!(-5!- * -g%, <14, -&, 5!M(#0!*8!+, (%-1-<!M, !<%, M!3)!M1&/!M, %, !+(&<, +#!
%,)+(@, 5!M1&/!&/, !%1<15! - (%%*M! (3&/ *%1&(%1(-!14), %0* - (+! ("0&%(@&!1-8+, N1" +, !(-5!
/1, %(@%/1@(+!0&%3&3%, 0!*8!&/, !) 3" +!@!0@/**+!0#0&, 4!?!3%!/*+10&1@!M(#0!*8!0, , 1-<!&/, !
M*%+5!(-5!Q- *M1-<!*3%!)+(@, !1-!1&! *3%!&S)101- *M1-!(-5!*3%!+(-<3(<, !" , <(-!&*!<, &!
4(%<1- (+1T, 5!)

%9#!, -' ' ?*50\$!7-: !

! . *5(#!M/1+, !4#!@* 4 4 3-1&#!() , (%0!4 (&, %1(+#!" , &&, %!*88!1&!%, 8+, @&0!* -+#!(!
0/(5*M!*8!1&0!8*%4, %!@3+&3%(+!%1@/-, 00!P/1+5%, -!#* 3&/!(-5!#* 3-<!8(4!1+, 0!5*!- *&!
0), (Q!-R/1#(MRM1-! . /, !4 *0&!Q- *M+, 5<, ("+, !&% (51&1* - (+!, +5, %0!+1Q, !4#!

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<%(-5)(%, -&O!(-5!4(-#!*&/, %!, +5, %O!M/*!+1J, 5!*88!&/, !+(-5!(%, !- *M!<* -, !8%* 4!&/, !

, (%&/!b, -, %(+#!* -+#!), *)+, !1-!&/, 1%!818&1, O!(%, !+1Q, +#!&*!" , !@* -015, %, 5!&*!" , !8+3, -&!

M/1+, !(!/(-583+!-!&/, 1%!8*%&1, O!(%, !0, 41g8+3, -&! = *O&!*8!*3%!) *) 3+(&1* -!5* , O!- *&!

0), (Q!*%!3-5, %O&(-5!&/, !+(-<3(<, !!7*%!4 *O&B!<* -, !M1&/!&/, !+(-<3(<, !(%, !&/, !O&*%1, O!B!

@, %, 4* -1, O!(-5!&, (@/1-<O!&/(&!" *3-5!1!(!+!&* <, &/, %!(-5!)%* J15, 5!(!0, -0, !*8!

@* 4 4 3-1&#B! /10&*%#!(-5!" , +* -<1-<! . /, !O&%* -<!@* -- , @&1* -!&*!&/, !+(-5!(-5!0)1%1&!

%, (+4!/ (O!" , , -!M, (Q, -, 5!D-!&/, !-, M!, %(!*8!4 (00!4, 51(!(-5!<+*" (+!, @* - * 41@0B!

>-<+10!/ (O!" , @* 4, !&/, !+(-<3(<, !*8!) *M, %!- *&!e30&!1-!P(- (5(!" 3&!(+0*!&/%*3</ *3&!

&/, !M*%+5! . /, %, 8*%, B!4 k-1#SM!4S41&* -1/@1Q(-RM1-!hV, 0&, %-*%!V/1&, !&/1-Q1-<i!(O!

&/, !, +5, %O!@(+!1&B! / (O!" , @* 4, !J, %#!5* 41- (-&!- *&!e30&!1-!4#!@* 4 4 3-1&#!" 3&!1-!4 *O&!

-R/1#(M!@* 4 4 3-1&1, O!. /10!10!0&1+!&/, !@* 4 4 * -!0, -&14, -&!(4* -<!*3%!8, M!%, 4 (1-1-<!

8+3, -&!, +5, %O!GH!V, !(%, !1-!5(-<, %!- *&!* -+#!*8!+*01-<!*3%!(+(-<3(<, !" 3&!(+0* B!1-!&/, !

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@* 48*%&("+, !8(41+1(%1&#!M1&!&/, !*+5!&, (@/1-<0!41</&!"" !("+, !&*!%, 4, 4", %!

@, %, 4* -1(+!&, %40! /3-&1-<!&, %40!+(-5g30, !&, %40!*%!*&/, %!M*%50!&/ (&! (%, !8(++1-<!* 3&!

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(!M/*+, B!01-@, !1&!10!&/, !51(+, @&!D!M(O!" *%-!1-&*!(-5!1&iO!(!51(+, @&!&/ (&!10!
 3-5, %,)%, 0, -&, 5!1-!(@ (5, 41@!@1%@+, 0!V/, -!D!%, 8, %!&*!>(O&, %-!51(+, @&O!D!M1+!
 <, -, % (##!30, !&/, !M*%5!P%, , !*%!M/ (&, J, %!&, %4!&/, !), *)+, !30, !&*!5, 0@%1" , !
 &/, 40, +J, 0! . /, !*&/, %!&/1-<!&*!%, 4, 4" , %!(" *3&!-R/1#(MRM1-!M%1&1-<!301-<!29?!10!
 &/ (&!M, !5*!- *&!30, !@()1&(+, &&, %0!7*%!&/, !0(Q, !*8!(, 0&/, &1@0!(-5!8*%4 (&&1-<!D!(4!
 @*4)%*4101-<!(-5!(+*M1-<!&/, !30, !*8!@()1&(+, &&, %0!* -!-R/1#(MRM1-!M*%50!M/, -U!

- . /, #!(%, !(&!&/, !0&(%&!*8!(10, -&, -@, !
- . /, #!(%, !30, 5!1-!(!/, (51-<!*%!03" /, (51-<!

D!" , +1, J, !&/ (&!&/10!0/*3+5!(+0*!4(Q, !8*%!, (01, %!%, (5("1+1&#!01-@, !4(-#!-R/1#(MRM1-!
 &, %40!(%, !+* -<!(-5!@(-!+*Q!0141+(!&*!-, M!%, (5, %0!\$+0*B!01-@, !>-<+10!/!(0!" , -!0*!
 5*41-, , %1-<!(-5!30, 5!"#!@*+* -1(+<*J, %-4, -&0!&*!/ , +)!5141-10!/&/, !30, !*8!
 -R/1#(MRM1-B!D!/(J, !5, @15, 5!&*!- *&!1&(+!@1T, !*%!&%, (&!-R/1#(MRM1-!&, %40!(0!0, @* -5(%#!
 , -&%1, 0!(-5!/!(J, !1-0&, (5!)+(@, 5!&/, !>-<+10!/!&(-0+(&1* -0!M1&/1-!h01-<+, !"%(@Q, &0!
 (&&, %!, (@/!1-&%*53@, 5!-R/1#(MRM1-!M*%5!!

! . /, !M*%5!-R/1#(MRM1-!1&0, +8!10!(!@* -@,)&!D!0&%3<<+, 5!M1&/!301-<!1-!M%1&&, -!
 8*%4 (&!V/1+, !D!30, !1&!1-!&/10!&/, 0!0!&*!4, (-!&/, !P%, , !+(-<3(<, !*%!&/, !+(-<3(<, !*8!&/, !
 -R/1#(M!), *)+, B!1&!/ (0!"*% (5, %!@* - *&(&1* -0! . /, !&, %4!-R/1#(MRM1-!@(-!(+0*!4, (-!
 -R/1#(M!@3+&3%, !*%!h-R/1#(Mg-, 00i!8*%!+(@Q!*8!(!" , &&, %!&, %4! . /10!0&, 40!8*%4!(!
 -R/1#(M!) (%(5!<4!M/, %, !&/, !1-&, %@* --, @&1* -!" , &M, , -!+(-<3(<, !(-5!@3+&3%, !10!
)%, J(+, -&!(-5!144, 51(&, !D-!*3%!-R/1#(M!M(#!*8!&/1-Q1-<!&/, %, !10!- *!0,) (%&1* -!
 " , &M, , -!+(-<3(<, !(-5!@3+&3%, ! . /, %, 8*%, B!M/, -!M%1&1-<!*3&!&/, !&, %4!D!/(5!&*!
 0,) (%&, !1&!1-!4#!41-5!(-5!%, 4, 4" , %!&/ (&!D!M(O!301-<!1&!&*!%, 8, %!&*!&/, !+(-<3(<, !(-5!
 - *&!&/, !@3+&3%, ! . /10!10!- *&!0*4, &/1-<!&/ (&!@*4, 0!- (&3% (##!8*%!4, !D!5*3" &!&/ (&!&iO!

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0*4, &/1-<!&/(&!@*4, 0!-(&3%(+#!8*%!(-#* - , !M/*!M(0!%(10, 5!M1&/!-R/1#(MRM1-!(0!(
81%0&!+(-<3(<, !!23"0, : 3, -&!@/()&, %0!M1+!, N)+*%, !/*+10&1@!@* -@,)&0!83%&/, %!

! D-!&/10!&/, 010!M1&/!03@/!(!"1<!, 4)/(010!* -!-R/1#(MRM1-!&, %40!(-5!&/, 1!

4, (-1-<0!D!(4!, 00, -&1(+#!M%1&1-<!(@%*00!@3+&3%, 0!(-5!1-J1&1-<!%, (5, %0!* -!(!@%*00g

@3+&3%(+!e*3%-, #!D&!10!(!<1J, -!&/(&!(-#* - , !1-&, % 0&, 5!1-!3-5, %0&(-51-<!-R/1#(MRM1-!

+(-<3(<, !M*3+5!" , !M1+1-<!&*) 3&!, N&%(!, 88*%&!1-&*!8*++M1-<!&/, !30, !*8!&/, !4 (-#!

&, %40!1-&%*53@, 5!0*!0, @&1* -0!*8!&/, !&/, 010!4 (#!- *&!" , !031&, 5!&*(!) (001J, !%, (51-<!

0&#+, !!21-@, !4 (-#!-R/1#(MRM1-!&, %40!4 (#!" , !51881@3+&!&*!%, (5![%, 4, 4" , %!4 (-#!

M*%50!(%, !+* -<(-5!+**Q!&/, !0(4, !&*!&/, !3-1-1&1(&, 5!, #, \!(!<+*00(%#!*8!&, %40!M1&/!

>-<+10/!&%(-0+(&1*-0!10!)*%J15, 5!(0!(-!()), -51N!

%#&' (!)*+!, -*. #/0(!) (!A5&&-&(!

! ?3%!*), -1-<!0&*%#!- *&!* -+#!5, 0@%1" , 5!4#!@/1+5/**5!1-!(!-R/1#(M!@*443-1&#!

"3&!(+0*!)*%J15, 5!(!" (@Q5%*)!&*!1-&%*53@, !0*4, !-R/1#(M!J(+3, 0!@* -@,)&0!@30&*40!&

(-5!" , +1, 80!&/(&!0&, 4!8%*4!-R/1#(M!&S)101-*M1-!2*4, !*8!&/, 0, !@* -@,)&0!(%, !+1Q, !

+1&&+, !41%*%0!&/(&!%, J, (+!<+14)0, 0!" (@Q!&*!-R/1#(M!&S)101-*M1-!!. /, !0&*%#!)*%J15, 0!(

@* -&, N&!0*!&/(&!@* -@,)&0!@(-!" , !3-5, %0&*%5!4*%, !, (01+#!!. /, !-R/1#(M!@* -@,)&0!*8!

4(4(/&SM10*M1-!-SQ(&*/QRM1-!4k01/&SM1-!(-5!Q(Q(#1MS&10*M1-!(%, !"%1, 8+#!

, N)+(1-, 5!(+* -<!M1&/!5, 0@%1) &1* -0!*8!(-14 (@#!J(+3, 0!(-5!@* --, @&1* -!&*!+(-5!

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/(J, !+, (%-, 5!&*!(5()&!&*!M, 0&, %-!@*<-1&1J, !8%(4, M*%Q0B!4(-#!*8!30!(%, !0/(), 5!(-5!
<315, 5!"#!*3%!-R/1#(M!M(#0!*8!&/1-Q1-<!(5!" , 1-<!\$0!-R/1#(M(QB!M, !<, -, %(+#!/ (J, !
*3%!*M-!M(#0!*8!+, (%-1-<B!*8!(@: 31%1-<!(5!)%*@, 001-<!1-8*%4 (&1* -L!
! D-!4#!#*3&/B!&/, !%*+, !*8!&/, !-, (%"#!)3"+1@!0@/**+0!M, !(&&, -5, 5!M(0!&*!4*+5!
30!&*!031&!&/, !0#0&, 4!(-5!&*!3-5, %41-, !*3!" , +1, 8!0#0&, 40B!(+" , 1&M1&!/(!4*%, !03"&+, !
&*-, !&/(-!%, 015, -&1(+!0@/**+0!. /, !4(e*%1&#!*8!&/, !)3"+1@!0#0&, 4!0, , 4, 5!"(0, 5!*-!
("0&%(@&!@* -@,)&0B!1-51J153(+104B!@*4)(%&4, -&(+1T(&1* -!(-5!8%(<4, -&, 5!J1, M0!(-5!
1-8*%4 (&1* -!D&!10! - *!M* -5, %!&/ (&!4(-#!8*4!4#!@*443-1&#!0&%3<<+, 5!&*!81&!1-&*!&/, !
, 53@(&1* -!0#0&, 4!D-!%, &%*0), @&!&/, %, !M(0!-*&/1-<!hM%*-<!M1&!30!(0!M, !M, %, !+, 5!&*!

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(%, !@* -015, %, 5!, N), %&0!1-!&/, !81, +5B!@(-!" , !(-!1-&1415 (&1-<!&(0Q!V / (&!D!, 6-15*!10!

)%*J15, !(-!*J, %J1, M!*8!M / (&!M(0!0&(&, 5B!M / (&!M(0!M%1&&, -B!(-5!0*4, !&%(-0+(&1* -0B!

(- (#010!(-5!0#-&/, 010!M1&/!4#!*M-!, N), %1, -@, !(-5!*""0, %J(&1* -0!

L&6) *5Q)05- *!

! . *!)%*J15, !(!"%1, 8!5, 0@%1)&1* -!(-5!*3&+1-, !*8!&/10!5* @34, -&B!@/()&, %!&M*!

%,)%, 0, -&0!(!%, J1, M!*8!, N10&1-<!+!&, %(&3%, !), %&(1-1-<!&*!-R/1#(M!&S)101- *M1-!(-5!

@*04 *+* <#!D&!1-@+35, 0!*""0, %J(&1* -0!* -!" (01@!0&%3@&3%(+!(-<3(<, !5188, %, -@, 0!&/ (&!

+, (5!&*!&/, !1- ("1+!&1, 0!*8!0&(-5(%5!P%, , !51@&1* -(%1, 0!(-5!*&/, %!+(-<3(<, !%, 0*3%@, 0!&*!

83++#!&%(-0+(&, !-R/1#(M!&, %40!(-5!@* -@,)&0! /, 0, !0/*%&@*41-<0!(-5!) *001"+, !

0*+3&1* -0!(%, !, N)+*%, 5!83%&/, %!1-!@/()&, %!8*3%!M/, %, !D!%, J1, M!&/, !%, 03+&0!*8!&/, !81, +5!

1-&, %J1, M0!P/()&, %!&/%, , !)%*J15, 0!(-!*J, %J1, M!*8!&/, !%, 0, (%@/!4, &/ *5*+* <#!(-5!

(- (#010!*8!&/, !%, 0, (%@/!)%* @, 00!\$0!5, 0@%1", 5!(" *J, B!@/()&, %!8*3%!)%*J15, 0!(-!

*J, %J1, M!*8!%, 03+&0!(-5!(+*M0!(!<+14)0, !1-&*!&/, !&/1-Q1-<(-5!*""0, %J(&1* -0!*8!

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: 3*&(&1*-0!(-5!, N@, %)&0!8%* 4!*&/, %!51(+, @&0!D!/(J, !M%1&&, -!4 *0&+#!

