

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

!<br>"#\$%#&'!"#(!!"\$%\*!+',-.)&%!-) &%/!#<br>!

01&2)&3\$!4%.3(3)3\$!'!5!6(%/).(3(7.\*!8&3('!%&9!:&(&%;&!<%(=\$1.(3>!<sup>#</sup>  
8\$)1'?('9'/>!&2!"'/'/3(=\$!@7(\$%7\$!"\$%3\$!\*!8&3('!%&9!:&(&%;&!<%(=\$1.(3>!<sup>\$</sup>  
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**! " # \$ % ! & \$ '**

: & ( ; & % ! A & % 2 & 1 ( % ! ' 7 ' % 3 ! & . 3 . ! 3 # 1 \$ \$ ! # ( / # ! = ' ; \$ 9 . ! ; ( 3 # !  
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 B C > D ! & % 2 ! C ! D ! ? \$ ( % / ! 1 ' ) % 2 \$ 2 E F ! 4 % ! G & 1 3 ( 7 ) 9 & 1 \* 1 3 # \$ ! C ! ' ) % 2 D !  
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='';\$9!.!&1\$!2(.(3(%/)(.(\$2!51'H!\$&7#!'3#\$1!'%!3; '!  
2(H\$\$.('%.!51'%3\$\$.!&%2!1')%2\$2\$..F!;#\$.!\$!3;  
2(H\$\$.('%.!&1\$!&.. '7(&3\$2!; (3#!3; '!2(.(3(%73(=\$!  
5\$&3)1\$.\*!C?&7OD!&%2!C1')%2D\*!(%!G#'% '9' />13\$1HF!;#\$.!  
#(/#!51'%3!='';\$9!C(D!(.!&..(/%\$2!; (3#!CP?&7OD!&%2!  
CP1')%2D\*!C>D!(.!&.. '7(&3\$2!; (3#!CP?&7OD!)?)3!CQ1')%2D\*!  
&%2!C)D!(.!CQ?&7OD!&%2!CQ1')%2DF! I (3#!3#\$.!5\$&3)1\$!  
&..(/%H\$%3.\*!3!(.!) /\$.3\$2!3#&3!')%2.!; (3#13#\$.&H\$!  
5\$&3)1\$!=&9)\$!.#&1\$13#\$.&H\$!&13(7)9&3'1>!/.\$3)1\$.F!R'1!  
\$J&HG9\$\*!C>D!&%2!C)D!&1\$!?'3#!&..(/%\$2!; (3#!&!G'.'.3(=\$!  
=&9)\$!5'1!3#\$.!C1')%2D!5\$&3)1\$!(HG>(%/!3#&3!3#\$.!  
1')%2\$2\$..!5'1!3#\$.!\$!3; '!.'')%2.!(!!\$\$)=( '7&9F!  
-';\$=-\$!; #3\$3\$1!'1!% '3!3#\$.!\$!3; '!.'')%2.!&1\$!  
(2\$%3(7&9! (%!3\$1H.! '5!3#\$(1!9(G!G'3)1\$!.(!!% '3!  
2\$3\$1H(%\$2!'1!.G\$7(5(\$2! ?>!3#\$.!&..(/%H\$%3! '5!3#\$(1!  
5\$&3)1\$! =&9)\$..F!;#\$.!QTP! =&9)\$!.! '9>!G1'=(2\$!  
2(7# '3'H(7!7&3\$/1(\$.!?3;\$ \$%!.')%2.2.U!3#\$(1!&99!'1!  
% '3#(%/\*!&%2!% '3#(%/!(%!?3;\$ \$%F! "#&%7\$!.!&1\$3#\$.!

2\$/1\$\$!2(55\$1\$7\$.!;(3#!1\$/&12.!3'!3#5!1')%2\$2\$\$.!(.!% '3!5)99>!1\$=\$&9\$2F!

