

G5 Z.O!M,**!2%%!([6 (J!"!6,T,+(*!>88%22\!84(\$T%! . '!J . O\$!+O,+, . '!(' H!Q%%!I, **!Q . \$:!!CDEFG!
HI16)&1!%->JE!

E5 Z.O!4(/%!+4%! .K+, . ' !+ .!.K+!.O+!IJ!O2, 'T!(!* , ' -!, '!(!\$%&, 'H%\$!%&(,*!J . O!M,**!\$%8%, /%!
M,+4!+4%!2OI`%8+![6 (J!"!6,T,+(*!>88%22\5!K) ' ! 0 '\$%!);%!) ' %!#)!,-%1&!%L-#M-# ' -&?!
NO!"!3! .+4%\$M,2%!J . O!M,**!I%!84(\$T%H!Q . \$!+4%!+%R+I . . -5!

!

P\$.OI*%24 . .+, 'T!2OKK . \$+!,2!(/ (, *(I*%!GabW!+4\$.OT4!c ,+(*7 . O\$8%5!

!

G!

=.\$!G9GG3!BUP!M,**!8.'+', '0%!+.!8./%\$!+4%!8.2+!.Q!&. I,*%!,A*,8-%\$25!>!K..*!.Q!K4J2,8(*!8*,8-%\$2!,2

+% (&&(+%2!24.O*H!(KK%(\$!.'!+4%12OI&,22,.. '5!=\$%\$!\$,H,'T!24.O*H!' .+!4(KK%'5!!)*%(2%18.'+(8+!&%!
>7>!)!,Q!('J!,220%2!(\$,2%M,+4,'!J.O\$!+%(&5!!

!
>+!+4%!%'H!.Q!+4%!2%&2+%\$3!J.O\$!8.'+\$,IO+,.. '!.!+4%!+%(&M.\$-!M,**!I%!2OI`%8+!+. !8.'Q,H%' +,(*!K%\$!
%/(*O(+.. '5!!Z.O\$!4.&%M.\$-!28.\$%!M,**!I%!M%,T4%HIJJ.J.O\$!+%(&&(+%2j!%/(*O(+.. '25!

8#29)69+L- ;1&!<&- (/(1!<&) I,10 \$*!

U!M,**!K.2+!('2M%\$2!+. !+4%! .HHO 'O&I%\$!% 'H0.Q084(K+%\$!K\$. I*%&2!, '!.+4%!+R+I... -5!!Z.O!(\$%!
%RK%8+H!+. !M.\$-!+4\$. OT4!+4%2%!K\$. I*%&2!+. !% '20\$%!&(2+%\$J!.Q!+4%!&(+%\$, (*5!!P\$J!+. !H!.!+4%!
K\$. I*%&2!M,+4.O+!* .-,'T!(+!+4%!('2M%\$2!\$,T4+!(M(J5!!U!M,**!' .+!8. **%8+!J.O\$!M.\$-!.'!+4%2%!
K\$. I*%&25!!P4%2%!(\$%T. .H!K\$(8+,8%!K\$. I*%&2!Q.\$!+4%!R(&2!2!.J.O!(\$!(H/,2%H!+. !M.\$-!.'!+4.2%!
K\$. I*%&25!!

B%1#2-#(1!-#2!/#9(-,\$\$; -&/(/; -%/)#*!

Z.O\$!\$%2K.'2%2!+. !+4%! ,A*,8-%\$!SO%2+,.. '2!, !!*%8+O\$%3!%T(\$H%22!.Q!M4+4%\$!J.O\$!('2M%\$!,2!8.\$\$%8+!
.\$!' .+3!M,**!8.O'+!+. M(\$H2!J.O\$!(+H('8%!('H!K(\$+,8,K(+.. '!28.\$%!Q.\$!+4(+H(J5!!

