

!"#\$%&' !  
!(\*)+,-./!0+(10)(23 !  
4,55\*./&67 /

!  
#)-88/905\*:) (+-90(; !"#\$%&'()\*&!+,-.\*&!0"1023 45"50637!!89(2.-(!;-:9):%<!=5017 !  
";89.,+9(. ">.7!?:\*2!@(A%\$9)BC-9A!D=-<! / E!  
<==0+\*/>(.8 !"#\$%&'/"1063 45"1063&!+,-.\*!/"1063 45"1063 !\$.;A!266\$:%F3(%F7  
\$(5 "G(FH,5I0 !!  
\* 75-0) "I9:\*2.(A%\$9)\*J-K:H7H2  
";89.,+9(. ">.7!8,..\*!L(9\*\$%&!B=-<! 5450E!  
<==0+\*/>(.8 "I+M=!!  
\$(5 "G(FH,5N0!  
\* 75-0) "HO%J-K:H7H2

!  
!"#\$%&'&(#)\*\*  
#P8@!500=!2%)!#P8@300MQ!2%)  
MPR8!5SS!\$.!MPR8!100±7

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+ #,(-..)\* T:%H(!F,!H\$-.\*(I32F(..29!:\*!2\*-6 4F\$)2F(!2\*!6\$\*\*.;9(&!F,(.(!:\*!%\$!H\$-.\*!  
F(UF;\$S\$V7! #H,! \$W! F,! \*\$-H(! 32F(..29! B626(\*E! X:99! ;(! 6.\$K:())! \$%9:%\$%! F,!  
8\$-.\*(T62H(\*!\*:F(&!2%)! X:99!\*(.K(!2\*!2%!2)):F:\$%29!.\*( \*\$-H(7! Y\$-! X:99! %(!)A\$-! Z[:H!  
L(F?:%V!P>!2%)!62\*\*X\$.)!F\$!2HH(\*\*!F,.\*!:%W\$.32F!\$%7  
PF!\*&!,\$X(K(&!.(H\$33(%))! F,2F! A\$-! ,2K(! (2\*A! 2HH(\*\*! F\$! 2! \*F2%)2.)! 3:H.\$;:\$9\$<A!  
F(UF;\$S\$V7

!  
0#1(%"#\*2.(#)\* L\$F(\*!X:99!<(%(.299A!;(I32)(!2K2:92;9(!\$%!F,!18\$-.\*(T62H(\*!\*:F(!6..\$!  
F\$!9(HF-.\*(7!L\$F(\*!2.(!2..2%<(!);A!F\$6:H&!2%)!2!\*:%<9(!F\$6:H!32A!\*62%!3-9F:69(!9(HF-.\*(7  
0#1(%"#\*3.(#\*4"#\*3.(1.567#(# &!2%)! \*F-)(%F\*! X:99! ;(!.(\*6\$%\*.;9(! W\$.! 299! 32F(..29\*!  
H\$K(.):!%F,(!9(HF-.\*(7

!  
89.;<=>\*1.%"#\*7#4"3&3?\*.-@#1(&A#') \*  
\*

\!P%!F,.\*!H\$-.\*(&!A\$-!X:99!<2:%!F,(!F\$9\$\*!F\$!(H\$<:%!](!.92F:\$%\*,.6\*!;(FX((%!>L=&!@L=!2%)!  
6.\$F(:%7!=669A:%<!F,(\*(!F\$9\$\*!A\$-!X:99!;(I2;9(!F\$!(K29-2F(!F,(!6(H:W:H!H\$%F.;-F:\$%\*!\$W!  
H,2%<(\*7!

\!Y\$-!X:99!,2K(!F,(!2;:9:FA!F\$!H\$362.(!3:H.\$;:29!H\$33-%:H2F:\$%!2%)!\*:<%299:%<!\*F.2F(<:(\*7

\!Y\$-!X:99!(!2;9(!F\$!<:K(!U2369(\*!\$W!,\$X !F,(!3:H.\$;:\$3! H\$%F.;-F(\*!F\$32%!(,29F,7 !!

\!Y\$-!X:99!(!2;9(!F\$!H.:F:H299A!29A!2%)!:%F(.6.(F!6..32.A\*H:(%F:W:H!9:F(.2F-.(

\!Y\$-!X:99!(!2;9(!F\$!)! \*H-\*\*!F,(!-F:9:FA!\$W!;-):%<!A(2\*F!2!3\$)(9!(-V2.A\$F:H!\*A\*F(3&!2%)!  
)! \*H-\*\*! \*(K(.29! \*A\*F(3\*! ;:\$9\$<A! 266.\$2H,(\*! F,2F! 2.(! .(K\$9-F:\$%:]:%<! .(\*2.H,! :%!  
3\$9(H-92.!;:\$9\$<A!

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+ #3(4(&A#\*174"\*1D#B%7#)