4%!(.22(3('%'!3#\$(C1')%)2D!5\$&3)1\$!(.!\$.)93\$2!5! 'H!  
3; '! &13(7)9&3'1>! /\$.3)1\$.L! 9(G! 1')%2%/! &%2! 9(G!  
G1'31).('F! I #9(13#\$.\$!3; '!&13(7)9&3'1>!/\$.3)1\$.!7&%!  
?\$(%2\$G\$%2\$%39>! 7'%3! '99\$2\*! 3#\$( 7', '77)11\$%7\$!  
?3\$; \$\$%! 3#H! &1\$! 5&1! 51'H! )%7'HH'%\*! ; #7#(7'  
7'%.\$S)\$%39>! 9\$&2..! 3'! 3#\$( (%3\$1G1\$3&3('%! 3#&3! 3#\$(  
C1')%)2D!5\$&3)1\$!(.!3#\$(7' H'?(%&3('%! '5!9(G!1')%2%/!&%2!  
9(G!G1'31).('F!K%13#\$( '3#\$(1#&%2\*13#\$(#(/#51'%3! =' ; \$9!  
C(D!(. !&..(/%2\$! ; (3#!&1%\$/&3(=\$! =&9)\$5! '1!3#\$(C1')%)2D!  
5\$&3)1\$F! :#\$( 7'%%%'3&3('%! '5! CP1')%)2D!(. !&.. '7(&3\$2!  
; (3#9(G.!% '3!?\$(%/!1')%)2\$2F! - ' ; 13#9!(G.!&1\$!&73)&99>!  
G'.3)1\$2!(. !% '3! .G\$7(5(\$2U!3#\$(9(G.!7&%! ?\$!1\$9&J\$2!B&.!  
(%!CVD\$\*! ; (2\$! 'G\$%!B&.!(%!C&DE\$\*! '1!?(9&3\$1&99>1G)99\$2!B&.!  
%!(C(DE\$\*!\$37F!4%!&! '2! &2\$1! .\$.%.\$\*!3#\$(CP1')%)2D!5\$&3)1\$!  
5&(9..! 3'! 7&G3)1\$! 3#\$( 5&73! 3#&3! 3#\$( 9(G.!&1\$! G)99\$2!  
?(9&3\$1&99>5! '1!C(D!.)7#!3#&3!3#\$(9(G!G'.3)1\$!5! '1!C(D!(.!  
.)//\$.3\$2!3'! ?\$!7' HG&1&?9\$!3'!3#\$.!5! '1!C&D!&%2!CVD!  
.(%7\$!3#\$(>!&1\$!&99!&..(/%2\$! ; (3#!3#\$(. &H\$(CP1')%)2D!  
5\$&3)1\$F! W..! )7#\*! 3#\$( C1')%)2D! 5\$&3)1\$! &GG\$&1..! 3'!  
G1'=(2\$!1&3#\$(1!.(HG9(.3(7! (%3\$1G1\$3&3('%!.'5! 3#\$( 9(G!  
G'.3)1\$.!5! '13#\$(.\$!#(/#! =' ; \$9.F! I ##3#\$(1! '11% '3!.)?39\$!  
2(55\$1\$7\$!.! 7&%! ?\$! &13(7)9&3'1(9>! &7#(=\$2! 3'!  
2(.3(%/)(.#! 3#\$(.\$! #(/#! =' ; \$9.! 51'H! '%!&! &% '3#\$(1!  
1\$H&(%!. )%&%. ; \$1\$2F! +#%'9'/(7&9! 5\$&3)1\$!  
&..(/%H\$%3. !H&>! '3!?\$!&?9\$!3'!5)99>17#&1&73\$1(X\$!#';!  
3#\$(9(G.! '5! A&%2&1(%!#(/#! =' ; \$9.!&1\$!&13(7)9&3'1(9>!  
G'.3)1\$2F!

I (3#! 1\$/&12.! 3'! 9(G! 1) )%2(/\*! G1'31).('!%&2!  
 =13(7&9!7' HG1\$..('!&!\$13#\$3; '!7'HH'%!G&1&H\$3\$1!  
 3'! S)&%3(5>! #' ;'! 9&?(&9! .' )%2.! &1\$! G1'2)7\$2! '1!  
 &7S)(1\$2!CM\*!YDF! :#\$.\$3; '!G&1&H\$3\$1.\*!#'; \$=\$1\*!'%9>!  
 7#&1&73\$1(X\$! 3; '! 2(H\$%.( '.\*! %&H\$9>! =13(7&9! &%2!  
 2\$G3#!' )3! '5!&1MZ!.G&7\$F! :# \$#! '1(X'%3&9! (%5' 1H&3('!\*!  
 3#&3!(.'!#'; !9(G.1&1\$9&3\$1&99>!.G1\$&2!&%2!3#\$!&G\$13)1\$!  
 &1\$&1\$%79'. \$2!>?>3#\$!=13(7&9!&%2!9&3\$1&9!&J\$.!% '3!'%9>!  
 G1'=(2\$!&HG9\$!=(.)&9!7)\$\$.!?' )3!&9.'!7'3!3!(?)3\$13'!3#3\$!  
 /\$%\$1&3\$2!&7' ).3(7.F!A' 1\$!71)7(&99>\*!9&?(&9!.' )%2!.!2'!  
 %'3! &9; &>.! #&=\$! 3#\$! .&H\$! 2\$/1\$\$.! '1! 3>G\$!.! '5!  
 1' )%2(/F! " &35'!2! C[D! (2\$%3(5(\$2! 3; '! 3>G\$!.! '5!  
 1' )%2(/L!\$%2'9&?(&9!B\$F/F\*!C)D! '1!C!DE!&%2!\$J'9&?(&9!  
 B\$F/F\*!C>D! '1!C!DEU!#5\$!5' 1H\$1!1\$5\$1.!3'!3#\$!1' )%2(/! '5!  
 3#\$!(%\$1!7(179\$! '5!3#\$!9(G.!&%2!3#\$!9!&33\$1!(.!&.. '7(&3\$2!  
 ; (3#!3#\$! ' )3\$1!1' )%2(/! '5!3#\$!9(G.F! ] %2'9&?(&9!&%2!  
 \$J'9&?(&9!.' )%2!.!7'3!3!&3!\$7#! '3#\$1!(%13; '!&..G\$73.F!  
 R(1.3\*!\$%2'9&?(&9!.' )%2!.!G)99!3#\$!7'1%\$1!.! '5!3#\$!H' )3#!  
 79'\$. \$! 3' /\$3#\$1! :#\$1\$&.! \$J'9&?(&9!.' )%2!.! 2'! %'3F!

