



B

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

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

F / ! (. / ! 1 + 5 / . / 2 5 / , ! 1 + ! @ 1 * , / 0 . (, (@ 8 / ! ' (5 / . 1 (8 2 ! 5 6 (5 ! 7 (+ ! @ / ! : 2 / , ! 1 + ! @ (. 1 / . ! 8 (9 / . 2 &! (, 6 / 2 1 B / 2 &!
(+ , ! (, , 1 5 1 B / 2 ! 5 * ! = . * B 1 , / ! (! ' * 1 2 5 : . / ! @ (. 1 / . ! (+ , ! ' / 7 6 (+ 1 7 (8 ! = . * = / . 5 1 / 2 ! . / G : 1 / , ! @ 9 ! 5 6 / !
1 + 5 / + , / , ! = (7 4 (0 1 + 0 ! (= = 8 1 7 (5 1 * + 2 ? ! E 6 ! 2 ! 7 * : 8 , ! 1 + 7 8 : , / ! @ 1 * = * 8 9 / 2 5 / . 2 ! 5 6 (5 ! ' (9 ! (8 2 * ! = / . < * . ' !
(2 ! 2 5 (+ , ; (8 * + / ! < 1 8 ' 2 ? ! E 6 / ! 1 , / (8 ! ' (5 / . 1 (8 2 ! (. / ! @ 1 * , / 0 . (, (@ 8 / ! (+ , H * . ! 7 * ' = (5 1 @ 8 / ! 3 1 5 6 !
/ C 1 2 5 1 + 0 ! . / 7 9 7 8 1 + 0 ! 2 5 . / (' 2 ? ! F / ! (. / ! 2 / / 4 1 + 0 ! 2 * 8 : 5 1 * + 2 ! 5 6 (5 ! (, , . / 2 2 ! 5 6 / ! 6 1 0 6 ! 7 * 2 5 ! (+ , !
= / . < * . ' (+ 7 / ! 7 6 (8 8 / + 0 / 2 ! * < ! @ 1 * = * 8 9 / 2 5 / . 2 ! 7 : . . / + 5 8 9 ! * + ! 5 6 / ! ' (. 4 / 5 ? ! E 6 ! 2 ! ' (9 ! 1 + 7 8 : , / !
(8 5 / . + (5 1 B / 2 ! 5 * ! = * 8 9 / 5 6 9 8 / + / ! 2 : 7 6 ! (2 ! - 1 # &! 2 / (3 / / , ; @ (2 / , ! ' (5 / . 1 (8 2 &! * . ! 7 / 8 8 : 8 * 2 / ! < 1 8 ' 2 ? ! F / !
(. / ! 8 * * 4 1 + 0 ! < * . ! 2 * 8 : 5 1 * + 2 ! 5 6 (5 ! / 1 5 6 / . ! . / , : 7 / ! 5 6 / ! 6 1 0 6 ! = . * , : 7 5 1 * + ! 7 * 2 5 ! * < ! @ 1 * = * 8 9 / 2 5 / . 2 ! * . !
(, , . / 2 2 ! 5 6 / ! 1 . 7 : . . / + 5 ! = / . < * . ' (+ 7 / ! 7 6 (8 8 / + 0 / 2 ? ! F / ! (. / ! = (. 5 1 7 : 8 (. 8 9 ! 1 + 5 / . / 2 5 / , ! 1 + !
@ 1 * , / 0 . (, (@ 8 / ! ' (5 / . 1 (8 2 ! < * . ! : 2 / ! 1 + ! @ (. 1 / . ! 8 (9 / . 2 &! (, 6 / 2 1 B / 2 &! (+ , ! (, , 1 5 1 B / 2 ! 5 6 (5 ! 7 (+ 1 7 * + < / . !
@ 1 * = * 8 9 / 2 5 / . 2 ! 3 1 5 6 ! 5 6 / ! ' * 1 2 5 : . / ! @ (. 1 / . ! (+ , ! ' / 7 6 (+ 1 7 (8 ! = . * = / . 5 1 / 2 ! + / / , / , ! < * . ! 5 6 / ! 1 + 5 / + , / , !
= (7 4 (0 1 + 0 ! (= = 8 1 7 (5 1 * + 2 ? !

J* (51+0!* .!7* ;=*89' /.1) (51* +!
"1* , /0. (, (@8/!(, , 151B/2!>56 (5!(77/8/. (5/l@1* , /0. (, (@18159!* .!7*' =*2 (@18159A!
D: 8518(9/ .!@1* =*89/25/ .!<18' 2!
#+ (8*0*: 2!+ *B/8!' (5/.1(82!>@1*@(2/ , !=8(25172A!
J. *22;81+41+0!*<!@1* =*89' /.2!

\$: ==89H=: .76(2/!
RG: 159!+B/25' /+5!

B

D1+1' : ' !*<![U\4k: +, 1+0!<* !(!=. *)/75?!

E

-(.5+/.2!3188!6(B/!(77/22!5*!+5/.+(8!5/(' H/C=/ .52!(2!(==.*=.1(5/?!

\$7(8/;; =!*==*.5: +151/2!3156!=(74(01+0!' (+: <(75: ./ .2!>- ./012!K++*B(51B/!-(74(01+0A?!

F

-(.5+/.2!7(+!2/+ , !2(' =8/2!<* .!2=/71<17!(+(89212!(5!*: .!<(718151/2?!- *5/+51(8!(77/22!5*!" #\$\$%^2!
J/+5/.!<RC7/88/+7/!<* .!"1* , /0. (, (51*+&!1+78: , 1+0!5/251+0&!. /2/(.76!7*88(@*. (51*+&!(+, !
271/+51<17!2: ==*.5?!

E/76+*8*09!\$7*: 5!

H

J*88(@*. (51*+!_!\$7*: 51+0!` #!

B

E/76+*8*09!27*: 5!

K++*B(51*+!_!\$7*: 51+0!

\$/+1* .!#22*71(5/!T/+5: ./!- *.5<*81*!D(+ (0/' /+5!

!

-8/(2/!7*+5(75!56/!a+1B/.2159!*<!\$*: 56!%8*.1, (!E/76+*8*09!E. (+2</!.*<17/!. /=. /2/+5(51B/!
<*.!2: @' 1221*+;!N*121+!D7` (889!(5!.' 7+(889b: 2<?/, : ?!!