

# \$%&' %(!(%!))(\*+(,\$,!!  
-.- / 0(!-!1'2 / -!3(!2' / \$%&'!.4'2(\*'!3\$!)\*(\$.\*(\$!\$!5\$ / (++-2(!  
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6789:;:7!<7=>:!  
!! "#\$%&'(')\*\$)+(-. &'/.(\*\$0-. \$ " -I(/'\*.( \$2(+3)(&'(4(\$56/.2\*\$7\*89\$ "(2/+\*\$  
\$  
62'\*-3(%?!'1!4@-!778:!5'%1-2-%\*-%!(%!6\$+-2 / '!A:4\$+BCD!EF%-!GH!I!EF+B!GD!GJ"KL!)-\*4('%!  
<(4-2\$4F2-L!778:!M%+(%-!N'20(%?!6\$0-2.L!:) )=,!GPKRQPGKL!7++!2(?@4.!2-.-2S-3!TB!778:L!!  
!

2(1+-..('%(!.\$!3(!g-?--+!.\$!3(!U\$\*@4(%D!c!F%\$!%\$22\$&('%-!\*@-!4-%3-!\$!2\$\*\*'%4\$2-!+Z(%3(S(3F\$+!  
\*'%\*-%42\$%3'!(X.F+!+\$4'!. '??-44(S '!3-+!\$!0\$24(\*'+\$2(4[D!.F+\$!\*'%1-..('%-D!.F+Z(3('.(%\*2\$.(\$Y!'!  
X.F+!+\$4'!'??-44(S 'D!.F+\$! / '+4-0+(\*4[!3-+!\$!S(4\$!-.4-2('2-D!.F+\$!S\$2(-4[!3(!\*(h!\*@-!-.(.4-LY!:%!  
. '.4\$%&\$D! -!.'% '\$%\*'2\$! 0\$2'+-! 3(! # \$&&'%(D! (+ 2' / \$%&'! c! (+ ?-%-2-! \$442\$S-2.'!\*F(! 3\$! F%!  
3-4-2 / (%\$4'! / ' / -%4'D!VF-+!'!3-+!\$! / '3-2%(4[D!X.(!0Fh!2\$\*\*'%4\$2-!VF\$+.\$.(!.4'2(\$!%!VF\$+.\$.(!  
/ '3'Y!^GiR

-.02-..(S(D! 3\$! VF-++! 3-?+(! q\$SS '\*\$4'%Z! .(%'! \$! VF-++! 3-(! .-?%(! ^?- .4(D! - .02-..('%(! 1\$\*\*(\$+(D!  
O' .4F2-D r \_D! \*'3\*(! .0-.. '! (%! \* '%42\$.4'! 42\$! +'2'! \$+ / -% '! .(%'! \$+! / ' / -%4'! 3-++\$! X0\$&&(\$Y!  
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^\*12L!o\*'a! # \$%-44(L!!

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0(W! \*2-3-%4(,%\$ O. \* : -&&(\$ &O\*&(D! 2\$11(?F2\$%3'D! 42\$ / (4-! 3F-! \$%%(! 0\$24(\*'+\$2 / -%4-! - . - / O+\$2(D! +!  
\*' %42\$33(&('%(!3(!F%! .-\*'+! !. - ?%\$4'!3\$!X0\$. .('%(D)!\$%\$2\*@\$D)3(. '23(%-D!1'++(\$D)2(3(\*'+\$???(%Y k  
. -\*' %3'!+\$!3-1(%(&('%-!\*@-!%-!'112(SS!o2 / -.!

(+F.('%(!-!%'!\*'%'1(3\$!(%!'2?\$%(\*@-!\*-24-&&-!.4'2\*(.4(\*@-D)! / \$!02-3(.0'%-!.42F / -%4(!\$?F&&(!3!  
\$%\$+(.(!3(.(%\*\$%4\$4\$V!^



