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

0+l'2"3+,&4,'

5672'8(9:'

(;'<"+4/'9=99'

## ! % > , &' ? @AA% + #' ! % > , &B' ! "#%&&' () %%'' + \*, " - , \*) \* +. / %%00'

' C/,'4%@+#\$/-A'&%\*,D'%E'#/,'D''#,',-./#,,&#/'4,&#@+F'-\$'%E#,&'4%&\$-G,+,G''D%&.\$-G,'E,>-&-\$#' \$4/%D''+\$/-A'''&G'.,&G,+'#/,%+F1'C/,'E%+>,+'\$#@GF'-\$',\$A,4-''DDF'+,D,\*''&#H'-&'A''+#H'G@,'#%'3%>,&' ''@#/%+-&.'>@D#-AD,'A%A@D''+'&%\*,D\$'%E'#/,'.,&+,H'I@#'\$@4/'''&''DF\$-\$'+,J@-+,\$''''4%>AD,K' @&G,+\$#''&G-&.'%E'#/,'D''##,+B'.,&G,+'#/,%+F1'?A,4-E-4''DDFH'#/,'4%&\*,+\$''#-%&'\$@++%@&G-&.'''@#/%+\$/-A' %E'3%>,&'-&'#/,',-./#,,&#/'''&G'&-&,#,,&#/'4,&#@+-,\$'&,4,\$\$-#''#,\$'#/,'@\$,'%E'1,\*)\*+./\$%\$0/1' ,KA%\$a'+,\$@D#,G'-&'#/,'4%&G,>&''#-%&'%E' ! %DD\$#%&,4+''E#W\$'>%+,'A+%.,\$\$-\*,'-G,''D\$H'&%#'#/,' #\$%&\$'()\$\*%''\*+'')2."3\$42)0"\*+"5\*/(%'''\$''''3/%D,1'C/,'G,#,+>-&''&#'%E'3/-4/'-G,''\$'3%@DG'I,' \$/@&&,G'+,\$@D#,G'E+%>'#/,'-G,'''#/''#I'M#/%\$,',D,>,&#\$'%E'#/,'3%+[\$'-&'J@,\$#-%&'#/''#'4%++,\$A%&G,G' #%'4/'&.,\$'#/'#'/''G'I,,&'-&'#+''-&'E%+'/''DE''''4,&#@+F'3,+,'''AA+%\*,GP'#/%\$,'#/''#'>"+[,G'%@#'#/,' G-+,4#-%&'%E'>%+,'G+''\$#-4'\$%4-''D'#+''&\$E%+>''#-%&\$'3,+,111+,>''+[,G'''\$'+,\*%D@#-%&''+F'''&G'\*-\$-%&''+FH' -E'#/,F'3,+,'\$,,&'''#'''DDN'S]''&,'9R:U1'C/-\$'''44%@&#'A+%\*,\$'#/''#'3/-D,'*!*"#\$%&\$'()\$\*%''\*+'')2."3\$42)0"\*+" 5\*/(%''>"F'I,'''44,A#,G'''\$'+,\*%D@#-%&''+FH'' ! %DD\$#%&,4+''E#W\$'3%+['+,>''-&\$'''&'''AA+%A+-''#,' +,A+,\$,&#''#-%&'%E'-&#,DD,4#'3-#/-&'#/,'\$%4-,#F'\$/,'4+-#-J@,\$1'L+%#%E,>-&-\$>H'G,\$A-#,'-#\$'&%3YG'#,G'

