
!"#\$%&'#()\$%^+,-!#*./O&,"#\$%,.)&1(\$&."'"#.2#\$%,#',+2&,#('##(',\$%,&*#("3#\$,%%"'.+.4&*(+5)(\$&*,#
.2#3&4&\$(+#,+26

3&4&\$ (+', +26), 5), ', "\$(\$&. "#T%, #/&4) (" \$#, +2&, -#1()4; , -#, >5 (" 3' #, >&' \$&" 4#+&\$,) (\$;), #08#' %. 7&" 4#
%. 7#\$, #, +2&, #. 5,) (\$, '#(#\$, *%". +. 48#. 2#5. 7,)#\$(\$#*. "\$)&0; \$, '#\$. #.)&, "\$ (+&' \$#(4, " 3 (' #5%(\$#
?. \$%,)# /&4) (" \$' #(" 3#), 2; 4, , ' 0#&\$#3. , ' #. #08#*. ; 5+&" 4#%, #4, . 65. +&\$&* (+#0.)3,)&" 4#. 2# / &4) (" \$' #
' \$; *B# " #\$, #. ; \$' B&) \$' #. 2#C;). 5, #KU (; 4% (" 6 < &+& (/ ' #GHHVN#7&\$%#5) (*\$&*, '#. 2#?' 8 / 0. +&*#
0.)3,)&" 4#\$(\$#(55). 5)&(\$, #/ ()4&" (+&1, #.)#3&' 5+ (*, #5%, &)#3&4&\$ (+#, '\$&/ . "&, '#&"#<, '\$,)" "#, 7' #
/ , 3&(-#

< %, "#(#GJ68, ()#. +3#: 8)& (" #\$(E, +&" 4#\$. #C;). 5, #7 (' #(' B, 3#08#T!PC# . ;)" (+&' \$' #7%(\$#7 (' #5%, #

!\$#%'#%&'#%,\$\$).4,".;'#4,"),#.2#%,\$/#&4)("6)+(\$,3#'+2&,\$%(\$#1#2.*;'#."#%,),=#1#3)(7#."#
^,E&"@#3,2&"&\$&."#.#2#%,\$'+2&,#(' #'".\$(#5.)\$(&##[#0;\$#)(\$%,)#%,\$#.#.2#%,\$#
(#(#5).3;*\$#.2#%,\$#'8'\$,\$/#.2#"\$,\$)5,)'. "(#),+(\$&."'%&5'#\$%.;4%#7%&*&#&'#(\$&*;+(\$,3#."+&,@
K^,E&"#GHI_0#,#/5%('&'#&'#.)&4&"(N\#T%&'#3,2&"&\$&."#,"(0+,'#/#,\$.#(55).(*%#%,\$/#&4)("6
;#3,2&,"3#',\$7.)B'#.2#3&4&\$(\$+5;0+&*&\$8#%\$(\$#*.'"\$("\$+8#),63,2&,"#&\$'##"\$,\$)5,)'. "(#
;';(+8#*."*,5\$;(+&1,3#%.)&1."\$(+8-#('#*.'"&'&\$"4#.#2#.\$%,)#,S;&E(+,"\$#;')'#7%./ (8#&B,)#
'%(,#'+2&,'#(*).''#.*&(+/#,3&(#KF,("-#GHIMN#/8#"\$,\$),'\$#+&,'#&'#\$%,\$#E,)\$&*(+/#.E,/,"\$#.2#
/&4)("'\$#'+2&,'#2)./#'.*&(+\$.#/(&' '\$),(/#/#,3&(#A#2)./#%,\$&)#&'#\$,\$)/,3&(\$&."@(*).''#
K),+(\$&E,+8N#8//,\$)\$&*(+;,'#)#&)*;*&'#\$.#%,\$&#?)/,3&(\$&."@&'#\$%,\$#5.7,);#5(*,'#.2#4+.0(+
0).(3*('\$&"4#KX%. ;+&)(B&#GHI\ON=#<%(#\$3.,'#&\$#/#,("#2.)#/#&4)("'\$#'+2&,'#\$.#*&)*;+(\$,##