Z.O!(\$%!(** .M%H!+. !&,22!+M.!8*(22%2!Q.\$!M4(+%/!\$%\$ (2.'2!k%R802%H!('H!O '%R802%HI5!!@ (84!
(HH,+,.' (*!(I2%'8%M,**!\$%HO8%J.O\$!(+H('8%!('H!K(\$+,8,K(+.. '!28.\$%5!UQ!J.O!&,22!&.\$%!+4('!
G9 i !.Q!8*(22%2!kD!8*(22%2!J.O!M,**!\$%8%,/!(+H('8%!('H!K(\$+,8,K(+.. '!28.\$%!.Q!m%\$.!Q.\$!+4,2!
8.O\$2%5!!P4%2%!(I2%'8%2!, '8*OH%I. +4!/(* ,H!k2,8- '%223!M%(+4%\$3!&%\$T%'8,%21!('H!, ' / (*,H!\$(2.'2!
Q.\$!' .+!I%, 'T!, '!8*(225!

Z.O\$!K(\$+,8,K(+.. '!, '!8*(22!H,28022,.. '2!,2!%22%'+,(*!Q.\$!%'4('8,'T!J.O\$!('H!J.O\$!8*(22&(+%2j!
%(\$,'T!%RK%\$,%'8%!, '!+4,2!8*(225!!Z.O\$!K(\$+,8,K(+.. '!,2!(184('8%Q.\$!J.O!+. !+4,'-!8\$,+,8(*J3!(KK*J!
%(\$%'H!8.'8%K+2!('H!O2%+4%!*(\$%'H!+%&,'.*.TJ5!!; (-,'T!&,2+(-%2!,2!K(\$+!.Q!%(\$,'T5!!7.3!
H.'j+!I%124J3!K(\$+,8,K(+%!, '!8*(22!H,28022,.. '2!('H!T%+!&.\$%!.O+!.Q!+4,2!8*(22e!!

>*2.3!,Q!J.O!4(/%!(!SO%2+,.. '!HO\$, 'T!*%8+O\$%3!Q%\$%Q%\$%+!.!, '+%\$SOK+!&%5!P4(+!M.'j+!I.+4%\$!&%5!!

+) 0 0 '#/(-%/)#*!

U!(&!(/(* (I*%!+.!('2M%\$!SO%2+,.. '2!\$%*(+H!+. !+4%18.O\$2%!&(+%\$, (*!('H!+4%14.&%M.\$-5!!P4%!I%2+!
M(J!+. !8.'+(8+!&%!,2!+. !2%!!&%!, '! .QQ,8%14.O\$25!!Z.O!8('!(*2. !%&(*!&%!M,+4!24.\$+!SO%2+,.. '25!!U!
M,**!+\$J!+. !\$%2K.'H!+. !J.O\$!&(*!K\$. &K+*J!HO\$, 'T!IO2,'%22!4.O\$25!!)*%(2%!, '8*OH%!@ABC!aX"X!, '!
+4%!2OI`%8+!*,'%5!!!

.1#%-/S1!+) '&\$!5 '%,#/1!!

- "5 P4%!7,&K*%!V%T\$%22,.. '! ; .H%*!kA4(K+%\$!GI!
- G5 ; O*+,K*%!V%T\$%22,.. '!>' (*J2,2:!!@2+,&(+,.. '!kA4(K+%\$!EI!
- E5 ; O*+,K*%!V%T\$%22,.. '!>' (*J2,2:!!U'Q%\$%'8%!kA4(K+%\$!aI!
- a5 ; O*+,K*%!V%T\$%22,.. '!>' (*J2,2:!!Bh7!>2J&K+. +,82!kA4(K+%\$!FI!
- F5 ; O*+,K*%!V%T\$%22,.. '!>' (*J2,2:!!=O\$+4%\$!U220%2!kA4(K+%\$!dI!
- d5 ; O*+,K*%!V%T\$%22,.. '!>' (*J2,2!M,+4!nO(*,+(/!U'Q.\$&(+,.. ':!^,'(\$J!c(\$,(I*%2!
kA4(K+%\$!WI

D5 >HH,+,. ' (*! ; O*,K*!V%T\$%22, . '!>' (*J2,2!U22O%25!

