



!"#\$%&'()*%\$&*+,!

!

"#\$%&'()*&*(#' +!+*&\$*(' %!* , (+!-#. \$' /01!

!"#\$%&'()*#&8*0%#(6#480#(0)#&#(2)&2:34#8)49&#%#0%#(i#p#*#)#%*(46:20'5)#(#\$%&*#%*4.('6.0%(7#08,(#08,*#.#,9.(\$#/*20'2.7#08'2.7#.#)#,&2.0%(-#)'9,(+'(+#.#)9/'-2.0%(+#0#2%(+),'#:#,%*#.#.#)8'-,#)%'(4#%#(/#.'*0'2&-*7#(,)-1(")2%3(#)4(2')6(#(.))1(-)6(#)6(%32')6

,/,+,(0.0%(7#5,(#"#\$%&*#(0,(0%#(+#0#)#%#&+0#08,#%//%+0,4#

#>8,#"-;:'(4#?&,+0%(+9.\$#8,-/#\$%'(@#08*%&48#%\$&*#A/,20.0%(+7#%\$&*#(0,(0%#(7#.#)08,#9/.20#%"#\$%&*#28%'2,+7#.#)0%#08'(@#+\$+0,9'2.--#8%;#08,+,#.#,%*%#0,)#(#.#.*4,*#%2'.#.#)8'+0%*'2.#2%(0,A0#B,#"',"#:#%08#4,(.#.#4&)'(4#?&,+0%(+'%*#*,"-20%#.#)8'+2&++'(7#.#;,-#.#+%/'(0#0#%+9,#1*,)#'-4+3#08.0#2%99%(-\$9,9,*#(#08,#2%(0,A0#%#08,+,#(4.4,9,(0+#.#)8'28#;.**(0#/.&+,#.#)8'&*08,*#2%(+),'#.#0%#:#,%*#/#&*+&'(4#,""0*0+#0#%'(2-&),#(C)'4,(%&+%/,%/,-,+#.#)8'/,*+/,20'5,+4#

#2,&*!3#!0#.!/45/6*!*,/!/'3(%/'#. +!5/\$+5/6*(8/!#!3#!9# \$!0#. :!;('*/%\$(*0<!

>8'(@#:#%&0#;8\$#.#,%\$%%9/,-,)#0#%+,#@.#(1C)'4,(%&+%/,*+/,20'5,#(#08,#"'+0#/-2,7#.#)8;8.0#.#+&9/0%#(+#.#)8'(5,+09,(0+#\$%&*#A/,20.0%#(+#.#,%*%#0,)#(#>8,+,#A/,20.0%#(+#;'-#+'4("2.0-\$#8./,/#;8.0#%\$&#.#:#.-,#0#%8.#*7#.#)8(%#08.#*7#.#)8#,#(+,#\$%	.#,%#";8.0#%\$&#)#8,.*4>8,\$#9'480#5,(#8./,/#;8%#%\$&#(5'0,#0#%/,*+,(0#08,'*#/,*+/,20'5,+7#.#)8#;#%\$*,.0,#+/.2,#%#08,'*#/*,+,(2,4#

