

! "##\$%"&' ' () \$*+, (-. #/#0(1 \$%2, &&, (30(4567&. ' 8/, 6&' +55(
9: ; <=>? (@A^2(BC, 5", \EF<9G(
F. #*&+5HD\I #, 6. 5(J; :: =(
=9K\@@: 0=KA=(((!((' , 567&. ' L6, . #6, -. M0, H"(
((((((((((((((((((((((((((((((((

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

+ , -. -(! . "5N, &\$56(+5H(O+' \$&P(Q2, #+RPI(S. C, ' 7, #(: GGJ(
(T#+H"+*, (1 \$5. #(\$5(U, N, +%2(1, *2. H. &. 6P(
(>+\$5*(3. "\$N(V5\$C, #N\$*PI(>+\$5*(3. "\$ND(1 \$NN. "\$\$X! I B 1 0Q4(B%%#, H\$*, H(
* *

VRH+*, (+&&%&&\$5\$%+&(-. #' N(-. #(! 1! _D(1! 0! D(4>F>(+5H(1 >! S(R#. 6#+ ' (*. (7, (\$' R&, ' , 5*, H(\$5*. (5,] (%&&\$5\$%+&(R#. 6#+' D(Q, C, #+(`H, 5*\$-P(+5H(\$' R&, ' , 5*(&, +H(R#. -, NN. #N(-. #(+&&(T>! (%. "#N, N(U, N, +#%2D(N, &, %*(+5H(\$' R&, ' , 5*(5,] (%&&\$5\$%+&(R#. 6#+' D(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! 0! (F#. 6#+' (/ \$#, %*. #Z: G9J

377'7&%)&7, '=!B)&65)7, '=!%)''*+5%\$&'\$#@*! C=65'6)\$67*

%

F"#('; *; /%

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

((25; '(; 7-?%-5; % - \$'?E%I-++*"8%B*#" . *% #C%D5'(*"8'+E9%F#" +?-5; 9%

D&, 65*+5(E677' () %F*! C=65'6) \$67*

(
Y''&P(: G9G8: G9KX! &\$5\$%+&(Q#+\$5\$56(/\$#, %*. #bBNN\$N*+5*(F#.-, NN. #(
(>\$' RN. 5(V5\$C, #N\$*P(U, HH\$56X! +&\$-. #5\$+D(
! #, +*, 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" +&X' +N*, #eN(*2, N\$N(' +5" +&(+5H(N, C, #+&(
N*" H, 5*(&, +\$5\$56(. RR. #*"5\$*\$, N(ZBFB(] #*\$56D(2.] (* (7, (N" %%, NN-" &(\$5(
6#+H" +*, (N%2. . &D("N\$56(F.] , #F. \$5*D(, *%0[(
(
I %*(: GGJ8Y''&P(: G9GX(>. " *2, #5(&&\$5. \$N(! &\$5\$%+&(>" R, #C\$N. #(
(3"*2, #+5(! 2\$&H(+5H(O+' \$&P(>, #C\$%, ND(X, &&, C\$&&, D(&&\$5. \$N(
F#. C\$H, H(] , , c&P(N" R, #C\$N\$. 5(*. (C, #(9G(*2, #+R\$N*N(+*(-. " #(% . "5N, &\$56(
&. %+*\$. 5N(*. (' . 5\$*. #(%&\$5\$%+&([) . #cD(+H' \$5\$N*#+*\$C, (\$NN", ND(+5H(% . 5N\$N*, 5*&P(
-" &&(%+N, &. +HN(
U, C\$,] , H(+&&(%&\$5\$%+&(R+R, #] . #c(+5H(\$' R&, ' , 5*, H(R, , #(#, C\$,] (R#. %, NN(
(
: GG<8: G9GX(O

O+%\$&\$*+*, H[] , , c&P(6#. "RN[] \$*2(+H. &, N%, 5*N(-. %"N\$56(. 5(N, M"+&\$*P(
*#, +' , 5*X(-+' \$&P(\$NN", ND(2, +&\$56D/#, %. 5%\$&\$+*\$\$. 5D(+5H(, ' . *\$. 5+&(