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!! . /, !&/, 010!%, J, (+0!&/, 4, 0!%, +(&, 5!&*!@*04*+* <#B!@, %, 4* -#B!@30&*40!(-5!
 0)1%1&3(+!" , +1, 80!W#!15, -&18#1-<!&, %40!5, 0@%1"1-<!-R/1#(M!J(+3, 0!(-5!)%1-@1)+, 0!&/, !
 %, 0, (%@/!%, J, (+0!<+14)0, 0!1-&*!&% (51&1* - (+!-R/1#(M!) /1+*0*) /#!(-5!&, (@/1-<0!W#!
 15, -&18#1-<!Q, #!M*%50!(-5!&/, 1%!+1&, %(+!(-5!81<3%(&1J, !4, (-1-<0B!&/10!0&35#!1-J1&, 0!(!
 5, , ,)% , %!()% , @1(&1* -!*8!-R/1#(M!&S)101-*M1-!(-5!)%* J15, 0!0*4, !15, (0!8*%!&/, !83&3%, !
 5, J, +*)4, -&!*8!-R/1#(MRM1-!+(-<3(<, !%, 0*3%@, 0!&/ (&(@@3%(&, +#!@)&3%, !-R/1#(M!

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8*%!&/, !EG0!@, -&3%#!(-5!0), @181@(+#!&*!"%(1-0&*%4!1003, 0!(%*3-5!@%*00g@3+&3%(+!

"*%%*M1-<(-5!3)5(&1-<!&% (51&1* -0!1-!(!@* -0@1*30!4 (-, %, !

! ; , 0)1&, !&/, !@/(+, -, 0!*8!+(-<3(<, !%, &, -&1* -!+(-<3(<, !(@: 3!0!&1* -!(-5!

%, J1&(1T(&1* -!, 88*%&0!1-!<, -, %(+!&/, %, !10!<%, (&!@* 4-8*%&!1-!Q- *M1-<!&/(&!(+!+, J, +0!*8!

0), (Q, %0!@(-!%, 510@*J, %!1-0!</&0!1- &*!-R/1#(M!&S)101- *M1-!18!&/, #!Q- *M!M/1@/!5* *%0!

&*!*), -!l. /, %, !10!<%*3-5M*%Q!&*!" , !5* -, !" 3&!&/, %, !10!/)* , !1-!Q- *M1-<!&/(&!+, (%-, %0!

*8!(+!(<, 0!(-5!+, J, +0!@(-!510@*J, %!&/, !4, (-1-<0!*8!-R/1#(M!@* -@,)&0!M/1+, !

0143+&(-, *30+#!+, (%-1-<!&/, !+(-<3(<, !&*!M/(&, J, %!5, <%, , !&/, #!(%, !@()) ("+, !*8!*%!

@* 4-8*%&("+, !M1&/!lD-!&/10!0, -0, !M, !(+!/(J, !(@@, 00!&*!-R/1#(M!&S)101- *M1-!l

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, I CJ%2K!%< LE!C!7895\$): !%; /5(5* -: 5*!F50#&)0?&#!K#=5#: !

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P*-53@&1-<!(!+1&, %(&3%, !%, J1, M!* -!D-51<, -*30!Q-*M+, 5<, !14)+1, 0!&/(&!>3%*@, -&%1!%, 0, (%@/!@(-!%, J, (+(-!3-5, %0&(-51-<!*8!D-51<, -*30!Q-*M+, 5<, !! . /, !)%*" +, 4!

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M1&/1-!&/, !>-<+10/!+(-<3(<, !0&%3&3%, !&/(&!4 *0&!51&1* - (%1, 0!(%, !" (0, 5!* -!V/, &/, %!
 "#!M%1&, %!5, 0!<-!*%!* -!<315(-@, !8%* 4!@* -&%!" 3&1-<!>+5, %0![4(-#!*8!M/* 4!M, %, !
)%(@&1@1-<!*%8*%4, %!P(&/ *+1@0\B!4(-#!Q, #!0(@%, 5!&, %40!%, +(&, 5!&*!-R/1#(M!
 &S)101-*M1-!(-5!@*04 *+* <#!(%, !, !&/, %!41001-<!*%!410%,)%, 0, -&, 5!&/%*3</!*J, %+#!
 0!4)+!81, 5!*%!P/%10&1(-!1-8+3, -@, 5!&%(-0+(&1* -0!7*%! , N(4)+, !1-!&/, !>-<+10/!&*!P%, , !
 0, @&1* -!&/, !M*%5!h03), %0&1&1* -i!10!&%(-0+(&, 5!(0!4(4(/&SM!QRQM(#!QS!&S)M1/&(41/QB!
 M/1@/!+!&, %(+#!4, (-0!hM/, -!0* 4, " *5#!" , +1, J, 0!1-!&/, !03), %- (&3%(+) *M, %0i!V/(&!
 &/!0!5, 81-1&1* -!%, (+#!%, 8, %0!&*!10!&/, !-R/1#(M!" , +1, 8!0#0&, 4!21-@, !4(4(/&SM!QRQM(#!
 h0* 4, &/1-<!14" 3, 5!M1&/!0(@%, 5!0)1%1&!)*M, %i!10!@* -015, %, 5!&*!" , !5, ,)+#!0(@%, 5!(-5!
 @, -&%(+!&*!&/, !-R/1#(M!" , +1, 8!0#0&, 4!&/!0!1-&, %)%, &(&1* -!14)+1, 0!&/(&!&/ *0, !M/*!
 " , +1, J, !1-!&%(51&1* - (+!-R/1#(M!@*04 *+* <#!(-5!&%(51&1* - (+!@, %, 4* -1(+!)(@&1@, 0!(%, !
 03), %0&1&1* 30! . /!0!4 30&!/(J, !+, 5!&*!0* 4, !1-&, %, 0&1-<!15, *+* <1@(+!510@3001* -0!(4* -<!
 &/, !-R/1#(M!@* -&%!" 3&*%0!D-!, N)+(1-1-<!&/, !e*1-&! , 88*%&0!*8!\$+" , %&(!, +5, %0!1-!0*%&1-<!
 &/%*3</!&%(-0+(&1* -0!*8!%, +1<1*30!@* -@,)&0B!* - , !*8!&/, !@* -&%!" 3&*%0!>(%+, !V(3</!
 [EFG\!5, 0@%!" , 0U!

√1&10** -!" , @ (4, !()) (% , -&!&/ (&!&/, !/10&%*#!*8!>3%*) , (-!%, +1<1* -!&/, !
 1-&, <%(&1J, !14) 3+0, 0!*8!P/%10&1(-!&#!(-5!&/, !)*+1&1@(+!0!&3(&1* -!*8!(" *%1<1- (+!
 @3+&3%, !1-!P(- (5(!/(5!)+(#, 5!(-5!M(0!)+(#1-<!(!%*+, !1-!&/, !1-&, %)%, &(&1* -!*8!
 M*%50B!, J, -!(4* -<!&/, !P%, , !!V/(&!/(5!&*!" , !5* -, !M(0!(!5, +!@(&, !" (+(-@1-<!
 (@&!" , &M, , -!&/, !%, +1<1*30!1-&, %, 0&0!*8!%)%, g@* -&(@&!P%, , B!1-0*8(!0!&/, #!@* 3+5!
 " , !Q-*M-B!(-5!&/, !*J, %M/, +41-<!5* 41- (-@, !*8!P/%10&1(-!3-5, %0&(-51-<!!)!
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√/1+, !51&1* - (%1, 0!+1Q, !&/!0!81+!4 3@/g-, , 5, 5!<()0!(-5!(15!1-!&/, !)*%@, 00!*8!

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-R/1#(M! *''0, %J(-@, 0! = *0&!)%(@&1&1* -, %0! M*3+5! (<%, , !&/(&! @* -&, N&! 10! , 00, -&1(+! &*!
 3-5, %0&(-51-<!&%(-0+(&1* -!8%* 4!-R/1#(MRM1-!&*!>-<+10/!" 3&!* -, !*8!&/, !(%<34, -&0!*8!
 &/10! &/, 010! 10! &/(&! ""*(5, %! @* -&, N&3(+! 1-8*%4 (&1* -!%, +(&, 5! &*! 0(@%, 5! -R/1#(MRM1-!
 @* -@,)&0! -, , 50!&*!" , !5*@34, -&, 5! (-5! 4(5, !(@@, 001"+, !&*!(+!+, (%-, %0!1-@+351-<!&*!

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! Z^
, J, %#!@* -&, N&!M1+!" , : 3, (&/!(!@, %%&(1-!4, (-1-<!&*!&/, !30, !*8!4 (-1&*EG√1&!@(-!/ (J, !- *!
15, -&181("+, !4, (-1-<!0&(-51-<!(+*- , B!M1&/ * 3&!0* 4, !Q1-5!*8!@* -&, N&p![EFFG&!)!!HYZ\!
A, !83%&/, %!(550!&/ (&!M/1+, !- *!* -&*+* <1@(+!" , 1-<!%,)%, 0, -&0!4 (-1&*M&!/ , !M*%5!10!0&1+!
30, 5!1-!-R/1#(M!%, +1<1* 30!510@* 3%0, !(-5!(881%40!(!03), %1*%!: 3(+1&#!(-5!" , (3&#!1-!&/, !
3-1J, %0, ![])!!HYH\!V (3</i0!*""0, %J(&1* -0!* -!&/10!@* -@,)&!(%, !@* -010&, -&!M1&/!&/, !8(@&!
&/ (&!4 (-#!-R/1#(MRM1-!M*%50!@/(-<, !4, (-1-<!* -!(!@* -&, N&3(+!" (010B!(-5!&/ (&!4 (-#!

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. /, !M*%5!n-, /1#(Mp!@(-!" , !"*%*Q, -!5*M-!1-&*!1&0!0*3-5!@*4) * -, -&0!&*!81-5!
 %*%&!M*%50!n' RM*p!4, (-0!n8*3%p!(-5!ns1#(Mp!*%!n4!1#(Mp!4, (-0!n"*5#p!
 . /(&!4, (-0!n6, *)+, !*8!&/, !8*3%!!"*5#p!7*3%!10!(!4, &())/*%!*8!&%, 4, -5*30!
 0(@%, 5!01<-181@(-@, v; *, 0!&/(&!(+0*!4, (-!n8*3%!514, -01*-0p!*%!), %/())0!n8*3%!
 5*4(1-0p![G__E!])!Z\!

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2*4, !+(-<3(<, !)%(@&1&1*- , %0!03@/!(0!9, 3" , -!` 31--!1-&, %)%, &!&/, !@*-@,)&!*8!h8*3%!

"*5#i!&*!4, (-!&/, !)/#0!@(+!0)1%1&3(+!4, -&(+!(-5!, 4 * &1* - (+!(0), @&0!*8!/34(-0!)

M/1@/!81&0!-1@, +#!M1&/!&/, !-R/1#(M!)/1+*0*)/1@(+!, 4)/(0!0!*-!&/, !14)*%&(-@, !*8!

/+10&1@!" (+(-@, !(-5!*-!&/, !0(@%, 5!01<-181@(-@, !*8!&/, !-34" , %!8*3%! [9!>` 31--!)

, %0* - (+!@* 4 4 3-1@(&1* -! = (#!E^&/!EFGH\!V1&/!(+!*8!&/, 0, !)*001"+, !&%(-0+(&1*-0!*8!

&/10!*-, !&, %4!&*- , !@(-!0, , !&/, !51881@3+&1, 0!&/(&!&/, !5, J, +*), %0!*8!51@&1* - (%1, 0!(-5!

*&/, %!+(-<3(<, !%, 0*3%@, 0!4 30&8(@, !1-!&/, 1%!M*%Q!!

D-!(- * &/, %!, N(4)+, !&!, !@*-@,)&!*QSMR4SM(0Q1#!M/1@/!&%(-0+(&, 0!&*!h4 * &/, %!

, (%&/i!10!" , +1, J, 5!"#!4 * 0&!*%1<1- (+!0), (Q, %0!&*!- * &!" , !(!) (%&!*8!&/, !&%(51&1* - (+!

-R/1#(MRM1-J*@"3+(%#!D&!10!@, %&(1-+#!- * &!(!&, %4!&/(&!M(0!30, 5!1-!4#!@* 4 4 3-1&#!*%!

1-!-, 1</"*3%1-<!-R/1#(M!@* 4 4 3-1&1, 0! . /, %, !(%, !8+3, -&!, +5, %0!(-5!0), (Q, %0!M/*!

M*3+5!(%<3, !&/(&!*QSMR4SM(0Q1#!&/, !@*4)*3-51-<!*8!*QSMR4SM!4, (-1-<!

h4 * &/, %i!(-5!(0Q1#!&/, !M*%5!8*%h, (%&/!i*%h+(-5i!10!(!@* -&, 4)*%(%#!@*-@,)&!

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14 4 , 51(& , +#!" *% -!*8!&/ , !+(-5!(%, !0, , -(0!(-14 (& , B!D!M*3+5!(%<3, !&/(&!4 (-#!, +5, %0!
5*!0, , !&/, !, (%&/!(0!(!8*%4!*8!0(@%, 5!+!J1-<!, -&1&#!. /, 0, !J1, M0!(%, !*8&, -!%, 8+, @&, 5!1-!
&/, !S&(#*/QRM1-(!h0(@%, 5!0&*%1, 0!B!1-!&/, !&%(51&1* - (+!)%(#, %0B!(-5!1-!&/, !(88, @&1* - (&, !
M(#!&/(&!&/, !+(-5!10!0)*Q, -!*8!"#!, +5, %0!(-5!&%(51&1* - (+10&0! = (-#!-R/1#(M!*%(!
-(%&(&1J, 0!5, 0@%1" , !&/, !+(-50@() , !0!" , 1-<!(+!J, B!(-5!@, %, 4* -1(+!*88, %1-<0!@* -&1-3, !
&*!" , !%, : 31%, 5!8*%!&/, !&(Q1-<!*8!4, 51@1-(+!)+(-&0B!1-@+351-<!* - , 0!- *&!0)*Q, -!*8!1-!

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. /10!M*3+5!" ,!(5(3-&1-<!&(0Q!8*%!(!- *J1@, !+(-<3(<, !+, (%-, %!3-8(41+1(%!M1&/!&/, !

)%*), %!@* -0&%3@&1* -!*8!-R/1#(MRM1-!M*%50!!!

! ' R/1#(MRM1-!10!(!@* -e3<(&, 5!J, %"g/, (J#!+(-<3(<, !(-5!4 (-#!- *3-0!@(- - *&!

, N10&!M1&/ *3&!(!J, %"!@* 4) * -, -&!7*%!, N(4)+, !&/, !M*%5!8*%!(1-!5*, 0!- *&!0&(-5!* -!

1&0!*M-!(0!(!- *3-!" 3&!* -+#!, N10&0!(0!RQ14 *M(-!+1&, %(++#!4, (-1-<B!h1&!10!(1-1-<i! /, !

-R/1#(MRM1-!M*%5!8*%!M1-5!10!#k&1-!4, (-1-<h1&!10!M1-5#!!*%h1&!10!M1-51-<i!P+, (%+#!

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M1&/!>-<+10/!&%(-0+(&1*-0!&/(&!(&%, !n+1&, %(&, bp!&/(&!10!&/, #!81&1-&*!(!+1&, %(&, !
0*!1, &#!1! -8*%&3-(&, +#!8*%!" *&/!&/, !>-<+10/g0), (Q, %!(-5!8*%!&/, !P%, , g0), (Q, %!&
-, 1&/, %!10!%, (+#!!" , -, 81&&1-<!8* 4!&/, !%1@/-, 00!*8!4, (-1-<!&/(&!10!(@&3(+#!
14" , 55, 5!1-!&/, !P%, , !M*%50!(!M* 3+5!" , !&/, !@(!, !18!&/, 0, !M, %, !&*!" , !&*&(+#!
(-5!(@@3%(&, +#!1-&, %)%, &, 5![])GX]!!

