! "##$%"&" ' ()$*+,(-.#(/#0(1$%2,&&,(30(4567&. ' 8/ ,6& ' +55(

9:;<=(>?(@A*2(BC,5",0(EF<9G(

F.#*&+5H0(I#,6.5(J;::=(

=9K0@@:0=KA=(((!((((' ,567&. ' L6,.#6,-.M0,H"(

((((((((((((((((((((((((((((((((

! "#$%&'()*********(

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* *

+,-.-/(!."5N,&$56(+5H(O+ ' $&P(Q2,#+RP0(S.C, ' 7,#(:GGJ(

(T#+H"+*,(1$5.#($5(U,N,+#%2(1,*2.H.&.6P(

(>+$5*(3."$N(V5$C,#N$*P0(>+$5*(3."$N0(1$NN."#$0(!IB1OQ4(B%%#,H$*,H(

VRH+*,(+&&(%&5%+&(-.# ' N(-.#(! 1 ! _▯(1 !O!▯(4>F>(+5H(1 >! S(R#.6#+ ' (*.(
7,($ ' R&, ' ,5*,H($5*.(5,] (%&$5$%+&(R#.6#+ ' ▯(Q,C,#+(
`H,5*$-P(+5H($ ' R&, ' ,5*(&,+H(R#.-,NN.#N(-.#(+&&(T>!(%."#N,N(
U,N,+#%2▯(N,&,%*(+5H($ ' R&, ' ,5*(5,] (%&5%+&(R#.6#+ ' ▯(Q,C,#+(
_.N*(Q,C,#+(*#+$5$56N( ] $*2(+H\"5%*(+5H(-"&&(*$ ' ,(-+%"&*P((
>"R,#C$N,("RH+*$56(.-(+&&(R#.6#+ ' (NP&&+7$(*.(#,-&,%*("RH+*,H(!B!U4F(
N*+5H+#HN(

(

1 !O!(F#.6#+ ' (/$#,%*.#(Z:G9J

%

F"#(';;/%*

=b9<8Ab9<(`5*,#$ '(!&5%(/$#,%*.#(

((*25;'(';7-?%-5;%!-$'?E%H-++*"8%B*#".*%!#C%D5'(*"8'+E%F#"+?-5;9%*

(
Y"&P(:G9G8:G9K(!&5%+&(Q#+$5$56(/$#,%*.#bBNN$N*+5*(F#.-,NN.#(
(>$'RN.5(V5$C,#N$*P(U,HH$56(!+&$-.#5$+((
!#,+*,H(+5H('+$5*+$5,H(.C,#(=G(+%*$C,(%&$5$%+&(N$*,N(-.#(N*"H,5*(
$5*,#5N2$RN(
/,C,&.R,H(+5H(*+"62*(N,C,#+&(%.#,(%."#N,N($5(5,](%."5N,&$56(RNP%2.&.6P(
R#.6#+'(
?#.*,(*2,(%&5%+&(*#+$5$56('+5"+&('+N*,#eN(*2,N$N('+5"+&(+5H(N,C,#+&(
N*"H,5*(&,+#5$56(.RR.#*"5$*$,N(ZBFB(]#$*$56(2.](*.(7,(N"%%,NN-"&($5(
6#+H"+*,(N%2..&("N$56(F.],#F.$5*((,*%[(
(
I%*(:GGJ8Y"&P(:G9G(>."*2,#5(`&&$5.$N(!&5%+&(>"R,#C$N.#(
(3"*2,#+5(!2$&H(+5H(O+'$&P(>,#C$%,N(X,&&,C$&&,((`&&$5.$N(
F#.C$H,H(],,c&P(N"R,#C$N$.5(*.(.C,#(9G(*2,#+R$N*N(+*(-."#(%."5N,&$56(
&.%+*$.5N(*.('.5$*.#(%&5%+&(].#c((+H'5N*#+*$C,($NN",N((+5H(%.5N$N*,5*&P(
-"&&(%+N,&.+HN(
U,C$,],H(+&&(%&$5$%+&(R+R,#].#c(+5H($'R&,',5*,H(R,,#(#,C$,](R#.%,NN(
(
:GG<8:G9G((O