C#%\$&#&#.#(0#0#)#,/,(#\$%&*#&C),*+0.(C)'(4#%"#2%-('.-'+97#.#*(#:#%&0D"*%9D;'08#%08,*#@(%;-),4,#+\$+0,9+7#%*#.2@(%;-),4,#%*#*480#/.+0#;*(4+E#F#*/,*8./+#\$%&#.#,%9%0'5.0,)#:#\$+9,#%#08,#1*,)#'-43#*.*+%(+'%*#(4.4,9,(0#9.#@'(4#.#:#,(5%-(0#4,+0&*#,#,@'(4#*#),9/0%(7#%*4'5,(,++7#%*4*.0'0&),#%*%9#08,#(C)'4,(%&+%/,*+%(H#4,(.#.0'(4#.#-:'0#%#)*.:#&/%#;8,(#\$%&*#%*4.('6.0%#(2%9,+&C),*#2*0'?&,#%#%2%-('.#.20%#(+#.#."""9'(4#\$%&*#'(C)2,(2,7#5*0&7#%2'.-#%*9.0,*#.-2./0.7#%#2*),':-'0\$#.#.#14%)#.-#JH#, (8.(2'(4#\$%&*#KL#.#)8:#,2%9'(4#9%*,#9/-%\$.:-,H#,2&*'(4#&C)'(4#%*#9/-%\$9,(0#0.:'-0\$<#>8,+,#*#.#+%(+#%*#(4.4,9,(0#.#,#'@,-\$#0#*,2*,.0,#*.08,*#08.(#(0,**&/0#2%-('.#/.00,*(+#%*#,-.0%#(+#'/<#B8.0#%\$&#;.(07#8%/7#.#)8,A/,20#%*9#08,#A/,*(2,99.\$#:#,9/%+'(4#/*%#20%#(+#(#08,#/,*+%(M+N#%\$%+,#0#%#(5'0,7#.#)89.\$#.-#%#:#,9'0'(4#%08,*7#4,(.#.0'5,#/%+':-'0',+H%*#(4.4,9,(0#:#@,,'(4#\$%&#%*9#(5'0'(4#%08,*#/,*+/,20'5,+4#

#F(2,#\$%.5,#08%&480#:#%&0#08,#A/,20.0%#(+#08.0#.#)*'5'(4#.#)8./'(4#\$%&*#(5'0.0%#(7#08,(#\$%	'480#2%(+),'#8%;#\$%&#;%&-)*#,%/(#"\$%&#;*,#.#A/#+,)#0#%#(C)'4,(%&+%/,*+/,20'5,+#08.0#)#(%#0#9,0#%\$&*#A/,20.0%#(+#.#)8'/*%#20%#(+#B8.0#%#%+0#(#+,-,20'5,-\$#, (4.4'(4#(C)'4,(%&+%/,*+/,20'5,+#08.0#;'-#(%#028.--,(4,#\$%&*#A/,20.0%#(+#B8.0#9'480#:#,4.'(,)#%*%9#%#+,(4#\$%&*#A/,20.0%#(+#.#)8'/,(4#&/#0#%#08,*#/%+':-'0',+E#B8.0#.#,808,#'+@+#0#08,#(5'0,)#(C)'4,(%&+%/,%/,-,(5#-5,)#(#!'"#\$%#08,+,#+2,(.*%+E#B8.0#

+0*. 0, 4', +#)%\$%. 5, #'%*#(%0'2'(4#. ()#' (0, **&/0'(4#\$%&*#/*%=, 20'%(+#; 8, (#08, \$#, 9, *4, E#
O%; #2. (#\$%�*\$#0%#, (+&*, #08. 0#08'+#0*. 0, 4\$#)% , +#(%0#2*, . 0, #.))'0'%. (#. &*), (+#'%'#
!() '4, (%&+#/ , %/-, E

