

!
" # \$ % & ! " # ' & (!
) *) * ! + # , , (% ! - . \$ (!
/ \$ 0 1 (% & 0 2 3 ! # 4 ! 5 6 . & 7 . ! 8 . 0 % 9 . \$ 7 & !
8 . 0 % 9 . \$ 7 & ! 5 ; ! < < = > !
? < @ = A ! = < < B = C = D ! ? E (6 6 A !
. F 0 % & E F G . 6 . & 7 . H (I ' !
!

! " # \$ % & ' () *

+++++

!
/ \$ 0 1 (% & 0 2 3 ! # 4 ! + . 6 0 4 # % \$ 0 . ! J . \$ 2 . ! + % ' K !
! L F H M ! 0 \$! L # 6 0 2 0 E & ! ? (N , F . & 0 & : ! " 0 & 2 # % 3 ! # 4 ! + # \$ & E 0 # ' & \$ (& & A ! C @) !
! O H 5 ! ! 0 \$! L # 6 0 2 0 E & : ! C @ @ = !
/ \$ 0 1 (% & 0 2 3 ! # 4 ! O . & & . E F ' & (2 2 & : ! 5 N F (% & 2 !
! ! ! ! ! ! ! ! ! P H 5 ! 0 \$! J # E 0 . 6 ! Q F # ' R F 2 ! . \$! ! L # 6 0 2 0 E . 6 ! S E # \$ # N 3 ! ? & ' N N . ! E ' N ! 6 . ' I (A ! : C @ @ T !
*

, % \$ # - & . * / 0 0 (') & 1 2) & 3 *

.....

!
/ \$ 0 1 (% & 0 2 3 ! # 4 ! 5 6 . & 7 . ! 8 . 0 % 9 . \$ 7 & !
!!!!!!!!!!!!!! L % # 4 (& & # % ! M (, . % 2 N (\$ 2 ! # 4 ! L # 6 0 2 0 E . 6 ! J E 0 (\$ E (: ! C @ C C B B # \$ R # 0 \$ R H ! ! ! !
!!!!!!!!!!!!!! 5 & & # E 0 . 2 (! L % # 4 (& & # % ! M (, . % 2 N (\$ 2 ! # 4 ! L # 6 0 2 0 E . 6 ! J E 0 (\$ E (: ! C @) = B B C @ C C H ! !
!!!!!!!!!!!!!! 5 & & 0 & 2 . \$ 2 ! L % # 4 (& & # % ! M (, . % 2 N (\$ 2 ! # 4 ! L # 6 0 2 0 E . 6 ! J E 0 (\$ E (: ! C @) C B B C @) D H ! ! ! ! ! ! ! ! ! ! ! ! ! ! !
/ \$ 0 1 (% & 0 2 3 ! # 4 ! + . 6 0 4 # % \$ 0 . ! " ' N . \$ 0 2 0 (& ! U (& (. % E F ! V \$ & 2 0 2 ' 2 (! !
! U (& 0 1 (\$ 2 0 . 6 ! U (& (. % E F ! 8 (6 6 # W : ! C @)) B C @) C H !
X # % 2 F (. & 2 (% \$! / \$ 0 1 (% & 0 2 3 !
! - (E 2 ' % (! M (, . % 2 N (\$ 2 ! # 4 ! L # 6 0 2 0 E . 6 ! J E 0 (\$ E (: ! C @ @ < Y C @)) H ! ! !
/ \$ 0 1 (% & 0 2 3 ! # 4 ! O . & & . E F ' & (2 2 & : ! P # & 2 # \$!
! - (E 2 ' % (! M (, . % 2 N (\$ 2 ! # 4 ! 5 N (% 0 E . \$! J 2 ' I 0 (& : ! C @ @ < Y C @) @ H !
/ \$ 0 1 (% & 0 2 3 ! # 4 ! + . 6 0 4 # % \$ 0 . ! J . \$ 2 . ! + % ' K !
! Q (. E F 0 \$ R ! 5 & & 0 & 2 . \$ 2 : ! M (, . % 2 N (\$ 2 ! # 4 ! L # 6 0 2 0 E & : ! C @ @ > Y C @ @ < H !
!
!!