O+%$&$*+*,H(] ,,c&P(6#."RN(] $*2(+H.&,N%,5*N(-.%"N$56(.5(N,M"+&$*P(
#,+ ' ,5*▯(-+ ' $&P($NN",N▯(2,+&$56▯(#,%.5%$&$+*$.5▯(+5H(, ' .*$.5+&(
' +5+6, ' ,5*(
(
(:GG:8:GG=▯(1,5*+&(_,+&*2b(O+ ' $&P(Q2,#+RP(`5*,#5(
(O+ ' $&P(F#.NR,%*$C,(U,N."#%,N▯(X$6(3+c,(1$55,N.*+(
>,#C,H(.5(+(*,+ ' (] $*2$5(+(N*#"%*"#,H▯(N,&-8%.5*+$5,H(N%2..&(R#.C$H$56(
6#."R▯(-+ ' $&P▯(+5H($5HCH"+&(*2,#+RP▯((VN,H(+(2.&$N*$%(+RR#.+%2(
, ' R2+Na56(-+ ' $&P($5C.&C, ' ,5*▯(+(R.N$*$C,(,5C$#.5 ' ,5*▯(+5H(%.5N$N*,5%P(
$5(7,2+C$.#N(
(
:GGG8:GG=▯(X+**,#,H(?. ' ,5℮N(BHC.%+*,(
(!,5*#+&(1$55,N.*+(Q+Nc(O.#%,(.5(X+**,#,H(?. ' ,5▯(>*▯(!&."H(1$55,N.*+(
>,#C,H(+N(+(#,N."#%,(+5H(+HC.%+*,(-.#(H. ' ,N*$%(C$.&,5%,(#,-,##+&(+5H(
%#NN(%+&&N(
O+%$&$*+*,H(] ,,c&P(6#."RN(-.#(] . ' ,5(+5H(%2$&H#,5(.-(H. ' ,N*$%(C$.&,5%,(
I5

(!F(<GJG(0+ ' $&P(Q2,#+RP𝕎(Q2,.#P(+5H(F#+%*$%,(`f(
(!F(@KG@(F#+%*$%" ' (`𝕎(`5*#.H"%*$.5(*.(!&5%+&(O$,&H(F&+%, ' ,5*f(
(!F(@KG;(F#+%*$%" ' (``𝕎(!&$5$%+&(O$,&H(F&+%, ' ,5*(+5H(>, ' $5+#f(
(!F(@KGA(F#+%*$%" ' (```𝕎(!&$5$%+&(O$,&H(F&+%, ' ,5*(+5H(>, ' $5+#f(
(!F(@KGJ(F#+%*$%" ' (`)𝕎(!&$5$%+&(O$,&H(F&+%, ' ,5*(+5H(>, ' $5+#f(
(!F(@K9G(F#+%*$%" ' ()𝕎(!&$5$%+&(O$,&H(F&+%, ' ,5*(+5H(>, ' $5+#f(
   !F(<:<G(U,&6.5𝔻(1+##$+6,𝔻(+5H(*2,(0+ ' $&Pf(
(!F(<::G(F#.-,ℕℕ$.5+&(/,C,&.R ' ,5*(+5H(!2#$ℕ*$+5(`H,5*$*Pf(
(