@\$7' %2\*!\$%2'9&?(&9!.' )%2.!&1\$!). )&99>!&77' HG&%( \$2!  
?>'?'=( ' ).!9(G!G1'31).(' %! ; # \$1\$&. !3#\$!2\$/1\$!\$ '5!9(G!  
G1'31).(' %!(.IH'1\$!1\$.31&%( \$2!5'1!\$J'9&?(&9!.' )%2!.C^DF!!  
I #9\$! C(D! \_! C>D! 2(55\$1\$%3(&3(' %! (%! A&%2&1(%! (.!  
&1/ )\$2!3'!9(\$!(!=1\$3(7&9!2(.3&%7\$!?\$3 ; \$ \$%!3#\$!9(G!.C^D\*!  
; # \$3#\$!1!3#\$!9&3\$1&9!2(.3&%7\$!B3#\$!2(.3&%7\$!?\$3 ; \$ \$%!3#\$!  
7'1%\$1.! '5! 3#\$! H' )3#E! H>.! &9.'! G9>.! &! 1'9\$! (%!  
2(55\$1\$%3(&3(%!/#!/#!=' ; \$9.!&GG\$&1.! )%& . ; \$1\$2F!!  
: # \$7!)11\$%3!3)2>!J&H(%\$!.!(5!3#\$!1\$!(. !&%>!G' .3)1&9!  
2(55\$1\$%7\$!&H' %/!3#\$!#(/#!=' ; \$9.!(%! A&%2&1(%!&%2!  
; # \$3#\$! '1! %'3! 3#\$\$. \$! . )?39\$! 2(55\$1\$%7\$!.! &1\$!  
7' %.(.3\$%39>!1\$&9(X\$2!(%!G1'2)73(' %F!

**7! 8 9 \$ : 4 5 #'**

**!"#\$%&'()\*+&,-(**

](/#3\$%\$!%&3(=\$!..G\$&O\$1.! '5! : &( ; &%! A&%2&1(%!Ba!R\*!  
H\$&%! &/ \$! b! [MfCce! G&13(7(G&3\$2!(%! 3#\$! \$JG\$1(H\$%3F!  
8' % \$! '5! 3#\$H! 1\$G'13\$2! &%>! &)2(3'1>! '1! =(.)&9!  
2(.&?9(3(.F! : # \$! .3)2>! ; &.!7' %2)73\$2!(%!&77'12&%7\$!  
; (3#!\$3(7&9!/)2(9(%\$!.!&GG1'=\$2!>!d d d!<%(=\$1.(3>F!  
W99! G&13(7(G&3\$! ; \$1\$! 7' HG\$%.&3\$2! H' %\$3&1(9>! 5'1!  
3#\$!(13(H\$F!

**!"!\$. ++&'&(/-\$**

W%!(+&2!+1'!B[e[^!^!Fa!(%7#E! ; &.!.\$3!)G!(%!51' %3! '5!  
G&13(7(G&3\$.!B&3!&!2(.3&%7\$!'5!&GG1'J(H&3\$9>!eFNHE13'!  
7&G3)1\$!3#\$!(1!9(G!H'=\$H\$%3!.!&%2\*!&3!Me!5G.!(%!cO!  
1\$. '9)3(' %F!R' )1!H\$93(%!/?\$&2.! ; \$1\$!&33&7#\$2!3'!3#\$!  
5'99' ; (%!/'9'7&3(' %!.L!3#\$!% ' . \$\*!3#\$!7\$%3\$1! '5!3#\$!)GG\$!  
=\$1H(99(' %! ?' )%2&1>\*! 3#\$! 7\$%3\$1! '5! 3#\$! 9' ; \$1!  
=\$1H(99(' %! ?' )%2&1>\*! &%2! 3#\$! 1(/#3! 7'1%\$1! '5! 3#\$!  
H' )3#!BR(/)1\$!^EF! : # \$\$. \$! ?\$&2.! ; \$1\$!G' .(3(' %2!(%!  
'12\$!13'!7&97)9&3\$!3#\$!9(G!G1'31).(' %!&%2!9(G!&G13)1\$F!  
W! H(11'1! B^! f! NFN! (%7#E! ; &.! G9&7\$2! ?\$#(%2! 3#\$!  
G&13(7(G&3\$.!&3!cNg! '55!3#\$!H(29(%\$!. '13#&3!3#\$!H\$93(%!  
?\$&2.! 7&%! ?\$! 7&G3)1\$2! ?>! 3#\$! 7&H\$1! &%2!  
H\$&.)1\$H\$%3! '5!9(G!&G13)1\$!&%2!G1'31).(' %!&%2! ?\$!  
S)&%3(5(\$2F!