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. /10!41</&!(+0*!) (%&+#!, N)+(1-!&/, !%, +3@&(-@, !*8!0* 4, !>+5, %0!&*!, N)+(1-!@* 4)+1@(&, 5!
-R/1#(M!@* -@,)&0!1-@+351-<!&, (@/1-<0!&/(&!(&%, !@* -015, %, 5!0(@%, 5!\$0!18!&/, 0, !
)%*" +, 40!M, %, !- *&!@* 4)+1@(&, 5!, - *3</!@* -015, %!&/, !8(@&!&/(&! (5/, %1-<!&*!8(@, g&*g
8(@, !@, %, 4* -1(+!)%*&*@*+0!10!*8&, -!(-!, -&%#!) *1-&!8*%!(-#!, N@/(-<, !*8!0(@%, 5!
Q- *M+, 5<, !D-!%, 8+, @&1-<!&/, !1-) 3&!*8!4 (-#!-R/1#(M!, +5, %0!&>%41-, !(-5!@*+, (<3, 0!
%, 1-8*%@, !&/, !0, -01&1J, !- (&3%, !*8!0(@%, 5!Q- *M+, 5<, !, N@/(-<, !n2, -01&1J, !1003, 0!(-5!
0(@%, 5!1-8*%4 (&1*-!&/(&!@(- *&!!" , !510@+*0, 5!M* 3+5!M(%%(-&!%3@1(+!(&&, -&1* -!(-5!8*%!
&/, !@(% , 83+!1-&, %)%, &(&1* -!(-5!&%(-0+(&1* -!*8!(-#!1-8*%4 (&1* -!(@@, 00, 5!1-!&/, !
@* 4 43-1&#p![>%41-, !21-@+(1%!d!W%*M-, !EFFX!)!EG\!

D&M1+!(+M(#0!" , !(!@/(+, -<, !&*!(@@3%(&, +#!1-&, %)%, &!-R/1#(M!&/1-Q1-<!1-!

M%1&&, -!8*%4 (&!; * , 0!&/10!4, (-!&/(&!(@ (5, 41@0!1-@+351-<!&% (5!1* - (+10&0!M/*!/() , -!

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14) *%&(-&!\$+<* -: 31-!@* -@,)&B^!(-5!&/, !P%, , !), *)+, !8%, , +#!30, !1&!1-!P/%10&1(-!

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' , +0* -!(&!+, (0&!'' , 8%1, -5, 5!/10!1-8*%4 (-&0!(-5!&*Q!&/, !&14, !&*!+, (%-!&/, !+(-<3(<, 0B!
" 3&!1&!10!5*3" &83+!&/ (&!/, !, J, %!<% (0), 5!-R/1#(M!*%!\$-10/1- (" , !&S)101-*M1-!2&1+!&/, !
M(0!, -+1</&, -, 5!1-!@* 4) (%10* -!&*!4 *0&!*&/, %!, (%+#!>3%*), (-!83%!&% (5, %0!2* 4, !
@, %, 4* -1, 0!@/(-<, !*J, %!&14, !(-5!(5) &!&*!4 *5, %-!%, (+1&1, 0!(-5!1-&, %g&%1" (+!
" *%*M1-<!" 3&!*&/, %!@, %, 4* -1, 0!%, 4 (1

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D-!4 (-#!M(#0!0141+(%!&*!&/, !1-51<, - *30!/*+10&1@!@* -@,) &0!* -!), 5 (<* <#!
)%, 0, -&, 5!" #!P(e, &, ![EFFF\B!-R/1&/ (MEY!0@/*+(%!A, %4 (-!=1@/, ++![EFGZ\!5, 0@%1", 0!
 M(#0!&*!(0010&!, 53@(&*%0!1-!@* 41-<!&*!3-5, %0&(-5!&/, !+(%<, %!/ *+10&1@!8%(4, M*%Q0!*8!
 P%, , !M*%+5J1, M!(-5!&*!3&1+1T, !&/10!Q- *M+, 5<, !1-!&/, 1%!&, (@/1-<!4, &/*5*+* <1, 0!D-!
 , N)+(1-1-<!) (%&!*8!&/10!/*+10&1@!3-5, %0&(-51-<!=1@/, ++!5, 0@%1", 0U!

?3%M(#!*8!+18, !10!1-0,) (%(" +, !8%* 4!*3%!0)1%1&3(+!@, %, 4 * -1, 0B!O&*%1, 0B!O* -<0B!
 5(-@, 0B!5%340B!0#4 " *+0B!(-5!4, &())/*%0B!(+!*8!M/1@/!&(Q, -!&* <, &/, %B!
 %, 1-8*%@, !*3%!P%, , !M*%+5J1, M!>4", 55, 5!M1&/1-!&/, 0, !@3+&3%(+, N)% , 001* -0!
 (% , !@* 4)+, N!&, (@/1-<0B!P%, , !+(MOB!(-5!, &/1@(+!)%1-@1)+, 0!*8!+1J1-<!M1&/!(-5!
 &/%* 3</!&/, !- (&3%(+M*%+5√P%, , !)/1+*0*)/#!%, e, @&0! - * &1* -0!*8!0, <%, <(&1* -B!
 ""e, @&1J1&#B!(+1, - (&1 -B!0,) (%(&1* -B!(-5!(&&1&35, 0!*8!03), %1*%1&#B!(0!(+!/34 (-!
 +18, !10!5,) , -5, -&!* -!" , 1-<!%, +(&, 5!!)!ZE\

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0)1%1&3(+(M!2)1%1&3(+1&#!10!&/,!/1</,0&!8*%4!*8!)*+1&1@0B!(-5!*3%!0)1%1&3(+1&#!10!

51%,@&+#!1-J*+J,5!1-!<*J,%-4,-&p![@1&,5!1-!=(Q*Q10B!EFF]B!)!HF\!

2141+(%+#!B!&/,!-R/1#(M!/!*+10&1@!)%(51<4!5*,0!-*&!@+,(%+#!510&1-<310/!" ,&M,,-!

J(+3,0B!)%1-@1)+,0B!,&/1@0B!(-5!M1#(0*MRM1-(B!h&/,!+(M0ilE-!W(0,5!*-!&/,!+(-<3(<,!)

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(55%, 00, 5!V/1+, !1&!10!&%3, !&/(&!&/, %, !(% , !/34 *%*30!8*+Q!&(+, !J, %01* -0!*8!

MRO(/QR@(/QB!(O!M, ++!(O!O(@%, 5!S&(#*/QRM1-(!0&*%1, 0!&/(&!5, 0@%1", !/14!(O!" *&/!

", -, J*+, -&!(-5!8**+10/B!/ , !10!0&1++!(-!14) *%&(-&!S&(#*/Q(-!81<3%, !&/(&!&, (@/, 0!30!

(" *3&!(5J, -&3%, B!@%, (&1J1&#B!/34 *%B!(-5!(" *3&! *3%!%, +(&, 5-, 00!&*!(++!*&/, %!+18, !8*%40!

21-@, !MRO(/QR@(/Q!10!)%* -, !&*!4 (Q1-<!410&(Q, 0!5, 0)1&, !/10!0(@%, 5!03), %- (&3%(+!

("1+1&1, 0B!/ , !&, (@/, 0!30!(" *3&!/341+1&#!(-5!" (+(-@, !(-5!%, 41-50!-R/1#(M(Q!&/(&!

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D&!10!&14, !&*!5, 01<-!-, M!@3+&3%(++#!%, +, J(-&!&%(-0+(&1*-!8*%4 (&0!&/(&!%, !
 <, (% , 5!(%*3-5!-R/1#(MRM1-!+(-<3(<, !0&%3&3%, 0!(-5!" , +1, 80!(-5!3-81+&, %, 5![*%!(&!
 +, (0&!41-14(++#!81+&, %, 5\!-R/1#(M!), %0), @&1J, 0!./, !15, -&181@(&1*-!*8!Q, #!M*%50!(-5!
 &/, 1%!+1-<310&1@!%* * &0!(-5!+1&, %(!(-5!81<3%(&1J, !&%(-0+(&1*-0!M1+!, +!@1&!(!5, ,), %!
 3-5, %0&(-51-<!(5!())%, @1(&1*-!*8!-R/1#(M!&S)101-*M1-!(-5!@*04 *+* <#!&/(&!M1+!
 , -03%, !(@@, 001"1+1&#!8*%!-, M!+(-<3(<, !+, (%-, %0!(-5!83&3%, !<, -, %(&1*-0!*8!-R/1#(M(Q!
 P/(& , %!8*3!*-!%, 0, (%@/!%, 03+&0!M1+!, N)+*%, !&/, 0, !15, (0!83%&/, %!

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, I CJ%2K!%I K22E!75(59.5D8: 5*)!MA#09--4-6\$0!

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D8!&/,!' (&1J, !6, *)+, 0!(-5!&/, 1%!/, %1&<, !(% , !&*!" , !3-5, %0&* *5B!1&!10!&/, 1%!
" , +1, 8OB!1-01</&OB!@* -@,)&OB!15, (+OB!J(+3, OB! (&&1&35, OB!(-5!@*5, 0!&/ (&!430&!" , !

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()% , @1(&1* -!8*%&!&/ , !&14 , !@* 4 4 1&4 , -&!*8!) (%&1@1) (-&0! . /10!% , : 31% , 0!4 , !&*!- *&!)% , & , -5!&*!" , !(-!*"e , @&1J , !* 3&015 , %!" 3&!&*!" , !83+#! , -<(< , 5!(-5!(3&/ , -&1@!-!(+!4 #! 5 , (+!-<0!M1&/!) (%&1@1) (-&0!(-5!&*!% , @* <-1T , !&/ , 4!(0! , 0& , , 4 , 5!@* -&%1" 3&*%0!- *&! (0! % , 0 , (%@/!03"e , @&0!D!M* 3+5!+1Q , !&*!@(+!&/10!(!) (%&1@1) (&*%#!())%* (@/!" , @ (30 , !D!" , +1 , J , ! 1-!&/ , !)%1-@1)+ , 0!(00*@1(& , 5!M1&/!@* 4 4 3-1&#g" (0 , 5!) (%&1@1) (&*%#!% , 0 , (%@/!" 3&!1-! &/ , ! , -5!D!0&1+!@* -53&& , 5!1-& , %J1 , M0![(+ , 1&!510@3001* -g" (0 , 5!(-5!&/ , !M%1&1-<(-5! (- (#010!(% , !0&1+!4 #!*M-! . /10!())%* (@/!/*M , J , %!@(+0!8*%!) (%&1@1) (-&0!&*!% , J1 , M! &/ , 1%1-) 3&!&*! , -03% , !)%*) , %!% ,)% , 0 , -&(&1* -!D-!&/10!+14 1& , 5!0 , -0 , !&/ , #!(% , ! 0&(Q , /*+5 , %0!(-5!@*g@% , (&*%0!D&!10!4 #!/*) , !&/ (&!&+ , (0&0* 4 , !*8!&/ , !1003 , 0!(-5! 15 , (0!)% , 0 , -& , 5! / , % , !M1+!" , !@* -015 , % , 5!1-!&/ , 1%M*%Q!(0!)%(@&1&1* - , %0!

! =#!% , 0 , (%@/!10!- *&!5 , 0!<- , 5!&*!5 , +1J , %!(!)%* 53@&!*%0* 4 , !<%(-5!&%3&/j!%(&/ , %! 1&!10!: 3(+1&(&1J , !(-5!)%*% , 00!*%1 , -& , 5!D!(4 !h<1J1-<!" (@Qi!&*!) (%&1@1) (-&0!(-5!&*!&/ , ! +(%< , %!-R/1#(MRM1-!@* 4 4 3-1&#!" #!)%* J151-<!@*)1 , 0!*8!&/ , !81- (+!&/ , 010!5* @34 , -&0!&*! (+!) (%&1@1) (-&0!(-5!" , 1-<!M1+1-<!&*!) (%&1@1) (& , !1-!(-#! , -031-<!510@3001* -0!

! D-!&/ , !% , (+4!*8!1-51< , - *30!(@ (5 , 41(!D!" , +1 , J , !&/ , % , !/(0!(+% , (5#!" , , -!4 3@/! 0&(& , 5!(" *3&!&/ , !5 , @*+* -1T1-<!(0) , @&0!*8!) *0&g@*+* -1(+1-51< , - *30!% , 0 , (%@/!&/ , *%#!0*! D!5* -i&!/(J , !(-#&/1-<!- , M!&*!(55!&*!&/10!510@3001* -!D-!&/ , !0) 1%1&! *8!&/10!&/ , *%#%#D!

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@* -@,)&O!(-5!" , +1, 80!(" * 3&!&/, !M*%+5!" 3&!-!5*1-<!0*Bl@(-!(+0*!*88, %!(+&, %- (&1J, O!(-5!
(!5188, %, -&!M(#!*8!J1, M1-<(-5!*), %(&1-<!1-!+18, !!1 -5, %0&(-51-<!-R/#(MRM1-!(-5!
-R/1#(M!&S)101-*M1-!@(-!" , !, 4) *M, %1-<!- *&!e30&8*%&/, !) 3%) *0, !*8!15, -&!&#Bl
0)1%1&3(+1&#!*%!0, -0, !*8!" , +* -<1-<!" 3&!(+0*!" , @(30, !-R/1#(M!Q-*M+, 5<, !@(-!1-8*%4!
(-5!<315, !-R/1#(M!+(MBl-R/1#(M!+, (5, %0/1)!(-5!<*J, %- (-@, Bl-R/1#(M!1-&, ++, @&3(+!
&% (51&1* -OBl(-5!4 (-#!*&/, %!(%, (O!&/(&!M, !5, (+!M1&/!1-!(!4 *5, %-!M*%+5!' R/1#(M!
Q-*M+, 5<, !10!O&1++!, +, J(-&! ' R/1#(MRM1-!) %(@&1&1* -, %0!-, , 5!&*!+*Q!8*%&/, !/155, -!
4, (-1-<O!1-!" *&/!-R/1#(MRM1-!(-5!>-<+10!/!&, %4O!(-5!@* -@,)&O! = (Q1-<!30, !*8!&/, !
-R/1#(M!@* -@,)&!*8!-SQ(&*/ORM1-!5, 0@%1" , 5!1-!&/, !*), -1-<!0&*%#!@*3+5!/ , +)!
0&%, -<&/, -!&/10!(M(% , - , 00!*8!5, , ,) , %!4, (-1-<O!ZG!!!
! D!" , +1, J, !&/(&!(-#!01-@, %, !M*%Q!&*!%, J1&(+1T, !(-5!+, (%-!*3%1+(-<3(<, O!(-5!
)%*&, @&!1-51<, -*30!Q-*M+,

