

! "\$%&' () **+, "#) -./#0"12"%.#/"#3"&) 4' , "" #2" (2**1#(' #) / (1"#.0\$+--(' \$*#. "00-. (05#./"#

Y % (; ; 4' -%\$. "#'GG''%.-6''*5#\$' +#' .''0\$%.#'. /-%\$*5#) -./#\$#% (; ; 4' -.5#2\$0.' ''0\$1#5(4#+''6''*(2#
\$' #' [/ -O.#0\$1''+#(' #./''-0#() '#(0#./''-0#G\$; -*5h1#P(*(%\$41.#'[2''0-''%'1#
Y +''; (' 1.0\$. '#./''#+-,-.\$*/4; '\$' -.'1#1&-*1# '''+''+#.(#%0''\$.'#\$' #' [/ -O.#(' #] ; ''&\$#
Y ''[\$; -''#5(40#() '#0(*''\$' +#0''12(' 1-0-*. -'1#' #.'''-'' ,#1(; ''(' ''#''1''h1#1.(05#'#\$#+-,-.\$*#
G(0; \$.?#
#

DC68+6,7*3%

L\$0.-%2\$.-(' iL0''2\$0\$.-(' # CDj # #
!
L0''1'''. \$.-(' #(' #(' '#(G#./''#\$11-, ' ''+#0''\$+-', 1# CDj # #

R(%&#%(' G''0''''%''#2\$' ''#+-1%411-(' # EDj # #

c0''\$.-(' '\$' +#\$4' %/#(G#(' ''#1''%.-(' # (G#\$#+-,-.\$*#'[/ -O.-# JDj # #

c(00''12(' +-', #G- '\$*#2\$2''0#(' #./''#%(401''#20(' "%.# CDj # #
!
!

/ * +01. %E. F+70. = . 3,1%

a(4#0''#[2''%.' +#. (#\$. .'' +#./''#%(401''#0'', 4*\$0*58#.(#/\$6''#./''#0''\$+-', 1#\$' +#\$11-, ' ; '' .1#
% (; 2''.' +#(' #.-; ''8#\$' +#. (#2\$0.-%2\$.' #G4**5#'#.#./''#%\$11#+-1%411-(' 1?a(40#'+-6-+4*\$# ' Y%*\$11#
% (' .0-04.-(' 18#'. ''0\$%.-(' 18#\$' +#0''G''%.-(' 1#0''#%\$*%4*\$'. ''+''. (#./''#2\$0.-%2\$.-(' i#20''2\$0\$.-(' #
, 0\$+'?#a(4#; \$5#\$*1(#2\$0.-%2\$.' #(' #./''#+-1%411-(' #G(04; #(' #_0-, /.12\$%''#(4.1-+'#(G#*\$11#.-; ''?##

_''1-+'1#2\$0.-%2\$.-(' '\$' +#20''2\$0\$.-(' 8#%(401''#0'': 4-0''; '' .1#'%4+'1#20''1'''. -', #(' #(' ''#(G#./''#
1%/(*\$0*5\$0.-%*''1#(0#O((&#%/\$2.' 01#11-, ' ''+'#.#./''#%(401''8#2\$0.-%2\$.-', #'#\$\$; (%&#%(' G''0''''%''#
2\$' ''#(' #(' ''#(G#./''#G(40#; '' ; (-01#) ''#0''#0''\$+-', #'#.#./''#%(401''8#0''\$.-', #1#''%.-(' # (G#\$#+-,-.\$*#
'' [/ -O.#0\$1''+#(' #G#% (; ; 4' -.5#; '' ; 0''0h1#1.(0-''18#\$' +#) 0-.-', #G#%(00''12(' +-', #2\$2''0#0(4.#./''#
20(%''11#(G#%0''\$.-', #./''#'[/ -O.?##