!

T#/S1&\$/%?!<),/(1\$!

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

^ . +4!2+OH% ' +2!(' H!Q(8O*+J!(\$%!\$%2K. ' 2,I*!Q. \$!&(, '+ (, ' T!(' !KK\$. K\$, (+!*%(\$ ' , ' T!% ' / , \$. ' &% ' +! , ' !

(**!, ' 2+\$O8+, . ' (*!2%+, ' T23!M4%+4%\$!, ' !K%\$2. ' 3!\$%& . +%! . \$! . ' * , %5!P4. 2!M4. !Q(,*!+. !!(H4%\$%!+. !2084!

I%4(/, . \$(*!2+(' H(\$H2!&(J!I%!2OI%8+!+. !H,28,K*, ' %5!)\$. Q%22, . ' (*!8. O\$+%2J!(' H!2% ' 2,+, / , +J!(\$%!

%2K%8, (**J!, &K. \$+(' +!M, +4!\$%2K%8+!+. !, ' H, / , HO(*2!(' H!+. K, 82!H%(*, ' T!M, +4!\$(8%3!8. * . \$3! ' (+, . ' (*!

. \$, T, ' 3!2%R3!K\$%T ' (' 8J3!(T%3!H, 2(I, *, +J3!8\$%\$H3!\$%*, T, . ' 3!2%RO(*! . \$, % ' +(+, . ' 3!T% ' H%\$!, H% ' +, +J3!T% ' H%\$!

%RK\$%22, . ' 3! / %+%\$(' !2+(+O23!K. *, +, 8(*!(QQ, *, (+, . ' !. \$!K. *, +, 8(*!K4, * . 2. K4J5!!= . \$!& . \$%!, ' Q. \$&(+, . ' 3!2%!

+4%!K. *, 8, %2! . ' !8*(22\$. . &!I%4(/, . \$!(' H!+4%!7+OH% ' +!A. ' HO8+!o!A. ' Q*, 8+!V%2. *O+, . ' !K. *, 8, %25!

(

. * / 0 - * ' * 12\$(3&%!(4 5 6 7 8 9 : (

>2!(!&(+%\$! . Q!KOI*, 8!4% (*+4!(' H!2(Q%+J3!(**!&%&I%\$2! . Q!+4%!A] ^ . O*H%\$!8. &&O ' , +J!(' H!(**!

/, 2, +. \$2!+. !8 (&KO2!&O2+!Q. ** . M!O ' , / %\$2, +J3!H%K(\$+&% ' +!(' H!IO, *H, ' T!\$%SO, \$%&% ' +2!(' H!(**!KOI*, 8!

4% (*+4! . \$H%\$2!, ' !K*(8%!+. !S%HO8%!+4%!\$2-! . Q!2K\$% (H, ' T!, ' Q%8+, . O2!H, 2%(2%5!7+OH% ' +2!M4. !Q(,*!+. !

(H4%\$%!+. !+4%2!\$%SO, \$%&% ' +2!M, **!I%!(2-%H!+. !*(/ %!8*(223!(' H!2+OH% ' +2!M4. !H. !' . +!*% (/ %!8*(22!

M4% '!(2-%H! . !M4. !S%QO2%!+. !8. &K*J!M, +4!+4%2!\$%SO, \$%&% ' +2!M, **!I%!\$%Q%\$\$H!+. !7+OH% ' +!A. !HO8+

(' H!A. ' Q*, 8+!V%2. *O+, . ' 5! = . \$!& . \$%!, ' Q. \$&(+, . ' 3!2%!+4%!K. *, 8J! . ' !8*(22\$. . &!I%4(/, . \$!(' H!