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%,)%, 0, -&(&1J, !*8!(-!(@5, 41@1-0&1&3&1* -!!. /10!10!) (%&+#!M/#!, (@/!8(@, g&*g8(@, !
4, , &1-<!M(O!0&(%&, 5!M1&/!(!0&(-5(%5!-R/1#(M!)%*&*@*+!*8!(!&*"" (@@*!*88, %1-<!\$O!(!
8*%4, %!*0QS)RM!h@, %, 4*-1(+m0)1%1&3(+!())%, -&1@, !(-5!/+, %i2D!M(O!&(1-, 5!&*!
) , &1&1* -!M1&/!&*"" (@@*!(-5!&*!, N)+(1-!M/(&!&!M(O!&/(&!D!-, , 5, 5!8%* 4!&/, !), %0* -!D!M(O!
(OQ1-<!/, +)!8%* 4!ZH!. /10!10!(!M(#!&/(&!(@Q-*M+, 5<, 0!-*&!e30&!&/, !), &1&1* -, 5!* -, i0!
, N), %&10, !" 3&! (+0*!&/(&!&/, !), &1&1* -, %!10!@* 41-<!8%* 4!(!) *0!&1* -!*8!/3 4 1+!#!D-!&/10!
)%*@, 00!&/, !), &1&1* -, 5!), %0* -! (8&, %!/, (%1-<!* 3&!&/, !%, : 3, 0&B!/(O!&/, !*)&1* -!*8!
%, 8301-<!&/, !&*"" (@@*!18!&/, #!, 1&/, %!" , +1, J, !&/, #!@(--*&!/, +)!*!&/(&!&/, !%, : 3, 0&!10!-*&!
@* 41-<!8%* 4!(!h< **5i!)+(@, !!. /, !&*"" (@@*!10!, 00, -&1(+#!(10!<-*8!%, 0), @&!&*!&/, !0)1%1&0!
&/(&!M1+!" , !@(+, 5!3)* -!&*!<315, !&/, !)%*@, 00!|) * -!(@@,)&(-@, !*8!&/, !&*"" (@@*!&/, !
)%*@, 00!10!-*M!%, @* <-1T, 5!(O!0(@%, 5!(-5!1-@+30!J, !*8!&/, !-R/1#(M!O)1%1&!%, (+4!!. /, !
&*"" (@@*!1-1&1(+#!*88, %, 5!@(-!&/, -!" , !%, g*88, %, 5!*%!30, 5!1-!%, +(&, 5!@, %, 4*-1, 0!!. /, !
3-1-1&1(&, 5!*8&, -!4!0&(Q, -#!(003 4, !&/(&!&/, !&*"" (@@*!10!(!<18&!51%, @&+#!&*!&/, !), %0* -!
", 1-<!), &1&1* -, 5!" 3&!&1&10!%, (+#!(!<18&!&*!(@Q-*M+, 5<, !&/, !@(+, 5!3)* -!0)1%1&0!D&!0!&/, !
8*%4 (+1T(&1* -!*8!(!0)1%1&3(+!(<%, , 4, -&!*%!-, <*&1(&1* -!(-5!(15**%M(#!&*!83%&/, %!
510@300!*-0!!. *!&*88, %!&*"" (@@*!M1&/*3&!&/10!Q-*M+, 5<, !4, (-0!&*!%10Q!*88, %1-<!1&!
M1&/*3&!(!)%*), %!@* -&, N&!\$@@,)&(-@, !*8!(!&*"" (@@*!*88, %1-<!303(+#!(+0*!4, (-0!&/(&!
0(@%, 5!1-8*%4 (&1* -!1-!) (%&1@3+(%!@(-!" , !510@300, 5!" 3&!, +5, %0!M1+!303(+#!4 (Q, !1&!
@+, (%!M/(&!@(-!(-5!@(--*&!"" , !%, @*%5, 5!
! ?-@, !1-&, %J1, M!) (%&1@1) (-&0!(@@,)&, 5!4#!&*"" (@@*!*88, %1-<B!D!" , +1, J, !&/, #!
%, @* <-1T, 5!4#!0&35#!(0!) (%&!*8!(!+(%<, %!@* -&, N&!!. /, #!@

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(-5!%, +(N, 5!(-5!<(J, !*8!&/, 1%!&14, !: 31&, !<, -, %*30+#!. /, !30, !*8!/34 *3%!(-5!0/(%, 5!
0&*%1, 0!*8!@* 4 43-1&#!(-5!8(41+#!@* --, @&1* -0!M(0!(- *&/, %!8(@&*%1-!""%, (Q1-<!&/, !1@, !
(-5!) 3&&1-<!), *)+, !(&!, (0, !!. /10!10!(++) (%&!*8!&/, !%, +(&1* -0/1)!" 31+51-<!&/(&!10!
, 00, -&1(+!&*!, 0&(" +10/1-<!(!03@@, 0083+!%)) *%&!M1&/!, +5, %0!(-5!-R/1#(MRM1-!0), (Q, %0!
D-!(-!15, (+!01&3(&1* -8!&/10!%, +(&1* -0/1)!" 31+51-<!M* 3+5!%, : 31%, !&14, !" 3&!01-@, !M, !(++
/(5!+141&, 5!&14, !(-5!01-@, !4 #!%, 0, (%@/!M(0!0, +8q83-5, 58!M, !/(5!&*!4 (Q, !4 (N14 34!
30, !*8!*3%!M1-5 *M!*8!*) *%&3-1&#!8*%!D!@* 3+5!- *&!(88*%5!&*!0), -5!4 *%, !&/(-!(!M, , Q!
1-!\$+" , %&(L!D!/*), !&*!) 3%03, !) *0&q&/, 010!%, +(&1* -0/1)0!M1&/!(++1-&, %J1, M!) (%&1@1) (-&0!
(-5!(4!(+M(#0!1-&, %, 0&, 5!1-!&/, !+(-<3(<, !M*%Q!&/, #!(%, !1-J*+J, 5!1-!1
! . /, !4 (1-!) 3%) *0, !*8!&/, !1-&, %J1, M0!M(0!&*!15, -818#!-R/1#(MRM1-!&, %4 08!
@* -@,)&0!(-5!&, (@/1-<0!%, +(&, 5!&*!M*%+5J1, M!D-!5 *1-<!0*!D!M(0!83+#!@* -0@1* 30!*8!&/, !
8(@&!&/(&!-R/1#(MRM1-!/ (0!" , , -!(+%, (5#!1-8+3, -@, 5!&*!0* 4, !5, <%, , !" #!P/%10&1(-1!
) (-gD-51(-104!(-5!&/, !>-<

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) (%&1@1) (-&0!(0!" *&/!, +5, %0!(-5!+(-<3(<, !)%(@&1&1* -, %0!&/, %, "#!-, <(&1-<!&/, !-, , 5!8*%!&M*!<%*3)0!!

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M, %, !@* J, %, 5!" , @(30, !, J, %#!: 3, 0&1* -!8*@30, 5!%1</&! " (@Q!* -!*" &(1-1-<!1-8*%4 (&1* -!
%, +(&, 5!&*!(0) , @&0!*8!-R/1#(M!&S)101- *M1-L!!

! ; , 0)1&, !&/, 1%!0/*%&@* 41-<0B!&/, !: 3, 0&1* -0!D!8*3-5!4 *0&!30, 83+!1-!&/, !

: 3, 0&1* --(1%, !M, %, !: 3, 0&1* -!&/%, , !* -!15, -&18#1-<!-R/1#(M!J(+3, 0B!: 3, 0&1* -!8!J, !* -!

5, 0@%1"1-<!-R/1#(MRM1-!0&%3&3%, B(-5!: 3, 0&1* -0!0, J, -!(-5!, 1</&!&/(&!M, %, !5, 0!<- , 5!

&*!15, -&18#!M*%50!8(+!-<!*3&!*8!30, !!` 3, 0&1* -0!0, J, -!(-5!, 1</&!&)%*" (" +#!0/*3+5!/(J, !

" , , -!4, %<, 5!1-&*!(!01-<+, !: 3, 0&1* -!" 3&!&/(&i0!1-!%, &%*0) , @&!\$++1-!(+B!&/, 0, !8*3%!

: 3, 0&1* -0!)%* J15, 5!4, !M1&!&/, !4 *0&!%, +, J(-&! " 3+Q!*8!1-8*%4 (&1* -!-, , 5, 5!8*%!&/10!

0&35#!!! -8*%&3- (&, +B!&/, !%, 03+&0!8%* 4!: 3, 0&1* -!01N!* -!15, -&18#1-<!-R/1#(M!)%*J, %" 0!

@*3+5!- *&! " , !1-@+35, 5!1-!4#!%, 03+&0!53, !&*!+(@Q!*8!&14, !(-5!0) (@, !!D!/(5!&*!8*30!* -!

4#!4 (1-!<* (+0!(-5!4 (5, !&/, !5, @101* -!&*! * 4!&!&/10!1-8*%4 (&1* -!21-@, !0* 4, !*8!&/, 0, !

)%*J, %" 0!M*3+5!/(J, ! " , , -!4 (5, !(@@, 001"+, !&*!&/, !) 3"+!@!(-5!M*3-0. 2(*)0. 1(!) *M!! -(!/(!g4Tf(

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L *45*#!J)&05.5/) *0(P!

V(#-, !0(@Q0* -B!W1++#!0*, !C(" *3@(-B!C, 0+1, !2Q1--, %B!2*+* 4* -!9(&&B!\$%*Q!V*+J, -<%, #!

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N*0#&=5#: R@5(. ?((5- *!J)&05.5/) *0(U!

=(%#!P(%51-(+gP*+1-0B!9, 3", -!` 31--B!; *%*&/#!. /3-5, %B!9*0, !V(" (0@(!

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! 6(%&1@1) (-&0!(%, !+(%<, +#!)%*8, 001* - (+!-R/1#(MRM1-!)%(@&1&1* -, %0!03@/!(0!

@3%1@3+34!M%1&, %0!(-5!1-0&%3@&*0B!M1&/!* -, !*8!&/, 4!" , 1-<!(!- * -g- (&1J, !+1-<310&!

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M/1@/!10!(5 41-10&, %, 5!" #!* - , !*8!&/, !) (%&1@1) (-&0B!V (#-, !0(@Q0* -!V/1+, !D!515!- *&!<, &!
(!@/(-@, !&*!4, , &!51%, @&+#!M1&/!&/, !=(-1&*"" (!) (%&1@1) (-&0!2*+* 4 * -!9(&&(-5!\$%*Q!
V*+J, -<%, #B!D!/ (J, !(+0*!1-&, %(@&, 5!M1&/!&/, 4!* -+1-, !(-5!(4!J, %#!8(41+1(%!M1&/!&/, !
+(-<3(<, !%, 0*3%@, 0!&/, #!/ (J, !5, J, +*), 5!D!(4!/* - *3%, 5!&/ (&!(+!*8!&/, !) (%&1@1) (-&0!
&* *Q!&/, !&14, !&*!@* -&%!" 3&, !(-5!(55!&/, 1!J*1@, 0!&*!&/10!%, 0, (%@/!1-!&/, !0)1%1&!*8!
4S4 (M1/Q(4S&*M1-B!hM*%Q1-<!@*+(" *%(&1J, +#!(-5!@* *), %(&1J, +#!1-!/, +)83+-, 00i!(-5!
01/&*QoS&*M1-B!he*1-1-<!&* <, &/, %!&*!0&%, -<&/, -!(-5!03)) *%&!* - , !(- *&/, %i!>!
! D-&, ++, @&3(+!8, (&/, %0!0* 4, &14, 0!<, &!%388+, 5!53%1-<!@%1&1@(+!510@3001* -0!" 3&!&/, !
-R/1#(M!0&#+, !10!" (0, 5!* -!%, 0), @&83+!@* 4 4 3-1@(&1* -!()) %* (@/, 0!D-!4#!*)1-1* -B!
8*%4 (+!51(+* <3, !* -!+(-<3(<, !(-5!@3&3% (+!03%J1J (+!10!4 *%, !@%3@1(+! - *M!&/(-!, J, %!
. /, 0, !@%1&1@(+!510@3001* -0!/* 3+5! - *&!510@* - -, @&!30!.\$@*%51-<!&*!&/, !&, (@/1-<0!*8!
-R/1#(M!&S)101- *M1-B!5, 0)1&, !(-#!5188, %, -@, 0!), *)+, !4 (#!/(J, B!*3%1-R/1#(MRM1-!
+(-<3(<, !0&1+!@* - -, @&0!30!(+!(0!8(41+#!!\$0!+* -<!(0!*3%1+(-<3(<, !10!(+1J, B!&/10!M1+!
(+M(#0!" , !&/, !@ (0, !!!!

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@(+4B!0&, (5#!) (&1, -@, i!(0!(!%, : 31%, 4, -&!8*%!+, (%-1-<!-R/1#(MRM1-B!%, 0, (%@/!

) (%&1@1) (-&!; ***&/#!. /3-5, %!0&(&, 0U!

! *5(#!*3%!), *)+, !M(-&!&*!+, (%-!8(0&!&*!<(1-!&/, !3-5, %0&(-51-<0!&/ (&!&* *Q!
&/, %0!#, (%0!&!+, (%-!" 3&!&/, #![&/*0, !*&/, %0\!515!1&!@(% , 83++#!s!&/, #!!/(J, !(
<* *5!3-5, %0&(-51-<!*8!&/, !P%, , !M*%+5J1, M!?!-, !-, , 50!&*!/(J, !&/, !) (&1, -@, !1-!
<(1-1-<!(-!3-5, %0&(-51-<!*8!5, %1J (&1* -0!*8!@* -@,)&0!(-5!&, %40!V, !/(J, !&*!
+, (%-!*3%!+(-<3(<, !1-!(!%, 0), @&83+!4 (-, -, %!![; !!. /3-5, %B!), %0* - (+!1-&, %J1, MB!
= (#!EY&/B!EFGH\!

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!. /10!10!(!J(+3("+, !%, 41-5, %!&/ (&!(+&/ *3</!&/, !4RQ*M(/)!10!(!0(8, !(-5!1-@+301J, !

0) (@, B!1&!@(-!(+0*!" , !(!@/(+, -<1-<!* -, !&/ (&!%, : 31%, 0!(!) (&1, -&B!%, 0), @&83+!(-5!/*+10&1@!

())%*(@/!&*!<(1-1-<!Q- *M+, 5<, !!

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M*%Q!(0!(+(-<3(<, !&, (@/, %!@3%%1@3+34!M%1&, %!(-5!1-!4#!, J, %#5(#!+(-<3(<, !30, !D!

(4!/())#!&*!5*!4#!) (%&!1-!<(&/, %1-<!81%, M**5!8*%!&/, !4RQ*M(/)!81%, !!

! W, 8*%, !M, !, N(41-, !0(@%, 5!&, %40!(-5!@* -@,)&0!%, +(&, 5!&*!-R/1#(M!

&S)101-*M1-B!D!M1+!8*+*M!3)!* -!&/, !-R/1#(MRM1-!0&%3@&3%, !&/(&!M(0!1-&%*53@, 5!1-!

@/()&, %!&M*!"#!8*@301-<!/, %, !* -!M/(&!%, 0, (%@/!) (%&1@1) (-&0!0*4, !*8!&/, !@3%%, -&!

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(!+1J1-<!*&+18, !<1J1-<!, -&1&#!10!*-, !*8!&/, !@%1&, %1(!8*%!(-14 (&, !-*3-!@+(00181@(&1* -!" 3&!

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(@&1*-g*%1, -&, 5!+(-<3(<, !(-5!0*!%, +!(-&!*-!J, %"0!&/(&! , J, -!@*+*3%0!(%, !J, %"0!7*%!
, N(4)+, !41/QMSMB!&/, !-(4, !8*%!&/, !@*+*3%!h%, 5!5*, 0!-*&!014)+#!4, (-!%, 5!!. /10!
0/*%&!01-<+, !M*%5!&%(-0+(&, 0!(0B!h!&!10!" , 1-<!*8!(!" +*5g+1Q, !()), (%(-@, i!1-5!@(&1-<!
(@&1*-!(-5!(!5, 0@%1)&1J, -, 00!&*!&/, !+(-<3(<, !' R/1#(MRM1-!@*+*3%0!(%, !(+0*!@+(00181, 5!
1-&*!(-14 (&, !(-5!1-(-14 (&, !@+(00, 0!(-5!0&(-5!(0!@* 4)+, &, !0, -&, -@, 0!, J, -(0!01-<+, !
M*%50!!. /, #!/ (J, !+1&, %(+!(-5!14)+1, 5!4, (-1-<0!&/(&!@(-!" , !51881@3+&!&*!&%(-0+(&, !1-&*!
>-<+10/!!. /, !1-(-14 (&, !M*%5!8*%!&/, !@*+*3%!M/1&, !10!MS)10QSMB!(!01-<+, !M*%5!M/1@/!
4, (-0B!h!&!10!" , 1-<!&/, !@*+*3%!*8!&/, !5(M-i!*%!4 *%, !(@@3%(&, #B!h!&!10!" , 1-<!*8!(!5(M-g
+1Q, !()), (%(-@, li!. /10!14)+1, 0!&/, !"%1</&- , 00!*%!@+, (%-, 00!*8!&/, !5(M-!, J, -!&/*3</!
&/, %, !10!-*!4 *%)/, 4, !&*!%, 8+, @&!&/10!!. /, !1-(-14 (&, !M*%5!8*%!<%, , -!10!(0Q1/&(QMSMB!
M/1@/!@(-!4, (-B!h!