&"# ,>&' \$&" 4#7.)B# . "#3&4&\$ (#' , +26) , 5) , ' , "\$(\$&. " #c(\$%,)#&\$,)(\$;) , #. "#\$%, # , +2&, #&' #3&E&3, 3#&"#
\$7. # \$) (" 3' W\$%, # , +2&, #(' #5,)2.) / (\$&E, #5) (*\$&* , #(" 3#\$, # , +2&, #(' # . * & 6\$, *%'' &* (+#5) . * , ''-#
T%, # \$; 38# 2#\$, # #3) (7' #. " # . * & . +. 4&* (# (** . ; '' \$' #. 2#&' 4; &' \$&*#
' , +265) , ' , "\$(\$&. " #08#L. 22 / (" #Kb, ' ' #GHI JN# (" 3#9; ' \$&" #Kd,)' +, E# (" 3#P.) \$, ' ' , " #GHI JN (" 3# . "#
' , / &. \$&*# (55) . (*% , ' #\$. # (, ' \$%, \$&*# #Ke. 22 / (" #, # (+ #GHI J0#S (" &#a#: *%) . , 3,) #GHI MN# . # (' #\$. #
2.) , 4) . ; ' 3#%) , , #3&/ , ' ' &. " ' #. 2#3&4&\$ (#' , +26) , 5) , ' , "\$(\$&. " #T%, #2&)' \$#2. * ; ' , #. "#\$, #
#&' E. +E, 3#&' #\$, #5; 0+&*# \$ (4&" 4# 2#\$, #5) &E (\$, # , +20#%&' #3&/ , ' ' &. " #3) (7' # (\$\$, " \$&. " #\$. #
\$, #* &E&* #5. +&\$&* (# (" 3#* ; +\$;) (+#5. \$, " \$& (+&\$&, ' #. 2#E,)" (* ; +) ' #. 2#5,)2.) / (\$&E&\$8&# " . * & (# / , 3& (#
KQ (5 (*% () &' ' & #GHI I N# (55) . (*% &" 4#\$, # / # (' #* ; +\$;) , ' #. 2#* . " " , *\$&E&\$8# &\$, ' #. 2#&' 3&E&3; (\$&. " #
0. " 3&" 4# (" 3# / , / .) 8#) (\$%,) #% (" # & / 5+8# (' #'" , \$7.) B' @KE (" #FD&B-#GHI \N#T%, # , * . " 3#2. * ; ' #
2 (+ ' #. " #\$, # #5) (*\$&* , ' #. 2#; ' ,) ' @' , +26) , 5) , ' , "\$(\$&. " ' #&" # . * & (+ / , 3& (0#%&' #3) (7' #
(\$\$, " \$&. " #\$. #'" , 7#2.) / ' #. 2#3&4&\$ (#' \$.) 86\$, +&" 4@K: . " D (#a# ;) 4, ' ' #GHI \N# (" 3#, >5+.) , #%, &#
& / 5+&* (\$&. " ' #2.) #'" , 7#2.) / ' #. 2# . * & (+&\$8# (" 3#5; 0+&*#* . " " , *\$&. " #6#2.) #&" ' \$ (" * , #&' #&" ' \$&\$; &\$. " (#
* . " \$, >\$ #KT%; / & / #GHHVN#.) #2 (/ &# (+) , + (\$&. " #KU&E&, " " , #a# ;) 4, ' ' #GHI \N#T%, #%&) 3#2. * ; ' #&" #
' #%, # #. 2# , +265.) \$) (&\$;) , # (' # (" #) \$&' \$&*#4, ") , #% (\$&" # *) &O, ' #%, # , +2&, #&' #. " 46\$,) / #
\$) (D, *\$.) &, ' #. 2# (, ' \$%, \$&* #\$, *% " . +. 4&* (# (" 3#* ; +\$;) (+#*% (" 4, #&" #%, #5; 0+&*#5) , ' , "\$(\$&. " #. 2#%, #
' , +2#Kb (+ #GHI _0#T&2, " \$ (+, #a#P (" . E&*% - #GHI JN#
!2#%&' #) &5+, #2. * ; ' #. " #5,)2.) / (\$&E&\$8&# &\$; (\$, ' # / , (' &" 46 / (B&" 4# (\$#%, #%,) #\$. 2#7% (\$#%, # , +2&, #
&' # (" 3#%. 7#&\$# % . ; +3#0, # \$; 3&, 3-#%, # , * . " 3#%, .) , \$&* (#' \$) (" 3#. 22,)' # (#3&22,) , " \$-#%. ; 4%#'. \$#
' , * , ' ') &+8#&" * . / 5 (\$&O+, #, 5&' \$, / . +. 48# 2#3&4&\$ (#' , +26) , 5) , ' , "\$(\$&. " #!\$#*+ (&' #% (\$-#) (\$%,) #
% (" # (55) . (*% &" 4#\$, # , +2&, # (' # (5,)2.) / (\$&E, #' 8' \$, / #. 2# &4" &2&* (\$&. " ' #. 2#%, # , +2#7, #' % . ; +3#
&" ' \$, (3#* . " * , 5\$; (+&1, #&\$# (' # (\$\$, *% " . +. 4&* (+#4, ' \$;) , #6# (# / (\$,) & (+#) (* , #3, E. &3# 2#
) , 5) , ' , "\$(\$&. " (+ / , (' &" 4#KL. / , 1#a#T% .) "% (/ #GHI JN# ! " #&\$' #* (5 (*&\$8# (' #\$, *% " . 6\$) (* , -#%, #
' &4" &2&* (" * , #. 2#%, # , +2&, #3,) &E, ' # . \$#2) . / #&' #3&' * ;)' &E&\$8# .) #&\$' #%&' \$.) &* &\$8#0; #&2) . / #&\$' #
' 8' \$, / &*# & / ; +\$ (" , &\$8-#% (\$#&' #08#%, #E,) 8#2 (*\$#% (\$#&\$# (+7 (8' 6 (+, (38# (55,) ' #7&\$%&' # , >&' \$&' 4#
* &)* ; &\$' #. 2# . \$%,) #) (* , ' #&B, #&\$' , +2#U () & (\$&. " ' #7&\$%&' #%&' #&\$,) (\$;) , #* . " ' , S; , " \$+8-#) , 2+, *\$#
3&22,) , " #) , ' , () *%#2. * &# . " #%, # . * & (# (" 3#%, *% " . +. 4&* (+#3&/ , ' ' &. " ' #. 2#%, # , +2&, #F" #%, # . " , #

%("3#, /5%(' & #2(++'#. ""#

0#), ', () *%#%,), #%&4%+&&4%\$' #\$\$, #' , +2&, #

(' #\$, *%". 6

e. &'B(#("3#c. 0,) '\$-#GHI JN=#!\$#&' #\$\$, #(\$\$, /5\$#\$\$. #(*B". 7+, 34, #\$\$&' #3&/, "' &. "\$%(\$#&"2.) /' #/8#
3&(+, *\$&* (+#(55). (*%#\$. #\$\$, #, +2&, #&' \$). 3; *, 3#0, +. 7-##

c(\$\$,)#\$("#, >*+; ' &E, +8#2. *; '&' 4#. ""#, &\$%,)# \$)(" 3#. 2#, ', () *%#!#. 5\$#2.)#(#3&(+, *\$&* (+#(55). (*%-#
7%&*%#E&, 7' #\$\$, #, +2&, #(' #(# /, ('&' 42; +\$) (*, #. 2#\$\$, #, +2# / . E&' 4#(*). '' #*. ""', *\$, 3#

, "4(4, /, "\$' #7&\$%#%,)h%&' #5), 3&* (/ , "\$=#!#' ; 0' , S; , "\$+8#5), ' , "\$#(#5), +&/&' ()8#85. +. 48#. 2#% , #
\$, (\$), #. 2#% , #' , +2& , #&' #.)3,)#\$. #. >5+.) , #&\$' #5% , (\$) &* (+&\$8#0. \$%#('# '\$ (4, #2.)#(22, *\$&E, #
, "4(4, /, "\$' #(' 3#(# &\$, #. 2#5. 7,)#) , +(\$&. "' %&5' #5%(\$#5). 3; * , '#%&,)() *%&* (+#*+' '&2&*(\$&. "' #. 2#
%; / ("&\$8#6#7%(\$!#3&' *; ' '#(' #' 8/0. +&*#0.)3,)&' 4@#