T$#&N(I 5(Q2,(U"5(!.+%2(-.#(>"5N,*(F#$ ' +#P(>%2..&D(>R#$56D(:G9J(
B'"?8%#5%+1%,75%'8%-%5#5@3"#4'+%3"*(*5+'#5%3"#."-$%+1-+%*5)#7"-.*8%3"*+**5%.'"?8%+#%*
;(*?#3%8*?4@"*83*)+%-5;%1*-?+1E%?'4*8+E?*8%+1"#7.1%"755'5.%*
B**,5H,H(iT&.7+&(3,+H,#N2$R(>" ' ' $*j0(B5(`5*,#5+*$.5+&(3,+H,#N2$R(>, ' $5+#0(
? $&&+ ' ,**,(!2#$N*$+5(!2"#%2D(:G9;0((
3,+H,#(-.#(? $&&+ ' ,**,(!2#$N*$+5(!2"#%2(h$HN(F#.6#+ 'D(:G9<8:G9;(
? . ' ,5eN(X$7&,(>*"HPD(? $&&+ ' ,**,(!2#$N*$+5(!2"#%2D(:G9<8%"##,5*(
!. ' ' "5$*P(T#."RD(? $&&+ ' ,**,(!2#$N*$+5(!2"#%2D(:G9<8%"##,5*(
T$#&N(I 5(*2,(U"5() .&"5*,,#D(T I QU(.-(F.#*&+5H(B#,+D(>R#$56(:G9<(
T I QU(_,+H(!.+%2(-.#(>"5N,*(F#$ ' +#P(>%2..&D(>R#$56D(:G9@(
B'"?8%#5%+1%,75%'8%-%5#5@3"#4'+%3"*(*5+'#5%3"#."-$%+1-+%*5)#7"-.*8%3"*+**5%.'"?8%+#%*
;(*?#3%8*?4@"*83*)+%-5;%1*-?+1E%?'4*8+E?*8%+1"#7.1%2(7)-0.8ETQ0.23N?*

/ ,%(:GG;(T#+H"+*,(>%2..&(Q"$*$.5(>%2.&+#N2$R(>+$5*(3."$N(V5$C,#N$*P(
(
Y"&P(:GG;(>" ' ',#(U,N,+#%2(BNN$N*+5*N2$R(>+$5*(3."$N(V5$C,#N$*P(
(
/ ,%(:GG@(T#+H"+*,(>%2..&(Q"$*$.5(>%2.&+#N2$R(>+$5*(3."$N(V5$C,#N$*P(
(
1+P(:GG=(S.'$5+*,H(-.#(&'8+'5.7'81*;%H-8+*"%8%01*8'8%:U-";(>+$5*(!&."H(>*+*,((((
((V5$C,#N$*P(
(
1+P(:GG=(B"-;7-+*%6+7;*5+%,*8*-")1%6)1#?-"81'3%:U-";(/ ,R+#*' ,5*(.-((((
((!.' '"5$*P(FNP%2.&.6P(>+$5*(!&."H(>*+*,(V5$C,#N$*P(
(
1+P(:GG=(63*)'-?%F"#<*)+8%-5;%,*8*-")1%A*5+*"%:U-";(/ ,R+#*' ,5*(.-(!.' '"5$*P(
((FNP%2.&.6P(!.&&,6,(.-(4H"%+*$.5(>+$5*(!&."H(>*+*,(V5$C,#N$*P(
(
Y"&P(:GG=(01*8'8%,*8*-")1%!75;%:U-";%3$-,>c$&&N(!,5*,#(-.#(3,+H,#N2$R(/+C,(((
((B5H,#N.5(1$55,N.*+(
(
(
!C&65)%F*Q676%5$,*S5%)&7P4()&5%$&7*

(
^+7"c$(U((g(!)?MF(@<.6?F@%))/*0-(Z:G9A

(
X#$ ' 2+&&D(BD(g(!) ?MF (@< . 6?F@%)) /* 0 -O-(Z : G99[D(>*+#*$56(. C , #W(B(* , 5*+*$C , (*2 , . #P(
(, MR& . #$56(*2 , (, -- , %*N(. -(R+N*(# , &+*$. 5N2$RN(. 5(R . N*87 , # , +C , ' , 5*(# , ' +##$, H(% . "R& , ND(
(*! - $ '?E%

>%2] ,#H*-,6,#(h(1$&&,#(X(!)?MF(@<.6?F@%))/*0-/*X#$ ' 2+&&(B(Z>,R*, ' 7,#(:G9:[(
(,*8+#"'5.%V#3*/%K#">'5.%U'+1%A#73?*8%!-)'5.%254*"+'?'+E(@82."#(>, ' $5+#(R#,N,5*,H(+*(
(*2,(B ' ,#$%+5(BNN.%$+*$.5(-.#(1+##$+6,(+5H(O+ ' $&P(Q2,#+RP(!2+#&.**,(S!((
(
!)?MF(@<.6?F@%))/*0-O-/*X#$ ' 2+&&(B(g(1$#,%c$(U(Z I %*.7,#(:G9G[(