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<, -5, %!510&1-@&1* -!%, 8+, @&0!(-!*+5, %!M*%+5J1, M!M/, %, !<, -5, %!5188, %, -&1(&1* -!M(0!- *&!
J1, M, 5!(0!14) *%&(-&! (0!1&!10!&*5 (#! ! !
! ! . *!, N) (-5!* -!&/, !5, 0@%1) &1J, !- (&3%, !*8!-R/1#(MRM1-B!M*%50!@(-!*8&, -!) (1-&!(
)1@&3%, !(-5!-, M!M*%50!@(-!" , !@%, (&, 5!18!&/, #!4 (Q, !0, -0, !(-5!8*+*M!&/, !
<%(4 4 (&1@(+!) (&&, %-0!7*%!, N(4)+, !+, &i0!, N(41-, !410&(&14!&/, !-R/1#(M!M*%5!8*%!
/*%0, !!. /, !)% , 81N!h410i!10!(-!1-51@(&*%!*8!"1<- , 00!" 3&!&/, !%**&!- *3-lh(&14i!(@&3(++#!
4, (-0!h5* <i!!. /, !M*%5!&, +0!30!&/(&!&/, %, !M(0!- *!*%1<1- (+!M*%5!8*%!/ *%0, !(-5!&/(&!
01-@, !&/, !-, M!@%, (&3%, 0!+**Q, 5!+1Q, !"1<1J, %01* -0!*8!5* <0![M/1@/!M, %, !30, 5!8*%!
) (@Q1-<B!/(3+1-<!(-5!*&/, %!M*%Q!(&!&/, !&14, \B!/*%0, 0!" , @(4, !&/, !h"1<!5* <0i!(-5!(
-, M!M*%5!M(0!@%, (&, 5!&/(&!" , @(4, !(-!14) *%&(-&!) (%&!*8!6+(1-0!P%, , !@3+&3%, !(-5!
0)1%1&3(+1&#!!. /, !/*%0, !0)1%1&!, -&, %, 5!&/, !-R/1#(M!)0#@/, !(-5!@*04 *+* <1@(+!*%5, %B!
M/1@/!1-!&3%-!+, 5!&*!/*%0, g0), @181@!@, %, 4* -1, 0!!. *5(#!- *"*5#!&/1-Q0!*8!&/, !/*%0, !(0!

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14)+1, 0!&/ (&!&/, !, +5, %!10! - *&!0, %J1-<!(!<%(-5!8, (0&! " 3&!4 (Q1-<!(!) *+1&, !(-5!/34 "+, !

*88, %1-<!D&!%,)%, 0, -&

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%, 0) * -0, 0!&*!: 3, 0&1* -0!%, +(&, 5!&*!&/, 0, !8(@&*%0!?!&/, !M/*+, B!) (%&1@1) (-&!%, 0) * -0, 0!
03)) *%&, 5!4 (-#!*8!&/, !*"0, %J(&1* -0!*8!&/, !+!&, %(&3%, !%, J1, M!1-!@/()&, %!&M*!D-!
5, 0@%1"1-<!&/, !@/(%(@&, %10&1@0!*8!-R/1#(M!M*%+5J1, M!(-5!)/1+*0*)/#!(0!(!%, 0) * -0, !&*!
&/, !"**(5!*), -1-<! : 3, 0&1* -0!1-!&/, !: 3, 0&1* --(1%, ![0, , !\$)), -51N!W\B!&/, !1-8*%4 (&1* -!
0/(%, 5!"#!) (%&1@1) (-&0!()), (%0!(0!4 (@%*g

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W!>; D5\$50-: 5*U!. /, !%* * &!OSQ1%,)%, 0, -&0!+*J, !1-!<, -, %(+(-5!&/, !&, %4!1-!1&0!83+!8*%4!
4, (-0!%*3</+#2h/(J1-<!+*J, !8*%!* -, !(- * &/, %il!. /, !-R/1#(M!@* -@,)&!*8!+*J, !(0!8(%!(0!D!
3-5, %0&(-5!1&!10!- * &!43@/!5188, %, -&!8%* 4!&/, !>-<+10/!4, (-1-<!*8!+*J, !" 3&!%, 0, (%@/!
) (%&1@1) (-&0!5*!) *1-&!&*!&0!14) *%&(-@, !"#!(+4 *0&!3 - (-14 *30+#!15, -&!8#1-<!1&! (0!(!Q, #!
@* -@,)&!D!/(J, !(+0*!/, (%5!, +5, %0!&/ (&/ (J, !" , , -!&, (@/, %0!1-!4 #!+18, !0), (Q!*8!
OSQ1#1&*M1-!4 *%, !(0!(!0(@%, 5!+(M!&/ (-!(0!(!J1%&3, !. M*!8!&/, !%, 0, (%@/!) (%&1@1) (-&0!
(+0*!03)) *%&, 5!&/10!&/, *%#1!-!&/, !%!* 4 4, -&0!D-!&/10!@* -&, N&B!OSQ1#1&*M1-!10!@+*0, +#!
%, +(&, 5!&*!M(/Qk&*M1-![5, 0@%1", 5!", +*M\!(-5!M*3+5!/(J, !" , , -!30, 5!&*!<315, !
-R/1#(M!0* @1(+!*%<(-1T(&1* -!(-5!Q1-0/1)!D&!+1Q, +#!(+0*!5, 0@%1", 0!+*J, !1-!1&0!"%*(5, 0&!
%, +(&1* - (+0, -0, !D&!5, 0@%1", 0!(!5, ,)!%, @1)%* @(+!@* --, @&1* -!- * &!e30&!&*!/34 (-0!" 3&!
(+0*!&*!*&/, %!(0), @&0!*8!&/, !3-1J, %0, !!!!

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W!%) /) 905\$5' 5(-: 5*U!. /10!M*%5!%,)%, 0, -&0!(18*%4!*8!&%3, !/341+1&#!(-5!4*5, 0&#!
(-5!4, (-0!0*4, &/1-<!(+* -<!&/, !+1-, 0!*8!h- * &!&/1-Q1-<!&*! /1</+#!*8!* -, !0!0, +8il!. /, !
<, -, %!@B!- * -g1-@+301J, !- *3-!J, %01* -!M*3+5!", !&() (/&1#14 *M1-!" 3&!&/, !, -51-<!s
1#1410*M1-B!0!<-181, 0B!/*M!hM, !&/1-Q!*8!*3%0, +J, 0i2!4 (Q1-<!&/, !M*%5!4 *%, !), %0* - (+!
. /, !%* * &!@* 4, 0!8%* 4!&() (/&1B!M/1@/!10!(!)%,) *01&1* -!4, (-1-<B!h* -!&/, !+*M, %!015, !*8!
* &/, %!&/1-<0i!1L, !&/, !+*M, %!"%(-@/, 0!*8!(!&%, , !&/ (&! (%!, !@+*0, %!&*!&/, !, (%&/>!. /, %, !M, %, !
4 (-#!0&*%1, 0!1-!4 #!@/1+5/**5!(" *3&!&/, !14) *%&(-@, !*8!&/10!@* -@,)&!W(0, 5!* -!&/, 0, !
0&*%1, 0!(-5!* -!&/, !-R/1#(MRM1-!) *J, %" 0m151*40!D!M(0!(10, 5!M1&/B!&/, 0, !@* -@,)&0!
/(J, !" , , -!5, ,)+#!1-<%(1-, 5!(0!<3151-<!)%1-@1)+, 0!1-!4 #!), %0* - (+!+18, !" R/1#(MRM1-!
(5J* @(&, !(-5!)%(@&1&1* -, %!V (#-, !0(@Q0* -!5, 0@%1", 0!&/, !-R/1#(M!J1, M! * -!" * (0&1-<!(0!
* -, !*8!&/, !+, 00* -0!%, +(&, 5!&*!&/10!@* -@,)&U!!

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!]X
! A341+1&#v&*!" ,!/34"+, !(-5!<*!(" *3&!5*1-<!M/(&!#*3!5*!" , 0&!M1&/ *3&!/(J1-<!
! &*!0(#\n\i4!<%, (&!\+* *Q!(&!4, lp!6, *)+, !M1+!%, @* <-1T, !#*3!&(+, -&0!(-5!
! (@@*4)+10/4, -&0!M1&/ *3&!#*3!/(J1-<!&*!" * (0&!*%!"%(<!(" *3&!&!&!
! [\V!l0(@Q0* -\! * -+1-, !03%J, #\! = (#!EFGH\!
!
C, 0+1, !2Q1-- , %\!5, 0@%1" , 5!&() (/&!#1410*M1-!1-!-R/1#(MRM1-!" #!M%1&1-<!/10!%, 0) * -0, !

&*!&/, !* -+1-, !: 3, 0&1* --(1%, !1-!29?!A10!%*3</!>-<+10/!&%(-0+(&1* -!10U!

! 2*![&/10!4, (-0\ - * " *5#!@(-!" * (0&!*%!*J, %0&,)!M1&/!&/, 1%!M*%50!(-5!- * " *5#!
! @(-!@* , %@, !*%!\@* -&%*+!(- * &/, %\! . /, %, !10!(" 0*+3&, !%, 0), @&8*%!), %0* -(+!
! (3&* - * 4#!(-5!" *3-5(%1, 0!?!3%!\+, (5, %0!M, %, !(+M(#0!, N(4)+, 0!*8!
! /341+1&#!(-5!@*4) (001* -! [C!2Q1-- , %\! * -+1-, !03%J, #\!03- , !EFGH\!
!
! . /10!J1, M!*8!/341+1&#!@(-!/ (J, !4 (-#!)%*8*3-5!14)+1@(&1* -0!1-!(+!(%, (0!*8!4 *5, %-!

+18, l!D-!&, %40!*8!+, (5, %0/1)!1&!0&(-50!1-!0&(%Q!@* -&% (0&!&*!&/, !) *+1&1@(+!%, (+1&1, 0!*8!&/, !

4 *5, %-!M*%+5!&/ (&!&, -5!&*!%, M(%5!1-5!J153(+1&#\!), %0* -!<(1-\!@*4), &1&1* -!(-5!, J, -!

" * (0&1-<!(-5!(<<% , 001* -!l. /, !M/*+, !@* -@,)&!*8!@ (4) (1<-0!" (0, 5!* -!(&&(@Q!(50\!

" * (0&1-<!\!) *+1&1@(+!<% (-50&(-51-<!(-5!, +, @&1* -!)%* 410, 0!(%, !(5*)&, 5!@* -@,)&0!(-5!

- *&!) (%&!*8!&/, !&% (51&1* - (+-R/1#(M!41-50, &!>J, -!&/ *3</!4 *5, %-!-R/1#(M(Q!(-5!

4 *0&!@*+* -1(++#!, 0&(" +10/, 5!7!%0&! (&1* -!<*J, %-4, -&0!(5/, %, !&*!&/10!43-1@1) (+!0&#+, !

*8!<*J, %-4, -&1-! *5, %!&*!<, &!)%* <% (4!83-51-<!\!4 (-#!&% (51&1* - (+10&0!0, , !&/, 0, !

) *M, %g" (0, 5!())%* (@/ , 0!(0!, N&, -01* -0!*8!(!@*+* -1(+!< , -5(!&/ (&!M*%Q0!&*!5141-10/!

1-5!<, - *30!1-0&1&3&1* -0!(-5!e3%1051@&1* -0! = (-#!#*3-<!(@&1J10&0!&/%*3</!&/, !D5+, !' *!

= *%, !4 *J, 4, -&!(-5!*&/, %!) *+1&1@(+!@ (4) (1<-0!/(J, !" , <3-!&*!@/(+, -<, !&/, 0, !

, +, @&, 5!+, (5, %0!&*!%, &3%-!&*!4 *%, !&% (51&1* - (+-R/1#(M!<*J, %-(-@, !4 *5, +0!l!

!
W!<)9DU0-: 5*U!. /10!@* -@,)&!&%(-0+(&, 0!&*!l%, +(&, 5-, 00!*%!1-&, %, +(&, 5-, 00i!\$-!

3-5, %+#1-<!(0034)&1* -!*8!&/10!Q1-5!*8!%, +(&, 5-, 00!10!&/ (&!1&!0!<-181, 0!(Q1-0/1)!- *&!

e30&!&*!/34 (-0!" 3&!(+0*!&*!(+!*&/, %!+1J1-<!, -&1&1, 0!(-5!0)1%1&!" , 1-<0!l. /10!M*%5!

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-R/1#(MRM1-!D!(4!%, 41-5, 5!*8!&/,!)*, &1@!(-5!@%, (&1J, !30, !*8!4(-#!14)+1, 5!

4, (-1-<0!(-5!4, &()/!*%0!. /, !-, N&!03"0, @&1* -!, N)+(1-0!e30&!/*M!14)*%&(-&!0(@%, 5!

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M1&/!(!4 *%, !(@@3%(& !(-5!5, ,), %!3-5, %0&(-51-<!*8!)1#101M(QB!(-5!5%(MO!(&&, -&1* -!
&*!%, +(&, 5!@* -@,)&0!03@/!(0!&/, !S&(#*/QRM1- (!h0(@%, 5!/10&*%1@(+!-(%%(&1J, 0!*8!
@*04 *+*<1@(+!" , 1-<0iB

!

!]_

5(-@1-<!*8!5,) (%&, 5!0*3+0!@ (30, 0!&/, !+1</&0!1-!&/, !0Q#!&*!5(-@, !(-5!10!(!%, 4!1-5, %!*8!

&/, !* -<*1-<!@* --, @&1* -!" , &M, , -!&/ *0, !1-!&/, !, (%&/+#!%, (+4!(-5!&/, !0)1%1&!M*%+5!

. /!0!&% (5!&1* - (+!3-5, %0&(-51-<!0&, 40!8%* 4!0(@%, 5!- (%% (&1J, 0!&/ (&!(%, !)) (%&!*8!&/, !

S&(#*/QRM1- !(-5!-R/1#(M!@*04 *+* <#!. /!0!, N(4)+, !5, 4* -0&% (&, 0!&/, !14) *%&(-@, !

*8!5, - * &(&1J, !(-5!@* -- * &(&1J, !3-5, %0&(-51-<0!. /, 0, !&%(-0+(&1* -!1003, 0!1-!<, -, %(+!

(+0*!5, 4* -0&% (&, !&/, !@* --, @&, 5-, 00!" , &M, , -!-R/1#(MRM1-!(-5!-R/1#(M!&S)101-*M1-!

. /, #!0), (Q!&*!&/, !14) *%&(-@, !*8!%,)%, 0, -&1-<!-R/1#(MRM1-!(0!(@@3% (&, +#!) *001"+, !!

D&!10!(-!(%<34, -&!8*%!)%* J151-<!(!%1@/, %!(-5!83+, %!@* -&, N&!&/(-!10!- *%4(+#!)%* J15, 5!

1-!&%(-0+(&1-<!-R/1#(M!@* -@,) &0!&*!&/, !+(%<, %!M*%+5!D-!5, 0@%1"1-<!&/, !)/1+*0*)/#!

" , /1-5!-R/1#(MRM1-!%) (@&1&1* -, %!9, 3", -!` 31--!*88, %0!&/, !8*+*M1-<!*"0, %J (&1* -0U!

. /, !+(-<3 (<, !10!)% (@&1@(+!(0!M, ++!(0!, -03%1-<!&/, !0)1%1&3(+!%, (+4!!. /!0!10!M/ (&!

<1J, 0!+!8, !(-5!0)1%1&!&*!&/, !+(-<3 (<, j!&/10!53(+!3-5, %0&(-51-<!" , &M, , -!&/, !

0)1%1&3(+!(-5!)% (@&1@(+!. /, !0(@%, 5!+(M0!(-5!&, (@/1-<0!(%, !@* 4"1-, 5!M1&/!&/, !

)% (@&1@(+!(-5!, J, %#5(#!3-5, %0&(-51-<!*8!P%, , !+!8, !!\$+!)% (@&1@(+!&/1-<0!(%, !

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T)&5#+!A#) *5*6(!-1!, -(' -4-65.)4!, -*. #/0(!

9, 0, (%@/!)%(@&1&1* - , %0!15, -&181, 5!0* 4, !*8!&/, !8*+*M1-<!(55!&1* - (+!@*04 *+* <1@(+!
@* -@,)&0!(0!14) *%&(-&!&*!/, +)1-<!3-5, %0&(-5!-R/1#(M!&S)101- *M1-!D!/(J, !(55, 5!
0* 4, !*8!4#!*M-!- *&, 0!* -!4 *0&!&, %40!" (0, 5!* -!@* 4 4 * -!-R/1#(M!&%(-0+(&1* -0!
' *&1@, !&/, !%J(%1, 5!4, (-1-<0U!