9\$%/#(401''#2\$0.-%2\$' .#) -**#, -6''#\$#20''1'''. \$.-(' #(' #(' ''#(G#./''#1''%(' +\$05#0''\$+-', 1#\$11-, ' ''+'#'#
./''#1''; -' \$0#\$' +#) -**#''\$+.#./''#%\$11#+-1%411-(' #(' #./''#.#0.-%*''?#F/'#20''1'''. \$.-(' #1/(4*+#\$1.#
\$220([-; \$.'*5#EX#; -' 4.'18#G(**) ''+#05#EX#; -' 4.'1#(G#+-1%411-(' #KG(0#\$. (. \$*(G#JD#; -' 4.'1M?#] ' #
./''#+\$5#(G#5(40#\$11-, ' ''+#20''1'''. \$.-(' 8#5(4#1/(4*+#20(6-+'#G#/\$' + (4.#. (#'\$%/#%\$11#; '' ; 0''0#
14; ; \$0-N-', #./''#; \$-' #2(-.1#(G#./''#0''\$+-', ?#

a(4#0''#[2''%.' +#. (#2\$0.-%2\$.' '#'#(' ''#(G#./''#G(40#; (%&#%(' G''0''''%''#2\$' ''1#(' #(' ''#(G#./''#
; '' ; (-01#) ''#0''#0''\$+-', #'#.#./''#%(401''#B.#./''#1.\$0.#(G#./''#%\$11#1''11-(' 8#./0''''#%\$11#; '' ; 0''01#) -**#
''\$%/#20''1'''. #G#EDY; -' 4.'#+-1%411-(' # (G#./''#O((&#G(**) ''+#05#G#% (; 0-' ''+#CDY

B1#\$' #(' , (-' , #20(' "%.#' #./-1#%(401"8#./"%"\$11#1#1#) / ("'#) -**24.#. (, " ./"0#\$#+- , -.\$*#[/-0-.#(' #
(%\$#1.(0-"1#(G#./"#"P*(%\$41.?#a(4#) -**#) (0&#(' 'Y(' Y(' "#) -./#\$#P*(%\$41.#1406-6(0#(0#./"#"
+"1%" + '\$.#(G#\$#P*(%\$41.#1406-6(0#.(#0"\$.\$"#2(0-(' #G#./"#" [/-0-#G(%41-' , #' #5(40#
% (; 4' -.5#2\$0.' "0h1#1.(05?#B1#G-0#1.#1."28#5(4#) -**0"% (; "#G\$; -*\$0#) -./#./"1"1#1.(0-"1#K05#
.\$*&' , #.(#5(40#% (; 4' -.5#2\$0.' "08#0"\$+-' , #." [1#./"5#/#6"#) 0-.."" 8#(0#) \$.%/-' , #6-+" (1#(G#./" ; #
12"\$&- , M#S' #G("*\$0(0\$.-(' #) -./#5(40#% (; 4' -.5#2\$0.' "08#5(4#) -**+."0 ; -' "#./"0"1.#) \$5#.(#
."*#./"1"1#1.(0-"1#'#'\$ #' (*-' "#" [/-0-8#"? , ?#) /\$.#1/(4*+0"#/- , /- , /." +8#) /\$.#+(%4 ; "" .1#(0#
- ; \$, "1#%(4*+0"1.#0"#' %*4+" +8#".%?#G#5(40#2\$0.' "0#5 , 0""18#5(4#*1(#/\$6"#./"#" (2-(' #G#
% (' +4%.-' , #5#1(%\$*5#+-1.\$' %"+#' . "06-") #./\$.#%(4*+0"#' %*4+" +#' #./"#" [/-0-?#Z-' \$*58#5(4#) -**
%0"\$.#./"#" [/-0-#1" *G#41-' , #5#2*\$G(0 ; #5\$*"+# ; "&\$?##

S' #5+-.-(' 8#5(4#50"#' [2"%." +#.(#) 0-."#\$#EDYEC#2\$, "%(00"12(' +-' , #2\$2"0#'\$ \$*5N-' , #./"#" /(-%"1#
./\$.#) "0"# ; \$+"#\$' +#./"#" ; " ./(+(' , -%\$*114"1#" "%(4' ."0"+#) /-""#) (0&- , #) -./#5(40#
% (; 4' -.5#2\$0.' "0#(' #0"\$.\$.-' , #./"#+- , -.\$*#[/-0-?#F/"#G-' \$*2\$2"0#1/(4*+0"#) 0-.."" #51#./ (4 , /#
-.#) "0"#.(#0"#' %*4+" +#' #5' #'+-." +#6(*4 ; "#(#./"#" (2-%#5' +#1/(4*+0"#' %*4+" +#\$#+-1%411-(' #G#\$.#
*"1.#G(40#(G#./"#"#0-."*1#(0#O((&#%/2."01#) "#+-1%411" +#' #./"#" (401"?"