**0)1/ '2\$#7/ 8 %09#0/ : ; %! # < # \$ % = / & 0 \* " # / ? ( % \$ \* ' > ' ! % \* ' & \$ / < ; : /**  
**: 0 & \* 0 (= ' & \$ % / \$ , / % : # 0 \* ( 0 # / @ ; # > \* A . / % \$ , / 8 # , ' % B ' : # ; % \$ , < 0 9 = /**  
**& \$ / \* " # ; : ' : = / @ 0 ' C " \* A /**

**!"3\$4( 5 /6)& , 7\$+ '8\*27 / '2-\$**

"1(3(7&9!3(H)9(7' %.(.3\$2! '5!3#\$!3#\$1\$!#(/#!=' ; \$9.!(%!  
: &( ; &%! A&%2&1(%!B(F\$F! C(D\*! C>D\*! &%2!)C)DE\*! G1'2)7\$2!  
?'3#1(%!(. '9&3(' %!B(F\$F!H' % ' .>99&?(7E!&%2!H?22\$2!(%!  
2(.>99&?(7! ; '12.!A' % ' .>99&?(7! ; '12.! ; \$1\$!H&37#\$2!

; (3#! &! #(/#!9\$=\$9!3' % \$! B : ' % \$! ^EL! C(^D! Bh! / "#iE\*! C)^D!  
Bh\$!/%&#iE\*! &%2! C>^D! Bh' % (iEF! Z(.>99&?(7! ; '12.!&99!  
7&11(\$2!&9' ; ,2(GG(%!/'3' % \$! B : ' % \$! ME\*!5'99' ; (%!/'3#\$!  
.&H\$!&2\$73(=\$! ; (3#!&15&99%/!3' % \$! B : ' % \$! cEL!C3&c!(MD\*!  
Bh)\*+ , - ".iE\*!C3&c! )MD! Bh\*/. \$0+I - (#1 , \* , 2!33#++#iE\*!&%2!  
C3&c!>MD\*!Bh\$#-45,I - \* "iEF! : # \$!\$JG\$1(H\$%3! ; &.!2\$.(/%2!  
&.!&!. \$95,G&7\$2!1\$&2(%!/'3&.OF!J&7#! ; '12! ; &.!G1\$. \$%3\$2!  
=(&!A(71' . '53!+ ' ; \$1+ '(%3! ; (3#!3\$%1!\$G\$3(3(' % .!\$&7#F!

**!"9\$ : 2&- / '252,(-& , 7\$7&(&\$& , &6;-2-**

R&7\$! 2\$3\$73(' %! &%2! 31&70(%!/'! ; \$1\$! G\$15'1H\$2! ?>!  
A\$2(&+(G\$! R&7\$! A\$.#! BG' ; \$1\$2! ?>! O' ' /9\$!  
#3G.LTT/ ' ' /9\$F/(3#) ?F('TH\$2(&G(G\$T. '9)3(' % .T5&7\$K H  
\$.#F#3H9EF! A\$2(&+(G\$! R&7\$! A\$.#! G1'=(2\$.! MZ!  
(%5'1H&3(' %! '5! 3#\$! c1Y! 9&%2H&10.! ' %! 3#\$! 5&7\$\*!  
(%79)2(%!/'3#\$!7'1%\$1.! '5!3#\$!H' )3#1&%2!3#\$!=\$1H(99(' %!  
'?12\$1.! '5! 3#\$! )GG\$! &%2! 9' ; \$1! 9(G.F! I (3#! 3#\$\$. \$!  
9&%2H&10.\*15' )!H\$&.)1\$H\$%3.! ; \$1\$!7' %2)73\$2L!

^F! 6- .#1-3, (\*&.- "2#L!3#\$!2(.3&%7\$!?\$3 ; \$ \$%!3#\$!3 ; '!  
7'1%\$1.! '5!3#\$!!(%\$!1!9(G!?'12\$1.F!

[F! 7#L.\*2-3, (\*&.- "2#L! 3#\$! H&J(H)H! 2(.3&%7\$!  
?\$3 ; \$ \$%!3#\$!)GG\$1!&%2!9' ; \$1!9(G.F!

MF! 89\*-3,I.- \*!L!3#\$!1&3('!?\$3 ; \$ \$%!9&3\$1&9!B%)H\$1&3' IE!  
&%2!=\$13(7&9!B2\$% 'H(%&3' IE!2(.3&%7\$.\*!H\$&.)1\$2!  
51' H!3#\$!!(%\$!1!9(G!?'12\$1.F!

cF! 8: #1.%1# , -1#-L!3#\$!&1\$&1\$%79' . \$2! ?>!3#\$!B(%\$!1E!  
9(G!?'12\$1.F!