P8#"\$,) , '\$#&' #(' '# , \$%&' #. 2#% , #' , +2& , #(' 3#&\$' #) , / , 3&(\$&. "' #) (&' , '#S; , '\$&. "' # (0. ; \$#% , #' (\$;) , #. 2#
\$, #' , +2& , #' . \$#. "' +8#('#(#2.) / #. 2# , +26) , 5) , ' , "\$(\$&. "#0; \$#(+'. #(' #(\$, *%". 6(, '\$% , \$&*# . / 5. " , "\$#
. 2#3&4&\$ (+#0. ;)' (+&' / #< %(\$#3. , '#&\$# / , (' #\$. # / (B, #' , 7' # (0. ; \$# / &4) (" '\$' #5%) . ; 4%#5% , # (, '\$% , \$&*#
. 2#% , #' , +2& , R#< %&*%# 5 , *&2&*#) , / , 3&(\$&. "' #. 2#% , #' , +2& , #() , #3 , , / , 3#' , 7' 7.)\$%8#(' 3#7%8R#

\$((\$3. , '#'. \$#, * , ' ')&+8#0, +. "4\$. #\$, #) (3&\$&. " (+# * , " , #. 2#\$, #\$, (\$), #0; \$#. 5,) (\$, '#&' #&', #
7 &\$%#\$, #*. "E, "\$&. "' #. 2#\$, (\$)&* (+#5,)2.) / (' * , #6#' (/ , +8#08#3&' \$ (" * &" 4#\$, # 5, *\$(\$.) #2). / #\$, #
' 5, *\$ (*+, #. 2#%, #. \$%,) #%) . ; 4%#%, #. 00, *\$&E, # 5 (*, #. 2#(#2) (/ &" 4#3, E&* , #(" 3-#(\$\$, # (/ , #& / , #
, " (0+&" 4#5). >& / &\$8#0, \$7 , , "#%, # \$7. #%) . ; 4%# () (\$&E, '#\$% (\$&' E&\$, #. ;) / . \$&. "' # (" 3#
D; 34 / , "\$#. "#\$, #. \$%,) W? (' #] i) (+ (" 3#
' ,) / &" 4% (/ #) 4; , -

KGHHGIVj N#

< %&+, #2.) #93 (/ #: / &\$%#\$, #\$, (\$)&* (+# / , \$ (5%.) #*. "' * , &E, '#. 2#'. * &, \$8# (' # (' \$ (4, #7%,) , # , , &" 4#
. \$%,) '#&', E&\$ (0+8#&' E&\$, '# (# / .) (+#), ' 5. "' , #7%. # () , #\$, 8# (" 3#7%. # (/ #!# (' # (' #. "' , S; , "' * , #. 2#
 / , , \$&" 4#\$, / R@#\$, # , +2&, #5 () (B, '#\$&' #\$, (\$)&* (+# \$); *\$;) , #&' ' . 2 () (' #&\$#2; +2&+' # \$7. #*) &\$,) & (#. 2#
\$, (\$)&* (+&\$8#] &)' \$-#\$, '\$ (0+&' % , '# (# / . 3, #. 2# 5, *\$ (\$.) '%&5#% (\$&' #0 (' , 3#. "#\$, # '\$ (4&" 4# (" 3#
2) (/ &" 4# 2#%, # , +2#2.) #5;) 5. ' , '#. 2#0, &" 4# , , "# (" 3#), ' 5. " 3, 3\$. #08#. #%,) '#6#: / &\$%@ #
' 8 / 5 (\$%, \$&* # 5, *\$ (\$.) @# (" 3# , * . " 3-#%&' # '\$ (4&" 4# 2#%, # , +2# & / ; +\$ (" , . ; '+8#5), ' ; 55. ' , '#'. \$#
. "+8# (" #& / / , 3& (\$, # (; 3&, " * , #. 2#&" \$, " 3, 3# (33), ' , ' #0; \$# (+'. #%, #& / (4&" () 8# 5, *\$ (\$.) '%&5# 2#
('#; " &" E. +E, 3#5; 0+&* #% (\$&' #& / 5+&* &\$+8#&' E&\$, 3#\$. # \$ (B, # (' \$ (" * , #. 7 () 3' #%&' # '\$ (4&" 4# #7% (\$
93 (/ #: / &\$%#), 2,)' #\$. # (' #\$, #& / 5 () \$& (+# 5, *\$ (\$.) @KP () '% (++# I V k _ N = #

!"#.) 3,) -#%,) , 2.) , -#\$. #; " 3,) '\$ (" 3#%. 7#%, # / &4) (" \$6), + (\$, 3# , +2&, #. 5,) (\$, '#&' # < , '\$,) "# / , 3& (#
+ (" 3' * (5, #7, #", , 3#\$. #; " 3,) '\$ (" 3#0. \$# #3& / , "' &. "' #. 2#%, (\$)&* (+# 5, *\$ (\$.) '%&5#%# 7#%, # , +2&, #
5). 3; * , '# / , (" &" 4#%) . ; 4%#5) (*\$&* , '#. 2# , +26), 5), ' , "\$ (\$&. "#\$% (\$' \$ (4, #%, # , +2#'. # (' #\$. #0, # , , "#

