





%

! - TS%) V% % / ' 66\$ # \$ % I G=9: =90%

%

Y\$: B' 8=C%R9>\$H''B9: =C%?G>"H9: =C%Q' 8RF%\$>\$8#GF% ">?%<' Q\$8C%9H<A6=\$%">?%H' H\$>BAHC%8' B''B9' >C%?G>"H9: =%' (%  
8' B''B9' >C%\$6''=B9: 9BGC%'>?% =: %66''B9' >J%/8\$?9B=FU%>9B=C% 8\$.8\$@A9=9B\$E%\* +, -%&)^F%\* +, -%&K%

%

! - TS%) V1% % / ' 66\$ # \$ % I G=9: =90%1''7b%

%

2; <\$89H\$>B=%0>%H\$: I''>9: =%B' %?\$D\$6' <%7''=9: %6''7' 8''B' 8G%=R%6=%A=9>#%B8''?9B9' >"6%">?%: ' H<AB\$8.7"=\$?%\$@A9<H\$>B%  
''8\$%<\$8(' 8H\$?J%W/8\$?9BE%&%A>9BC% 8\$.8\$@A9=9B\$E% - TS%) V%: '.8\$@A9=9B\$bf%\* +, -%&&F%\* +, -%&)K%

%

%

, I \$% ' A8=\$%<8' D9?=\$%>'> D\$8D9\$Q%' (%/I 89=B9''>#2BI 9: =F%QI 9: I %0=%?=\$-9#>?\$?%B' %I \$6<-%BA?>B=%7\$#9>%'>=Q\$89>#%=' H\$% (A>?' H\$>B''6%@A\$=B9' >=%' 7' AB%/I 89=B. : ''>B\$8\$?%69(\$%'>?%QI ''B%I''R\$=90B%Q' 8BI %69D9>#J%0B%0=%?9D9?>?%0>B' %BI 8\$%\$%<' 8B=E%- AH''>% ! \$8=' >X=%2BI 9: =%' (%4\$9>#%'>?%L' 9>#E%9>B8' ?A: \$=%' >=\$B' %8\$' 69B9\$=%' (%H' 8''6%69(\$F%B' %''>%'>' 6G=9=%' (%BI \$%H' 8''6%<8' : \$==% a: ' >=B9BA\$>B=F%=' A8: \$=%'>?%H' ?9(9\$8=%' (%I AH''>%' : B=bf%B' %BI %8\$6''B9' >=I 9<%' (%\$BI 9: =%'>?%I' 8''69B%B' %8\$69#9' A=%('9BI F%'>?%B' % =<\$: 9(G%>' BA8\$%' (%/I 89=B9''>#I' 8''69B%J%V>9B%V%F%5''69Z9>#%- AH''>'>#L 9#>9B%G%'>?%3\$>A9>\$% 8\$%\$?' HF%?'\$''6%Q9BI %BI \$%I AH''>#<\$8=' >% ''=%%I' 8''6%''#>BF%I AH''>%(8\$%\$?' HF%: ' >=: 9\$>: \$%=9>%'>?%H' 8''6% 769#''B9' >#0>%BI \$%69#I B%' (%BI \$%M' 8?' (%3' ?%0>%BI \$%S' : 8\$?% S: 89<BA8\$=%'>?%B' %BI \$%, '\$': I 9>#%' (%BI \$%/I A8: I %\$>=I 89>\$?%0>#- \$8%B8''?9B9' >F%I 8' >' A>: \$H\$>B=%'>?%L' : AH\$>B=F%'>?%V>9B%JF% , I \$%/I 89=B9''>#5\$=<' >=\$%B' %S' H\$%S<\$: 9''6%/ >B\$H<' 8''8G%\* ' 8''690==A\$=F%#9D\$=%<\$: 9''69''BB\$>B9' >9B' %BI \$%, \$>%/ ' HH''>?H\$>B=% I 9#I 69#I B9>#%BI \$%I' 8''6%<89>: 9<6\$=%'>?%D98BA\$=%D9=. ''D9=%' H\$%' >B\$H<' 8''8G%I' 8''690==A\$=J% I \$%<\$: 9(9: %I' 8''690==A\$=%BI \$G%' 8\$% \$>: ' A>B\$89>#%'>?%BI 9=%\$''?%BI H%B' Q''8?=%' H%I 9BB\$?%I' 8''699D9>#J%0%