: # \$! 2\$/1\$! '5!9(G!G1'31).(' %! ; &.!S)&%3(5(\$2! ?>!  
)?31&73(%!/'3#\$!G' .(3(' %! '5! 3#\$! % ' . \$! 51' H! 3#\$! 9(G.F!

I (3#! 3#\$! 1\$9&3(=\$! G' .(3(' %! .! '5! 3#\$! H\$93(%!/?\$&2.\*!  
&% '3#\$!13 ; ' !H\$&.)1\$H\$%3.! ; \$1\$!G\$15'1H\$2L!

NF! ; : : #1, 3\* , : !/!.1%&\*! "L! 3#\$! 1\$9&3(=\$! G' .(3(' %!  
?\$3 ; \$ \$%!3#\$!)GG\$1!9(G!&%2!% ' . \$F!

1F! 6!<#1, 3\* , : !/!.1%&\*! "L! 3#\$! 1\$9&3(=\$! G' .(3(' %!  
?\$3 ; \$ \$%!3#\$!9' ; \$1!9(G!&%2!% ' . \$F!

: '17#&1&73\$1(X\$!3#\$! '\$=\$1&99!9(G!G' .3)1\$.\*!=\$" # ' -.\*2,  
&.\*"/" #&&! '5!3#\$!9(G.! ; &.!&9. ' !7&97)9&3\$2!5'99' ; (%!/'Cc\*!

1DF! A)93(G9\$! A\$2(&+(G\$!9&%2H&10.!5'1!3#\$!)GG\$1!&%2!  
9' ; \$1! 9(G.! ; \$1\$! . \$9\$73\$2! 5'1! 3#\$! S)&%3(5(7&3(' %! '5!  
.3(55\$\$. .F! : ' ! =(.)&9(X\$! 3#\$! 2(55\$1\$%7\$!.! '5! .3(55\$\$. .!  
?\$3 ; \$ \$%!3#\$!9(G!7\$%3\$1!&%2!7'1%\$1.\*!2&3& ; \$1\$!5(33\$2!  
3#1' ) /#! 3#\$! O\$%\$1&9(X\$2! W22(3(=\$! A(J\$2! A'2\$9.!

BOWA A.\*!CaDEF!!!

W99! H\$&.)1\$H\$%3.! ; \$1\$!3#\$%!. )?H(33\$2!3'1!9(%\$&1!  
H(J\$2! H'2\$9.! B6A AEU! ; (3#! \$&7#! H\$&.)1\$H\$%3! &.!  
2\$G\$%2\$%3! =&1(&?9\$\*! &%2! mK I ]6!BC(D\*! C>D\*!C)DE!&%2!

I Kn Z!B(. '9&3(' %! =.F!2(.>99&?(7! ; '12E!&.!5(J\$2!\$55\$73.F!  
n&%2' H!.'9' G\$.15'1!mK I ]6!&%2! I Kn Z!&%2!1!&%2' H!  
(%3\$17\$G3!5'1!G&13(7(G&3\$! ; \$1\$!&9. ' !(%79)2\$2F!R'1!&99!  
3#\$!H'2\$9!7' % .31)73(' % .!3#\$!H' % ' .>99&?(7!C>D! ; &.!\$3!  
&.!3#\$!1\$5\$1\$%7\$F!R'1!3#\$!H'2\$9! '5! .3(55\$\$. .! ; \$!&9. ' !  
(%79)2\$2! 6W8ZAWn o! B51' H! 7\$%3\$1!3'1'7'1%\$1E!&.!  
5(J\$2!\$55\$73.\*!&%2!H' % ' .>99&?9\$.!&%2!2(.>99&?9\$.! ; \$1\$!  
&%&9>X\$2! 3#1' ) /#! 3 ; ' ! . \$G&1&3\$! H'2\$9.F! W99!