/ " 1 ') ' 3 & 4 % & ' 5 2 * / 0 0 (') & 1 2) & 3 *

+++++

!
!
/ \$ 0 1 (% & 0 2 3 ! # 4 ! 5 6 . & 7 . ! 8 . 0 % 9 . \$ 7 & !
! 5 & & # E 0 . 2 (! Z 0 E (! + F . \$ E (6 6 # % ! # 4 ! J 2 ' I (\$ 2 ! S [, (% 0 (\$ E (: ! C @ \ B C @ C T H !
!!!!!!!!!!!!!! M 0 % (E 2 # % ! " # \$ % & ! + # 6 6 (R (: ! C @) * !] ! # \$ R # 0 \$ R H !
! ! M 0 % (E 2 # % ! + 6 0 N . 2 (! J E F # 6 . % & ! L % # R % . N : ! C @) < !] ! # \$ R # 0 \$ R H !
! ! + # B M 0 % (E 2 # % ! X . \$ # # 7 ! P # # 2 F (% F # # I ! L % # ^ (E 2 : ! C @ C @ !] ! # \$ R # 0 \$ R H !
!!!!!!!!!!!!!! 8 . E ' 6 2 3 ! - (. I : ! " . % 3 ! J H ! O % ' N . \$! J E F # 6 . % & F 0 , ! 8 # ' \$ I . 2 0 # \$: ! C @) * !] ! # \$ R # 0 \$ R H !
!!!!!!!!!!!!!! 8 . E ' 6 2 3 ! 5 N 9 . & & . I # % ! _ 4 4 0 E (! # 4 ! V \$ 2 (6 6 (E 2 ' . 6 ! L % # , (% 2 3 ! . \$ I ! + # N N (% E 0 . 6 0 K . 2 0 # \$: ! C @ C @ !] ! !
!!!!!!!!!!!!!! C @ C H !
!!!!!!!!!!!!!! L % # R % . N ! + F . 0 % ! ` # N (\$: ! a (\$ I (% ! . \$ I ! J ([' . 6 0 2 3 ! J 2 ' I 0 (& : ! C @) = !] ! C @) * H !

! "#!"

!
!!!!!!!!!!!!!!!!!!!!g" #, (!. \$! !5R#\$0&N!0\$!2F(!X.201(!5N(%0E.\$!L#6020E.6!QF#' RF2!#4!` 0660. N!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!5, (&:i!! #J\$5'6,+(*6\$K(#2(#!\<!?\A:!C@)=H!!
!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

!!!!!!!!!!!!!!g-010\$R!_\$.i!! "#\$<'2#&@')*7\$<'28,+ '2:J(, 2(N9(%\!:C@)\H!

!

!!!!!!!!!!!!!!' : ; 2,&5(. !8&&6<&!69. !8. ,0\$),62&!

!

!!!!!!!!!!!!!!gl O(Q##!. \$I !2F(!L#6020E&!#4!U(\$ (W. 6:i !<6*),+7\$O*3*: ,2#>\$h' \$(!C@)*H!!!!!!!!!!!!!!

!

!!!!!!!!!!!!!!g56. &7. !JF#' 6I !M(E6. %(!. !J([' . 6!5&&. ' 62!J2. 2(!#4!M0&. &2(%i!- 2('')*3#%*,67\$I #J.!!

!!!!!!!!!!!!!!5' R' &2!=:!C@)=H!

!

!!!!!!!!!!!!!!g56. &7. !JF#' 6I !M(E6. %(!. !J([' . 6!5&&. ' 62!J2. 2(!#4!M0&. &2(%i!

!

"!&!"

; (3\$#2(!511%(&&!

5W.%l (I :!<#2+#)\$/'\$! #*(",23\$HB(#66#2(#\$- J*)8:!/ \$01 (%&023!#4!+ . 604#%\$0. :!J. \$2. !!
!!!!!!!+%' K:!8. 66!C@)H!

5W.%l (I :!A26,2#\$\$! #*(",23\$HB(#66#2(#!X#%2F (. &2(%\$!/\$01 (%&023:!J, %0\$R!C@))H!

!

6()E242)\$2*; %4&'\$'O%&'() **

+++++
!

g5E20#\$. 96(!+60N.2(!JE0(\$E(!. \$!S[, (%0(\$20. 6!SI' E. 20# \$!0\$!2F (!5%E20E:i \$- 2\$HB,. #2+, *6\$! ''6E,+\$\$
\$\$\$\$\$\$\$\$\$\$\$/')\$<6, &*#F1. +, (#\$H81(*+'). :!U. EF (6!+ . %&# \$!+ (\$2(%!O' \$0EF:!a (%N. \$3:!h' 63!C@C@H\$
I *+, '2*6\$<'66#3, *#C'2'). \$<'12(,6\$- 221*6\$<'2/#)2(#.!X(W!_%b(. \$&:- 5H!X#1(N9(%!C@)<H\$\$
- 221*6\$I *+, '2*6\$<'2/#)2(#\$'2\$=*(#*28\$H+'2,(+7\$,2\$- &#),(*2\$C,3''#)\$H81(*+, '2:!X(W!_%b(. \$&:- 5H!!!
!!!!!!!!!!!!!!O. 3!C@)*H!