(

(

: GG: 8: GG=D(1, 5*+&(, +&*2b(0+' \$&P(Q2, #+RP(5* , #5(

(

O+' \$&P(F#. NR, %*\$C, (U, N. "##%, ND(X\$6(3+c, (1 \$55, N. *+(

>, #C, H(. 5(+(*, +' (] \$*2\$5(+N*#"%"*"#, HD(N, &-8%. 5*+\$5, H(N%2. . &(R#. C\$H\$56(

6#. "RD(-+' \$&PD(+5H(\$5H\$C\$H"+&(*2, #+RPD(VN, H(+2. &\$N*\$\$(+RR#. +%2(

, ' R2+N\$a\$56(-+' \$&P(\$5C. &C, ' , 5*X(+R. N*\$C, (, 5C\$. 5' , 5*X(+5H(%). 5N\$N*, 5%P(

\$5(7, 2+C\$. #N(

(

: GGG8: GG=D(X+**, #, H(? . ' , 5eN(BHC. %*+, (

(

! , 5*#+&(1 \$55, N. *+(O+Nc(O. #%, (. 5(X+**, #, H(? . ' , 5D(>*Q! &. "H(1 \$55, N. *+(

>, #C, H(+N(+/#, N. "##%, (+5H(+HC. %*+, (-. #H(. ' , N*\$\$(C\$. &, 5%, (#, -, ##+&(+5H(

%#\$N\$N(%+&&N(

O+%\$&\$*+*, H[] , , c&P(6#. "RN(-. #[] . ' , 5(+5H(%2\$&H#, 5(-H(. ' , N*\$\$(C\$. &, 5%, (

I 5

(! 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, (O+' \$&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%8'4*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(TI QU(. -(F. #*&+5H(B#, +D(>R#\$56(: G9<(
TI 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%8'4*8+E?*8%1"#7. 1%2(7)-0. 8ETQ0. 23N?

/,%(: GG;(T#+H"+*,(>%2..&(Q"\$*\$\$. 5(>%2.&+#N2\$RD(>+\$5*(3. "\$N(V5\$C, #N\$*P(
 (>"' ' , # (U, N, + # % 2 (BNN\$N*+5*N2\$RD(>+\$5*(3. "\$N(V5\$C, #N\$*P(
 Y"&P(: GG;(>"' ' , # (U, N, + # % 2 (BNN\$N*+5*N2\$RD(>+\$5*(3. "\$N(V5\$C, #N\$*P(
 (/,%(: GG@ (T#+H"+*,(>%2..&(Q"\$*\$\$. 5(>%2.&+#N2\$RD(>+\$5*(3. "\$N(V5\$C, #N\$*P(
 (1+P(: GG=(S.' \$5+*, H(-. #(&'8+'5. 7'81*; %H-8+*"X8%D1*8'8% U-"; D(>+\$5*(! &. "H(>+*, (((V5\$C, #N\$*P(
 (((B"-; 7-+*%6+7; *5+% *8*-")1%6)1#?- "81'3% U-"; D(/, R+#*' , 5*(. -((((! . ' ' "5\$*P(FNP%2. &. 6PD(>+\$5*(! &. "H(>+*, (V5\$C, #N\$*P(
 ((1+P(: GG=(63*)'-?%F"#<*)+8%-5; % *8*-")1%A*5+*"U-"; D(/, R+#*' , 5*(. -(! . ' ' "5\$*P(
 (((FNP%2. &. 6PD(! . &&, 6, (. -(4H"%+*\$. 5D(>+\$5*(! &. "H(>+*, (V5\$C, #N\$*P(
 ((Y"&P(: GG=(01*8'8% *8*-")1% 75; % U-"; %B\$-, >c\$&&N(! , 5*, #(-. # (3, +H, #N2\$RD(/+C, (((B5H, #N. 5D(1\$55, N. *+(
 ((((! C&65)%F*Q676%5\$, *S5%)&7P4()&5%\$&7*