! C%'@&G,+\$#''&G'#/,',EE,4#'''&G'-&#,&#'%E'6.7\$%&(H'-#'E-+\$#'>@\$#'I,'''4[&%3D,G.,G'#/''#'<''+-''' 5G., 3%+#/'%A,+''#,\$'3-#/-&'#/,'#/,'D''##,+'\$,#'%E'''E%+,>,&#-%&,G'A/-D%\$%A/-,\$'-&' ! %DD\$#%&,4+''E#W\$' 3%+[1'C/,'&%\*,D'G%,\$'&%#'G,>''&G'3%>,&W\$',&#+F'-&#%'#/,'A%D-#-4''D'\$A/,+,'%+'4''DD'E%+''''4%>AD,#,' @A/, "\*"D'%E'#/, '\$%4-"D'%+G,+1'Z&\$#, "GH'5G., 3%+#/'"G/,+,\$'#%' ! %DD,\$#%&,4+"E#W\$'A+"-\$,G'-G, "\$'%EH' M-&#,DD,4#@"D',J@"D-#FH'->A+%\*,G',G@4"#-%&H'"&G'+,E%+>,G'>"&&,+\$N'S]"&,'9R:UI'C/,'->A+,\$\$-%&'%E' 5G., 3%+#/'''\$''''A/-D%\$%A/,+'-\$'#/,+,E%+,''D\$%'\$AD-#'''>%&.\$#'\$4/%D''+\$1'?%>,'A+''-\$,'6.7\$%&(90" A+".>"#-4'"AA+%"4/'#%'A+%#%E.>-&-\$>"'&G'#/.'#/%@./#E@D'-&\*.\$#-."#-%&'%E'#/.'E''-D@+.\$'%E'/.+' \$%4-,#FH'3/-D,'%#/,+\$'4+-#-4-V,'5G.,3%+#/'%E'I,-&.'#%%'#,A-G'''&G'4%&\$,+\*''#-\*,'-&',>I+''4-&.' G+">"#-4'4/"&.,'E%+'3%>,&I'?4/%D"+'0,I%+"/'!,-\$\$""GG+,\$\$,\$'#/-\$'G,I"#,'-&'/,+'"+#-4D,H'MC/,' 5K#+"%+G-&"+F'O+G-&"+F'e,D-&G"B'<"+-"'5G.,3%+#/%\$'T,>"D,'L/-D%\$%A/,+N'"&G'"+.@,\$'#/"#'M#/,' +"G-4"D-\$>'%E'5G.,3%+#/\%'@&G,+\$#"&G-&.'%E'.,&G,+'/'\\$'.,&,+"DDF'I,,&'%\*,+D%%[,G'cG@,'#%'#/,d' #->-G-#F'%E'/ ,+'''AA+%''4/'#%'+,E%+>N'S ! ,-\$\$'889U1'Z&'4%&#+''G-4#-%&'#%'#/-\$'\$@AA%\$,G'#%&''D'+-E#' I,#3,,&'!'#\$%&\$'()\$\*%"\*+")2."3\$42)0"\*+"5\*/(%'''&G'6.7\$%&(8"!,-\$\$'\$@..,\$#\$'#/,+,'-\$'''' MA/-D%\$%A/-4"D'[-&\$/-AN'S ! ,-\$\$'88:UI'eF'#/-\$'+"#-%&"D,H'#/,'3%+[W\$'G-EE,+,&4,\$'\$/%@DG'I,'4-#,G' 3-#/-&'#/,-+'\$#FD,\$'%E'''+.@>,&#''#-%&H'&%#'''+-E#'4''@\$,G'IF'-G,%D%.-4"D'-&4%&\$-\$#,&4-,\$1'5G.,3%+#/' A+-%+-#-V,\$'\$@I#D,#F'''&G'''AA+%''4/,\$'/,+'4''DD'E%+'+,E%+>'3-#/-&'''&'''DD,.%+-4''D'4%&#,K#'''\$'''&' -&#, &#-%&"D'G, \*-4, '#%'&"\*-. "#, '"'\$%4-, #F'G-\$"AA+%\*-&. '%E' ! %DD\$#%&, 4+"E#1''