(; \$%, "\$&*#5), ', " * , M=IT%, #3&4&\$ (#' *) , , "# / (>&/ &1, '#\$, #), (*%#. 2#\$, #2(*, #, " (O+&" 4#3&' \$ (" # \$ % ,) '\$\$. # (55, () \$\$. #; '# (' #2; +8#5), ', "\$# (" 3#\$. #*. " 2). "\$#; '#7&\$%#\$, &#). 7 "#%; / (" &\$8=IT%). ; 4%# \$%&' #5,) 2.) / (\$&E, #3; (+&\$8#. 2#2(*, # (" 3#* *) , , "-#%, #', +2&, #() \$&*; +(\$, '# (" 3#* &)*; +(\$, '#*+ (&/ '#\$. # \$%, # ', +2# (' # (; \$%, "\$&*#5), ', " * , # (" 3-#&" #'. #3. &" 4-# &/ ; +\$ (" , . ; '+8# (*\$' # (' # (" #&" E&\$ (\$&. " #2.) #; '#\$. # , " 4 (4, #7&\$%#&' #5), ', " * , #&" #E ()&. ; '# / . 3 (+&\$&, '#. 2# 8 / 5 (\$%, \$&*# 5, *\$ (\$).) %&5W, / 5 (\$%8# ' . +&3 () &\$8# ; '# 5&* &. " #.) #3&' (55). E (+#!\$#&' #&' #&%&' #* (5 (*&\$8#\$. #*. " 2). "\$#; '#7&\$%#\$, #%; / (" &\$8#. 2# \$%, #. \$%,) #&' #&' #%,) , 6 (" 36". 7# / . 3, # \$% (\$# \$%, #', +2&, #), * . E,) '#&' # / .) (#3& / , "' &. " #6#&' # \$%, .) &1 (\$&. " ' # (' # / ; " 3 (" , @.) # (") * &' ' &' \$&* @K, 4# ^ I 3,) '-#O)m&\$1#a#c (' / ; ' , "-#GHI HN#O, &" 4#5 () \$# . 2#%&' # / .) (+#), 4& / , #. 2# 8 / 5 (\$%, \$&*# 5, *\$ (\$).) %&5#% (\$# (" 8#', +2&, #O, +. " 4' #\$. #].) #2# (' # ^, E&' (' # 5; '\$' #&\$-#!\$%, #2(*, #\$. #2(*, @&' # \$%, #5 () #, >*, ++, " * , # / . 3, #. 2#, \$%&* (+#(33), "' #O, * (; ' , #&\$#? (33), "' , '# %; / (" &\$8# (\$#+) 4, @# \$%, " # \$%, #', +2&, #&' # (#) (3&* (+#&" \$, "' &2&* (\$&. " #. 2#%&' # (33), "' #O. \$%#&' # \$% (\$#&\$# 3&4&\$ (+8#?5), ', " * , ' @ \$%, #. \$%,) @ #2(*, #\$. #; '#K: , " 2\$# (" 3# ;) 4, "' -#GHI _N# (" 3#&" # \$% (\$#&\$#, >5 (" 3' # \$%, # ' * . 5, #. 2# ;) #2(*, 6\$. 62(*, #), +(\$&. " '%&5' #A# \$%). ; 4%#7% (\$#]). '%#K GHI _N\$,) / '# \$%, #?*.) 5.) , (+# ' . * & (O&+&\$8@. 2# \$%, #', +2&, #K&\$' #+&B, ' # % () , ' #* . / / , "\$' #, \$*N=#

P&4) (" \$6), +(\$, 3#', +2&, ' -#&" #5 () \$&*; +() -# () , # (#5 () (3&4 / (\$&*# (' , #. 2#3&4&\$ (+#', +26), 5), ' , "\$ (\$&. " # (' # , \$%&* (+#(33), "' #O, * (; ' , # \$%, 8# () , # (' , '\$%, \$&*#5,) 2.) / (" * , '#. 2# \$%, #2(*, #; " 3,) #*. " 3&\$&. " ' #. 2#) &' B=# : , +2&, '#. 2# / &4) (" '\$' #7%. #D; '\$#), (*%, 3# \$%, #L), , B# % .) , ' #5,) 2.) / # (; \$%, "\$&* &\$8# \$%). ; 4%# \$%, # (22, *\$&E, #4) (/ / () #. 2# \$%, #2(*, # (" 3# \$%, #O. 38-#7%&*%# () \$&*; +(\$, '#, ; 5%.) &*# (22, *\$-#T%&' #?O, &" 4# % ,) , @&' # (# / .) (+#(33), "' #&" . 2 () # (' # ()) &E (+#%,) , # (+'. # &4" &2&, '# ;) E&E (+#2). / # (#3, (3+8#', (# *). "' &" 4#&" # \$%, #P, 3&\$,) (" , (" -#T%, #3&4&\$ (+#*) , , "#O) &" 4' -#&" # \$%&' #* (' , -# \$%, #2(*, #. 2# \$%, # / &4) (" \$# *+ . ' ,) # \$%). ; 4%# (*\$' #. 2#?5),

. 2#\$, # , +2& , -#%) . ; 4%#(#), (3&" 4#. 2#\$, #/ .) (#), +(\$&. "' %&5' #&\$#, " (O+, '#0, \$7, , "#\$, #
' ; OD, *\$' #(" 3#. OD, *\$' #. 2#3&4&\$ (+', +26), 5), ' , "\$(\$&. "#

T%, #4+. O(+E&' &O&+&\$8#. 2#/ &4) (" \$6), +(\$, 3#, +2&, '#%. 7, E,)-#3, 5, " 3' #. "#\$, &)*&)*; +(\$&. "#0, 8. " 3#
%.)&1. "\$(+#, \$7.)B' #' ; *%#(' #\$, #' . *

&" #+&" , #7&#%#%\$, # , %&* . 65 . +&\$&* (+# . 4&*# . 2#E()& . ; ' #D . ;)" (+&' \$&*#&' '\$&\$; \$& . "' -#b . 7#3 . #
3&22 ,) , "\$#85 , ' # . 2# / &4) (" \$# , +2& , #5 ,)2 .) / #% , # , +2# (' # (' ; % , " \$&*#% ,) , #!# (/ @#b . 7#(, #% , ' , #
+ (& / ' #\$. # (; % , " \$&#8# (" 3#5) , ' , " * , #) , * . "\$, > \$; (+&1 , 3#&' # < , ' \$,) "' , ' 7' # &\$, ' R# < % (\$# (, #% , #
/ .) (#3&' * . ;) ' , ' # . 2# ; *%#) , * . "\$, > \$; (+&1 (\$& . "' # (" 3#7% (\$#3 . #% , ' , # , ++ ; ' # (0 . ; \$% , # , ' 7' # (' #
/ .) (# (" 3#5 . +&\$&* (+# 5 (* , ' R