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5'1! H'%'>.>99&?(7! C(D! B>, b! ^F[M\*! ;, pFe^E! ?)3!  
.(/%(5(7&%39>9' %/\$13#&%!H'%'>.>99&?(7!C)D!B>,b!PeFMc\*!  
.! bFe^EF! :#\$! .# '13\$.3! 2(.3&%7\$! ; &.! 5' )%2! (%! 3#&!  
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BR(/)1\$! [EF! 6\$.! 9&3\$1&9! G)99! B(F\$F\*! 9&1/\$1! 9&3\$1&9!  
2(.3&%7\$E! ; &.! ' ?.\$1=\$2! (%! 2(>99&?(7! ; '12.!3#&%! (%!  
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pFe^EF! 8'! 2(55\$1\$7\$! ; &.! 5' )%2! ?\$3 ; \$\$\$\$!  
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2(.3&%7\$! ; \$1\$! ' ?.\$1=\$2! 5'1! 2(>99&?(7! C>D! &%2! C)D!  
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bFeC!C)DL!>,b!eF^N\*!;!bFeA^\*!?)3!3#&! 'GG' .(3\$!G&33\$1!  
; &.!1\$G'13\$2!5'1!C(D!B>,b!eFM[\*]!:!pFe^EF!  
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5'1! C(D! B>, b! PeFY^\*! :! bF! e^E! ; #9\$! 3#&! 1&3('!.! 5'1!  
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b!eFN1\*!;!pF!e^E\*!?)3!% '3!(!%13#&! '3#&!13 ; '!= ' ; \$9.\*!&.!  
)//\$.3\$2!?!>13#&!mK I ]6!f! I KnZ!(%3\$1&73('!'!BC(DL!  
>,b!PeFnc\*!;!pFe^U!C)DL!>,b!PeF[1\*]!:!bFe^EF!  
:#\$!1\$. )93.! '5!9(G!&G\$13)1\$!&1\$&!&1\$!=(. )&9(X\$2!(!%!  
R(/)1\$!MF!:\$&!&1\$&! '5!H'%'>.>99&?(7! ; '12.!5'1!C>D! ; &.!  
.(/%(5(7&%39>!.H&99\$1!3#&%!3#&3!5'1!C(D!B>,b!^Fc[\*]!:!pFe^E!  
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G1'31)2\$2!5'1!H'%'>.>99&?(7!C>D!3#&%!5'1!H'%'>.>99&?(7!  
C(D!B>,b!P^F^E\*!;!pFe^E! ; #1\$&.!3#&!G1'31).(''%!2\$/1\$!  
2(2! % '3! 2(55\$1! ?\$3 ; \$\$\$\$!C>D! &%2! C)D! B: ! bF1NEF! I #9\$!  
H'%'>.>99&?(7!&%2!2(.>99&?(7!C>D!2(2! % '3!2(55\$1!(!%13#&!2\$/1\$! '5!  
9(G!G1'31).('!'!B: !bFcME\*!(%3\$1&73('!'!?!?3 ; \$\$\$\$!mK I ]6!  
&%2! I KnZ! ; \$1\$!1\$G'13\$2!5'1!3#&! '3#&!13 ; '!= ' ; \$9.!  
BC(DL!>,b!PeF[ ^\*]!:!bFe[U!C)DL!>,b!eFMM\*!;!pFe^EF!@H(9&1!  
G&33\$1!;! ; \$1\$! &9. '!' ?.\$1=\$2! (%! 3#&! 9' ; \$1! 9(G!  
G1'31).('!'!H'1\$!G1'31).('!'!(!%13#&!)>.>99&?(7!C>D!3#&%!  
(!C(D!7' )%3\$1G&13!B>,b!PeFa^\*!;!pFe^E!&%2!% '12(55\$1\$7\$!  
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mK I ]6!f! I KnZ!(%3\$1&73('!'!5'1!C(D! ; &.! ' ?.\$1=\$2!B>,  
b!PeFnc\*!;!bFe[EF! ! n\$. )93.! '5! )GG\$1!&%2!9' ; \$1!9(G!  
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I (3#! 1\$/&12.! 3'! 3#&! O(%\$H&3(7! .3(55\$\$.! \*! 3#&!  
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.3(55\$\$.! '5!3#&!9(G!7\$%3\$1! ; &.!#(/#13#&%!3#&!. \$! '5!3#&!  
7'1%1\$.!BR(/)1\$! 1EF! ! ; #(.!3\$%2\$%7>! ; &.! ' ?.\$1=\$2! (%!  
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H'%'>.>99&?9\$.! 5&(9\$2! 3'! 5(9\$2! .(/%(5(7&%3! 2(55\$1\$7\$!  
?\$3 ; \$\$\$\$!C>D!&%2!C)D!B: !b!FN^E!&%2!?\$3 ; \$\$\$\$!C>D!&%2!C)D!  
B: !b!F^MEU!3#&!1\$. )93.!5'1!2(.>99&?9\$.! ' %9>!1\$G'13\$2!&!  
H&1/(&9!2(55\$1\$7\$!?\$3 ; \$\$\$\$!C>D!&%2!C)D!B: !bFeaE!?)3!  
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1' ) %2\$2%\$. ! \*! & . . ) H ( % / !3#&3! . \$ / H\$%3. ! & . . '7(&3\$2! ; (3#!  
3# \$! . & H\$! 2(7# '3' H(7! = &9) \$! ; ' )92! ?\$&1! 3# \$! . & H\$!  
&13(7)9&3' 1>! G' .3) 1\$F! 4%13#( .! = \$(%\*! 3# \$! & . . ( / %H\$%3! '5!  
CQ1' ) %2D!5' 1! ? '3#!C>D!&%2!C) D!9\$&2. !3' !&%! (%3\$1G1\$3&3(' %!  
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'5!3# \$! . & H\$! 2\$ / 1\$F! : # \$!7) 1!\$%3! .3) 2>! \$J&H( %\$. !3# \$!  
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JJ3\$%2\$2! 51' H! 3# \$! 5( %2( % / .! ( %! q&70. ' %! & %2!  
A70' ; & %! C'D' ) 1!1\$. )93. ! . # ' ; !3#&3! 3# \$! # ( / #! 51' %3!  
= ' ; \$9!C(D! ( !G' .3) 1\$2! . ( / %5(7&%39>!2(55\$1\$%3!51' H!3# \$!  
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9' % / \$! ! = \$13(7&9! & %2! 9&3\$1&9! 2( .3&%7\$ . \*! . H&99\$! ! &J( &9!  
1&3( ' . \*! 9&1 / \$! ! 9(G! &G\$13) 1\$! & %2! 9\$. ! ! 9(G! G1' 31) . ( ' %F!  
6' % / \$! ! 2( .3&%7\$! ? ' 3# ! = \$13(7&99>! & %2! 9&3\$1&99>! &9' % / !  
; (3#!9&1 / \$!19(G!&G\$13) 1\$!7' 99\$73(= \$9>!G' ( %3!3' !& !. G!\$&2!