'C/,'E%+> "#'''&G'\$#%+FD-&,'%E'6.7\$%&('\$@AA%+#\$'!,-\$\$W\$''+.@>,&#'%E'A%\$-#-\*,' -&#,+#,K#@"D-#FH',\*,&'4%&\$-G,+-&.'5G.,3%+#/^\$'@&ED"##,+-&.'A%+#+"F"D'%E'!%DD\$#%&,4+"E#'#/+%@./' #/,'4/"+"4#,+'f"++-,#'T+,[,1'C/,+,'"+,'#3%'>"g%+'-&#,+A+,#"#-%&\$'%E'#/-\$'-&4D@\$-%&B'"&''##''4['%&' !%DD\$#%&,4+"E#'\$->-D"+'#%'#/%\$,'%44@++-&.'"E#,+'/,+'A@ID-4'G,E">"#-%&H'%+'"'4+-#-J@,'%&'#/%\$,'\*,+F' 4%&G,>&"#-%&\$1'C/-\$'4"+-4"#@+,'-\$'#/,'>%\$#'\$A,4-E-4'"DD@\$-%&'#%'!%DD\$#%&,4+"E#W\$'A/-D%\$%A/F'-&' #/,'&%\*,D'"&G'#/,'G-\$4,+&>,&#'%E'5G.,3%+#/W\$'-&#,&#'E%+'-&4D@G-&.'-#'"DD%3\$'-&#,DD,4#@"DDF'E"-#/E@D'  $\begin{aligned} & G_{4} (G_{3} (G_{1} + G_{2} + G_{2} + G_{2} - G$ 

,G@4"#,GH'#%''''.+,"#'G,.+,,H'IF'#/,'%A-&-%&\$'''&G'>"&&,+\$'%E'#/,'\$%4-,#F'#/,F'D-\*,'-&HN' \$ ! %DD\$#%&,4+"E#'(RU'3/-4/'-\$',\*-G,&#'-&'6.7\$%&(1'C/,'&%\*,D'''4#\$'''\$''''#/%@./#',KA,+->,&#'-&'#/-\$' 3 "FH'>"#4/-&.',"4/'3%>"&'3-#/''''4,+#"-&'I,/"\*-%+1''

' 2 "GF'O,D"4%@+'\$,+\*,\$'''\$'''4D,"+'>%G,D'E%+'#/,'&,."#-\*,',EE,4#\$'%E'A%%+H'F,#'\$#''&G"+GH' ,G@4''#-%&'%&'I%#/'3%>,&'''&G'>"++-".,1' ! %DD\$#%&,4+"E#'G,E-&,\$'#/-\$'MA%%+',G@4''#-%&N'IF'\$#''#-&.H''

i ! %>,&'''+, '#%DG'E+%>'#/,-+'-&E''&4FH'''&G'#''@./#'IF'#/,',K''>AD, '%E'#/,-+'

>%#/,+\$H'#/''#''''D-##D,'[&%3D,G.,'%E'/@>''&'3,''[&,\$\$H'g@\$#DF'#,+>,G'4@&&-&.H'

\$%E#&,\$\$'%E'#,>A,+H'%@#3"+G'%I,G-,&4,H''&G'''\$4+@A@D%@\$''##,&#-%&'#%'''A@,+-D,'

[-&G'%E'A+%A+-,#FH'3-DD'%I#''-&'E%+'#/,>'#/,'A+%#,4#-%&'%E'>''&G'\$/%@DG'#/,F'

I, 'I, "@#-E@DH', \*, +F'#/-&.', D\$, '-\$'&, ,GD, \$\$H'E%+H'''#'D, "\$#H'#3, &#F'F, "+\$'%E'#/, -+'

D-\*, \$'S ! %DD\$#%&, 4+"'E#' (RU1'

