



!

"#\$%&'#(%)!*)+)&,%,-!./&((#(0*-!)&!(#1,(&2,#(!.*!3-*!4 1 1&(\$*))!*
5-,22#(!&\$!+#%2*!.*!' ,0*6.#7*((!&.8#, (2*!6!9::&,-*%! ;2\$. ,&(2*%! *2!
&::&,-*%! .*%!-;,% .*(2%!&\$!<& 1 +\$%!=\$2&#\$\$&,%!.*!)&!>&0\$)2;!.*!1 ; . *0, (*!
2! .%!%0,* (0*%! .*!)&!%&(2;!.*!)/ ? (, '*-%,2;!@0A,))! .*+\$,%!)!B!"&' -,)!
CDCDE!

!

!3 ,+F 1 ;!**(! 1 ; . *0, (*! .*!)/ ? (, '*-%,2;!@0A,))G! 3 -*!5 -,22#(!&!2* - 1 , (;!
%&! -;,% .*(0*! *(! 1 ; . *0, (*! :& 1 ,)&)*! *(! CDBDG! +\$,%! &! 0# 1 +);2; ! \$(!
+-#H-& 1 1 *! .*!2-#,% I 1 *!070)*G!&\$!3 ;+&-2* 1 *(2! .*! 1 ; . *0, (*! :& 1 ,)&)*!
2!0# 1 1 \$(&\$2&,-! .*!)/ ? (, '*-%,2;! .*! J#-#(2#!*(!CDBBE! 4))*!&!+&-!)&!
%\$,2*! #K2*(\$! \$(! 0*-2,.;0&2! ./*(%*,H(* 1 *(2! 0),(L\$*! M<J <N! . \$! K\$-*&\$! .*!)&! :#- 1 &2,#(!
0#(2,(\$! *2! . \$! . ; '*)#++* 1 *(2! +-#:%%#,(*)G! 3 ;+&-2* 1 *(2! .*! 1 ; . *0, (*! :& 1 ,)&)*! *2!
0# 1 1 \$(&\$2&,-*G! .*!)/ ? (, '*-%,2;! .*! J#-#(2#E!

!

3 *+\$,%! CDBOG! 3 -*! 5 -,22#(! #00\$+*!)!*! +#%2*! .*! OP&-H;! ./*(%*,H(* 1 *(2! 0),(L\$*! &\$!
3 ;+&-2* 1 *(2! .*! 1 ; . *0, (*! :& 1 ,)&)*! .*!)&!>&0\$)2;!.*!1 ; . *0, (*! .*!)? (, '*-%,2;!@0A,))!*2!)*!
+##%2*! .*! 1 ; . *0, (*! :& 1 ,)))*!R!)&!<),(L\$*! .*%!* 1 1 *%! .*!)/=\$2&#\$\$&,%!*2! &\$! A@>! .*!
S &T*:,*) .E! 3 *+\$,%!CDBUG!)*!*%2! 1 ; . *0, (*! -%*+##(%&K)*! . \$!A@>! .*! S &T*:,*) .!*2! .,-*02-,0*!
.*!0#-\$-! .*!-+*+-\$. \$02,#(!*2!*%V\$&),2;!&\$!<& 1 +\$%!=\$2&#\$\$&,%E!!

!

3 \$-&(2! %&! 0&--,I-*G! 3 -*! 5 -,22#(! &! -*W\$! +)\$%,*\$-\$%!+-,V!*2! .,%2,(02,#(%!2*)%!L\$*!)*!X-,V! . \$!
(\$# '*&\$!OP*-OP*\$-!6!X-,V! .(*V0*))*(0*!*(!-OP*-OP*! .*!)(PF+,2&!)@,OP&)*!A&--#(!*(!CDBYG!
)))! &! ;2;! 0#6-;0,+*(.&,-*! . \$! X-,V! (\$# '*&\$!)*& .-%P,+! *(! 1 &2,I-*! .*! . ; '*)#++* 1 *(2!
+-#:%%#,(*)!6!3 ;+&-2* 1 *(2! .*! 1 ; . *0, (*! :& 1 ,)&)*! *2!0# 1 1 \$(&\$2&,-*! .*!)? (, '*-%,2;! .*!
J#-#(2#!*(!CDBZG!;0,+*(.&,-*! . \$!X-,V!*(! . ; :*(%*! .*%!,(2;-[2%! .*%!+&2,*(2%!6!+-,V! . \$!-;,% . *(2!
6! +-#H-& 1 1 *! .*! :#- 1 &2,#(! +##%2.#02#-&)*!