F/"#"\$4' %/#(G#./"#" [/-0-#1#%400"" .5#1#/" +4*" +#G(0#./"#"6" -' , #G#F/401+\$58#B20-*EX8#CDD#
K\$./ (4 , /#./-1# ; - , /.#%/\$' , "#+"2" +-' , #' # (40#% (; 4' -.5#2\$0.' "01h#\$6\$-\$0\$-.5M#a(40#G-' \$*#
2\$2"0#1#+4"05# (' #L\$%-G-%#F- ; "M#(' #R (' +58#B20-*EH.?)?)=2##)+-+&\$(>?)-%3)+%0)4"/)%*0)
#%(-)%' '2@* . -*()(&/*-+)2*)%4(-/)(3-)/-A&2/(-+)&-+)%(-B)C"&' -)8/"D-\$(')=2##)*"(E-)%\$-8(-+)%4(-/
: 8/2#)F>G)FHFHB)
)

! 06973>%1468. %

L"\$1"0"0"0#.(#./"#"VW-%#C\$*"" +\$0#G(0#./"#"#(; 2""."# , 0\$+-' , #1#\$*"?#

! "\$#\$% ' %" (%) *# +%, -% . ("O*/1) &	2(3/%4%5%) *16&2.. /+) 5%)*&789%(* /4%.&
A	E cel ional Wo k Technicall fla le and o iginal o k demon a ing in igh nde anding and indel enden al lica ion o e en ion of co ee lec a ion of en bli hable

A



0"12(' 1-0*-.-'1#(G#./-1#%(401"#; \$5#'%*4+'#04.#\$0"# (.#0"1.0-%.'" +#. (1#41-' ,#""%0('-%#+''6-%"1#
\$220(20-\$.'"58#-1.'"-' ,#. (#1.4+''' .1#\$' +#./''#' 1.04%. (0#) -./ (4.#' ."0042.-' ,#./''; #(0#+-; -' -1/-' ,#
./"-0#2"01(' \$*0\$%&, 0(4' +#(0#'[2"0-''%'18#0"; \$-'-' ,#('#. (2-%#) /'' #' , \$, '' +#' #*\$11#+-1%411-(' 8#
\$' +#%(; ; 4'-%\$.-' ,#0"12"%G4**5#) -./#\$%/#(./"0#\$' +#5(40#' 1.04%. (0#-' #2"01(' #(0#-' #'Y; \$-1#(' #
. (2-%1#0**\$.'' +#. (#./''#%(401"?#

#

7.4+''' .1''' , \$, -' , #' #; -1%(' +4%.#(0#G\$-'' ,#.(#; ""#. /"-0#%(401"#0"12(' 1-0*-.-'1#%\$' #' [2''%.#\$\$
%(; ; 4'-%\$.-'(' #G0(; #./''#' 1.04%. (0#./\$.#(4.*-' "1#./''#%('%'0'-' ,#0"/\$6-(408#'[2*\$-' 1#/() #14%/#
0"/\$6-(40#1#+-1042.-' ,#./''#"\$0'-' ,#'' 6-0('; '' .8#\$' +#0": 4"1.1#./\$.#./''#1.4+''' .#0"GO\$-' #G0(; #
G40./"0#+-1042.-6"#0"/\$6-(40?#7/(4*+#14%/#' 1.\$' %"1#(G#; -1%(' +4%.#%(' .-' 4"8#./''#1.4+''' .#) -**#