&%2! 'G\$%!9(G! G' .3) 1\$! 5' 1! 3# \$! # ( / #! 51' %3! = ' ; \$9! C(D!  
: # \$. \$!2(H\$%. ( ' % . !G1' = (2\$!3# \$! . G\$&O\$1. ! ; (3# ! = ( . ) &99>!  
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' &35' 12! C[D! \$ %2' 9& ? ( &9! C) D! & %2! \$J' 9& ? ( &9! C>D! ?\$&1!  
2(55\$1\$%3!2\$ / 1\$ \$. ! '5!9(G! G1' 31) . ( ' %L!H' 1\$!G1' % ' ) %7\$2!  
5' 1!C) D!3#& %5' 1!C>D!F4% ! ) 1!1\$. )93. \*!C) D!&%2!C>D!\$J# ( ? (3\$2!  
7' HG&1& ?9\$!9(G! G1' 31) . ( ' %!5' 1! ? ' 3# ! ) GG\$1! & %2!9' ; \$! !  
9(G. \*! . ) / / \$.3( % / ! 3#&3! ( %! 7' %3!& .3! 3' ! 3# \$! G' .3) 1&9!  
2(55\$1\$%7\$! &3! 3# \$! 7' 1%\$1. ! '5!3# \$! H' ) 3# ! 3# \$! C1' ) %2D!  
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&J( &9! 1&3( ' !5' 1! C>D! > ( \$92! & ! 9(G! &G\$13) 1\$! '5! 99(G. ( \*!  
\$7# ' ( % / ! ' &35' 12i. ! C[D! 2\$. 7!G3( ' % . ! & ? ' ) 3! 3# \$! 3 ; ' !  
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7&G3) 1\$! 3# ( ! G' .3) 1&9! 2(55\$1\$%7\$! ?\$3 ; \$ \$ %! 3# \$. \$! 3 ; ' !  
= ' ; \$9. F! Z\$. G(3\$!3# \$!5&73!3#&3! C>D! & %2!C) D! ( %! : & ( ; & %!  
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9(G! G' .3) 1\$! !7& %! ?\$! 7#&1&73\$1(X\$2! ?>! '3# \$!  
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.3(55\$ . . !1\$. )93. !2\$H' % .3!&3\$2!3#&3! ; # (9\$! ? ' 3# !C>D!&%2!  
C) D! #&2! .3! ' % / \$! ! .3(55\$ . . !5' 1! 3# \$! 9(G! 7\$%3\$1! 3#&%!  
7' 1%\$1. \*! ( %! / \$ % \$1&9! 3# \$!9(G! G' .3) 1\$! !5' 1! C>D! ; \$1\$! '5!  
.9( / #39>! .3! ' % / \$! ! .3(55\$ . . !3#&%!C) D\*!G&13(7)9&19>!5' 1!3# \$!  
7' 1%\$1. ! '5!3# \$!9(G. !BR( / ) 1\$!1E! . ) / / \$.3( % / !3#&3!C>D!&%2!  
C) D! H&>! ?\$! 2(55\$1\$%3(&3\$2! 51' H! \$&7#! '3# \$! &3! 3# \$!  
7' 1%\$1. ! '5!3# \$!9(G. F!W22(3' % &99>\*!3# \$!1\$G' 13\$2! .3(55\$ . . !  
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' %9>! = ( . ) &99>! (2\$%3(5(\$2! ? ) 3! &9. ' !&1\$! & . . '7(&3\$2! ; (3#!  
G#>. ( '9' / (7&9! &77' ) %3. F! A & > \$! \$!3! &9F! C^ed! ) . \$2! MZ!  
5&7\$! H' 2\$9!3' ! . (H)9&3\$!9(G! . G!\$&2( % / !5' 1! C(D! & %2!9(G!  
7' HG!\$ . . ( ' %!5' 1!C) D!F! : # \$(1!1\$. )93. ! . ) / / \$.3!3#&3!3# \$. \$!  
9(G!G' .3) 1\$. !1\$ \$ ) (1\$2(55\$1\$%3! / 1' ) G. ! '5!H) .79\$. ! ; # (9\$!  
S) & %3&9! G1' G\$13( \$. ! &1\$! \$J# ( ? (3\$2F! " '99\$73(= \$9>\*! 3# \$. \$!  
' ? . \$1= \$2! G' .3) 1&9! 2(55\$1\$%7\$ . !5' 1! 3# \$! 3#1\$ \$! # ( / #!  
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3# \$! . G\$&O\$1. ! & %2!3# \$!\$5' 1\$!H&>! . \$1= \$! (3. !5) %73( ' %!5' 1!  
G\$!7\$G3) &9! (2\$%3(5(7&3( ' %F!!