.0-.. '!\*'%! F%\$! X+(%?F\$Y! \*' .m! O(-%\$! 3(! X12-?(!) .S'+\$&&(0! \$-2--! .O(2\$(0! +\$T(2(%4(Y! 3\$! 2(.F+4\$2-!  
3(11(\*+-.! .-!% '%! (%\*' / O2-%.(T(+-\$(! O(WD! 1(%(. \*-! O-2! O-23-2-! 3(! S(.4\$! +-\$! 2\$?(' %(! -11-44(S-! \*@-!  
.O(%?'%'! ?+(!XF / (+Y!\$!\*' / / -44-2-!X1\$44(! '22-%3(!-!.\$%?F(%' .(Y!-D!%-+!\*' / / -44-2+(0!\$!3(S-%4\$2-!  
O-2h!X-2' (0! / \$24(2(!3ZF%!(3-\$+-D!3ZF%\$!1-3-!%' T(+-\$!-\$23-%4-DY!' ..(\$!(.4(4F(2-!F%'!.4\$4'!(%!\*F!(.(\$!  
.- / O2-! ?\$2\$%4(4'! X(+! 12F44'! 3-+! O2'O2('! +\$S'2'Y!!X1(Y)0.2(%!)-26.1(\*)0.2(FY)0.2S(!) -.2%(!)-313.(!)-2Y?\$ +

)\*(\$.\*(\$!-!5%'.'+'D!\$F4'2!(O(W!S'+4-!(%3(\*\$4!(3\$++!'!4-..!'5\$/((+-2(!\*' / -!( / O2-.\*(%3(T+(L! o!  
%'!O'42-TT-! / \$%\*\$2-!%-00F2-!#/2)+3/\$, ('/\$I\$ " / .( / ++/\$Y4.Z/!3-++\$! # \$2\$(%D!(%!\*F(!+\$.!\*-+4\$!  
3-+!) -44-\*-%4!'c!3-+!4F44'!1F%&(' %\$+-\$!\$+!\$S(\*-%3\$!3\$SS-2'!1F'2!(!3-+!\*' / F%-!3-++\$!X / F4'+\$Y!  
# \$2(\$%\$D!\*@-!.'+'!(!VF-+!.-\*'+'!2(!'2 / (.4\$!-!(+F / (%(.4\$!\$S2-TT-!O'4F4'D!O-2!VF\$%4'!\$!1\$4(\*\$!-!  
3'O'!F%\$!S(4!X\$. .F23\$Y!-!XS('+\$4\$YD!42'S\$2-!+\$!O2'02(\$!3(?%4[!-!(+!O2'02('!2(\*\$44'!3(!3%'%\$D!+\$!  
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p%ZF+4( / \$! \* '% .(3-2\$&(' %-L! u! -S(3-%4-! 3\$! VF- .4! .\*\$2%(! - . - / O(! VF\$%4'! +Z-2-3(4[! 3(!  
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O\$. \$4'!-!O2- .-%4-D!+\$!2(\*-2\*\$!3-+!XS-2'Y!\$442\$S-2. '!(+S-2' .( / (+-D!+Z(%4-202-4\$&(' %-!3-++\$!)4'2(\$!  
.( \$!3(!VF-++\$!3-+(!?2\$%3(!.( \$!3(!VF-++\$!3-+?+(!XF / (+D!+\$!3(\$+44(\*\$!42\$!?(F.4'!-!(%?(F.4'D!(!+4- / \$!  
/ '2\$+- k%' %!%-\*-. \$2(\$ / -%4-!2-+?( ' . ' k 2\$002- .-%4\$% '!(+!\*F'2-!3(!VF- .4\$! .\*2(44F2\$!\*\$O\$\*-!3(!  
2(\*'02(2-D! OF2! %-+-! -S(3-%4! 3(11-2-%&-! -! %-++Z(%-S(4\$T(+! \$ / / '3-2%\$ / -%4'D! (+) ?F.4'D!  
4(O(\*\$ / -%4-! / \$%&' %(\$% 'D!3-++\$!%22\$&(' %-L!  
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M6o9o!5:878o!

5\$ / ((+-2(D! 7%32-\$!A\* : /+C(\$&'\*. (4(\$-\$4(, (2(L! 7!\*F2\$!-!\*' %!F%!. \$??('!(%42'3F44(S'!3(!) \$+S\$4'2-!  
)(\$S% '!= (?2'!L!52'%'+'?(\$!3(!7%4'%'(!f2\$%\*@(L!# (+\$% ',!# '%3\$3'2(D!GJ JPL!

5\$2T' %-D!) )+\$S\$4'2-L! `2.O'D! 9-%\$4'! ^\$! \*F2\$! 3(D! #I%+4F(-&'/\$ &)22-\$ 4\*+I(C(+&(\$ &\*4(/2(\$ -I\$  
-4\*+\* : (4F-\$ I-22/\$ ! (4(2(/9\$ RSTUVRSTWL! 5' %! F%\$! (%42'3F&(' %-! 3(! <- 'O'+3'!) )\$%32(L!  
U'+?'%\$!5\$00-++(D!" j i j L!