7422(0.c(' ' "%.#A#R'' . \$*#P"\$\$. /#7422(0.?#B' 5.-; "?#B' 5) /"0"?##
7422(0.c(' ' "%.#1#\$#G0""8#%(' G-+"" .-\$*#; "" . \$*#/"\$\$. /#1422(0.#1"06-%"#G(0#VW-%#1.4+"" .1?#U" .#
%(' ' "%."+#) -./#: 4\$-G-" +#%(4' 1""*(018#%(' 14*.\$' .18#'\$' +#-G"#%(\$%/"1#\$' 5.-; "8#\$' 5) /"0"?#
B6\$-\$0""#Cdi\#05#2/(' "#\$' +#(' *' "?#W-+" (\$\$' +#' Y2"01(' #(2.-(' 1#\$0"#\$*1(\$6\$-\$0""?#a(4#%\$' #
0"\$\$/#(4.#G(0#\$' 5#0"\$1(' #Y#O-, #(0#1; \$**0#
7422(0.#c(' ' "%.#(GG"01#1/(0.Y."0; #1(*4.-(' #G(%41"+#%(4' 1""*- , #) -./#./"#1\$; "%(4' 1""*(0?#a(4#
\$' +#5(40#%(4' 1""*(0#) -**#) (0&#. (, " /"0#./0(4, /#\$#1".#(G#1"11-(' 1#.(#\$11-1.#5(4#-' #; (6-' , #
G(0) \$0+?#
" # \$!%#!&# ' ' ()%

=#>4 (' %2%# '!/#0!3+#0%.%04!2B3(') (3A!*(23(!' /#04!<#>0!7' 3%>)%#03!# /!<#>0!2B3(') (3!2' =!
<#>0!; #337B-(!=2%(!# /!0(%>0' !17!E' # '\$' 8!3#!%+2%\$ (!)2' ! \$ #0E!#? (%+ (0!#!E ((; !<#>0!-(20' 7' ?!# ' !
%02)EA!
!

Z(0#1-, ' -G-%\$' .#2"0-(+1#(G#\$01"" %"#(0#"" , ./5#"[. "" 1-(' 18#./"1"#2(*-%"1#; \$5#\$22*51#
7.4+"" .1#; \$5#\$1&#G(0#\$' #\$\$+"; -%#%(' %"11-(' 8#14#/#\$1#\$' #"[. "" 1-(' #G(0#\$' #11-, ' ; "" .8#42(' #
20(6-+-' , #20(2"0#+(%4; "" .\$.-(' # (G#\$2"01(' \$*(0#; "" +-%\$*\$GG*-%-(' # (0#(G#\$#.-; ""#%(' G*-%.?#L0(2"0#
+(%4; "" .\$.-(' #) (4'+# ' %*4+"#\$#+(%.(0#1# (' "#(0#\$#; "" ; (#G0(; #C(4' 1"-', #7"06-%"18#(0#\$#; "" ; (#
G0(; #\$(%(\$/#" ; 2*(5"0#(0#G\$4*.5#; "" ; 0"0?#.#; 41.#0"#+\$. "+#O"G(0"0#*(1"#. (#./"#. -; ""(G#./"#
; -11"+#) (0&#(0#%\$11"1?#
!