!

W!C.) 9D-: 5*U!. /10!&%(-0+(&, 0!&*!h0)1%1&!M(#0i!*%!h0)1%1&3(+1&#i!(0!5, 0@%1" , 5!"#!(!
-34" , %!*8!)%(@&1&1* - , %0!!. /, !%* *&!M*%5!(@(/Q!4, (-0B!h0*3+!*%!0)1%1&i!(-5!&/, !03881N!!!
S*M1-!01<-181, 0!(!0&(&, !*8!" , 1-<L!. /10!&, %4!%, 8+, @&0!&/, !" , +1, 8!&/ (&!4 (-#!, -&1&1, 0!1-!&/, !
-R/1#(M!M*%+5!/(J, !0*3+0!*%!0)1%1&0!D&!0!(!%, 41-5, %!&/ (&!M, !*3%0, +J, 0!(%, !0)1%1&0!
+1J1-<!(!/34 (-!, N10&, -@, !(-5!&/ (&!*3%!e*3%- , #0!@* -&1-3, !M/, -!M, !+, (J, !&/, !, (%&/+#!
)+(-, !!. /, !-R/1#(M!@*04 *+* <1@(+!" , +1, 80!(%*3-5!- (Q(&(0QRM1-!ht, (J1-<!&/, !, (%&/+#!
, N10&, -@, i!(-5!&/, !(8&, %!, (%&/

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W!" 59. 5D8(5D-DU!. /10!10!(!@* -@,)&!*8!/, (J, -!*%!&/, !&%(51&1* - (+!) +(@, !1-!&/, !-R/1#(M!
(8&, %+18, l^! /, !+1&, %(+!&%(-0+(&1* -!10B!h0(@%, 5!0Q#i!*%!h<%, (&!0Q#il!9, 3", -!` 31--!
", +1, J, 0!1&!/1-&0!(&!&/, !) *001" 1+1&#!*8!(!P/%10&1(-!1-8+3, -@, ![]), %0* - (+1-&, %J1, MB! = (#!
E^&/

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! _E
('1+1&1, 0!(%, !M/(&!)*% 4)&, 5!, (%+#!41001* - (%1, 0![-5!4 *0&!@* -&, 4) *%(%#!P/%10&1(-0\
&*!+(", +!-R/1#(M!0)1%1&3(+1&#!(0!M1&@/@%(8&!*%!h&/, !5, J1+i0!M*%Qli!>N) (-51-<!* -!&/, !

e35<4, -&0!*8!, (%+#!41001* - (%1, 0!9, 3", -!` 31--!0&(&, 0U!

! V, !515!- *&!/(J, !(b*5!J0!5, J1+!@* -@,)&!V, !/(5!(!) (%(51<4!@+*0, %!&*!+*J, !J0!
! 8, (%!/?3%!@+*0, 0&!@* -@,)&!&*!01-!10!) S0&(/*M1-B!M/1@/!, : 3(&, 0!&*!*16..) %'-5!
! #-)D*!07.7%)!![9!>` 31--B!), %0* - (+1-&, %J1, M! = (#!E^&B!EFGH\Z-!
!

. /, %, !(%, !)*%&*@*+0B!+(M0B!0*@1(+!4 *%, 0!(-5!@*04 *+* <1@(+!8%(4, M*%Q0!&/ (&!5, 81-, !&/, !

%3+, 0!(-5!+141&0!*8!4 (4 (/&SM10*M1-!D&!10!(!8+315!@* -@,)&!&/ (&!10!- *&!, (01+#!5, 81-, 5!!

. #)1@(+!*8!-R/1#(M!/341+1&#B!0* 4, *-, !M/*!10!" , 0&*M, 5!M1&!&/10!<1&![M/1+, !

@* -015, %, 5!)*M, %83+!(-5!%, J, %, 5\!10!1-8*%4 (+#!5, 0@%1" , 5!" #!&/, !)/%(0, B!QRQM(#!QS!

Q10Q1/&(B!M/1@/!&%(-0+(&, 0!014)#!(0B!h/, m0/, !M/*!Q- *M0!0* 4, &/1-<i!!

!

W!J): ;' -: 5*U!D!/(J, !(55, 5!&/10!14) *%&(-&!&, %4!" , @(30, !D!" , +1, J, !&/ (&!&!10!&* *!

14) *%&(-&!&*!, N@+35, !!! . %(-0+(&, 5!%* 3</+#!(0B!h0)1%1&!5%, (41-<!*%!5%, (4!)*M, %i2&/10!

)%(@&1@, !10!(- *&/, %!@*%- , %0&* - , !*8!-R/1#(M!0)1%1&3(+!18, !!. /, 0, !(%, !- *&!*%51- (%#!

5%, (40!" 3&!5%, (40!(-5!J10!8!0!8*% 4!&/, !)(MSQ(- (0B!&/, !h5%, (4!0)1%1&!/, +), %0i!

6(MS4 *M1-!10!(!)*%@, 00!&/ (&!@(-!&%(-0) *%&!5%, (4, %0!1-&*!(- *&/, %!514, -01* -! *8!

0)(@, !(-5!&14, !!. /, 0, !, N), %1, -@, 0!@(-!" , !0*!J1J15!&/ (&!5, &(1+, 5!1-0&%3@&1* -0B!

)%*&*@*+0!(-5!, J, -!, -&1%, !0* -<0!(%, !)(00, 5!* -!&*!&/, !5%, (4, %0!1-!03@/!(!M(#!&/ (&!

&/10!1-8*%4 (&1* -!10!%, 4, 4" , %, 5!3) * -!(M(Q, -1-<!V /, %, (0!&/, !0)1%1&0!Q- *M-!(0!

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<315, 0!6 (MS4 *M1-!10!* - , !*8!&/, !)%14 (%#!4, (-0!" #!M/1@/!4 (4 (/&SM10*M1-B!&/, !

03), %- (&3%(+0)1%1&3(+!) *M, %!5, 0@%1" , 5! (" *J, B!10!4 (-18, 0&, 5!!. /%* 3</!-R/1#(M!

QSQR014 *M1- (B

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! _H
", !/, %, !&*5 (#!i!. /10!0, -&14, -&!@* -&1-3, 0!&*!4 (-18, 0&!1-!4 (-#!-R/1# (M!@, %, 4 * -1, 0!
\$0!)% (@&1&1* -, %! = (%#!P (%51- (+gP* +1-0!5, 0@%1", 0!nV, !& (+Q!&*! *3%!(-@, 0&*%0!(-5!*3%!
5,) (%&, 5p![]), %0* - (+!1-&, %J1, M! = (#!E] &/!EFGH\! ?3%!-10&(4R4 (Q(- (Q!(%, !*8&, -!
J1, M, 5!(0!/ (J1-<!(!/1</, %!+, J, +!*8!&% (51&1* - (+M105* 4!Q- *M+, 5<, !(-5!0)1%1&3 (+!
(&&(1-4, -&!&/ (-!@3%%, -&!<, -, %(&1* -0!\$&/ *3</!&/, #!@(-!-, J, %!" , !) (MSQ(- (Q!h5%, (4!
0)1%1&!<3!5, 0!& &/, #!(%, !0&1+!Q- *M-!(0!(@ /QM(Q!h0)1%1&0!*%!0*3+0!M1&/!(-!"1+!&#!&*!
1-&, %(@&!M1&/!/34 (-0!8%* 4!5!0&(-&!)+(@, 0!1-!-R/1# (M!@*04 *+* <1@(+!-, &M*%Q!!. /10!
J1, M!@* -&% (0&0!M1&/!&/, !*+5, %!)%, J(+, -&!M, 0&, %-!(0034)&1* -!*8!(!4 *5, %-!
03), %1*%1&#![*8&, -!53, !&*!0@1, -&18!@(-5!&, @/- *+* <1@(+!(5J(-@, 4, -&\!(-5!(!5(%Q!
)%141&1J, !) (0&!!

!!! D-!&%(-0+(&1-<!-R/1# (M!0(@%, 5!@* -@,)&0!& &/, %, !(%, !(+M(#0!0* 4, !0+1</&!
51(+, @&1@(+!J (%1(&1* -0!&*!@* -0!5, %!\$0!&/, !)% , J1*30!03"0, @&1* -0!* -!J(+3, 0!(-5!
@*04 *+* <#!1-5!@(&, !-R/1# (M!&S)101- *M1-!@(-!" , !())%*(@/, 5!8%* 4!(!M15, !J (%1, &#!*8!
1-&, %, +(&, 5!(-<+, 0!\$@@*%51-<!&*!-R/1# (M!@*04 *+* <#!-R/1# (MRM1-!@* 4, 0!8%* 4!
Q1/@14 (-1&*M!(-5!8%* 4!&/, !0)1%1&!M*%+5!D&!M(0!&/, !+(-<3(<, !0) *Q, -!" #!Q10&R01-(M!
h*3%!, +5, %!"%&/, %i!MRO(/QR@(/Q!(-5!(+!*8!&/, !5, 1&1, 0!&/ (&!0/(), 5!&/, !@*+, @&1J, !
/10&*%1, 0!*8!(+!P%, , !6, *)+, 0!6, %/()0!&/10!0&%* -<!3-@* -0@1*30!+1-Q!&*!&/, !) (0&!0!M/ (&
9*0, !V (" (0@(!5, 0@%1", 0!M/, -!0/, !0& (&, 0!!

P%, , !+(-<3(<, !@* 4, 0!8%* 4!&/, !/, (%&!(-5!D!%, @* <-1T, !1&! (0!b*5g<1J, -!V/, -!D!
0), (Q!>-<+10/!1&!0, , 40!&*!* -+#!@* 4, !8%* 4!4#!4 *3&/!(-5!4#!" % (1-!D!/(J, !
4 *%, !8(1&/!(-5!" , +1, 8!1-!M/ (&!D!(4!0(#1-<!M/, -!Di4!0), (Q1-<!P%, , !! [9!
V (" (0@(!), %0* - (+!1-&, %J1, M!03-, !Z%5!EFGH\!
!

' R/1# (M!) /1+*0*) /1, 0!(%, !, 4" , 55, 5!1-!&/, !+(-<3(<, !1&0, +8!(-5!&/ (&!+(-<3(<, !<1J, 0!
-R/1# (MRM1-!0), (Q, %0!(!/* 4, !(!)+(@, !*8!" , +* -<1-<!(-5!(!)%*8*3-5!0, -0, !*8!15, -&1&#!!

!

! _X
. /10!10!M/ (&!(+*MO!&/, 4!&*!e*1-!1-!&/, !O&*%1, O!&, (@/1-<O!@, %, 4 * -1, 0!(-5!+(3</&, %!*8!
&/, !4RQ*M(/)!

" ; D8(5' -: 5*E!%9#!>/5&50!-1!7895\$): !J&)\$#&(!!

! = 3@/!*8!*3%Q-*M+, 5<, !M(O!*"&(1-, 5!8%* 4!@, %, 4 * -1, 0!(-5!@*--, @&1* -!&*!&/, !
! 0)1%1&!M*%+5!(O!M, ++!(O!8%* 4!5%, (4O!D&!M(O!M1&/!51%, @&!@* -&(@&!M1&!<3(%51(-!
! 0)1%1&O!J101*-O!5%, (4O!(-5!1-01</&O!53%1-<!@, %, 4 * -1, 0![=!P(%51-(+gP*++1-O!
!), %0* -(+!1-&, %J1, M! = (#!E] &/!EFGH\!

!
! . /, !8*%4 (+-R/1#(M!M(#O!*8!@, %, 4 * -1(+!)%(#, %!1-J*+J, !&/, !@* -@,)&O!

QSQR014 *M1-!(-5!4 (M14 k0@1QRM1-B!M/1@/!5188, %!01<-181@(-&#!8%* 4!M, 0&, %-!@* -@,)&O!

8!)%(#, %! = (%#!P(%51-(+gP++1-0!5, 0@%1", 0!" *&/!-R/1#(M!@* -@,)&O!(O!n", 0, , @/1-<!

(-5!(0Q1-<!8*%!)1&#

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8(&/, %!*8!30!(+i!(-5!*QR01Q*M(QB!M/1@/!5, 0@%1", 0!0)1%1&0!0141+(%!*!(-<, +0!6, %/()0!

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M1/Q(0Q* 4R0Q(-S0!h&/, !0M, , &g<%(00!&%(1+i!" , 1-<!(!&* 3</!5, 4 (-51-<!M(#!* 8!+18, !

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GFF

@* -@,)&!*8!M*%0/1)!8*%!1&!10!" (0, 5!* -!(!" , +1, 8!&/ (&!(@&1* -0!0), (Q!+* 35, %!&/ (-!M*%50!

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! GFG
-R/1#(MRM1-!&, %41-*+* < #!/ (0!" , , -!15, -&181, 5!0*!0&%* -<+#!" #!03@/!(!@%*00!0, @&1* -!*8!
, N), %1, -@, 5!)%(@&1&1* -, %0B!8(1&/gQ, ,), %0B!(-5!, 53@(&*%0B!(+!M/*!(%, !8+3, -&!0), (Q, %0!
! D-!(551&1* -!&*!0(@%, 5!&, %41-*+* < #B!&, %40!%, +(&, 5!&*!&/, !-R/1#(M!Q1-0/1)!
0#0&, 4!M, %, !(+0*!*8!0!<-181@(-&!@* -@, %-!&*!) (%&1@1) (-&0!7%*4!4#!*M-!, N), %1, -@, !D!
/(J, !(+0*!- *&1@, 5!&/(&!+(-5g" (0, 5!&, %40!%, +(&, 5!&*!+(-50@(), 0B!M, (&/, %!0#0&, 40B!
8+*%!(-5!8(3- (!(% , !8(+1-<!*3&!*8!30, !!V *%50!&/(&!4 (#!" , !8(+1-<!*3&!*8!30, !(% , !<*1-<!
&*!J(%#!8%*4!51(+, @&!&*!51(+, @&!(-5!%, <1* -!&*!%, <1* -!!. , %40!0), @181@!&*!&/, 0, !!"*(5!
5*4(1-0!@(- - *&! (+!" , !(55%, 00, 5!1-!&/!0!&/, 0!0!0*!D!/(J, !8*@30, 5!* -!&, %40!%, +(&, 5!&*!
-R/1#(M!&S)101- *M1-!\$+!*8!&/, !@, %, 4* -1(+(-5!@*04 *+* < 1@(+!&, %40!D!/(J, !&/30!8(%!
/1</+1</&, 5!1-!&/!0!&/, 0!0!(%, !) *&, -&1(+!#!8(+1-<!*3&!*8!30, !!

< -&+ (!F#((!>/-D#*!
?&/, %!@, %, 4* -1(+!@* -@,)&0!0), @181@(+!#!15, -&181, 5!"#!)%(@&1&1* -, %0!(0!" , 1-<!n(&g%10Qp!
1-@+35, !&/, !&, %40!(-5!)/%(0, 0!+10&, 5!" , +*M!D!(4!)*%J151-<!&/, !5, 81-1&1* -0!(0!
, N)+(1- , 5!"#!) (%&1@1) (-&0!(0!0*4 , !&, %40!(%, !-, M!&*!4, !!' *&1@, !&/, !4(-#!14)+1, 5!
4, (-1-<0U!
W!C*5(D; .U! I 0, 5!1-!@, %, 4* -1, 0!&*!1-51@(&, !(!%, +(&1* - (+!@* --, @&1* -B!&/!0!&, %4!10!
&%(-0+(&, 5!+*0, +#!"#! = (%#![=!P(%51-(+pP*+1-0B! = (#!E]&/B!EFGH\(-5!9, 3" , -![9!
`31--B! = (#!E^LEFGH\!(0B!h!83%&/, %4*%, i!*%!h83%&/, %!* -il!
W!" ; D5\$V5(5* ; D-90; 0U!. %(-0+(&, 5!"#!; *%*&/#![; !!. /3-5, %B! = (#!EY&/B!EFGH\!(0!h&/, !
", (3&#!*8!&/, !+(-5!(0!&/, !P%, (&*%)/(5!1-&, -5, 5il!' *&, U!&/, !&, %4!5*, 0!-*&!%, 8, %!&*!b*5!
"3&!14)+1, 0!1&!