P8#% , (\$) &* (+# (55) . (*%#\$. #% , # , +2& , #3) (7' # . "#7 . #B , 8# (, ' % , \$&*# (" 3#\$, *% " . 6' . * & (+# "' &4%\$ ' # . 2#
\$% , #) , + , E (" \$#&\$,) (\$;) , -# (/ , +8#% , # " ()) (\$&E&\$8# . 2#3&4&\$ (+# , +26) , 5) , ' , "\$ (\$& . "' # (" 3#% , #
?*&)* ; + (\$& . "' #E (+ ; , @ . 2#% , # , +2& , #!#* . / 5+&* (\$, ' #% , #2 .) / ,) #08#&' \$) . 3 ; * &" 4#E ,) \$&* (+#) , / , 3& (\$& . "' #
(' #* . "' \$&\$; \$&E , # . 2#% , #E&' ; (+# ()) (\$&E&\$8# . 2#% , # , +2& , -#7%&+ '\$&\$# , >5 (" 3' #% , #+ (\$\$,) #08#
3 , / . "' \$) (\$&" 4#% (\$-#2 () #2) . / #2) , , 67% , , +&" 4-#% , #?*&)* ; + (\$& . "' #E (+ ; , @ . 2#% , # , +2& , #&' # , / 0 , 33 , 3#&' #
\$, *% " . 6&" '\$&\$; \$& . "' (+#) , + (\$& . "' %&5' # . 2#5 . 7 ,) -# (' #&' #4+ . 0 (+# , ' 7' #D . ;)" (+&' / #

T% , #*% . &* , # . 2#% , # / &4) (" \$6) , + (\$, 3# , +2& , # (' #% , # , / 5&) &* (+# / (\$,) & (+# . 2#%&' # '\$; 38#&' # / . \$&E (\$, 3#08#
(" #&' \$,) , ' \$&' # ; " 3 ,) ' \$ (" 3&' 4#% . 7#% , #E&' &0&+&\$8# . 2# / &4) (" \$' #&' #) , 4 ; + (\$, 3#&' # < , ' \$,) "' # / , 3& (#
3 ;) &" 4#% , #GHI J# / &4) (" \$#*) &' &' -# : \$; 38&" 4#% . 7# / &4) (" \$' # (55 , () #&' # . ;) "' , ' 7' # / (\$\$,) ' #0 , * (; ' , #&\$#
% , +5' # ; ' #0 , \$\$,) #* . / 5) , % , " 3#% , #0) . (3 ,) #* . / / ; " &* (\$&E , # , " E&) . " / , " \$. 2#% , #*) &' &' #T%&' #7 (' # (#
E ,) ' (\$&+ , # , " E&) . " / , " \$# / () B , 3#08# (" # .) &4&" (+8#5 . ' &\$&E , #) % , \$.) &*# . 2#) , * , 5\$& . "#% (\$# , " D . 8 , 3# (#
7 (E , # . 2#* . / 5 (' ' & . "' # (2\$,) #% , #3 , (\$%# . 2#%) , , 68 , () 6 . +3#98+ (" #e ;) 3� ; # , E , " \$; (+8# ;) " , 3#&' \$. #
' ; ' 5&* & . " -#2 . ++ . 7&" 4#% , #Y . E , / 0 ,) #GHI J#Q () &' # (\$\$ (*B' 0#&\$#7 (' #% , #+ (\$\$,) #% (\$# , 4&\$& / &1 , 3#

&/ (4, ' # #/ &4) (" \$' #0; \$#, &\$%,)# #' .)# \$%, / #! " 3, , 3-#\$, #%) , , #B, 8#85, ' #. 2# / &4) (" \$6
, +(\$, 3#', +2&, ' #\$(55, (, 3#&' #4+. 0(+##', 7' #' , \$7 .)B' #' ; *%#(' # ` X#XY#F < #.)#T%, #L; ()3&(' #
3;)&' 4#\$, #5, (B# / . / , "\$-#7, , W#N# / &4) (" \$' #0, &' 4#5%. \$. 4) (5%, 3#\$. #\$(B, #' , +2&, ' 0#&N# / &4) (" \$#
' , +2&, ' #7&\$%#* , +, 0)&\$&, ' #(" 3#&&N#* , +, 0)&\$&, ' #\$(B&" 4#', +2&, ' #(' 6&2#\$, 8#7 ,) , # / &4) (" \$' #T%, ,)#(, #
E()&(\$&. "' #7&\$%&' #, (*%#* (\$, 4.)8-#0; \$#%, 8#(, #(+#%) , , #*% () (*\$,)&' , 3#08-#7% (\$< &\$4, "' \$, &' #
KI VJKN\$,) / ' #(#2(/ &+8#) , ' , / 0+ (" * , #&' #%, &#(, ' \$%, \$&*# (" 3#\$, *% " . 6' . * & (+S; (+&\$&, ' #!# , > (/ &' , #
, (*%#&' #%, #' , *\$&. "' #?T%, #' , +2&, #(' #5,)2.) / (" * , #(" 3#?T%, #' , +2&, #(' #) , / , 3&(\$&. "' #0, +. 7-#

! "#\$%'&' () * + , - . / + 0 (- . 12, 1 "#\$&0" - 0 " 1 " * ' (% / * , (1, 3 " # " 40 (% / * , ,

X, +, 0) (\$&. "' # , +2&, ' #() , #(+ / . ' \$#, > * +; ' &E, +8# % . \$#. "' #%, #0, (*%, ' #. 2# ^ , ' O. ' #A# . "' , #. 2#%, # / &4) (" \$' #
/ (&" # , "\$)8#5. &' \$' #&" \$. #C;) . 5, #2) . / #%, #T;)B, 8#* . ('\$-#T%, 8#5.)\$) (8# / &4) (" \$' #\$(B&" 4#', +2&, ' #
' / &+&" 4# (" 3# / (B&" 4#%, #U6' &4" -#(+ . " , #.)#&" #4) . ; 5' -#< , #' , E,)# , , #%, ' , #' , +2&, ' #(' #' ; *%#
% . 7, E,)#< % (\$#7, #' , , #&' #5%. \$. D. ;)" (+&' \$&*#5&*\$;) , ' #. 2# / &4) (" \$' #\$(B&" 4#', +2&, ' #T%, #XY# @ #
E&3, . #&" B#K\$%,) , #&' #(' & / &+ ()# . " , #08#%, # ` ` XN-#2.)#&" ' (" * , -#&' # (# . " , 6 / &' ; \$, #+ . " 4#5&, * , -# , " \$&\$+ , 3#
?T%, # / &4) (" \$' # , +2&, @#7%&*%#0, 4&" ' #7&\$%# (# / &4) (" \$# , >5+ (&" &" 4#%, #' &4" &2&* (" * , #. 2#* , +, 0) (\$&. "' #
' , +2&, ' #(" 3#* . " \$&" ; , ' #7&\$%# (# , S; , " * , #. 2#', +2&, 6\$ (B&" 4#&' '\$ (" * , ' #. "' #%, #0, (% j =#