%  
\* +, - %&) e% %0>B\$#8''6%/''6: A6A=%  
%

/ ' >: <B%' (%9>B\$#8''B9' >%'>?%9B=%''<<69: ''B9' >%B' %<I G=9: ''6%<8' 76\$H=%A: I %''=%SD''6A''B9' >%' (%''8\$''=F%D' 6AH\$=%' (% 8\$D' 6AB9' >F%(' 8: \$F%'>?%Q' 8RC%(A>?' H\$>B''6%(' 8H%A6''=%'>?%D''89' A=%B\$: I >9@A\$=%' (%0>B\$#8''B9' >%'<<69\$?%B' %7' BI %9>#6\$%D''89''76\$% ''>?%HA6B9.D''89''76\$(A>: B9' >=C%88'' : 9>#%' (%A>: B9' >=%' (%BQ' %D''89''76\$=J%

%  
! - TS%W) K% %/' 66\$#%\$%I I G=9: =%00%  
%

`6A9?=%C BI \$8H''6% \$; <'>=9' >F% BI \$8H''6% =B8\$==C I \$''B% B8''>=(\$8C% : ''6' 89H\$B8GC% Q''D\$=%C \$6\$: B8' =B''B9: =C% \$6\$: B89: 9BGC% H''#>\$B9=HC% <B9: =C%0H''#%\$(' 8H''B9' >%7G%<6''>\$%'>?% A8D\$?%I-1988' 8=C%'>?%0H''#%\$(' 8H''B9' >%7G%BI 9>%\$>=#J%

%  
! - TS%W) K1% %/' 66\$#%\$%I I G=9: =%00%1''7b%  
%

/ - 2 \* %J)) %%+ >' 6GB9: ''6%/I \$H9=B8G%  
%

+%BA?G% (%BI \$%BI \$' 8G%'>?%<8' : B9: \$% (%#8''D9H\$B89: %'>?%D' 6AH\$B89: %I-H\$BI ' ?=%' (%>' 6G=9=F%0>: 6A?9>#%'>#0>B8' ?A: B9' >% B' %0>=B8AH\$>B''6%I-H\$BI ' ?=%' (%>' 6G=9=J%

%  
/ - 2 \* %J)) 1% %+ >' 6GB9: ''6%/I \$H9=B8G%1''7b%  
%

+%' 7' 8''B' 8G%: ' A8=\$%BI ''B%'<<69\$=%BI \$%<89>: 9<6\$=%'>?%BI \$' 89\$=%' (%#8''D9H\$B89: %'>?%D' 6AH\$B89: %I-H\$BI ' ?=%' (%>' 6G=9=% ' (% I \$H9: ''6%''H<6\$=F%Q9BI %'>%\$H<I ''=9=% >%'' 7' 8''B' 8G%B\$: I >9@A\$=%'>?%': : A8'': G% (%I-H\$''=A8\$H\$>B=J%

%  
`96%/%%0I ''#7''=%''B9I ''#=A6''B% A>#'' %''%I ''>'>' 69R=9R%  
%

a\* "B\$8%B\*" "#9=B8" F% " : \$H%>% \$889=F% ' <A6' 8AH% 8' #8\$==9' F% " =B' 8" 6%/ ' >=B9BAB9' >% >%BI \$%/I A8: I % >%BI \$%\* ' ?\$8>%  
M' 86?b%+%BA?G% (%BI \$%<8\$=\$>B% 99<9>' %9(\$E%>%BI \$%("H%GF%>% 9=%Q' 8RF%>% 9=%' : 9" 6% ' >B" : B=J% I \$% 99<9>' f I 9=% AB6' ' R% >%  
69(\$F% 9=%("9BI J% 8' 76\$H=F=BA?G9>#%BI \$%# ' : 9" 6%">?%: A6A8" 6%: ' >?9B9' >=C% (((\$89>#%# ' 6AB9' >=9>%BI \$%69# I B% (%BI \$%B\$": I 9>#=% (%BI \$%  
/I A8: I J%/8\$?9B=E% U%A>9B=%I \$: BA8\$J% 8\$8\$@A9=9B\$% - T%&F% - T%W/F% - T%U%

%  
\* S2%U))% A>?"H\$>B" 6=% (%\* "B\$89" 6=%S: 9\$>: \$%>?%2>#9>\$ \$89>#%  
%

, I 9=%: ' A8=\$%>B8' ?A: \$=%BI \$%=BA?>\$>B=%B' %""%78' ""?%=BA?G%' >%BI \$%=B8A: BA8\$%">?%: ' H<' =9B9' >% (%H" "B\$89" 6=%aH\$B" 6=F%  
<' 6GH\$8=F% \$8" H9: =F%">?% ' H<' =9B\$%H" "B\$89" 6=b%">?%BI \$%8%<8' <\$8B9\$=%">?%7\$ I "D9' 89>#=\$8D9: \$%\$>D98' >H\$>B=J%