+&+0.'(,)#, ""*07#. ()#2*0'2. #4, (, *%+'0\$#0%; .*)#%(, +, -"#. ()#%08, *+<#"#\$%&#), 2'), #08. 0#08'+#' +
.#/'**'0\$#%*#%#%*#%*4. ('6. 0%'(7#08, (#2%(+), *#08, #%-%; '(4#?&, +0'%(+G#B8. 0#/' . 20'2, +#%"#
, (4. 4, 9, (0#9'480#, (. : -, #*, -. 0'%(+8' / +#0%#: , #9. '(0. '(,)#, 5, (#(#9%9, (0+#%"#2%("-'20E#
B8. 0#+0*, (408+#. *, #/'*, +, (0#X#%*#+0'--#(, ,)#0%#: , #2&-0'5. 0.)#X#'(#08, #%*4. ('6. 0%'(#08. 0#2. (#
, (. : -, #)""'2&-07#*, -. 0'%. -#, %*#@#0%#8. //, (#. ()#: , #+8. *,)#. 2*%++#9&-0' / -, #/ , %/ -, E#!"#%\$&
8, . *#+%9, 08'(4#08. 0#0*44, *+#\$%&#%*#9. @, +#\$%&#& / +, 07#; 8. 0#+0*. 0, 4', +#. ()#4*%& / #)\$ (. 9'2+#
9'480#8, - / #4*%& ()#\$%&#%#08. 0#\$%. (#*, 0&* (#0%#. #9%*, #4, (, *. 0'5, #+ / . 2, 7#. ()#8%; #2. (#\$%&#
, (+&*, #08, +, #+0*. 0, 4', +#)% (J0#*, - \$#% (#! ()'4, (%&+ # / , %/ -, +J#, 9%0'%. (-. : %&*E#B8. 0#@' ()+P%"#
8&9. (#. ()#'' (2'. -#*, +%&*2, +# +#\$%&*#%*4. ('6. 0%'(#; '- '(4#. ()#. : -, #0%#), 5%0, #0%#08'+#; %*@E#
S*, #\$\$\$&#, A / , 20'(4#99,)'. 0, 7#2-, . *#*, +&-0+7#. ()#''#+%7#; 8. 0#. *, #08, # / %0, (0'. # / '0". --+P%"#08'+#
, A / , 20. 0'%. (7#. ()#8%; #9'480#\$\$\$&#'' . 9, #08'+#, (4. 4, 9, (0#)"" , *, (0-\$E#0%; #2. (#\$%&# / *, / . *, #
\$%&*+, -"#. ()#\$%&*#%*4. ('6. 0%'(#%*#08, #''&+0*. 0'%. (+7#. (A', 0', +7#. ()#9'+0. @, +#08. 0#; '-#
'(, 5'0. : -\$#. *'+, # (#08, # / *%2, ++#%"#0*, (408, ('(4#(P! ()'4, (%&+#. ()#! ()'4, (%&+
, (4. 4, 9, (0+E#
#

B\$/!0#. !#\$%&' ()(' %!* , /!>#%(+*(6&>!3(@ / ' +(#' +!#9!0#. \$!7' 3(% / ' #. +!
/ ' %&% / @ / ' *+! ? (*, !6# ' +(3 / \$&* (#' !#9!3(99 / \$ / ' *!+ / ' +(A(>*(/ +: ; / *, (6&>!, #+*(' %<!
F*4. ('6. 0'%. (+##, @'(4#0%#, (. 20#9%*, #, 08'2. -#, (4. 4, 9, (0+#; '08#! ()'4, (%&+ # / , %/ -, #. --+%#(, ,)#
0%#0. @, #. 22%&(0#%'#5, *\$# / *. 20'2. -#2%(+'), *. 0'%. (+# (#; . \$+ #08. 0#. (0'2' / . 0, #08, # (, ,)+#. ()#