fB5H,#NN.5D(hOD(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9K[0(F#(*"+E9%F*"83*)+'(*%-5;%
% V*-?'5./%D5;*"8+-5;'5.%-5;%0"*-+'5.%=#U@25)#$*%!-$'?'*80(F.N*,#(R#,N,5*,H(+*(*2,(
(>$'RN.5(V5$C,#N$*P(>*"H,5*(U,N,+#%2(>P'R.N$"'D(U,HH$56D(!B0%
(
fB*2*2+5+P+c+D(/0D(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9K[0(=#(*%G5*%:5#+1*"]%:8%2%1-(*%
% =#(*;%^#7R(>,'$5+#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(>*"H,5*(U,N,+#%2(
(>P'R.N$"'D(U,HH$56D(!B0(
(
fX+"ND(YOD(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9K[0(07"5'5.%-%_*U%=*-4%#5%+1*%
% 25+*".*5*"-+'#5-?%!-$'?E%0"**/%V*-?'5.%6E8+*$')%A1'?;%:L78*%U'+1%T#U*5%01*#"ER(
(F.N*,#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(>*"H,5*(U,N,+#%2(>P'R.N$"'D(U,HH$56D(
(!B0(%
(
f3$"D(/0D(g(!)?MF(@<*.6?F@%))/*0-*Z1+#%2D(:G9K[0(01*"-3*7+')%6+"-+*.'*8/%K#">'5.%U'+1%
% :8'-5%:$*"')-5%!-$'?'*80(F.N*,#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(>*"H,5*(
(U,N,+#%2(>P'R.N$"'D(U,HH$56D(!B0%
(
f3"%+ND(!0D(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9K[0(,-)'-?%2;*5+'+E%:U-"*5*88%'5%
% 0"-58"-)'-?%!#8+*"%!-$'?'*8R(>,'$5+#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(>*"H,5*(
(U,N,+#%2(>P'R.N$"'D(U,HH$56D(!B0%
(
f1$&2."ND(UOD(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9K[0(F#8+@K-"%`*+*"-5%F06&%-5;%
% 6+"7)+7"-?%!-$'?E%01*"-3E%-8%0"*-+$*5+0(F.N*,#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(
(>*"H,5*(U,N,+#%2(>P'R.N$"'D(U,HH$56D(!B0%
(
f)$&&+5",C+D(/0D(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9K[0(V*-?'5.%0"-;'+'#5-?%B*5;*"%
% ,#?*80(F.N*,#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(>*"H,5*(U,N,+#%2(>P'R.N$"'D(
(U,HH$56D(!B0(
*
!)?MF(@<.24218.5883356.52BT5000500 0TmT61Tf(.)0.4(6)0.2(?F)-0.1(@)-0.1(..1

fY.#H+5D(_DD(g(!)?MF(@<

```
f1P,#ND(?0D(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9:[0(!-$'?E@6E8+*$8%K#">%U'+1%
%        6)1'b#31"*5'-/%:%T#U*5'-5%G"'*5+*;%:33"#-)1R(>,'$5+#(R#,N,5*,H(+*(*2,(>$'RN.5(
(        V5$C,#N$*P(>*"H,5*(U,N,+#%2(>P'R.N$"'D(U,HH$56D(!B0%
(
fIH,&&D(Y0D(fX+&&D(>0D(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9:[0(2$3-)+%#4%-%63'5-?%A#";%25<7"E%
%        #5%!-$'?E%&E5-$')80(>,'$5+#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(>*"H,5*(U,N,+#%2(
(        >P'R.N$"'D(U,HH$56D(!B0%
*
f>+5H,#ND(>0(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G9:[0(01*%T"-'5%-5;%F8E)1#+1*"-3E0(
(        >,'$5+#(R#,N,5*,H(+*(*2,(>$'RN.5(V5$C,#N$*P(>*"H,5*(U,N,+#%2(>P'R.N$"'D(
(        U,HH$56D(!B0(
*
!)?MF(@<.6?F@%))/*0-*O-/(U,+HD(S0D(g(>%.**D(!0(Z1+PD(:G99[0(&*-?'5.%U'+1%V'.1%A#54?')+%
%        A#73?*8R%>,'$5+#(R#,N,5*,H(+*(*2,(!+&$-.#5$+(BNN.%$+*$.5(-.#(1+##$+6,(+5H(O+'$&P(
(        Q2,#+RPD(X"#&$56+',D(!B0(
((
fX+&&D(>0(g(!)?MF(@<*.6?F@%))/*0-(Z1+#%2D(:G99[0(!#".'(*5*88%'5%01*"-3ER%>,'$5+#(+5H(
(        F.N*,#(F#,N,5*,H(
```