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GFE

W!" ; D5\$V' 5\$5D): 5(5\$; U!! . %(-0+(& 5!" #!; **&/#![; !!. /3-5, %B! = (#!EY&/B!EFGH\!(0!

h&/(&!M/1@/!M(0!<1J, -!8%, , +#!&*!30!" #!&/, !P%, (&*%il!' *&, U!- *- , !*8!&/, !4 *%) /, 4, 0!

1-51@(& !b*5!" 3&!1&!10!@+, (%+#!14)+1, 5!1-!(!M(#!&/(&!8+3, -&!0), (Q, %0!M*3+5!

3-5, %0&(-5!

W!L0): 5*5D8: 5*U!. %(-0+(& 5!" #!; **&/#![; !!. /3-5, %B! = (#!EY&/B!EFGH\!(0!hb*5i0!

@%, (&1* -!(-5!*%5, %!*8!&/1-<0il!. /10!M*3+5!1-@+35, !&/, !- (&3%(++(M0!(-5!)*&*@*+0!

. /10!&, %4!5*, 0!- *&!%, 8, %!*#!b*5!" 3&!14)+1, 02(1)0. 2(4)) -1Tf1. 07138(!) (. 8D05. 24000. 24108. 120!

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GFZ

M, (%0!(!0/(M+i!" 3&!DiJ, !(+0*!/, (%5!1&!5, 0@%1", 5!(0!h(!M* 4 (-!1-!@/(%<, !*8!<(&/, %1-<!3)!

&/, !@/1+5%, -il!D&!10!*" J1*30+#!14) *%&(-&!&*!%, 0, (%@/!&/, !*%1<1-(+!4, (-1-<0!*8!&/, 0, !

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GF^

" , , -!, N) *0, 5!&*!-R/1#(M!*%(!/10&*&#!8*%!43@/!*8!/10!+18, B!%, 41-50!30!(" *3&!&/, !

14) (@&0!*8!@*+* -1T(&1* -U!

. /, !*+5!P%, , !J*@("3+(%#!30, 5!&*!" , !4(5, !3)!*8!())%*N14 (& , +#!^FFBFFF!M*%50!
"3&!53%1-<!@*+* -1T(&1* -!&/, %, !M(0!(-!14)+*01* -B!(-5!(&!&/, !0(4, !&14, !&/, !
>-<+10!/J*@("3+(%#!M(0!, N)+*51-<! [9!!` 31--B!), %0* - (!+1-&, %J1, MB! = (#!E^B!
EFGH\!

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! D!" , +1, J, !&/(&!&i0!14) *%&(-&!&*!%, 4, 4" , %!&/(&!@*+* -1T(&1* -!10!- *&!e30&!(!&/1-<!*8!&/, !

) (0&! "3&!@* -&1-3, 0!1-!&/, !8*%4!*8!@*+* -1(!&&1&35, 0!(-5!) *+1@1, 0!&/(&!, %*5, !

&% (5!&1* -(!+1-5!<, - *30!%1</&OL! ' R/1#(MRM1-!10!*3%! "1%&/%1</&!(-5!&!&/ (0!" , , -!

(00(3+&, 5!(-5!*88, %, 5!+1&&+, !%, @*3%0, !8*%!, @*J, %#!" #!&/, !<*J, %-4, -&!&/(&!5!5!&/, !

(00(3+&1-<!D&!10!3)!&*!30!(0!-R/1#(M!), *) , !&*!)%, 0, %J, B!)%*&, @&!(-5!%, J1&(+1T, !*3%!

4 *&/, %!&* -<3, !D&!10!14) *%&(-&!&*!5* @34, -&!&/, !83+!4, (-1-<!*8!Q, #!M*%50B!)/%(0, 0!

(-5!@* -@,)&0!0*!&/(&!M, !@(-!(+0*!" , &&, %!4(1-&(1-!*3!&% (5!&1* -0B!@, %, 4* -1, 0B!0&*%1, 0!

(-5!&, (@/1-<0!V1&/!4(-#!*8!*3%)%14(%#!, +5, %0!(-5!Q- *M+, 5<, !Q, ,), %0!- *M!<* - , !

(-5!*&/, %0!1-!&/, !+(&&, %!0&(<, 0!*8!&/, !%, (%&/+#!+1J, 0B!&/10!M*%Q!" , @*4, 0!, J, -!4 *%, !

3%<, -&!C(-<3(<, !@/(-<, !10!1-, J1&(" +, !"3&!M1&/ *3&!(!M1+1-<- , 00!&*!/*+5!* -&*!(-5!

%, J1&(+1T, !@, %&(1-!(0), @&0!*8!*3%! -R/1#(M!) (0&B!&/, !M(&, %1-<15 *M-! *8!*3%!&% (5!&1* -0!

M1+!@* -&1-3, !!!

! ! . /, !%, J1&(+1T(&1* -!*8!0(@%, 5!&, %40!(-5!@* -@,)&0!M*3+5!(+*M!3%" (-1&, 0B!#*3&/!

(-5!83&3%, !<, -, %(&1* -0!*8!-R/1#(M(Q!&*!(+0*!/(J, !1-01</&0!1-&*!&/, !J(0&!, N)(-0, !*8!

-R/1#(M!Q- *M+, 5<, !(-5!&% (5!&1* -0! . /, #!0/*3+5!" , !1-J1&, 5!1-&*!&/, !4RQ *M(/)!&*!

&(Q, !(!0, (&! " #!&/, !81%, !(-5!<, &!&*!Q- *M!*3%!, +5, %!"%*&/, %!MRO(/QR@(/Q! . /, #!&* *!

0/*3+5!" , !, -(" +, 5!&*!@*4)% , /, -5!&/, !&, (@/1-<!0&*%1, 0!0/(%, 5!1-!&/, !4RQ *M(/)!(-5!

)(&% (Q, !*8!&/, !J(+3(" +, !+, 00* -0!" R/1#(MRM1-!(-5!-R/1#(M!&S)101- *M1-!(%, !

1-&, %&M1-, 5!\$!5, ,), %!, N(41-(&1* -!*8!&/, !83+!4, (-1-<0!*8!0), @181@!-R/1#(MRM1-!

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GFY

M*%50!(-5!@* -@,)&0!/(0!%, J, (+, 5!&/10!1-&, %@* --, @&1* -!(-5!)%*J15, 5!1-01</&0!1-&*!&/, !

)%*8*3-5!- (&3%, !*8!-R/1#(M!&S)101- *M1-L!!

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GGG

$\sqrt{50!}(\%, !5, 0@%1) \&1J, !2^*!M/, -!M, !+, (\% -!P\%, , !M, !/(J, !\&^*!+, (\% -!&/, !P\%, , !M(\#!$
 $*8!&/1-Q1-<!(" *3&!&/1-<0! \$ -5!1&i0! - * \&! (+M(\#0!&/, !M(\#!M, !M, \%, !\&(3</\&! , J, -!" \#!$
 $8+3, -\&!0), (Q, \%0\!" 3&!1&!10!&/, !)\%*), \%M(\#![C, 0+1, !2Q1-- , \%B!1-\&, \%J1, M! = (\#!EY\!$
 EFGH\!

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$D\&!10!(+0^*!14) * \% \&(-\&! \&^*! \%, 4, 4", \%! \&/(\&! - * \&! (+!8+3, -\&!0), (Q, \%0!4 (Q, !<^* *5!+(-<3(<, !$

$\&, (@/, \%0!^* \&! \& \%(-0+(\&^* \%0!D-!8(@\&B! - * \&!^* -+\#15^*! \& \%(-0+(\&^* \%0!-, , 5! \&^*!" , !14 4, \%0, 5!1-!$

$-R/1\#(M!Q-^*M+, 5<, B! \&/, \#!(+0^*!-, , 5!(!81\%4!<\% (0)! *8!> -<+10/!+(-<3(<, !\&, \%40!(-5!$

$@^* -@,) \&0!D-\&, \%4, 51(\%1, 0!(\%, !0^* 4, \&14, 0!-, , 5, 5! \&^*!) \%*), \%+\#!1-\&, \%)\%, \&!(-!, +5, \%i0!$

$Q-^*M+, 5<, !(-5! \&/10!10!(!0), @1(+!T, 5!0Q1+!!$

$! \quad \$ - * \&/, \%!8(@\&^* \%! \&^*! @^* -015, \%!10! \&/(\&!4 (-\#! -R/1\#(M(Q!/(J, !\&^*!J(\% \#1-<!5, <\%, , 0!$

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GGE

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7895\$): !J&5*.5/4#(

GGZ

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GGH

)%(@&1@(+!%, g(00, %&1* -!*8! -R/1#(M!- (&1* -/* *5!8%* 4!&/, !<%*3-5!3)!D&!0&(%&0!M1&/!

+1J1-<!*3%!)%1-@!)+, 0!(-5!*3%!(M0!(0!(!8*3-5(&1* -!!. *!83+#!())%, @1(&, !&/, 0, !(-5!

&/, %!%, +(&, 5!@ -@,)&0!M, !4 30&!83+#!3-5, %0&(-5!&/, 1%!4, (-1-<0!

K#. -' ' #*+)05-*(!

Gl = *%, !M*%Q!10!-, , 5, 5!1-!%, 0, (%@/1-<!)%, g@*+* -1(+!-R/1#(M!" , +1, 80!@* -@,)&0!

(-5!0(@%, 5!&, %41-*+* <#!6%(@&1&1* -, %0!/(J, !(+%, (5#!15, -&181, 5!0*4, !*8!&/, 0, !

@* -@,)&0!1-!@/()&, %!8*3%!(0!h&, %40!&*!" , !83%&/, %!%, 0, (%@/, 5!i0*!&/, !0, , 50!

/ (J, !(+%, (5#!" , , -!)+(-&, 5!7%*4!(!+(-<3(<, !%, J1&(+1T(&1* -!), %0), @&1J, !1&!10!

14) *%&(-&!&*!15, -&18#!Q, #!M*%50!%, +(&, 5!&*!&/, 0, !&, (@/1-<0!(-5!8*@30!* -!&/, !

83+!&%(-0+(&1* -0!(-5!5, ,), %!4, (-1-<0!!. /10!1-8*%4 (&1* -!@(-!&/, -!" , !30, 5!&*!

)%* J15, !4 *%, !1-0!</&0!1-&*!-R/1#(M!&S)101-*M1-!(-5!@*04 *+* <#!M/1+, !

%, @+(141-<!(-5!5*@34, -&1-<!%, +(&, 5!&, %40!&/(&!4 (#!" , !8(+1-<!*3&!*8!30, !1-!!" , !-!!"/(J, !(,

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GGX

" , &M, , -!P/%10&1(-1&#!(-5!-R/1#(M!0(@%, 5!)%(@&1@, 0!" , !5, +!" , %(&, 5!3)!8* -&!&!
 . /!0!41-141T, 0!&/, !%10Q!*8!510@3001* -0!<, &&1-<!4 355+, 5!1-!&/, !4155+, !*8!(-#!
 @*+(" *%(&1J, !)%* @, 00!\$-#!%, 0, (%@/!@* -&%1" 3&*%!M1&/!(-!(5*)&, 5!8*%, 1<-!
 %, +1<1*30!)%(@&1@, !, 0), @1(++#!(!@*+* -1(+!*- , !03@/!(0!P/%10&1(-1&#!4 30&!" , !("+, !
 &*!&%(-0@, -5!&/, !%15, *+*<1@(+!"1(0, 0! . /, 0, !5188, %, -@, 0!/(J, !&*!" , !0(8, +#!
 5, +!" , %(&, 5!*%) 3&!(015, !8*%!&/, !0(Q, !*8!*3%<%, (&, %!@*+, @&1J, !&S)MRM1-!h&/, !
 &%3&/!1-!0*!8(%!(0!1&!4 (#!" , !Q- *M-il!

HL . /, !- , , 5!8*%1-&, %g51(+, @&1@(+510@3001* -0!@(- - *&!" , !*J, %!0&(&, 5!(-5!M1+!
 %, : 31%, !&/, !)%1-@1)+, !*8!4S4 (M1/Q(4S&*M1-lh)1&@/1-<!1-!&* <, &/, %1-!&/, !
 0)%1!&*8!&* <, &/, %- , 00il!V/1+, !&/, 0, !1-&, %g51(+, @&1@(+510@3001* -0!/()), -!
 1-8*%4 (+#!(4* -<!)%(@&1&1* - , %0!1&!10!&14, !&*!8*%4 (+1T, !&/!0!51(+* <3, !!
 9, @*J, %1-<!&/, !*%1<1- (+!-R/1#(M!0)1%1&3(+!%, (+1&1, 0!&*!&/, !" , 0&!*8!*3%!("1+!&1, 0!
 1-!&/, !8(@, !*8!*J, %M/, +41-<!/10&*%1@!(-5!@* -&, 4) *%(%#P/%10&1(-!1-8+3, -@, !
 (-5!4 *5, %-1T(&1* -!10!@%3@1(+! . /, !1-8*%4 (&1* -!(" *3&!&/, !@*3-&+, 00!
 @, %, 4* -1, 0!5, 1&1, 0!(-5!@*04 *+*<1@(+!8!<3%, 0!5, 0@%1" , 5!&/%*3</*3&!&/10!
 &/, 010!10!15, (+!8*%!510@3001* -!(-5!J, %1&1@(&1* -!M1&/!&% (5!&1* - (+!, +5, %0!(-5!8(1&/!
 Q, ,) , %0!8(41+1(%!M1&/!&/, !*+5!@, %, 4* -1, 0!6- (!8(41+1(%!M1&/!P/%10&1(-!14) (@&0!
 * -!-R/1#(MRM1-!!!!

XI . /(&!&/, !, N)+*%(&1* -!*8!M*%+5J1, MOB!" , +1, 80B!@*04 *+*<1, 0!(-5!&/, !
 S&(#*/QRM1-(!" , !, N) (-5, 5!&*!&/, !)"%*(5, %!\$+<* - : 31(-!+(-<3(<, !8(41+#!
 M/, %, !51(+* <3, !@(-!@, -&, %!* -!@*4) (%(&1J, !(- (#010!(-5!8!+1-<!1-!&/, !<)0!1-!
 Q- *M+, 5<, !. /, !@*4) (%10* -!*8!&/, !\$-10/1-((" , 4 *M1-!@* -@,)&!*8!
 b1@/14 (-1&*3!M1&/!&/, !-R/1#(MRM1-!@* -@,)&0!*8!Q1/@14 (-1&*M!*%!

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14) *%&(-&!&*!&/,!)%* @, 00B!(+!, -5, (J*%0!0/*3+5!" , !4 (5, !&*!1-@+35, !
 @* -&%1" 3&*%0!8%* 4!(!J(%1, &#!*8!51(+, @&0!1-(0!4 3@/!(0!&/(&!10!) *001" +, !I
 El \$-!*%<(-1T(&1* -!-, , 50!&*!" , !15, -&181, 5!&*!@%, (&!(!-, &M*%Q!*8!)%(@&1&1* -, %0!
 (-5!&*!@* %51- (&!(!0, %1, 0!*8!&(+Q0!(14, 5!(&!&/, !%, J1&(+1T(&1* -!*8!Q, #!&, %40!
 (-5!@* -@,)&0!+1Q, !&/, !* -, 0!510@300, 5!1-!&/10!&/, 010!D-J*+J, 4, -&!0/*3+5!" , !
 " (0, 5!* -!" (0, +1-, !@%1&, %1(!53%1-<!&/, !@%3@1(+!, (%+#!0&(<, 0!*8!&/10!)%* @, 00!
 6(%&1@1) (-&0!0/*3+5!(&!+, (0&!" , !8*%4, %!(-5!@3%%, -&!8+3, -&!)%(@&1&1* -, %0!M1&/!
 (-!("1+1&#!&*!M%1&, !1-!0#++("1@0!(-5!*%!29?!. /, !P%, , !C1&, %(@#!' , &M*%Q!*%!
 0141+(%!*%<(-1T(&1* -0!(%, !*)&1* -0!&*!@* -015, %!8*%!, 4 " (%Q1-<!* -!&/10!)%* @, 00!!!!

N*!, 4-(5*6!