! "#\$%", (1, - " 0\$ / 05 (* 3 " WCE, " #\$. ; 4%# (+# , +2&, ' #% (E, # (# \$) . " 4#+ . * (\$&E, #3& / , "' &. " -#!# (/ #) &4%\$#

, \$%&* (+#2.)*, #&"#\$%, ', #, +2&, '#T%&' #&' #&' ' . 2()#(' #&%, #' , +2&, @ #+. * (\$&E, #*+(&/ #K?!#(/ # @#(+'. #
,"\$(&#(#' \$). " 4#, >&' \$, "\$&(+3&/, "'&. "#K? #%,), @#-#] ()#2). / #&" 3, >&" 4#; '\$#(" 8#)(" 3. / #
+. * (\$&. "-#&%, #3, &*\$ "\$&. "#. 2#&%, #*, +, 0)(\$&. "' , +2&, #4. , '#0, 8. " 3#())&E(+\$. #*. "' . \$, #';)E&E(+
\$, #2(*\$#. 2#%(E&" 4#, " 3;), 3#(#3, (3+8#", (6

' ,)& , '#. 2#. \$%,)#5), ''#. ; \$+, '\$-#9; \$%, '\$&*&\$8-#\$. #0, 4&'#7&\$%-#), +&, '#. ''#. ;)" (+&' \$&*#(; \$%.)&\$8#(" 3#&' #
(0. ; \$#(\$\$(*%&' 4#(#5). 2, ''&. " (+#);)&' 3&* \$&. ''#. 2#E (+&3&\$8#\$. #\$, #' , 7' 0#XY#2.)#&' '\$ ("*, -(*%&, E, '#
' 8/5 (\$%8#%) . ; 4%#\$\$, #&' *+; '&. ''#. 2#(#2&)' \$6% (" 3#\$, '\$&/ . "&(+K\$%, #/ &4) (" \$N#(" 3#\$, # , S; , ''*, #. 2#
' , +2&, 6\$ (B&' 4#E&' ; (+' -#(+#. 2#7%&*%#(E. &3' #. E,)\$#; 34 / , "\$#8, \$# , , B#\$. #) (&' , #(7 () , '' '#() . ; '' 3#

T%&' #%(\$, #3&' * . ;)' , #&' #, E&3, "\$+8#(\$\$(*%, 3#\$. #, >\$), / , #)&4%\$67&" 4#" , 7' -#8, \$-#!#()4; , -#\$, #
/ &') , * . 4" &\$&. "#. 2# / &4) (" \$' #&' #&" % ,) , "\$#&" #(+&#) , / , 3&(\$&. "' #. 2# \$%, #* , +, 0) (\$&. "' # , +2& , #T%&' #&' #2.) #
\$7. #) , (' . "' #] &)' \$-#0, * (; ' , #) , / , 3&(\$&. "' #(' #, '\$) (" 4, / , "\$#(+), (38#5), ' ; 55. ' , '\$%(\$# , +2& , 6
\$(B&" 4#(' #3&4&\$\$(+&#(4, " *8#*("#. "+8#0, #(' ' . *&(\$, 3#7&\$%#5, . 5+, #+B, #! ; '@#' . \$#/\$%, / @#!" 2.) / , 3#08#
\$%&' #.) &, "\$(+&' \$#5), ' ; 55. ' &\$&. "#" () (\$&E, '#. 2#, '\$) (" 4, / , "\$#; +&/ (\$, +8#), 5), ' , "\$#%, # / &4) (" \$' @
' , +2& , 6

("#&/5()\$(+@' 5, *\$(\$.)'%&5#. 2#/ , \$(67&\$'' , ''&' 4#\$(\$#. OD, *\$&2&, '\$%, #2&4;), #. 2#\$\$%, #/&4) ("#\$(' 3#
5; '\$ #\$\$%, &)' \$(\$; '#(' #%; / ('#(\$# \$(B, =#

!/#%6(0%' 7,1''#\$\$''12,!''#\$&0''-0''1''*(' %/*, (1,0''3/+*%' %/*,

T%&' #* (\$, 4.)8#*. ''&' \$' #. 2#', +2&, '#\$%(\$#/&4) (" '\$ #%(E, #\$(B, ''#7&\$%#* , +, 0)&\$8#2&4;), '# \$(" 3&" 4#'' #
' . +&3()&\$8#7&\$%#\$\$%, /#(\$#3, \$, ''\$&. ''#*(/ 5' #(). ; '' 3#C;). 5, =#X, +, 0)&\$&, '#(), #%,), #3, 2&', 3#(' #5; 0+&*#
2&4;), '#7&\$%#(#' ;)5+; '#. 2# 8/0. +&*#*(5&\$ (+#\$(\$#, " 3. 7' #\$\$%, /#7&\$%#), *. 4''&1(O+, #0) (" 3#E(+; , #
KX%. ; +&() (B&#GHI \ (N#2.)#&' '\$ (*, -#9'' 4, +(#P,)B, #.)#Q. 5, #]) (" *&' !-#^ , * (; , #. 2#\$\$&' #' 8/0. +&*#
(5&\$ (+#\$\$%, '' # . +&3()&\$8#', +2&, ' #; ''&B, #, +, 0)(\$&. '' #. , ' #(), #2; ++8#), / , 3&(\$, 3#&' #<, '\$,)'' #', 7' #