+4%!7+OH% ' +!A. H%!. Q!A. ' HO8+5!UQ!J. O!\$%SO, \$%!(88. && . H(+, . ' !I%8(O2%!(H, 2(I, *, +J!K\$% / % ' +2!J. O!

Q\$. &!QO*Q, ** , ' T!+4%2!2(Q%+J!&% (2O\$%23!K%*(2%Q. ** . M!+4%!2+%K2!, ' !+4%! [> 88. && . H(+, . ' !Q. \$!

6, 2(I, *, +, %2\!2+(+&% ' +! . ' !+4, 2!2J** (IO25!

A] !^ . O*H%\$!8O\$%\$% ' +J!\$%SO, \$%2!&(2-2!, ' !8*(22\$. . &2!(' H!* (I. \$(+. \$, %2!\$%T(\$H%22! . Q! / (88, ' (+, . ' !

2+(+O25!P4, 2!\$%SO, \$%&% ' +!2!(!K\$%8(O+, . ' !+. !20KK*%&% ' +!A] !^ . O*H%\$!j2!AB c U 60"D! / (88, ' %!

\$%SO, \$%&% ' +5!@R%&K+, . ' 2!, ' 8*OH%!, ' H, / , HO(*2!M4. !8(' ' . +!&%H, 8(**J!+. %\$\$(+%(!Q(8%!8. / %\$, ' T3!(2!

M%*(2!+4. 2%!M4. !(\$%!4%(\$, ' T0, &K(\$%H! . \$! . +4%\$M, 2%!H, 2(I%*H! . \$!M4. !(\$%!8. &&O ' , 8(+, ' T!M, +4!

2. &% . ' %!M4. !, 2!4%(\$, ' T0, &K(\$%H! . \$! . +4%\$M, 2%!H, 2(I%*H! (' H!M4%\$%!+4%!(I, *, +J!+. !2%\$!+4%!& . O+4!, 2!

%22% ' +, (*!+. !8. &&O ' , 8(+, . ' 5!UQ!J. O!SO(*, QJ!Q. \$!(!&(2-0\$%*(+H! (88. && . H(+, . ' 3!K%*(2%Q. ** . M!+4%!

2+%K2!, ' !+4%! [> 88. && . H(+, . ' !Q. \$!6, 2(I, *, +, %2\!2+(+&% ' +! . ' !+4, 2!2J** (IO25!U ' ! (HH, +, . ' 3! / (88, ' (+H!

, ' 2+\$O8+, . ' (*!Q(8O*+J!M4. !(\$%!% ' T(T%H!, ' ! (' !, ' H. . \$!, ' 2+\$O8+, . ' (*!(8+, / , +J!(' H!(\$%12%K(\$+H!I J!(+!

*(2+!d!Q%+!Q\$. &!+4%! ' % (\$%2+!K%\$2. ' !(\$%!R%&K+!Q\$. &!M%(\$, ' T!&(2-2!, Q!+4%J!2. !84. . 2%5!

!UQ!J. O!Q%*!, **!(' H!+4, ' -!J. O!&, T4+!4(/%!AB c U 60"D3!, Q!J. O!4(/%!+2%+H!K. 2,+, / %Q. \$!AB c U 60"D3!

. \$!, Q!J. O!(\$%!O ' / (88, ' (+H! . \$!K(\$+, (**J! / (88, ' (+H!(' H!4(/%!I% ' !, ' !8*. 2%!8. ' +(8+!M, +4!2. &% . ' %!

M4. !4(2!AB c U 60"D3!J. O!24. O*H!2+(J!4. &%!(' H!Q. ** . M!+4%!QO\$+4%\$!TO, H(' 8%! . Q!+4%!)OI*, 8!g%(*+4!

BQ0,8%!k8. ' +(8+\$(8, TN8. *.\$(H. 5%HO15!UQ!J. O!(\$%!QO**J! / (88, ' (+H!(' H!4(/%!I% ' !, ' !8*. 2%!8. ' +(8+!