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I(J0+ /	#(55*;98 /
6K ";9.(L,+90(; /	*
'K/ BGC/ 4 >L=!*F.-HF-.(!2%)!(U6.(**:\$% !	M2HF(..:29!<(%(!2.H,:F(HF-.{&W2HF\$.*&! H\$362.:*\$%!(;FX((%!6.\$V2.A\$F:H!2%)! (-V2.A\$F:H!*A*F(3*
%K\$GC/ 4 @L=!*F.-HF-.(!2%)!.(<-92F:\$% 4 8@PTG@	! 3@L=!*F2;:9:FA&!.;\$*X:FH,( @L=!*:9(%H:%<!:%!6.\$V2.A\$F(*&!<(%(!):F:9
MKN.(9*0; / 4 +X\$!H\$36\$%(%F!*A*F(3† 4 G.\$F(:%!*69:H:9%< 4 +.2%*92F:\$%29!*-.K(:992%H(	P%F.\$)-HF:\$%!F\$!6.\$V2.A\$F:H!6.\$F(:%!*:4% P%F(:%*!2%)!(UF(:%*&!2669:H2F:\$%* P)(%F:W:H2F:\$%!2%)!(*F.-HF:\$%!\$W!2;(..29 6.\$F(:%*!:%6.\$V2.A\$F(†
OK\$*8J(;8*/9(/*;A0.(;5*;9-)/ +(;L090(;8 /	4 I(2F!*,\$HV ! 4 TF2F:\$%2.A!6,2*( 4 TF.:%<(%F!..*6\$%†( 4 T6\$.-92F:\$%
PK!0+.(10(5* /	P362HF!\$W!F,(!3:H.\$;:\$3(!\$%!, -32%!,(29F!
QK#(55,;093 /802;-)0;2 / 4 `%K:.\$%3(%F29!2%)!H\$33-%!FA	8,(3\$F2U:*!2%)!FX\$!H\$36\$%(%F!*A*F(3*&! b-\$.-3 !*(%*:%<!2%)!;2HF(..:29! H\$33-%:H2F:\$%&!;36\$.F2%H(!\$W!;:\$W:93*
7K E,LL0;2/3*-89R/-/5(L*)/ *,S-.3(9* /	?:W(HAH9(&!)(U2369(*!\$W!H\$%*(.K)!*:<%29 F.2%*)-HF:\$%!62F,X2A*&!2)K2%H(!)3\$9(H-9 <(%(F:H!2%)!6.\$F(\$3:H!F(H,%:b-(†
TK 4389*58/-;L/83;9>*90+/10()(23 /	!\$X!;-):%<!A( 2*F!F\$9*(!%2;9(!,;<4 F,.\$-<,6-F!<(%\$3:H!2%)!6.\$F(\$3:H! :%F(..\$< ()) -0.0 0.24 99.756 /T2 (6) 0 0 0.2B

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LM!J;+8M2+\*92NO;8J+9O2\*J2L\*!O09:9MP \*

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/7! +,(! >(62.F3(%F! \$W! M:\$H,(3:\*F.A! 2%)! #:H.\$:;\$9\$<A! -6,\$9)\*! 2%)! (%W\$.H(\*! F,(!  
Z%:K(\*:FAi\*!6\$9:H:(\*\$2H2)(3:H!:%F(<.:FA! +,(\*!6\$9:H:(\*!2.(!)\*H.:;(!):%!F,(!H-..(%F!  
Z%:K(\*:FA!829(%).2.799!\*F-)(%F\*!2.(!2)K:\*)!F\$!.(2)!F,.\*!(HF:\$%7!

!  
57 8(99!6,\$%(\*&!H\$36-F(\*&!2%)! \$F,(!(9(HF.\$%:H!)(K:H(\*!3-\*F!;!F-.%!)!\$WW!2F!299!  
F:3(\*!-%9(\*\*!;(:%<!-\*!)!W\$.!2!6-.6\$\*(!.(9(K2%F!F\$!F,(!H92\*\*7!!TF-)(%F\*!,2K:%<!2!H(99!6,\$%(&!  
F2;9(F&!.!H\$36-F!\$%!F,(.!:6(\*\$%!)!-%<!2%! (U23!X:99!;!2\*\*~3!)!F\$!,2K(!:F!W\$.!F,(!  
6-.6\$\*(!\$W!H,(2F:%<7!

!  
17 =%A!.(H\$.):%<\*!\$W!9(HF-.(!32A!\$%9A!;!6(.W\$.3!)!X:F,!X.:FF(%!6(.3:\*\*:\$%!\$W!F,(!  
:%\*F.-HF\$.&! 2%)! 2.(! W\$.! 6(\*\$%29! -\*(! \$%9A7! ! +,(! :%\*F.-HF\$.! .(F2:%\*! H\$6A.\*!F! F\$!  
.(H\$.):%<\*! 2%)! 299!9(HF-.(! 32F(..29\*! 6.\$K:!)!W\$.! F,(! H92\*\*! B(9(HF.\$%:H! 2%)! \$F,(.X:\*(EQ!  
F,(\*(!32F(..29\*!3-\*F!%\$F!;!\*,2.)!\$.!.(6\$\*F!)!\$%!F,(!P%F(.%(F7 !

!  
D7 8\$-\*(!32F(..29\*&!-H,!2\*!%\$F(\*&!6.\$;9(3!\*,((F\*&!b-:]](\*&!U23:%2F:\$%\*&! (U2369(!  
\*,((F\*&!\$.! .(K:(X!\*,((F\*&!32A! %\$F(!.):\*F.:;-F)! X:F,\$-F!F,(!(U69:H:F!X.:FF(%!6(.3:\*\*:\$%!  
\$W!F,(!:%\*F.-HF\$.7!

!  
I 7 TF-)(%F\*!2.(!(U6(HF!)!F\$!;!6.(\*(%F!W\$.!F,(!3:)F(.3!2%)!W:%29!(U23\*7!!P%\*F.-HF\$.\*!  
32A!<.2%F!)(W(..29\*!W\$.)F(.3 !

S7 +,(!:%\*F.-HF\$.!(\*(.K( \*!F,(! :<,F! F\$-\*( !692<:2.:\*3!)(F(HF:\$%\$WFX2!(\$!\$F,(. !  
692FW\$.3\$2\*\*(\*\* !F,(!:%F(<.:FA!\$W)(%FX\$.V7h  
/  
:#3("#\*Q."\*J11#"&-7#\*0#4"3&3? \*  
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:."#\*M,6#"&#31#\*P%"A#R\*S:MPT  
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