!''#\$\$'', (1, -''0\$/05 (* 3''WFT%, # #. 2#'. +&3()&\$8#', +2&, '#&' #, '\$(O+&' %, 3#\$\$%). ; 4%#(#

(, '\$%, \$&*# #. 2#&/ / , 3&(*8#` .)). 7&' 4#2). /#\$\$%, #5%. \$. 4) (5%&*#'' (5' % . \$-\$\$%, #/&4) (" \$67&\$%6

, +, 0)&\$8#', +2&, #/&/&#\$\$%, #&' 2.) / (+&\$8#. 2#?B. 3(B@2(/&+8#5&*#;), '#K!S(' &#a#: *%). . , 3,)-#GHI JN#

(" 3#0, ()' #* . '' . \$(\$&. '' #. 2#?5,)2.) / , 3#&' \$&/ (*8#(; \$%, ''\$&*&\$8#(" 3#(*, '' @6#(++B, 8# / ()B,)' #. 2#

; '' '\$(4, 3-#&/5,)2, *#', +26, >5), ''&. ''#K0. 83#a#P() 7&*B-#GHI IWI _HN#T%, #(: \$%, ''\$&*&\$8#. 2#

' 5. ''\$ (" , &\$8-#%. 7, E,)#5)&/ ()&+8#0, '' , 2&\$' #\$\$%, #*, +, 0)&\$8-#7%. ' , #5; 0+&*#5), ' , ''\$(\$&. '' # ; 22,)#

#. 2#% , #* , + , 0)&\$8#\$. #' % , 3#&4%\$#. "' #5) , ' , " * , #. 2#% , #/ &4) (" \$-!\$#&' -(4 (&' -#% , #
* . / 5. ' &\$&. " (+#()) (" 4 , / , "\$# . 2#* . 65) , ' , " * , #5% (\$#5) . 3 ; * , '# , 22 , *\$' # . 2#5) , ' , " * & " 4# (' #5% , #' &3 , 6
086' &3 , #E&' ; (+8#) ; >\$ (5. ' , '#% , #/ &4) (" \$# ; " B" . 7 " # (" 3#5 . 7 ,) , ' ' #7 &\$%#% , #* , + , 0)&\$8-#
, '\$ (0+&' % , 3# (" 3#5 . 7 ,) 2 ; +# (" 3-#& " # (" # (*\$#5 () (+ , +\$. #5) . 3 ; *\$# , " 3.)' , / , "\$-# (' ' . * & (\$, '#% , #
+ (\$\$,) @ #0) (" 3#E (+ ; , #7 &\$%#% , #2.) / ,) #A#

p\$,))&28&" 4q#(\$(\$(*B'@J-#XY-#d; +=#GM#GHI M#P&4) (" \$#*)&' & W# #L,) / (" #
3. .)' #. 5, " R@M.# ` X-#F*\$-#I -#GHI JN#.)#%\$, #Q. 5, @ #E&' &\$\$. #%, #L), , B#'+ (" 3' #&" #F < #K#?
#^, ' O. ' #\$. #), E&, 7#), 2; 4, , #*)&' &' @#95)#J-#GHI M'jN# (" 3#XXY@ #C3&\$\$. " @K#?
#3;)&" 4#%&' #E&' &\$\$. #(#), 2; 4, , #*, "\$,)#&" #c. / , #. "#T%;)' 3(8#P() *%#G_@#
P() *%#\H-#GHI M'kN=#
CE, "#\$. . ; 4%#" , 7' #" , \$7.)B' #2(E. ;)#%\$, #5). / . \$&. "#. 2#* , +, 0)&\$863)&E, "#5& , * , '#2.)#%\$, &#). 7"#
O, " , 2&\$-#%&' #* , +, 0)&2&* (\$&. "#. 2#%\$, #' . +&3 ()&\$8#', +2&, #% ('-#(' #!#% (E, #(+), (38#&' ' &"; (\$, 3-#(#* . '\$=#
c(\$%,)#% (" #5+(*, 3#(\$#%\$, #%, ()\$#. 2#%\$, #/ &4) (\$&. " ' \$.)8-#(' #(#E&*\$&/# . 2#C;) . 5, (" #5. +&\$&' # (" 3#(#
5. \$, " \$&(+* ())&,)# . 2#)&4%\$' #\$. # (2, \$8# (" 3#), '&3, " * , -#%\$, #/ &4) (" \$#), / (&' ' #&' '\$, (3#(O' , " \$=#
F, ' 5&\$, #%(E&" 4#&/5.)\$ (" \$# \$.)&, ' #\$. #\$, ++(O. ; \$#7%8# (" 3#%. 7#%, h' % , #% (' #;)" , 3#; 5#&" #C;) . 5, #
%, #% (' #&" #9), " 3\$@ #7.)3' -#. ' \$#%\$, #), +, E (" * , #. 2# 5, , *%@KI VVk

, "\$&\$+, 3#\$. #)&4%\$' #. 2#), ' &3, "*"8#(" 3#5). \$, *\$&. "-#%\$, 8#(), #; +\$&/ (\$, +8#3, "&, 3#5; 0+&*#), *. 4"&\$&. "#
c, *. 4"&1(0&+&\$8-#%\$, #; "E,)' (#/#.) (+#)&4%\$#\$. #0, #(*B". 7+, 34, 3#(' #(#, 4&\$&/ (\$, #5; 0+&*#5), ' , "*" , -
&' #/ () 4&" (+1, 3#&"#2(E. ;)#.# 2#/. "&\$.)&(+7&\$" , ' &" 4#T%, #/#4) (" \$-#&\$#2. ++. 7' #. " +8#2&4;), ' #&"#%\$, #
" , 7' #(' #(#0865), ' , "*" , #(#5), ' , "*" , #(: >&+&()8#\$. #%\$, #' \$.)&, '#(0. ; #. ;)#+, (3,)' #. ;)#5. +&\$&*' #. ;)#
5. +&\$&*' #. ;)#* . "\$). E,)' &, '#