M, +4!2. &% . ' %!M4. !4(2!AB c U 60"D3!J. O!H. !' . +! ' %H!+. !2+(J!4. &%p!\$(+4%\$3!J. O!24. O*H!2%*Q0

& . ' , +. \$!Q. \$!2J&K+. &2!(' H!Q. ** . M!+4%!QO\$+4%\$!TO, H(' 8%! . Q!+4%!)OI*, 8!g%(*+4!

BQ0,8%!k8. ' +(8+\$(8, TN8. *.\$(H. 5%HO15!

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; <<& ' ' &=#2-&I(3&%!(7-\$#>"-2-*\$(

UQ!J. O!SO(*, QJ!Q. \$!(88. && . H(+, . ' 2!I%8(O2%!. Q!(H, 2(I, *, +J3!K%*(2%2O!I&, +J. O\$!(88. && . H(+, . ' !

*%+!\$!Q\$. &!6, 2(I, *, +J!7%\$/ , 8%2!+. !J. O!\$!Q(8O*+J!&%&I%\$, ' !(+, &%*J!&(' ' %\$!2. !+4(+J. O\$! ' %H2!8(' !

!

I%!(HH\$%22H5!6,2(I,*,+J!7%\$/ ,8%2!H%+%\$&, '%2!(88.&&.H(+,.'2!I(2%H!. 'H.80&% '+%H!H,2(I,*,+%2!
, ' !+4%!(8(H%&,8!% '/,\$. '&% '+5!!U'Q.\$&(+,.'!.'!%\$SO%2+, 'T!(88.&&.H(+,.'2!,2!* .8(+%H!. '!
+4%!6,2(I,*,+J!7%\$/ ,8%2!M%I2,+%5!A. '+(+8!6,2(I,*,+J!7%\$/ ,8%2!(+!E9E0aDG0XdW"
.\$!H2.'Q.N8.*.\$(H.5%HO!Q.\$!QO\$+4%\$(22,2+('8%5!!U!J.O!4(/%!(!+%&K.\$(\$J!&%H,8(*!8.'H,+,.'3!
2%!P%&K.\$(\$J! ; %H,8(*!A.'H,+,.'2!. ' !+4%!6,2(I,*,+J!7%\$/ ,8%2!M%I2,+%5!
(

?%*3*%*%*=@20=*12(A# ' *\$(#1=(?%&1&01\$(

A J !^ .O*H%\$!\$8.T',m%2!+4(+!2+OH% '+2f!%T(*,'Q.\$&(+,.'!H.%2'f!(*M(J2!(* ,T'!M,+4!4.M!+4%J!
,H% '+,QJ5!7+OH% '+2!&(J!OKH(+!+4%,\$!K\$%Q%\$\$%H!' (&%2!('H!K\$. ' .O'2!/, (+4%12+OH% '+!K.\$+(*p!+4.2%!
K\$%Q%\$\$%H!' (&%2!('H!K\$. ' .O'2!(\$%!* ,2+%H!. '!, '2+\$O8+. \$2f!8*(22!\$. 2+%\$25!U' !+4%!(I2% '8%! .Q!2O84!
OKH(+%23!+4%!' (&%!+4(+!(KK%(\$2!. ' !+4%18*(22!\$. 2+%\$!,2!+4%!2+OH% '+2f!%T(*)' (&%5!