%  
/-2%U&&%% I G=9: "6%/I \$H9=B8G%(' 8%2>#9>\$ \$8=%&%1\$: b%  
%

, I 9=%: ' A8=\$%?%" 6=%Q9BI %BI \$%=BA?G%' (%BI \$%<I G=9: "6%<8' <\$8B9\$=%">?%=B8A: BA8\$%' (%H" "BB\$8F%Q I 9: I %6" Q=%' (%: I \$H9: "6%  
8\$": B9' >F%">?%Q9BI %BI \$%BI \$' 89\$=#' D\$8>9>#%BI \$%=\$J%  
%  
/-2%U&&1% I G=9: "6%/I \$H9=B8G%(' 8%2>#9>\$ \$8=%&%1" 7b%

?9((\$8\$>B9"6\$@A"B9' >=J%\_>' Q6\$?#\$\$% (% ' H<AB\$8%<8' #8"HH9>#% 8%BI \$%A=\$% (% ' HH\$8:9"6%=' (BQ"8\$=%0=%\$==>B9"6B' %('':96B"BS%  
8\$<\$B9B9D\$%>AH\$89: "6% "6: A6"B9' >=J%  
%  
/-2%UV&%%I I G=9: "6%/I \$H9=B8G%(' 8%2>#9>\$8=%/1\$: b%  
%  
+%=BA?G% (%BI \$%(A>?"H\$>B"6%<89>:9<6\$=% (%<I G=9: "6%">?% I \$H9: "6%<8' <\$8B9\$=% (%H"BB\$8% ' D\$89>#% I \$H9: "6%">?9' >9: %  
\$@A%9789"6\$6\$: B8' : I \$H9=B8G%R9>\$B9: =F%#A8(': \$%<I \$>' H\$>"%>?% "B"6G=9=F%">?9>B8' ?A: B9' >B' %@A">BAH%I \$: I ">9: =J%  
/-2%UV&1%%

' (%6B8''B9' >%\$@A9<H\$>B%' <\$8''B\$?%"B%.' >=B''>B%<8\$==A8\$F%.' >=B''>B%8''B\$%' 8%'%:' H79>\$?%:' >=B''>B%<8\$==A8\$%<8\$: \$\$?%7G%  
: ' >=B''>B%8''B\$J%L\_\$=9#>% (' >B9>A' A=%8' B''8G%D'': AAH9(%6B\$8%=%'6=' %29=: A==\$\$?J%  
%  
/-2%&U%%/I \$H9: ''62>#9>\$89>#% I \$8H' ?G>"H9: =%M% %  
%