! \$0!) *1-&, 5!* 3&11-!&/, !*) , -1-<!0&*%#B&/, !)%* @, 00, 0!(-5!%, 03+&0!0&, 4 41-<!8%* 4!
 (-!3-5, %&(Q1-<!&*!1-J, 0&1<(&, !@, %, 4 * -1(+(-5!@*04 *+* <1@(+!@* -@,)&0!(0!(M(#!&*!
 %, @+(14!(&q%10Q!Q- *M+, 5<, !M* 3+5!(+*M!@3%%, -&!(-5!83&3%, !<, -, %(&1* -0!*8!+(-<3(<, !
 +, (%-, %0!&*!<(1-!J(+3("+, !1-0!</&0!1-&*!(!4 (<1@(+!-R/1#(M!M*%+5!&/ (&!0* 4, !*8!30!M, %, !
 ("+, !&*!@(&@/!(!<+14)0, !*8!23@/!)%* @, 00, 0!M1+!" , -, 81&!, J, -!&/*0, !*8!30!M/*!(%, !
 (+%, (5#!("+, !&*!@* -J, %0, !1-!-R/1#(MRM1-!!. /10!10!" , @ (30, !*8!&M*!8(@&*%0!&/ (&!51%, @&+#!
 0&, 4!8%* 4!-R/1#(M!), 5(<* <#!(-5!&/, !&, (@/1-<0!*8!*3%!, +5, %0U!&/ (&!-R/1#(M!+, (%-1-<!
 -, J, %!, -50B!(-5!&/ (&!- * " *5#!@(-!(&&(1-!(-!("0*+3&, !+, J, +!*8!-R/1#(MRM1-!8+3, -@#!
 . /, %, !(% , !4 (-#!M/*!@(-!+, (5!&/, !M(#!" 3&!-R/1#(M!&S)101- *M1-!%, 41-50!30!&/ (&!M, !
 (% , !(+!+, (%-, %0!

! ; , 0)1&, !&/, !4 (-#!@*+* -1(+14) (@&0!

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b*3+, &B!a![EFF]\!\$-14 (&!(-5!-(-14(&,U!./,!P%,,!'/1-3M!J1,ML!D-!\$!W%*M-!
[>5\!W6.)%'63!1'*.#%')*P!O%#,)('5*!#0!6!4#%:*1#5!1)3(!6.!W6%'*,163!W7*)7+!
)!YgG_\!\$",%5,,-B!I aU!I -1J,%01&#!*8!\$",%5,,-!!

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b*3+, &B!a!B!d!b*3+, &B!C![EFGH\!"")6,1'-5!)6,1!#.1)%P!A)1'-74!,#-,)\$.*!6-(!
'-(5)-#7*!\$)(65#5')*!K(-@*3J,%U!I WP!6%,00!

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A(%&B!=\$!\$![EFFY\!|=%)!468*!#0!1)3\$'-5P!K-!-'(5)-'*.!%)*6%,1!\$%#(!,.\!I -)3"+10/,5!
; *@&*%(+!./,010>I -1J,%01&#!*8!=(-1&*"(!

!

A(%&B!=\$!\$![EFGF\!|D-5!<,-*30!M*%+5J1,MOB!Q-*M+,5<,!(5!%,0,(%@/U!./,!
5,J,+*)4,-&!*8!(-!D-5!<,-*30!%,0,(%@/!)%(5!<4!L!Z#7%-63!#0!9-(5)-#7*!
\#',)*!'-!M#, '63!C#%: 2G[G\B!GgG^!|

!

0*/-0&* -B!W!|[G_Y^\!R['@468!F)%'.65)!!. ** -&*B!?' U!=@P+,+(-5!(-5!2&,M(%&!

!

03-Q,%B! =B! =(@a,-T1,B! =B!d!W%1&&(1-B!O!|[EFGE\!|=#+\$6%6.'&)*.7%,.7%)*!#0!J6*!.!|=%)!
6-(!J-53'*1>9,&%1,J,5!8%*4!
[/;&&\)UmmMMMML,\(0&@%,.,L*%<m\)58mP%,.,}>-<+10/}2&%3@&3%,}EFGEL\)58!](#)

!

a*J(@/B!=\$!\$![EFF^\!|M)6%,1'-5!0#%!6%#41)6(*P!K-!-'-]7*8!'-.#!6\$%\$#6,1)*!.#!
'-(5)-#7*!%)*6%,1!7*'-5!6!.%@63!+).1#(#3#58!4'.1!6!-)1'864!
:*:)8'1.6+#4'-!4#%3(&')4>I -)3"+10/,5!L#,.#%63!L'**)%.6.'#->I -1J,%01&#!*8!
K1@&*%1(!!!!

!

C,@+(1%B!' B!d!P(%51-(+B!b!|[G_]!\!K3@)%6!)3()%**!|=%)!(',.#-6%8>54*-&* -

!

!

GEZ

C//#*+53!C!
XFL>>CKY!LH!!" 2Y!%2KA>!

!

! ; 3, !&*!&/, !+, -<&/!*8!&/10!&/, 010!&/, !8*+*M1-<!&, %40!5*!- *&!%,)%, 0, -&!, J, %#!
-R/1#(MRM1-!&, %4!30, 5!1-!&/10!&/, 010!!. /, !&%(-0+(&1* -0!(%, !(+0*!- *&!5, &(1+, 5!
", @ (30, !4 (-#!*8!&/, 0, !&, %40!/(J, !(+%, (5#!" , , -!5, 0@%1" , 5!1-!0), @181@!&/, 010!
@/()&, %0!!. /, !<+*00(%#!10!8*%!, (0#!%, 8, %, -@1-<!M/1+, !%, (51-<!&/10!5* @34, -&!D!
/(J, !(J*15, 5!&/, !30, !*8!+1-<3!0&1@!0&, 4!@+(00!@*5, 0!9, (5, %0!(%, !, -@*3%(<, 5!
&*!83%&/, %!1-J, 0&1<(&, !&/, !"*% (5, %!4, (-1-<0!*8!&/, 0, !&, %40!!

!!

) .) 9D!s!&/, !0*3+!*%!0)1%1&![0*4, &14, 0!0), ++, 5!(/@(/Q\!

) .) 9D5/#\$59D) *) D!s!-R/1#(M!0#++("1@0![&%(-0+(&, 0!+!&, %(+#!(0!0)1%1&!4 (%Q, %0\!

) .) 9D-' ; ' 50- *59.5D) *!s!0)1%1&!41-5![%, 8, %0!&*!0)1%1&3(+!@*4) *-, -&*8!&/, !41-5\!!!

) .) 9D-: 5*!s!0)1%1&3(+!&#!*%!0)1%1&!M(#0!

) 9D)' 8' -: 5*!s!(!@* -@, -&%(&, 5!8* @301-<!*8!&/, !41-5!

) D; ') (D59D!s&/, !+(-5!* -!&/, !*&/, %!0!5, !!5, 0@%1"1-<!+(-50!(@%*00!&/, !M(#\!

) D; : ; *!s04 *Q, /*30, !*%!5%#1-<!%(@Q0!30, 5!&*!04 *Q, !4, (&!

) (D59D; *!Z!%, 0, %J, !+(-5![+!&, %(+#!(!8(Q, !*%!03"0&1&3&, !+(-5!\$+0*!0, , !&1) S0QS-!*%!

10Q* -1Q(-\!!!

) (D590) D: ; : ! !"#\$\$%&!&'()\$#*''+!()!(, !-\$(%''!). \$!/0'O#0!0!). \$!\$*#). 2!()!(, !-\$(%''!0!1*%\$*#). 3

'(4\$!*55\$*#*%/\$2!()!(, !-\$(%''!0!1*!, 677\$#3'(4\$!*55\$*#*%/\$8

) (D5\$!sGl, (%&/j!+(-5j!5!%&B!0*1+j!+(-54(00j!&, %%1&*%#j!@*3-&%#j!@(-!" , !30, 5!&*!5, 0@%1" , !

&/, !M*%+5!(0!(!M/*+, !E!(!#, (%!

!9, 5(: \$#!&'!)\$#*''+!%\$)!7*4\$#8

) \$5' 89; : 5*!s!P/%10&1(-!)%(#, %!!

; /590): D-(5(; *!Z/(+8g0* -![30, 5!&*!%, 8, %!&*!(!= f&10!*%!(!h/(+8g"%, , 5i\!

; 0)\$-9D) *) D!s!0)1%1&!5, 1&1, 0!*8!-R/1#(M!@*04 *+* <#![(+0*!0, , !)(MSQ(- (Q\!

!

!

GEH

; 0)\$-9D8: 5*)!s!&/, !0(@%, 5!0&*%1, 0!(-5!+, <, -50!*8!@*04 *+* <1@(+5, 1&1, 0!303(++#!&*+5!

*-+#!1-!M1-&, %!

!

!

GEX

D59.5') *50-: !s!<%, (&!*%!0(@%, 5!0)1%1&j!(!" , -, J*+, -&!+18, !8*%@, U (!0)1%1&!&/(&!0(&!

("

!

! GE^
D5(D5*)9)' ; 0-: 5*!s!&/, !&, (@/1-<!*8!*-, !(-*&/, %!(14 *%, !1-@+301J, !(-5!@**), %(&1J, !
8*%4!*8!+, (%-1-<!&/(-!0&(-5(%5!V, 0&, %-!), 5(<*<#\!
D5(08(5*): !s!*3%!, +5, %!"%*&/, %![30, 5!&*!%, 8, %!&*!&/, !/, %*!(-5!5, 1&#!MRO(/QR@(/Q\!!
D505' ; D590): 5*; *!s!/(J, !)1&#!* -!30!
D505' ; D5\$5' 50-: 5*!s!)1&#!, 4) (&/#j!@* 4) (001* -!
D-9D-' !s!<%(-54 *&/, %!
').5') *50-: !s!(-!, J1+0)1%1&!
')')90; : 5(5!s!&*!/(J, !03), %- (&3%(+) *M, %!
')')90; : 5(50!s!0*4, *-, !10!" , 0&*M, 5!M1&/!0)1%1&3(+) *M, %!
')')90; : 8*5: !s!(!), %0* -!" , 0&*M, 5!M1&/!0)1%1&3(+) *M, %!
')')90; : !D8D:)\$!s!0*4, &/1-<!14" 3, 5!M1&/!0(@%, 5!0)1%1&!) *M, %!
')')59D: 8(8()D!s!+1&&+, !/(1%#!8(@, 0j!&/, !+1&&+, !), *)+, !5, 1&1, 0![]+3%(+!8!4 (41/QMROR\!
')*) ; .80-: 5*!s!4!1&1<(&1* -j!)%*&, @&1* -j!@* -0, %J (&1* -j!4, %@#![(+0*!0), ++, 5!(0!
4 (-S@1/&SM1-\!!
') *50-: !s!!(!0)1%1&!" , 1-<!*%!(!<*5j!(!0(@%, 5!) *M, %j!&/, !" (01@!4#0&, %1*30!: 3(+1&#!1-!
&/, !3-1J, %0, !
') (D): 5(8: 5*!s!0&&, -<&/![&/, !%* *&!4 (0Q!4 (#!" , !%, +(&, 5!&*!4 (0QM(/!&/, !&, %4!8*%!
", (%\!!
') (D8D): 8*-:)D!s!), *)+, !*8!&/, !4 30Q, <!
') (D:)V.) 9D!s!" , (%!0)1%1&!
') (D:)9!s!" , (%![Q-*M-!1-!0*4, !%, <1*-0!(0!MSQ(#k0!{@%* *Q, 5!&(1+|(-5!*&/, %!
5, 0@%1)&1J, !&, %40\!
')0-05(; *!s!0M, (&+*5<, !
!

!

'): 5' U(.5D8: 5*!s!(!@%#1-<!*3&j!(!/34"+,!" , 0, , @/4, -&!&*!&/, !/1</, %) *M, %0!(-5!
0)1%1&3(+!*%5, %!

' ; .8: 8* -: !s!* - , !M/*!/3-&0!

' ; ') (D; 0)' -: 5*!s!(!0&(& , !*8!M* -5, %j!(4 (T, 4, -&j!03%)%10, !

' ; '): 59D)' ; 0-: 5*g!"%1-<1-<!*- , !(- *&/, %!&* <, &/, %j!3-18#1-<j!e*1-1-<!8*%@, 0!

' ; ' 50- *59.5D) *!s!41-5!(-5!/, (%&B&/ *3</&!(-5!8, , +1-<!

' 5(0)9)\$V\$; /5: !s!(!Q1-<!" 3+!4 **0, j!(!<%(-5!" 3+!4 **0, !

' 5\$ - /5' ; 05(-: 5*!s!&/, !< **5!+18, j!+1J1-<!M, +j!" , 1-<!(+1J, !1-!(!< **5!M(#!

' 5\$ -V: 8.590-: 5*!s!&* <, &/, %- , 00j!<, &&1-<!(+* -<!1-!(!< **5!M(#!

!

! GE_
-D; : 8' ; :) (D5\$!Z!4 *&/, %!, (%&/![+1Q, #!(-!1-8%*53@, 5!&, %4!(0!510@300, 5!1-!@/()&, %!
&M*\!
-(D; /8: !s!(!#*3-<!@, %, 4*-1(+!())%, -&1@, !!
/)/5\$)905D8' -: 5*!s!(!0&, (5#B!: 31, &B!0+*MB!@(% , 83+!%, 0*+J, !
/)(D: ; : 8*-:)D!s!), *)+, !*8!&/, !)% (1%1, 0![(!&, %4!J(%1*30!""%(-@/, 0!*8!P%, , !30, !&*!
5188, %, -&1(&, !&/, !6+(1-0!P%, , \!!
/): ; D)*!s!5%, (4!0)1%1&!/, +), %![01-<3+(%!\!
/): ; D)*D!s!0)1%1&!/, +), %0j!5%, (4!/, +), %0j!1-&, %4, 51(%#!8*%@, 0!(@@, 001!"+, !&*!
/34(-0![])+3%(+*8!) (MSQ(-\!
/): ; ' -: 5*!s!0(@%, 5!0)1%1&!5%, (41-<!!
/; (0)(-: 5*!s!&/, !0@%())1-<!*8!&/, !1-- , %!@ (4"134!+(#, %!*8!#*3-<! (0), -0!(0!(!8**5!
0*3%@, !
/5' ; 05(-: 5*!s!+18, !1-!<, -, %(!" 3&!@(-!(+0*!4, (-!@3+&3%, !*%!(!0), @18!@!M(#!*8!+1J1-<!
/5\$)DV) (D5\$!s!*-, !+(-5!*%!*-, !, (%&/![30, 5!&*!5, 0@%1", !*-, !#, (%!*%!*-, !@#@+, !*8!&/, !
+(-5\!
/5\$5(-:)D!s!&/, !&/3-5, %, %0j!&/3-5, %"1%50j!&/3-5, %!" , 1-<0!
/5\$5(-:)D!8!D)9D50-:)D!s!&/, !&/3-5, %"1%50!(%, !@(+1-<!*3&!&*!*-, !(-*&/, %!
(D; : !s!8*%, 0&j!M**5+(-50!
(D; : 8*-:)D!s!), *)+, !*8!&/, !8*%, 0&0![(!&, %4!J(%1*30!""%(-@/, 0!*8!P%, , !30, !&*!
5188, %, -&1(&, !8*%, 0&!*%!\V**5+(-5!P%, , \!!
(; D80-: 5*!s!+*J, j!+*J, !8*%!*-, !(-*&/, %!
(59.5D8: 5*)!s!<, -, %(+#!M(#0!*8!5*1-<!&/1-<0!1-@+351-<!4, (-0!(-5!)*%@, 00, 0!

!

!

GZF

(590-(D; 0-: 5*!s!(!) 3+1-<!&* <, &/, %!1-!4 3&3(+!03)) *%&j!(!0&%, -<&/, -1-<!*8!* -, !

(- *&/, %!

(8/5*8: 5*!s!%, 01+1, -@, j!, -53%(-@, j!/(%51-, 00!

(-9D50898: 5*!s!J1<*%*30!/ , (%&, 5-, 00j!@*3%(<, !

!