9""#40%7,1""#%#12,!""#\$&0"-0"1""*(' %/*, (1,"0(1: 0" ,,,

T%&' #*(\$, 4.)8#*. "' &' \$' #. 2#(#, S; , "*" , #. 2#7&3, +86*&) *; +(\$, 3#&/ (4, '#2). /# . " , #5()\$&*; +()# , E, "\$-#(#
' \$()6' \$; 33, 3#X&" , / (#2.)#Q, (*, #4(+(-#5()\$#.# 2#%\$, #GHI M#` ,)+&"#]&+/#], '\$&E(+#f)4("&1, 3#08#
7.)+36B". 7""#(*\$&E&' \$#()\$&' \$9&#< , &7 , &-#%&' #', +2&, #' , S; , "*" , #7 (' #5()\$#.# 2#(#,)&, '#. 2#'. +&3()&\$8#
\$. B, "' -#'; *%#(' #* . E,)' &" 4.# 2#%\$, #0; &+3&" 4@#2(r(3, #7&\$%#5+('\$&*#&2, 6' (E,)'#2). /# , (#), '*; , #
. 5,)(\$&. "' -#%#(\$#%\$, #()\$&' \$' \$ (4, 3#\$. #5). \$, '\$#(4(&"' '\$#C;). 5, @#", 4(\$&E, #), '5. "' , #\$. #%\$, #

, / ,) 4 , " * 8 # 0 + (" B , \$ ' # (\$ # ^ ,) + & " # 2 ; " 3) (& ' ,) # 2 .) #) , 2 ; 4 , , ' @ (" 3 # ? X % () & \$ 8 # , E , " \$ # (\$ # () \$ # " ' ' \$ (+ (\$ & . " #
3 , ' & 4 " , 3 # 0 8 # 9 & # < , & 7 , & # . ; \$) (4 , ' # ` ,) + & ' @ # * ; + \$; , # ' , *) , \$ () 8 @ # 7 % & + , # \$ % , #) , ' \$ # . 2 # \$ % , # () \$ & * + , # # ' #
(0 . ; \$ # \$ % , # 1 . 0 ' * , " , @ (' 5 , * \$ ' # . 2 # * , + , 0) & \$ 8 # (* \$ & E & ' / W \$ % , # \$ % ,) / (+ 6 0 + (" B , \$ # & / 5 ,) ' . " (\$ & . " ' # (' # 7 , + #
(' # 9 & # < , & 7 , & @ # , () + & ,) # & " & \$ & (\$ & E , # . 2 # 5 % . \$. 4) (5 % & " 4 # % & / ' , + 2 # (' # (# 3 , (3 # 9 8 + (" # e ;) 3 & # ! " # * . " \$) (' \$ # \$. #

!"#9; 4; '\$GHI J#

), *."\$, >\$; (+&1(\$&. "' #' &\$; (\$, '#\$%, ', #', +2&, '#

7%&*%# 3&E&3; (+' #), E, (+#%, &)#%; / (" ", ' '#"#\$, #5), ', '*, #. 2#, S; (+' #K9), " 3\$#I Vj MN-#\$, "#\$, #
5. 7,)#. 2# 8/0. +�.)3,) &" 4#+&, ' #&"#), '\$)&*\$&" 4#5), *&', +8#%&' #2; " 3(/, "\$(+(*\$#. 2#7.)+36
3&' *+. ' ;), #!"#'. #3. &" 4-#&#), 3; *, '#?. ;)@' 5(*, '#. 2#5; 0+&*&\$8\$. #5. '\$6%; / (" &\$()&(" 5(*, 'W
, \$%&*. 65. +&\$&*(# 5(*, '#%(\$#/ (8#(+. 7#2.)#2.) / '#. 2#, / 5(\$%&*-#%; / (" &\$()&("#7&\$", ' '&" 4#8, \$-#(\$#
\$, # (/, #&\$/ , #%)&E, #&"#E. 8, ;)&' \$&*(" 3#). " &*#, " * . ; "\$,)' #. 2#/ &4)("\$#. \$%,)' -#7%&*-#7%&+, #' \$&+
+(&/ &" 4#\$. #(, #(), #, +&\$/ (\$, +8#; " (0+, #\$. #/ . E, #0, 8. " 3#%, #2, ()' -#3. ; 0\$#(" 3#*. " *,)"'# 2#
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a97N#5ee(\$!\+0; /" . R+!f[((\$e*6!V-@4659(8) g!(6!\$#*!X=4(56!h%4(8(63&!b4-H9*) 5\$(e(63!Y *8\$*46!

i 5445\$(G*8!(6!5!_-, 59![-6\$*T\$+!! "##\$%&' ()&'%*+, -". /!; . Q. R\$!. E>

[#-@9(545A(\$!_+Q; /">R+U(3(\$59!<(\$6*88(63!(6!, -6:9(\$!e-6*8&!\$#*!%-9(\$, 8!-:!4*) *?(5\$(-6+B%9".#()&"%G!

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U*56S!V+!Q; //>R+![-)) @6(, 5\$(G*![5%(\$59(8) &![4, @95\$(-6!56?!"\$#!W-4*, 9-8@4*!-:!"b-9(\$, 8+! \$8)\$\$. (8*

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U*56S!V+!Q; /"OS!; S!>R+!L) 53*8!<(\$#-@\$!G(*<*48&X*9:(*!, -)) @6(8) J""#\$2-\$#>^*\$4(*G*?!:4-) !

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G56!U(j, A!V+!Q; /"ER+!, -!* \$8)\$\$. -""9** "%%-')&6&)/4*C** .&)' (8*, &2)". /""9*2""&(8*#-<&(!\T:-4?&!\T:-4?!

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#\$\$%&' '<<<+-%*6+5,+@A',,(3'8(\$*8' <<<+-%*6+5,+@A+,,(3':(9*8'] 5%%(63o;/`*:@3**o;/] *?(5o;
/V-@46*=8o;/''0o;/] 5=o;/Wli o;/] NC/+%?;!

Np) *e\$!K+!J!Z#-46#5) \$!c+!0; /">R+!X*9:(*8!H*=-6?!8*9:74*%4*8*6\$5\$(-6&!\$#*!Q\$#* -4*\$ (, 59R!:04R(, \$(-68!
-:!5!%45,\$(,*+!F"\$.% (8**9*C-2), -)&'2*H*! \$8)\$. -S!I +!

c599\$!V+!0; /'' . R+!Z#*!8*9:7%-4\$45(\$&!a!, @9\$@459!#(8\$-4=+_ -6?-6\$!h! &!Z#5) *8!56?!c@?8-6+!

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