5' % . '+'D! ] (%\*-%&'L!%2\$&\*.. (&\$I-22I(3+\*'\*\$ : /.(+/(!\*^" jKi\_L! # (+\$% ',!M.\*\$2! # '%3\$3'2(D!GJ"GL!  
o\*O-2 / \$%\$D!E' @%\$%!6-4-2L!6\*22\*K)(\$4\*+<\*- 'F-D!f(2-%&-!)\$% . '%(D!" j PKL!

o\*'D! p / T-24'L! #/\$ &'\*. (/ \$ I-\$%\$O. \* : -&&(\$ &O\*&(\$ /44\*+' / / \$ I/\$ Y : M-. '\*\$ J4\*! 8'2(% ',!) \*F'+\$!  
g'+3-%a!9' / \$,!<\$!U(T+'4-\*\$!3(19-OFTT+(\*\$R<Zo.O2-.. 'D!GJ"JL!

f2\$%\*@-44(D! <- 'O'+3'L! @\*2('4/\$-\$ : /; /(\$ (+\$ ! (4(2(/\$ 32(\$ (+-I(' \$ I-2\$ RSTWL! 7! \*F2\$! -! \*' %! F%\$!  
(%42'3F&(' %-!3(!7%4'%'(!E\$%\$&&'L!=\$O'+(!U(T+'O'+(D!" j j QL!

# \$%-44(D! ` ( '\$S%\$(!^\$!\*F2\$!3(L\$#-33-..-\$(\$@. \* : -&&(\$ &O\*&(\$ /\$ / + / 2(&(\$&- : (\*'(4F-\$ I(\$ Y : M-. '\*\$ J4\*9\$  
<(\*, / + + \$O-+4(\*+9\$ " / . (/ \$ 6\* . '\$- '\$/2(L! # (+\$% ',!U' / O(\$%D!" j H j L!

<FO1\* .D! ` Bz2?BL! %2\$ . \* : /+C\*\$ &'\*. (4\*!^" j QK\_L! : %42'3F&(' %-! 3(! 5- . \$2-! 5\$. - .L! 82\$3F&(' %-! 3(!  
o2\$+3'!72%\$F3L!8'2(% ',!o(%\$F3(D!" j i Q^L!

# \$%&' % (D! 7+-.. \$%32'L! %\$ O. \* : -&&(\$ &O\*&(\$ !'\*. (/ \$ I-22/\$ 4\*2\*+ / \$ (+; / : -L! : %42'3F&(' %-! 3(!  
)\$+S\$4'2-!)+\$S% '!= (?2'!L!8'2(% ',!o(%\$F3(!8\$.\*\$T+(D!GJ"GL!

# \$2\$(%D!>\$\*(L!#/\$2)+3/\$, ('/\$I\$ " / .( / ++/\$Y4. \ / !^" j j J\_L! # (+\$% ',!9(&&' +D!GJ"nL!  
# \$&&' % (D! ` F(3'!L!E-\* . (/ \$ I-2\$. \* : /+C\*!U'+?'%\$,!(+! # F+(% '!)\$??(D!GJ""L!

)\*(\$.\*(\$D! <- '%\$23'!L! X7SS-24-%&\$Y! : %! #-\$O / . . \*44F(-\$ I(\$ A-3/2O-' / B\$ " \* . '-\$ I-22I(+K)(&(' \* . -!  
^" j i K\_L!US2(!<\$4-2&\$D!" j KQ^L!

RRRRRL!%2\$6\*+&(32(\*\$I I J 3(' '\*!^" j i n\_L! # (+\$% ',!73-+O(D!GJ J j L!  
RRRRRL!#/\$&' . -3/\$-\$2\$6/O(' +\*!^" j Hi\_L! # (+\$% ',!73-+O(D!GJ"PD!o3(&(' %-!3(?4\$+-L!

8-++(%D! ` (% 'L! " / +C\*+(D!9' / \$,!) \$+-2%'!o3(42(\*-D!GJ JKL!  
RRRRRL!'\*. (/ \$ I-2\$. \* : /+C\*\$ ('/2(/+\*!f(2-%&-;!<-! # '%%(-2D!GJ"KD!o3(&(' %-!3(?4\$+-L!

8' / \$. (!3(!<\$ / O-3F.\$D! ` (F. -00-L!%2\$ < / '\*O / . I\*!^" j QH\_L! =F'S\$! -3(&(' %-!2(S-3F4\$! \$! \*F2\$! 3(!  
` ('\$\*\*@(% ' !<\$%&\$!8' / \$. (L! # (+\$% ',!f-+42(%-++(D!GJ J K^H^L!

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