L7,-906O681%639%?.<.00681%

7.4+"" .1#) /(#; -11#; (0"#./'\$' #%+0((#%*\$11"1#G(0#+(%4; "" .'+#; "" +-%\$*(0#2"01(' \$*0"\$1(' 1#; \$5#
1.-**0"#1&" +#. (#22*5#G(0#\$E%\$1+%(-+)=2(3+/%=#%#96"" #) /"" #./"0"\$1(' 1#G(0#G\$-'; #. (#; "" .#
%(401"0": 4-0"; "" .1#\$0"#6\$*-+8#.#1# "-./"0#\$%\$+"; -%\$**5#1(4' +# (0#G\$-0#.(#./"01# ' #./"0#(401"0#
.(#\$**()) #1.4+"" .1#; -11-', #1-, ' -G-%\$' .#; (4' .1#(G#) (0&#.(#%(' .- 4"#' #./"0#(401"0#\$' +#0"%"-6"#
%0" +-.?###
7.4+"" .1#) /(#; -11#1401.\$' .-\$*\$; (4' .1#(G#%*\$11#\$' +#\$11-, ' ; "" .1#) -./ (4.#+(%4; "" .\$.-(' #) -**
0"#1&" +#. (#) -./+0\$) 8#\$1#./"5#) -**0"%"-6"# \$' #=#\$. /"#"' +#(G#./"1"; "1."0?#
7.4+"" .1#\$0"#.(#G\$; *-S0-N"#./"; 1"*6"1#) -./#./"0#) -./+0\$) \$*#+\$. "1# ' #./"0#\$%\$+"; -%#%\$*** +\$0?##
7.4+"" .1#; \$5#(' *5#\$22*5#G(0#\$#\$ '&' /'-)+-4-//%##-G#N#./"5#/\$6"1"0-(41#\$' +#+(%4; "" .'+#; "" +-%\$*
(0#2"01(' \$*0"\$1(' 1#G(0# (.#% (; 2** .-', #1(; ""(G#./"0#"' +Y(GY."0; #0": 4-0"; "" .1#\$' +#0N#./"5#/\$6"0#
\$*0"\$+5#% (; 2** .'+20\$%.-%\$**5#*\$#./"0#(401"0": 4-0"; "" .1#\$#./"0#.-; ""(G#./"0#\$22*-%\$.-(' ?#
#

S' #1-.4\$.-(' 1# ' #) /-%/#\$1.4+"" .#%\$ ' (.#% (; 2** ."#./"0#(401"0": 4-0"; "" .1#\$' +##+ "G"00\$*#1# (.#
\$6-\$0"*(2.-(' 8#/"#(0#1/"#; 41.#/\$6"0#% (; 2** .'+#bDj # (G#./"0#(401"0": 4-0"; "" .1#G(0#\$' #: Q;)
N%-@/"%(N#, 0\$+"#. (#0"#11-, ' "+?#
#

(%N*, .% 3%(469. =74%23, .>07,H%639%I 86>76071=%
a(4#; 41.#' G(0; #5(401"0#G\$0(4.#./"4' -6"01-.5#0", 4*\$.-(' 1#1"1"#"#./"0#VW-%#L(*-%5#(' #B#\$+"; -%#
S' .", 0-.5# ' #./"0#V' -6"01-.5#C\$*** +\$0M#7.4+"" .1#\$0"0": 4-0"+#.(#\$0-+"#05#\$**#\$%\$+"; -%#0", 4*\$.-(' 1#
1"#\$1#1" #.(4.#' #./"0#V' -6"01-.5#%\$*** +\$08# ' %*4+-', #1.\$' +\$0+1#(G#\$%\$+"; -%# ' .", 0-.5#?#N-(*\$.-(' 1#(G#
\$%\$+"; -%# ' .", 0-.5#K"? ,?#%/"\$.-', # \$' +#2*\$, -\$0-1; N#\$0"0#(' 1+"0"+#1"0-(41#\$' +#; \$5#0"14*.#' #
1-, ' -G-%\$' .#2"" \$*.-"1?##
#

G36+,-*07P.9%G1.%* <%63%097,*0%
B' #' +. (0#1#\$' #' +6-+4*\$*(0#1"06-%"8#(./"0#./'\$' #./"0# ' 1.04%. (0#(0#142"06-1(05#% (; -..""8#) / (#
; \$' -24*\$."18#0"6-1"18#(00"% .1#(0#\$*."01#\$1.4+"" .h1#) 0-.. "" # (0# (' Y) 0-.. "" #) (0&?#F/"#41"0#(G#\$' #
"+. (0#) /" ./"0#2\$-+#(0#4' 2\$-+8#-1#20(/-0-." +#4' ""11#./"0# ' 1.04%. (0#, 0\$' .1#'[2*-%.#) 0-.. "" #
\$4./ (0-N\$.-(' ?#G#5(4#/\$6"0#; 4"1.-(' 18#2**\$1"#\$1&0#F/"#; \$- #20-' %2**I#+ (#5(40#(' #) (0&#
\$%\$(0+-', #./"0#; 4-+""-' "18#\$' +#\$**#) -**0"0#) ""*?#
#

)

