



!

"#\$%&'#(%!)*)+)&,%,-!./&((#(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*+\$,%! CDBG! 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*+\$,%!CDBG!)*!)*%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#-&)*!