%  
 , I 9=% ' A8=\$%=\$8D\$=%"=>#9>B8' ?A: B9' >#B' %B1 \$%<8'': B9: \$% (% I \$H9: "6%\$>#9>\$ \$89>#J%\$<\$: 9(9: "66GF%0B%?\$ "6=Q%0B1 %B1 \$%A>9B%  
<8' : \$===\$%>?% <8''B9' >=#9>D' 6D\$?%>#%\$6\$: B\$?% I \$H9: "69>?A=B89\$=J%  
%  
/-2%^V^1%/I \$H9: "6%2>#9>\$ \$89>#%1 "7' 8''B' 8G%&%%  
%  
 +%6''7' 8''B' 8G%: ' A8=\$%B' %9>D\$=B9#''B\$%D''89' A=%B1 \$' 89\$=%\$>: ' A>B\$8\$?%9>#H' H\$>BAH%BB''>=(\$8F%I \$''B%BB''>=(\$8%''>?%  
\$D' <' 8''B9' >J%, I 9=%Q%66%"6' %=\$8D\$%''=%''%D\$>A\$%(' 8%B1 \$%?9=: A==9' >%' (%B' <9: =%>' B%9>: 6A?%?%9>%B1 \$%\$6\$: BA8\$%9>D' 6D9>#%=' 69?=%  
I ''>?69>#%''>?%\$<'8''B9' >J%  
%  
/-2%^VK%%/I \$H9: "6%2>#9>\$ \$89>#%5\$=\$''8: I %&%  
%  
 , I 9=% ' A8=\$%0=%%<8\$<'8''B9' >#B' %B1 \$%<<69: ''B9' ># (%B1 \$%#>\$8''6% ' >: \$<B=%\$''8>\$?%''7' AB%BI \$%7''=9: 9\$>: \$=%\$''?9>#%  
B' % I \$H9: "6%\$>#9>\$ \$89>#J%0B% ' D\$8=%B1 \$%7''=9: %?9=: 9<69>\$% (%B''8B9>#%A<%''%B\$=\$''8: I % (9>B\$8\$=B%7G%B1 \$%BA?>\$>B=%''>?%\$BB9>#%A<%  
B1 \$%H\$B1 ' ?' 6' #9\$=%<\$8B9>\$>B%B' %B1 \$%\$(((\$: B9D\$% <\$8''B9' >% (%B1 \$%8\$=\$''8: I %B1 \$=9=J%  
%  
/-2%^Vi %\$S''(\$BG%9>%B1 \$%I 8' : \$==9>?A=B8G%  
%  
 /' D\$8=%'66%BI \$%<=\$: B=% (%=' (\$BG%9>%8\$6''B9' >#B' %B1 \$%9>?A=B89''6%(9\$6?%9>: 6A?9>#%# ' D\$8>H\$>B%8\$#A6''B9' >=%>?%A?9B%>?%  
9>=<\$: B9' >#B''>?''8?=%B1 "B%Q%66%('H%69''89Z%#B1 \$%BA?>\$>B% >#B1 \$%D''89' A=%<=\$: B=% (%=' (\$BG%9>%B1 \$%9>?A=B89''6%''8\$>'J%  
%  
32%J)&%%2>#9>\$ \$89>#%2: ' >' HG% %  
%  
 /' >: \$<B=%' (%B1 \$%B9H\$%D''6A\$%' (%H' >\$G%''>?% \$@A9D''6\$>: \$C%7''=9: %\$:' >' HG%BA?G%H\$B1 ' ?=C%?%\$: 9=9' >=#A>?%8%  
: \$8B''9>BGC%?%\$: 9=9' >=#8\$: ' #>9Z9>#%09=RC%''>?%?%\$: 9=9' >=#''?H%9BB9>#%A>: \$8B''9>BGJ%  
%  
/-2%K))%9>?A=B8G%0HH\$8=9' >% %  
%  
 +%M^). I ' A8=%<8'': B9: AH%9>%''%8\$6\$D''>B%Q' 8R%\$>D98' >H\$>B%  
%  
/-2%^Vh1%9>?A=B89''6%I 8' : \$==9%''7' 8''B' 8G%  
% N' %?%\$=: 89<B9' >%G\$BJ% ' %7\$% (((\$8\$?%(98=B%9H\$%M/>?% \$8H+T%M) &h.V) &i J%SB%6%?8''(B9>#%B1 \$%G6''7A=J%  
%  
/-2%K&&%%2@A9<H\$>B%L\$=9#>% %  
%  
 , I 9=% ' A8=\$%0=\$; <\$: B\$?%B' %: ' H<6\$H\$>B%BI \$%! 6''>B%L\$=9#>%: ' A8=\$9>%B1 \$%<8\$<'8''B9' >%' (%B1 \$%?%\$=9#>%<8' P\$: BJ%0B%  
9>: 6A?%\$=%\$@A9<H\$>B%?%\$=9#>%9>#9>?A=B89''6%<6''>B=F%Q%BI \$%H<I ''=9=%' >#I ' 8B.: AB%H\$B1 ' ?=C%<9<9>#%G=B\$HF%<AH<=F%<8\$=A8\$%  
D\$=\$6=F%I-H''=9%>?%I \$''B%8''>=(\$8\$@A9<H\$>B%I-H''B\$89''6=9% ''>?69>#J%  
%  
/-2%K&V%9>B8' ?A: B9' >#B' %I ''8B9: A6''B\$% \$: I >' 6' #C% %  
%  
 , I 9=% ' A8=\$%0=9>B\$>?%?%B' %<8' D9?%\$7''': R#8' A>%H''B\$89''699>%<'8B9: 6\$%B\$: I >' 6' #GF%(' : A=9>#% ' >: I ''8'': B\$89Z''B9' >F%  
7\$ I ''D9' 8F%<8' ?A: B9' >F%=\$<'8''B9' >F%''>?%I-H' ?\$69>#% (%<'8B9: A6''B\$%G=B\$H=%''>?%A8D\$G9>#%\$>#9>\$ \$89>#%<8' : \$===\$%BI ''B99>D' 6D\$%  
<'8B9: A6''B\$=%>?%<' Q?%8=J%\* A6B9<I ''=\$%8''>=<' 8B%<I \$>' H\$>'>?%(6A9?9Z''B9' >%''8\$%6' %?9=: A=\$?J