^+7" c\$D(U0(g(!)?MF(@<. 6?F@%))/*O-(Z: G9A

(
X#\$' 2+&&(B0(g(!)?MF(@<. 6?F@%))/*O-0-(Z: G99[0(>*+##\$56(. C, #W(B(*, 5*+*\$C, (*2, . #P(
(, MR&. #56(*2, (, --, %*N(. -(R+N*(#, &+*\$. 5N2\$RN(. 5(R. N*87, #, +C, ' , 5*(#, ' +##\$, H(% . " R&, N0(
(! - \$ 'E%

>%2] , #H*- , 6, #D(h00(1 \$&&, #D(X00(!)?MF(@<. 6?F@%))/*O-/*X#\$' 2+&&D(B0(Z>, R*, ' 7, #D: G9: [0(
(, *8+#""5. %V/#3*/%K#"'>'5. %J'+1%A#73?*8% -)'5. %254*"+?''+E0@82. "#(>, ' \$5+#(R#, N, 5*, H(+*(
(*2, (B' , #\$\$+5(BNN. %\$+*\$\$. 5(-. #(1+##\$+6, (+5H(0+' \$&P(Q2, #+RPI! 2+#&. **, D(S! 0(
(
(!)?MF(@<. 6?F@%))/*O-/*X#\$' 2+&&D(B0(g(1 \$#, %c\$D(U0(Z1 %*. 7, #D: G9G[0

fB5H, #NN. 5D(h00(g!))?MF(@<. 6?F@%))/*O-(Z1 +#%2D: G9K[0(F#(*"+E9F*"83*))+'(*%-5; %
% V*-?'5. /%D5; **8+-5; '5. %-5; %D**-'5. %=#U@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%
(

fB*2*2+5+P+cD(/00(g!))?MF(@<. 6?F@%))/*O-(Z1 +#%2D: G9K[0(=#(*%G5*% 5#+1**])% 8%2%1 - (*%
% =#(*; %^#7K(>, ' \$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(Y00(g!))?MF(@<. 6?F@%))/*O-(Z1 +#%2D: G9K[0(07"5'5. %-_%*U%=-4##5%-1*%
% 25+*" . *5**-'#5-?% - \$?'E%0**%/W*-'?5. %E8+*\$')%A1?; % L78*%J'+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(/00(g!))?MF(@<. 6?F@%))/*O*Z1 +#%2D: G9K[0(01**"-3*7+')%+*-'*8/%K#">'5. %J'+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(! 00(g!))?MF(@<. 6?F@%))/*O-(Z1 +#%2D: G9K[0(, -)'-?2; *5+'E% U-"*5*88%5%
% 0"-58"-)'-?% #8+**% - \$?'*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%
(

f1\$&2. "ND(U00(g!))?MF(@<. 6?F@%))/*O-(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(/00(g!))?MF(@<. 6?F@%))/*O-(Z1 +#%2D: G9K[0(V*-?'5. %D"-; '+#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. 52B50005000T#T61T(.)O. 4(6)O. 2(?F)-O. 1(@)-O. 1(. . 1

fY. #H+5D_0(g(!)?)MF(@<

f1P, #ND(? 0(g!))?MF(@<. 6?F@%))/*O-(Z1 +##%2D: G9: [0! - \$'E@6E8+* \$8%< #'>%J'+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%
(

fI H, &&D(Y0(fX+&&D(>0(g!))?MF(@<. 6?F@%))/*O-(Z1 +##%2D: G9: [0(2\$3-)+##4%- %3'5-?%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@%))/*O-(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@%))/*O-0-/(U, +HD(S0(g(>% . **D(! 0(Z1 +PD: G99[0(&*-'5. %J'+1%V'. 1%A#54?')+%
% A#73?*8R%, ' \$5+#(R#, N, 5*, H(+*(2, (! +&\$-. #5\$+(BNN. %\$+*\$\$. 5(-. #(1 +##\$+6, (+5H(0+' \$&P(
(Q2, #+RPI(X" #&\$56+' , D(! B0(
((