I *+, '2*6\$<'66#3, *#C'2'). \$<'12(,6\$- 221*6\$<'2/#)2(#.!P#&2# \$:!OH5H!X#1(N9(%!C@)*H!

!gP(2W((!\$!SN, .2F3!.\$!IVN. R0\$. 20# \$:i !2F (!N#. #)2\$5'6,+(*6\$K(#2(#\$- ..'(*+, '2\$- 221*6\$O##+,23:!!

!!!!!!!!!!!!Z. \$E# '1(%!P+ :!O. %EF!C@)=H!

!!!!!!!!!!!!!!gL#6020E. 6!O# ' %\$0\$R!0\$!+#N, .%. 201(!L(%&, (E201(:i !2F (!N#. #)2\$5'6,+(*6\$K(#2(#\$- ..'(*+, '2!!

!!!!!!!!!!!!!! - 221*6\$O##+,23

O5!QF(&0&!+#NN022(!O(N9(%!0\$!+#NN' \$0E.20#&\$f!O0\$!3!_jX(.66!R%. I' .2(IA:IV9%.F0N!!
!!!!!!aF.60#' N;!; .2(!51(%3H!

!
LFM!+#NN022(!f!Q.%.!P.66.%!!?!+F.0%A:!O. %R.%(2!U' I #6, F!?!+F.0%A:!h#F\$!O(&&0E7:!q.E7. %3!!
!!!!!!JN02F!?!+F.0%AH!

/\$! (%R%. I' .2(!J(\$0#%QF(&0&!+F.0%h#\$.2F. \$!o' 0\$#\$(&!R%. I' .2(IA:h.E7&#\$\$` 066. %! !!
!!!!!!R%. I' .2(IA:!M. \$0(6!J2%0R6(!R%. I' .2(IA:!O. %R#2!5I .N&!R%. I' .2(IA:!.EF6. \$!a066(&, 0(!!
!!!!!!R%. I' .2(IA:!J061. \$!JEF' 22\$(%R%. I' .2(IA:!O.22F(W!` (&2!R%. I' .2(IA:!O.22F(W!U3. \$!!!
!!!!!!" .%0&!R%. I' .2(IA:!P([6(3!P%#W\$!?!/55A!R%. I' .2(IA:!P%. \$! #P6' N!R%. I' .2(IA:!U3. \$!!
!!!!!!L' 60&:!a.9%0(6. !M%. , (%R%. I' .2(IA:J.%. F!O. \$%0d' (K!R%. I' .2(IA:!. &(3!+ .&#%2!!
!!!!!!R%. I' .2(IA:!O.22F(W!O(%2(&!; .36. !" .(R!R%. I' .2(IA:150I. \$!S. %\$(&2!R%. I' .2(IA:SN063!!!
!!!!!!+ #F(\$!R%. I' .2(IAH!

!
/\$! (%R%. I' .2(!V\$2(%! 0&E0, 60\$. %3!O. ^%# + #NN022(!f!S%0\$!OEU#%23!R%. I' .2(IA:!. &(3!+ .&#%2!!
!!!!!!?+F.0%!R%. I' .2(I