) \$'2 "GF'O, D"4%@+'-\$''''. +% 3 &' 3 % > "&'3 -#/'I%#/'''/@\$I"&G'''&G'''G"@./#, +H'/, +'I, / "\*-%+\$'>@\$#'I, ' A, +4, -\*, G'''\$'E@DDF'G, \*, D%A, GI'j &D-[, 'e, D-&G''H'\$/, '-\$'&%#''&'-&., &@, '-&'#/, 'A+%4, \$\$'%E'G, #, +>-&-&.' /, +'-G, &#-#F'%+'E-.@+-&.'%@#'/% 3 '#%'&''\*-. "#, '\$%4-, #FI'2"GF'O, D"4%@+W\$'I, / "\*-%+'I%#/', KA%\$, \$'#/, ' #+, &G'%E'#, "4/-&.'3% >, &'#%'I, '4%&&-\*-&. '''&G'\$/''DD% 3 '#%'\$@44, ,G'E-&''&4-''DDF'-&'#/, '> "++-''., ' > "+[, #H'''&G'-DD@>-&''#, \$'#/, '%@#4% >, '%E'\$@4/', G@4''#-%&B'G-\$-&#, +, \$#'-&'G% >, \$#-4'D-E, '''&G'D''4['%E' \*-+#@,1'5G., 3%+#/'4/''+''4#, +-V, \$'/, +'''\$H'M# 3%'G-EE, +, &#'A, +\$%&\$1') I+%''GH'\$/, ''AA, "+,G'''DD'D-E, H' \$A-+-#'''&G'.%%G'/@>%+ k ''#'/% >, H'D-\$#D, \$\$H'E+, #E@D'''&G'>, D''&4/%DFP'\$/, '\$,, >,G'D-[, ''''\$A%-D,G' ''4#+,\$\$'%EE'#/, '\$#''., 111, K/''@\$#,G'IF'#/, ', K, +#-%&\$'%E'\$@AA%+#-&. ''''E-4#-#-%@\$'4/''+''4#, +N'\$5G., 3%+#/' (=U!'?/, '-\$'#/, +,E%+, ''D3 ''F\$'G%&&-&. ''''A, +\$%&''H'''&G'/, +'D-E, '-\$'A, +E%+> "#-\*,1''

' C/-\$'G@AD-4-#F'A+%\*,\$'#%'I,'4% > AD,KH'/%3,\*,+H'-&'5G.,3%+#/W\$'A@+\$@-#'%E'E%+>-&.'#/,' -G, "D'3% > "&1'Z&'?/"+%&'?>-#/W\$'"+#-4D,H'M2"GF'O,D"4%@+^\$'h < "\$[WB'LD%##-&.'O%>,\$#-4-#F'-&'<"+-"' 5G.,3%+#/^\$'6.7\$%&(HN'?>-#/',KAD"-&\$H'M#/,'4%&4D@\$-%&'%E'#/,'&%\*,D'>"[,\$'4D,"+H'-#'-\$'&%#'2"GF' O,D"4%@+'\$'A,&4/"&#'E%+'A,+E%+> "&4,'#/"#'-\$'A+% ID,>"#-4P'+"#/,+H'#/,'A+% ID,>'D-,\$'-&'#/,'3"F'\$/,' /"\$'AD%##,G'/,+'A,+E%+>"&4,H'"'A@+,DF'hE-4#-#-%@\$W'G-\$AD"F'3/-4/'-\$'G,\$-.&,G'#%'/-G,'hG%>,\$#-4' >-\$,+FW'+"#/,+'#/"&'A+%>%#,'G%>,\$#-4'/"AA-&,\$\$N'S?>-#/'X9U1'C/-\$'\$@..,\$#\$'#/"#'#/,'A+%A,+' I,/"\*-%+'"&G'A,+E%+>"&4,'%E'"'3%>"&'3%@DG'I,'#%'"AA,"+'\$"#-\$E-,G'3-#/'G%>,\$#-4'D-E,'I%#/'-&' A@ID-4'"&G'A+-\*"#,'\$A/,+,\$1'2"GF'O,D"4%@+'3%@DGH'#/,+,E%+,H'A+,\$,&#'"\$'E@DE-DD,G'-&'/,+'>"++-".,H' >"&".,'/,+'/%@\$,/%DGH'"&G'+"-\$,'/,+'4/-DG+,&'+,."+GD,\$\$'%E'/,+'A,+\$%&"D'E,,D-&.\$1''