: # (\$7) 1!\$%3! .3) 2>!7' HG&1\$2!G\$1( '1&9!G' .3) 1\$. !5' 1!  
3# \$!3#1\$ \$!# ( / #! = ' ; \$9. ! ( %! : & ( ; & %! A & %2 &1 ( %F! I # (9\$!9(G!  
&G\$13) 1\$! 7#&1&73\$1(X\$. !3# \$! # ( / #! 51' %3! = ' ; \$9! C(D\*! 3# \$!  
2(55\$1\$%7\$! ?\$3 ; \$ \$ %!C) D! & %2!C>D!2(2! %3!1\$ . (2\$! ( %!3# \$!  
2\$ / 1\$! '5!1' ) %2\$2%\$. ! ! !G1' 31) . ( ' %! ? ) 3!1&3# \$! ! ( %!3# \$!  
G' .3) 1&9! 2(55\$1\$%7\$! &3! 3# \$!7' 1%\$1. ! '5!3# \$! H' ) 3# ! : # \$!  
7#&1&73\$1(X&3( ' % . ! & %2! H\$& . ) 1\$H\$%3. ! '5! 3# \$. \$! &1\$& .  
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>l'%9?9%93&9#'

N30/D'\$9#0./ P +/32Q5+/M0\*'!(;%\*&0H/%\$,/%!&(<='!/'!&00#;%\*#=#/  
 &>/%G%:/%'!\*'I\*'H/'\$&I& - #;=7/M/!0&=F;'\$C('=\*!'!/=\*(, H+/  
 ! " # \$ % & ' ( ) \* + , - . / 0 ( 1 % \* + % - 2 ' + 0 3 \* 4 1 / R S + /  
 N50/T%\*>&0, ./U+/T+/32QQ+/\$%- ( . 4 3 \* 4 . 5 % 6 + 3 ( ' 7 8 4 3 \* ' + % 3 ' %  
 - 2 ' + 0 3 \* 4 1 + / V W > & 0 , 7 / T ; % 0 # \$ , & \$ / B 0 # = + /  
 N60/D%, #>&C#, ./B+./ 8 %, , '#=&\$./X+/322S+/920%: ' 8 + 7 1 % ' ; % 3 2 0 %  
 & ' ( 5 7 < 1 % # . + , 8 . , 0 1 + / V W > & 0 , ./Y\$C;%\$, 7 / Z ; % ! 9 - # ; ; + /  
 N40/B#09#;./U+ / [ + . / \ % \$ , ' : & ( 0 . / 8 + . / 8 % \* \* \* ' # = . / 8 + / D + . / ] / D % \$ # . /  
 ^ + / 5 1 1 5 + / Y ! & \$ & < H / & > # > & 0 \* ' \$ / , '>>#0#\$\* / = : # % 9 ' \$ C /  
 ! & \$ , ' \* & \$ = + / X + / M / : 0 # ; ' < '\$%0H/=\*(, H/&>/'\$\*#0=(G\_#!\*/  
 , '>>#0#\$#!#=#/%\$, / < & # ; '\$C/'=(#=#/=>%\$4 ' 8 1 > % : ' 4 > % % \$ ? > /  
 3 3 5 @ 4 A . / 3 S 5 ` F 3 S 4 3 + /  
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 N20/ P '#; '\$C./ 8 + / 5 1 3 Q + / M \$ % ; H E ' \$ C / , H \$ % < ' ! / : " & \$ # \* ' ! / , % \* % /  
 (= '\$C/C#\$#0%; 'E#, /%, , ' \* ' I # / < ' W # , / < & # ; '\$C7/M/'(\*&0'%;/  
 > & ! (= '\$C/&\$/%0\*'!(;%\*&0H/, '>>#0#\$#!#=#/G#\* - ##\$/D3/%\$, /  
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