!!!!!!!!!!!!S2F0E&!U(, %(&(\$2.201(:!a(\$(%6!SI' E.20#\$!U(d' 0%(N(\$2!+#NN022(:!8. E' 623!J(\$2(:!!
!!!!!!!!!!!!!!!!!!!!C@C@BCC#H!
!!!!!!!!!!!!J#E0.6!JE0(\$E(!U(, %(&(\$2.201(:!8. E' 623!J(\$2(:!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!C@)D!]!!
!!!!!!!!!!!!!!!!!!!!C@)<#H!
!!!!!!!!!!!!a' (&2!J, (.7(%!! =,A\$5)'3)*&\$%*7!8(9%' .%3!C)!C@)<#H!
!!!!!!!!!!!!a' (&2!J, (.7(%!T#2#)*+, '2\$- (+, '2:!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!C@)<#H!
!!!!!!!!!!!!a(\$(%6!SI' E.20#\$!U(d' 0%(N(\$2!+#NN022(:!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!C@)D!]!!!
!!!!!!!!!!!!!!!!!!!!C@)<#H!
!!!!!!!!!!!!+F. 0%1J. 99. 20E. 6!+#NN022(:!+#66(R(!#4!-09(%6!5%2&:!C@)*!]!C@C@#H!
!!!!!!!!!!!!+#B+F. 0%!Q(\$' %(!. \$! !L%#N#20#\$!U(10(W!+#NN022(:!J#E0.6!JE0(\$E(!L((%!/02:!!
!!!!!!!!!!!!!!!!!!!!C@)<BC@C)H!
!!!!!!!!!!!!J#E0.6!JE0(\$E(!L((%!/02!Q(\$' %(!. \$! !L%#N#20#\$!+#NN022(:!+#66(R(!#4!-09(%6!5%2&:!
!!!!!!!!!!!!!!!!!!!!C@)=!]!#\$R#0\$RH!
!!!!!!!!!!!!SI 02#%0. 6!P#.#! !:+6. %023!O. R. K0\$(:!+#66(R(!#4!-09(%6!5%2&:!C@)\!]!C@)*#H!
!!!!!!!!!!!!" 0&2#%3!M(, .%2N(\$2!8. E' 623!J.(%EF!+#NN022(:!J, %0\$R!C@)*#H!
!!!!!!!!!!!!+#B_#R. \$0K(%.\$! !h' !R(:!S2F0E&!P#W6:!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!!
!!!!!!!!!!!!!!!!!!!!J, %0\$R!C@)>:!C@)D;!C@)=:!C@)*#H!
!!!!!!!!!!!!J, (.7(%!+6. &&%#N!V\$&01 (!_' 2:!+-5:!C@)D;!C@)=:!C@)*:!C@)<#H!
!!!!!!!!!!!!!!!!!!!!8. E' 623!5! 10&(%2#!J#E%. 20E!J#E0(23:!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!8. 66!C@)T!]!C@)*#H!
!!!!!!!!!!!!8. E' 623!5! 10&(%2#!L0!J0RN. !56, F. :!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!C@)\!]!C@)*#H!
!!!!!!!!!!!!8. E' 623!J.(%EF!+#NN022(:!L#6020E. 6!JE0(\$E(!M(, .%2N(\$2:!/01(%&023!#4!56. &7. !!
!!!!!!!!!!!!!!!!!!!!8. 0%9. \$7&:!C@)TH!
!!!!!!!!!!!!8. E' 623!J.(%EF!+#NN022(:!L#6020E. 6!JE0(\$E(!M(, .%2N(\$2:!/01(%&023!#4!56. &7. !!
!!!!!!!!!!!!!!!!!!!!8. 0%9. \$7&:!C@)CH!
!
!!!!!!!!!!!!J.(%EF!E#NN022(:!/W. %! !P#'\$! !5&&#E0. 2(!M0%(E2#%!&' NN(%!C@C)H!
!!!!!!!!!!!!L#%1#&2!+#' \$E06:!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!8. 66!C@)*!]!#\$R#0\$RH!
!!!!!!!!!!!!!!!!!!!!h' !R(:!Q28#)3)*81*#=#.#*)(''\$*28\$K(''6*)67\$- (+,L,+7\$- J*)8\$<'&@#+,+, '2:!&, %0\$R!
!!!!!!!!!!!!!!!!!!!!C@)DH!
!
/5!JEF#6. %&!U(E(, 20#\$!S1(\$2&f!8. 0%9. \$7&!. \$! !5\$EF#%. R(:!X#1(N9(%!C@)*:!C@)<#H!
!!!!!!!!!!!!!!!!!!!!L#%1#&2!J.(%EF!+#NN022(:!/01(%&023!#4!56. &7. !8. 0%9. \$7&:!C@)=!B!C@)*#H!
!
! L. \$(60&2!<'&&+##\$' 2\$+'#K+*+1.\$'/N'\$! #21)#\$? \$5)'&' +, '2\$N')E. "'@!!
!!!!!!!!!!!!!!!!!!!!5, %06!C)!C@)=#H!
!
CH!K#)L,(\$+'\$+'#\$<'&&12,+7\$!
!
O#1 (%.2#%!<6,&*#F'D.>\$*28\$F1.+,\$\$<*28,8*#U')1&:!O#\$! .3!5' R' &2!C\)!C@C)H!
V\$&2%' E2#%!_&F(%!-04(6#\$R!-(. %\$0\$R!V\$&202' 2(:!g+#\$2(N, #%. %3!L#6020E&!#4!56. &7. :!J, %0\$R!
!!!!!!!!!!!!C@C)H!
O#1 (%.2#%!! "\$-\$6*. E*\$<#2+#)!O' \$0E0, .6!+. \$! 0! .2(!8#%' N:!8. 0%9. \$7&!X#%2F!J2. %!
!!!!!!!!!!!!P#%#%' RF:!&' NN(%!C@C@#H!
O#1 (%.2#%!! "\$-\$6*. E*\$<#2+#)!56. &7. !J2.2(!-(R0&6.2' %(!E. \$! 0! .2(!4#%' N:!&' NN(%!C@C@#H!
gL. \$! (N0E!L#6020E&:i!#\$R#0\$R!W((763!; /5+!, ' 960E!%. 10#!, %R%. N!4#E' &0\$R!#\$\$! .2.B1 #01 (\$!
!!!!!!!!!!!!, (%&, (E201(&!#\$!56. &7. \$!, #6020E&!. &E#\$\$\$(E2(!!2#!2F(!\$. 20#\$\$. 6!. \$! !0\$2(%\$. 20#\$\$. 6!6(1(6&:!!
!!!!!!!!!!!!C@C@B#H!
!
L. \$(60&2!gO. 70\$R!J(\$&(!#4!2F(!C@C@!S6(E20#\$&:i!M(, 2H#4!L#6020E. 6!JE0(\$E(!4. E' 623!E#NN' \$023!
!!!!!!!!!!!!!!!!!!!!S1(\$2:!X#1(N9(%!C@C@#H!
+.#. EF!g` (!2F(!L(#, 6(:!X. 20#\$\$. 6!M(9. 2(!+#N, (2020#\$\$:!` (&2!Z. 66(3!" 0RF!JEF##6:!J, %0\$R!
!!!!!!!!!!!!C@)<#H!
!
!"#,!"