' C/-\$'"\$\$, +#-%&'%E'-&#, &#'-\$'J@, \$#-%&, G'IF'2"GF'0, D"4%@+W\$'3-G, DF'"4[&% 3D, G., G'E%-D' 4/"+"4#, +H'2"GF') &&, 'L, +4-\*"DH'"&G'#/, '>%G, \$#'/, +%-&, '%E'#/, '&%\*, DH'e, D-&G"1'C%'4%&#+"\$#'2"GF' 0, D"4%@+W\$'I, /"\*-%+H'e, D-&G"'G-\$AD"F\$'#/, '>, +-#\$'%E'@AI+-&.-&. '" 3 "F'E+%>'#/, 'E"\$#YA"4, GH' 4% > A, #-#-\*, '"&G'> "#, +-"D-\$#-4'4-#F'D-E, 1') \$'\$/, '&"\*-. "#, \$'/, +'E+-, &G\$/-A'  $\begin{aligned} &+, \#@+\&, G'\#\%'5\&, D''\&GH'G, \#, +>-\&, G'\#\%'4''++F'/-\$'\$4/, >, '->>, G-''\#, DF'-&\#\%', K, 4@\#-\%&N'\$5G, , 3\%+\#/'\\ &::=UI'C/, 'E''-D@+, '\%E'\#/-\$', KA, +->, &\#'\#\%'A/-D\%\$\%A/-4''DDF'>\%DG'/-\$'\% 3\&' 3-E, '+, *, ''D\$'5G, , 3\%+\#/\$'\\ &I, D-, E'#/''#'\$@4/'''A@+\$@-#'-\$'&\%#'#/, '''4#-%&'#/''#'>@$#'I, '#''[, &'#\%'4@+, '$%4-, #FW$'-$$@, '#/''#'$/, '/''$'+, A+, $, &#, G'-&'#/, 'E\%+> '%E'2''GF'O, D''4\%@+1'C\%'@&G, +$#''&G'#/, '&@''&4, '%E'/, +'4\%>>, &#''+F''*&G''&G'', 'E+''>, 3\%+['IF'3/-4/'/, '%A, +''#, $H'''&G''', 'E+'', 'IF'3/-4/H'5G, 3\%+#/'#''[, $'G-$$, &#'-&B'#/, 'A/-D%$%A/F'%E'], ''&']''4J@, $' \%@$$, ''@1'''$ 

' ], "&']"4J@,\$'\%@\$\$, "@^\$'A/-D%\$%A/-,\$'%&',G@4"#-%&'E%4@\$'%&'#/,'-&G-\*-G@"D'"&G' ,>A/"\$-V, '#/, '->A%+#"&4, '%E', "+DF'D, "+&-&. '%44@++-&. '" 3 "F'E+%>'\$%4-,#"D'-&ED@,&4,\$1'Z&'

 $I, ##, +>, &#''&E'$\%4-, #FH'''$'#/-$'$-#@''#-%&'J@-4[DF'I, 4\%>, $'G, #+->, &#''D'#\%'I\%#/'`D''+, &4, 'f, +*, F'''&G' \\ & (''4/, D'''D-[, 1'') \\ \\ & (''4/, D'') \\ \\$ 