%

/-2%K&K%/I \$H9: "6%2>#9>\$89>#%5\$=\$"8: I %/%

%

, I 9=%: ' A8=\$%0=%": ' >B9>A"B9' >%">?%(9>' 6%B\$8H% ('>'>D"B9D\$%?=\$-9#>F%B1 \$' 8\$B9: "6% 8%\$; <\$89H-\$>B"6%B\$=\$"8: I % '>%"" =6\$: B\$?%/I \$H9: "6%2>#9>\$89>#% 8%B\$6"B\$?%B' <9: %Q9B1 9>%B1 \$%: ' >(9>\$=%' (%B1 \$%?\$<"8BH-\$>B%=>?%BA?>B%#B\$=' A8: \$=%A>?\$8% B1 \$%#A9?": \$%>?%A<\$8D9=' >% ('%@"A"69(\$?%(": A6B%8\$=\$"8: I %" ?D9=\$8J\$SBA?>B=%H\$B%Q9B1 %B1 \$%(": A6B%8\$=\$"8: I %" ?D9=\$8%(' 8% A<?"B\$=%">?% ' >=A6B"B9' >J%

%

%

/-2%K&h%! 8' : \$==%LG>"H9: =% ">?%/ ' >B8' 6%

%

, I 9=%: ' A8=\$%: ' H79>\$=%B1 \$%H"BI \$H"B9: "6%<IG=9: "6%">?%: I \$H9: "6%: ' >: \$<B=%(' 8%"<<69: "B9' >%B' %<8' : \$==%9HA6"B9' >% ">?% ' >B8' 6% I 9=%0=%' >B8' ?A: B' 8G%<"8B%(' 8%<8' : \$==% ' >B8' 6%?=\$-9#>% ">?%">"6G=9=J%V/I \$>\$D\$8%"<<8' <89"B\$F%\* +, 1+4%0=%A=\$?% B' %? \$H' >=B8"B\$%B1 \$%7\$I "D9' 8% (%B1 \$% ' >B8' 6%G=B\$HJ%

%

/-2%K&h1% % 8' : \$==%LG>"H9: =% ">?%/ ' >B8' 6%1"7' 8"B' 8Gb%

%

, I 9=%6"7' 8"B' 8G%: ' A8=\$%9>D\$=B9#"B\$=%">?%"<<69\$=%B1 \$%D"89' A=%B1 \$' 89\$=%\$>: ' A>B\$8\$?%9>%! 8' : \$==%LG>"H9: =% ">?%

! "#\$%&' (%&)%

%

/-2%KV^%% 9\$6?% 89<=%>?%\$H9>"8=% %  
%

, I 9=%: ' A8=\$%?'\$ "6=%Q9B1 %"\$=\$89\$=%" (%\$ : BA8\$=%>?%=\$H9>"8=% >%= \$6\$ : B\$?%B' <9: =%B1 "B%"8\$%I 9# I 6G%8\$6\$D">B%B' %: I \$H9: "6%  
\$>#9>\$ \$89>#%7AB%"8\$%>' B%: ' D\$8\$?%>%'">G%' (%B1 \$% BI \$8%(' 8H'"6%: ' A8=\$=J%0B%: ' D\$8=%8\$ : \$>B%"?D">: \$=%>%: I \$H9: "6%\$>#9>\$ \$89>#J%  
Y9=9B=%B' %>?A=B89"6%<6">B=%"8\$%'6=" % ' >?A: B\$?%A89>#%BI \$%8\$8HJ%

%  
/-2%KVK% %I "Q=%>?%2B1 9: =%( ' 8%/ I \$H9: "6%2>#9>\$ \$8=% %

%  
, I \$%: ' A8=\$%' ((\$8=%?9=: A==9' >% ' >%B1 \$%8\$6\$D">B%>"B9' >"6%6"Q=%' >%B1 \$%<8' (\$==9' >"6%<8": B9: \$%9>%B1 \$%! I 969<<9>\$=F%  
: I \$H9: "6%\$>#9>\$ \$89>#%<8' (\$==9' >F%: ' >B8": B9>#F%<8' P\$: B%0H<6\$H\$>B"B9' >F%\$>D98' >H\$>B%>?%=" (\$BGF%>D\$=B+H\$>B=%">?%=\$BB9>#%  
' (%\$>B\$8<89=\$=9>%B1 \$%I 969<<9>\$=J%0B%'6=" % ' D\$8=%?9=: A==9' >% >%B1 9: "6%="B">?"8?=%(' 8% I \$H9: "6%\$>#9>\$ \$8=J%

%