h' IR(!:lg` (!2F(!L(#, 6(:i!56.&7.!J2.2(!" (. %0\$R:!M(E(N9(%!>:!C@)*:!. \$!M(E(N9(%!C@C@H!
L. \$(60&2:!gO(. \$0\$R!0\$!2F(!O0!2(%N&:i!L#6020E.6!JE0(\$E(!8.E' 623!L. \$(6:!X#1(N9(%!C@)*H!
J, (. 7(%!_&F(%!-04(6#\$R!- (. %\$0\$R!lgQF(!- (R.6!. \$!L#6020E.6!" 0&2#%3!#4!2F(!C!"!5N(\$!N(\$2:i!!
!!!!!!!!!!_E2#9(%!)<:!C@)*H!
L. \$(60&2:!a' \$!Z0#6(\$E(!8.E' 623!L. \$(6!M0&E' &&0#\$:!U. 1(\$j&!- . \$!0\$R:!O. %EFACT:!C@)*H!
V\$&2%' E2#%:_&F(%!-04(6#\$R!- (. %\$0\$R!V\$&202' 2(:!g+#NN' \$0E. 20\$R!5E%#&&!L#6020E. 6!
!!!!!!!!!!!!L#6. %0K. 20#\$:i!J, %0\$R!C@)=H!
L. \$(60&2:!g8%((!#N!#4!2F(!L%&&i!4.E' 623!, . \$(6:!U. 1(\$j&!- . \$!0\$R:!O. %EFACT:!C@)=H!
L. \$(60&2:!C@)D!L%(&0! (\$20.6!S6(E20#%!8.E' 623!L. \$(6:/\$01(%&023!#4!56.&7.!8.0%9. \$7&!!
!!!!!!!!!!!!X#1(N9(%!)=:!C@)DH!
5%20&2!0\$!U(&0! (\$E(:!J7.RW. 3:!56.&7. :!C@)TBC@)DH!
S[(E' 201(!_440E(%!P#. %! !#4!M0%(E2#%&:!P%(. I!-0\$(!V\$E!H:!C@)TBC@)=H!
O#I (%. 2#%:!J2. 2(!- (R0&6. 201(!M(9. 2(!9(2W(\$!U(, H!JE#22!; . W.& 70!?MA! . \$!a%(R!
!!!!!!!!!!P%0\$RF' %&2!?UA:!E. \$!0! . 2(&!4#%!56.&7. !' #' &(!M0&2%0E2!):!U. 1(\$j&!- . \$!0\$R:!_E2#9(%!)
!!!!!!!!!!CT:!C@)TH!

!
\H!K#)L,(\$+'\$