(
!)?MF(@/*0-*O-/(g(X#$'2+&&D(BD(ZI%*.7,#D(:GGJ[D((&'(#")*%:;<78+$*5+/%01*%254?7*5)*%#5%
% ,*$-"'+-?%6-+'84-)+'#5R(F.N*,#(R#,N,5*,H(+*(*2,(B',#$%+5(BNN.%$+*$.5(-.#(1+##$+6,(
(+5H(O+'$&P(Q2,#+RPD(>+%#+',5*.D(!BD(
(
!)?MF(@/*0-O-/*1.&$*.#D(1DBDD(g(Q"#cD(4D1D*ZBR#$&D(:GG=[D(0*-)1'5.%-5;%=*-"5'5.%
% H7?+')7?+7"-?%%A#$3*+*5)'*8D(F#,N,5*+*$.5(R#,N,5*,H(+*(*2,(>*"H,5*(U,N,+#%2(
(!.&&.d"$"'D(>+$5*(!&."H(>*+*,(V5$C,#N$*PD(>*D(!&."HD(1SD(
(
(
2+6$%&"'("&/(4#"#+(!%&71++,(2+3$+.+/(0&3$#+/(1,+*+&#"#$%&*("&/(4+5$&",*(
(
!)?MF(@<.6?F@%))/*0DD(_$&&D(XDD(1+**N.5D(UDD(g(B#',#H$56D(!D(Z1+P(:G9J[D(U+$N$56(
(/+"62*,#NW(4'R.],#$56(1.*2,#N(*.(F+#,5*(]$*2(*2,(,5H($5(1$5HD(>."*23+c,(!2"#%2D(
(F.#*+5HD(I#,6.5D((
*
!)?MF(@<.6?F@%))/*0-D(Q$&&.*N.5D(_DD(g(F.#*,#-$,&HD(1D(ZO,7#"+#P(98:D(:G9J[D(1+##$+6,(
(!.5-,#,5%,D(_.&H(1,(Q$62*W(!.5C,#N+*$.5N(-.#(!.55,%*$.5D(U.&&$56(_$&&N(!2"#%2D(
(F.#*&+5HD(I#,6.5D((
*
!)?MF(@<.6?F@%))/*0-/*_$&&D(XDD(1+**N.5D(QDD(g(B#',#H$56D(!D(Z1+PD(:G9A[D(U+$N$56(
(/+"62*,#NW(3,+#5$56D(3.C$56D(3,+H$56D(>."*23+c,(!2"#%2D(F.#*&+5HD(I#,6.5D((
(
/,h#"P-D(3DD(X,+#H,5D(>DD(X,#+#H$D(BDD(!&,+C,#D(!DD(/,'RN,PD(hDD(!)?MF(@<.6?F@%))/*0DD(
(3$%2*,57,#6D(YDD(>+&+a+#D(XDD(>2+]D(UDD(g(>],,5,PD(/D(ZS.C,'7,#D(:G9@[D(T,.#6,(O.M(
(V5$C,#N$*P(>R#$56(O+%"&*P(!.5-,#,5%,D(!."5N,&.#(4H"%+*.#N(3,+58`5(*.(?+&c(*2,(
(Q+&cW(B(

(
X . . c(U , C$,] (. -(0 ( ) 6J*%) "* 0 6%) ') ?W*X6R* Y %J7*& (* , % I 6*4 ( ) I 657%&' ( ) 7*3M (#&* 0 ( ) 6J*
R'& , *Z (#5*4F'6) &7/(7P(Y "H$*2(>* , #5(F , %c▯(Y*#7"5 - ?%#4%A#73?*%c% , *?-+'#581'3%01*"-3E▯(I %* . 7 , #(
: GGA▯( ) . &(; ZK[▯(
*

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