fX+&&D(>0(g!))?MF(@<. 6?F@%))/*O-(Z1 +##%2D: G99[0(! #". '(*5*88%5%01*" -3ER%, ' \$5+#(+5H(
(F. N*, #(F#, N, 5*, H(
(

(
!)?MF(@/*O-0-/(g(X#\$' 2+&&B(ZI %* . 7, #D: GGJ[O((#'")*% ; <78+\$ *5+/%D1*%25477*5)*%#5%
% , *\$-''+-%-+'84-)+'#5R(F. N*, #(R#, N, 5*, H(+*(^2, (B' , #\$\$+5(BNN. %\$+*\$. 5(-. #(1 +##\$+6, (
(+5H(0+' \$&P(Q2, #+RPD(>+%#+' , 5*. D(! BQ(
(
!)?MF(@/*O-0-/*1. &\$*. #D(1 0BQ(g(Q" #cD(401 0^ZBR#&D: GG=[Q(O*-)1'5. %-5; %*- -"5'5. %
% H7?+')7?+7"-?%A#\$3*+*5)'*8Q(F#, N, 5*+*\$. 5(R#, N, 5*, H(+*(^2, (>*"H, 5*(U, N, +##%2(
(!. &&. d"\$"" D(>+\$5*(! &. "H(>*+*, (V5\$C, #N\$*PD(>*Q! &. "HD(1 SQ(
(
(
2+6\$%&"'("&/4#"#+(! %&71++, (2+3\$+. +/(0&3\$#+/ (1, +*+&#"#\$%&*("&/4+5\$&" , *(
(
!)?MF(@<. 6?F@%))/*OQ(\$&&XQD(1 +**N. 5D(UQD(g(B#' , #H\$56D(! QZ1 +P(: G9J[Q(U+\$N\$56(
(/+"62*, #N(W(4' R.] , #56(1 . *2, #N(*. (F+#, 5*(] \$*2(*2, (, 5H(\$5(1\$5HQ(>. ""*23+c, (! 2" #2D(
(F. #*+5HD(I #, 6. 5Q(
*
!)?MF(@<. 6?F@%))/*O-D(Q\$&&. *N. 5D(QD(g(F. #*, #-\$, &HD(1 Q(ZO, 7#" +#P(98: D: G9J[Q(1 +##\$+6, (
(!. 5-, #, 5%, Q_. &H(1 , (Q\$62*W(! . 5C, #N+*\$. 5N(-. #(! . 55, %*\$. 5Q(U. &&\$56(_\$&&N(! 2" #2D(
(F. #*+5HD(I #, 6. 5Q(
*
!)?MF(@<. 6?F@%))/*O-/*_&&D(XQD(1 +**N. 5D(QQD(g(B#' , #H\$56D(! QZ1 +PD: G9A[Q(U+\$N\$56(
(/+"62*, #N(W(3, +\$5\$56D(3. C\$56D(3, +H\$56D(>. ""*23+c, (! 2" #2D(F. #*+5HD(I #, 6. 5Q(
(
/, h#"P-D(3QD(X, +#H, 5D(>QD(X, #+H\$D(BQD(! &, +C, #D(! QD(/, ' RN, PD(hQD(!)?MF(@<. 6?F@%))/*OQD(
(3\$%2*, 57, #6D(YQD(>+&+a+#D(XQD(>2+) D(UQD(g(>] , , 5, PD(/Q(ZS. C, ' 7, #D: G9@[Q(T, . #6, (O. M(
(V5\$C, #N\$*P(>R#\$56(O+%''&*P(! . 5-, #, 5%, Q(! . ""5N, &. #(4H''%+*. #N(3, +58'5(*. (? +&c(*2, (
(Q+&cW(B(
(

(
X. .c(U, C\$,] (. -(O() 6J*%)"*O6%)')?WX6R*Y%J7*(&(*, %I 6*4() I 657%&'() 7*3M(#&*O() 6J*
R'&, *Z(#5*4F'6)&7/(7P(Y''H\$*2(>*, #5(F, %c0(Y#7"5-?%#4%A#73?%c% *?-'#581'3%01*" -3ED(I %*. 7, #(: GGAD). &(; ZK[0
*

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