], "&-&, '<1' e +-##%&'G-\$4@\$\$, \$'#/, 'A"+#-4@D"+'\$-.&-E-4"&4, '%E'#/, '&">, '.-\*, &'#%' \ "4/, D'-&' #/, '"+#-4D, H'MC/, %+-V-&.'`/"+"4#,+'-&'<"+-"'5G., 3 %+#/W\$'6.7\$%&( \,E%+>"#-%&\$'>@\$#'E-+\$#H'#/,+,E%+,H'I,'>"G,'%E'>"D,',KA,4#"#-%&'-&'%+G,+'#%'"DD%3'#/,'E@DD' +,E%+>"#-%&'%E'3%>,&W\$',G@4"#-%&H'"'\$,&#->,&#',4/%,G'3-#/-&'2"GF'O,D"4%@+W\$'E"-D,G'>"++-".,H' \"4/,DW\$'-&"I-D-#F'#%'E%+>'"'4%>A"&-%&"#,'>"++-".,'3-#/'`D"+,&4,'f,+\*,FH'"&G'e,D-&G"W\$' @D#->"#,'M>"[-&.N'%E'/->1'

! %DD\$#%&,4+"E#W\$'G-\$#-&4#'4/"DD,&.-&.'%E'\$%4-,#FH''\$'3,DD''\$'#/-\$'\$A,4-E-4'AD%#D-&,'%E' 6.7\$%&('3%@DG''D\$%'-&\$A-+,'#/,'-&#,++%."#-%&'%E'3%>,&W\$',G@4''#-%&'-&'D''#,+'&-&,#,,&#/'4,&#@+F' 3%+[\$1')'&%#"ID,',K">AD,'-&'4D%\$,'A+%K->-#F'-\$']''&,')@\$#,&W\$'(Q(8'A@ID-4''#-%&B'  ,J@"D-#F'I,#3,,&'#/,'\$,K,\$'-&',\*,+F'+,."+GI'C/-\$'G-\$#-&4#-%&'-\$'#/,'A+%#%E,>-&-\$#' D,&\$'&,4,\$\$"+F'#%'"44@+"#,DF'.+"\$A'/,+'4+-#-J@,'%E'`D"+,&4,'f,+\*,F'"&G'\$%4-,#F'"\$' "'3/%D,1''

,

C/, \$, '4"\*, "#\$'%E#, &'G-\$''AA%-&#'+, "G, +\$'%E'#/, '9(\$#'4, &#@+FH'''\$', \*, &'#/, 'E'' > %@\$' A+% .+, \$\$-\*-\$> '%E' < "+F' ! %DD\$#%&, 4+"E#'I, &G\$'#%'A''#+-"+4/"D'\*"D@, \$'#/"#''+, '+, ED, 4#, G'-&'\$@44, ,G-&.' 3%+[\$'\$@4/''\$' < "+-"'5G., 3%+#/\$'6.7\$%&(1'Z#'-\$', \$\$, &#-"DH'/% 3, \*, +H'#%'4%&\$-G, +'#/, 'E''4#'#/'#'#/, \$, '3% >, &''+, 'A+%G@4#\$'%E'#/, '\$%4-, #F'#/, F'''->'#%'4+-#-J@, 1'C/, -+'A/-D%\$%A/-, \$'\$/%@DG'&%#'I, 'D''>, &#, G'E%+'#/, -+'4&&4, \$\$-&&\$'\$M', 'A''#+-''+4/"D'''@#/&+-#FH'I@#'4, D, I+''#, G'E%+'#/, '-&#, DD, 4#'@#-D-V, G''+#-4@D'#+&. '&, 3'G, E-&-#-&&\$'&E' 3% >, &W\$'AD''4, '-&' >''++-''., H' > &#/, +/%G'''&G'&M4-, #F1'C/, '4%A, +''#-&'&E' = 2. "#\$&&\$'()\$\*%''\*+')2. "3\$42)0"\*+''5 \*/(%'''&G'6.7\$&('''DD%3'3% >, &H'&@4/''\$']''&, '

!,-\$\$H'0,I%+"/1'MC/,'5K#+"%+G-&"+F'O+G-&"+F'e,D-&G"B'<"+-"'5G.,3%+#/W\$'T,>"D,'

L/-D%\$%A/,+1N'D\$42)..%)2"@.%):,A"L\$')\$\*%H'\*%D1'(RH'&%1'8H'?@>>,+'9==XH'AA1'88(m