B&I&%(!&=*(\$

> **!2+OH% '+2!%'\$. **%H!, '!(] ', /%\$2,+J!.Q!A.*.\$(H.!^ .O*H%\$!8.O\$2%!(\$%!\$2K. '2,I*!Q.\$!- ' .M, 'T!
('H!(H4%\$, 'T!+.'!+4%!g. ' .\$!A.H%!(8(H%&,8!, '+%T\$,+J!K.* ,8J!c, .*(+,.'2!.Q!+4%!g. ' .\$!A.H%!(J!
, '8*OH%3!IO+!(\$%!'. '+*,&,+%H!+. :!K*(T,(\$,2&3!84%(+, 'T3!Q(I\$,8(+,.'3!*J, 'T3!I\$,I%\$J3!+4%\$(+3!
O'(O+4. \$,m%H!(88%22!+.!(8(H%&,8!&(+%\$, (*23!8*,8-%!Q\$(OH3!2OI&+,+, 'T!+4%12(&%!. \$!2,&,*(\$!M.\$-!, '!
&.\$%!+4('!. '%!8.O\$2!M,+4.O+!K%\$&,22,.'!Q\$.&!(**!8.O\$2!%, '2+\$O8+. \$2!, '/.*/%H3!('H!(,H, 'T!
(8(H%&,8!H,24. '%2+J5!> **!, '8,H% '+2!.Q!(8(H%&,8!&,28. 'HO8+!M,**!I%!\$K.\$+%H!+. !+4%!g. ' .\$!A.H%!
k4. '\$N8.*.\$(H.5%HO!p!E9E0aDG0FFF9I5!7+OH% '+2!Q.O'H!\$%2K. '2,I*!Q.\$!/,.*(+, 'T!+4%!(8(H%&,8!
, '+%T\$,+J!K.* ,8J!M,**!I%!2OI%8+!+.!'.'(8(H%&,8!2('8+,.'2!Q\$.&!+4%!g. ' .\$!A.H%!(2!M%**(2!
(8(H%&,8!2('8+,.'2!Q\$.&!+4%!Q(8O*+J!&%&I%\$5!>HH,+,.'(*!, 'Q.\$&(+,.'!\$%T(\$H, 'T!+4%!g. ' .\$!A.H%!
(8(H%&,8!, '+%T\$,+J!K.* ,8J!8('!I%!Q.O'H!. ' !+4%!g. ' .\$!A.H%!M%I2,+%5!
!

@*C0#"(D-\$<&1=0<2E(7-\$<%- ' -1#2-&1E(B#/#\$ \$ ' *12(#1=f&%(. *"#2*=(. *?#"-#2-&1(

A J !^ .O*H%\$!,2!8.&&,+%H!+. !Q.2+%\$, 'T('!, '8*O2,/%!('H!M%*8.&, 'T!*('\$, 'T3!M.\$-, 'T3!('H!*, /, 'T!
% '/,\$. '&% '+5!P4%!O', /%\$2,+J!M,**!'. '+. *%\$(+!)(8+2!.Q!2%RO(*!&,28. 'HO8+!k4(\$ (22&% '+3!
%RK*. ,(+,.'3!('H!(22(O*+I3!, '+,&(+%K(\$+'%\$!/,.*% '8%!kH(+, 'T!. \$!H.&%2+,8!/,.*% '8%I3!2+(*-, 'T3!.\$!
K\$.+%8+%H08*(22!H,28\$,&,'(+,.'!.\$!4(\$ (22&% '+!IJ!. \$!(T(, '2+!&%&I%\$2!.Q!.O\$!8.&&O',+J5!
U'H, /,HO(*2!M4. !I%*,% /%!+4%J!4(/%!I%%'!2OI%8+!+.!&,28. 'HO8+!.\$!\$%+(*, (+.\$J!(8+,.'2!Q.\$!\$%K.\$+, 'T!
(!8.'8%\$!24.O*H!8. '+(+8!+4%!BQQ,8%! .Q!U'2+,+O+,.'(*!@SO,+J!('H!A.&K*,('8%!kBU@AI!(+!E9E0aDG0
G"GW!. \$!%&(*!8O\$%K.\$!N8.*.\$(H.5%HO5!U'Q.\$&(+,.'!(I.O+!O', /%\$2,+J!K.* ,8,%23!\$%K.\$+, 'T!.K+,.'2

7%%!+4%!8(&K02!K.*.8J!\$%T(\$H,'T!\$%*.T..02!.I2%\$/('8%2!Q.\$!Q0**!H%+(,*25!

!

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W!