)'''' , * , (0# , A/ , *' , (2 , +#08 . (#08%+ , # ; 8%# . * , #* , .)# . +#5'+ : - \$# . 2' . - '6 ,)H#! ()'4 , (%&+ # / , % / - , + # ; 8%# 2% 9 , #''*% 9# 9') - , P2 . + + # . 9' - , + # 8 . 5 , #)'''' , * , (0# , A/ , *' , (2 , +#08 . (#08%+ , # ; 8%# 2% 9 , #''*% 9# % ; P '(2% 9 , # . 9' - , +H#! ()'4 , (%&+ # / , % / - , + # ; 8%# 4* , ; # & / # + / , . @' (4#08 , '*# . (4& . 4 , # . ()D% * # 8 . 5' (4# . 22 , + + # 0% # 08 , '*# 2 , * , 9% (' , + # 8 . 5 , #)'''' , * , (0# , A/ , *' , (2 , +#08 . (#08%+ , # ; 8%#))# (% 0H# . () # ! ()'4 , (%&+ # / , % / - , + # ; 8%# 4* , ; # & / # ; '08#08 , '*# ! ()'4 , (%&+ # . 9' - \$ # 9 , 9 : , * + # 8 . 5 , #)'''' , * , (0# , A/ , *' , (2 , +#08 . (#08%+ , # ; 8%# 4* , ; # & / # (# (% (P ! ()'4 , (%&+ # .) % / 0'5 , # . 9' - , + 7# % * # (# . 9' - , + # ; 8 , * , # ! ()'4 , (%&+ # 8 , * 0 . 4 , # ; . + # 9' ('9'6 ,) # % * # 8')) , (# % * # (- \$ # !)' + 2% 5 , * ,)J# % * # , 5 , . - ,)# . 0 , * # (# 08 , # / , * + % (J + # ' ' , < # #

Y% (, # % " # 08 , + , # ()'5') & . - + # + # 9% * , # % * # , + + # ! ()'4 , (%&+ # 08 . (# 08 , # % 08 , * + 7# : & 0# . 0# 08 , # . 9 , # 0'9 , 7# 08 , '*# , A/ , *' , (2 , + # % # ! ()'4 , (, '0\$ # 2 . ((% 0# : , # 2% - . / + ,) < # Z , 07# (# 9 . (\$ # 2 . + , + # (% (P ! ()'4 , (%&+ # % * 4 . ('6 . 0' % (+ # . ' # 0% * # , 2% 4 ('6 , # 08' + # 2% 9 / - , A'0\$ 7# / * # , , - # & (, ? & ' / / ,) # 0% # , (4 . 4 , # ; '08# 07# . () # 08 & + # 08 , \$ # (+ 0 , .) # ('5'0 , # . () # , A/ , 20# . # + (4 - , # ! ()'4 , (%&+ # / , * + % (# 0% # + / , . @ # (# 0% # (- \$ # " % * # 08 , '*# , (0' * , # : . () 7# 0' : , 7# % * # (. 0' % (7# : & 0# . - + % # " % * # 08 , # , (0' * , 0\$ # % " # ! ()'4 , (%&+ # / , % / - , + < # 8' + # . // * % . 28# (% 0% # (- \$ # - . 00 , (+ # 08 , #)'5 , * + '0\$ # . () # 2% 9 / - , A'0\$ # % " # . - # ! ()'4 , (%&+ # / , % / - , 7# 0# . - + # 0 , () + # 0% # * , / * %) & 2 , # + , - , 20'5 , 7# (+ 0 * & 9 , (0 . - '6 ,) # , (4 . 4 , 9 , (0 + # ; '08# ! ()'4 , (%&+ # / , * + / , 20'5 , + # ! (# / . * 0'2 & - . * 7# % * 4 . ('6 . 0' % (+ # 9'4 80# 0 , () # 0% # , '08 , * # , (4 . 4 , # / * '9 . *' - \$ # [N # ! ()'4 , (%&+ # / , % / - , # ; 8% + , # . // , . * . (2 , # . () D% * # + , (+ : ' - '0\$ # . - '4 (# 9% * , # 2% + , - \$ # ; '08# ; 8'0 , # 9') - , # 2 . + + # (% * 9 + H# % * 7# 2% (5 , * + , - \$ 7# V N # ! ()'4 , (%&+ # / , % / - , # ; 8% + , # . // , . * . (2 , # . () D% * # + , (+ : ' - '0\$ # . - '4 (# 9% * , # 2% + , - \$ # ; '08# 08 , # + 0 , * , % 0\$ / '2 . - # 9 . 4 , # % " # . (# ! ()'4 , (%&+ # / , * + % (# ! (# 08 , # " * + 0 # + , 0 # % " # , (4 . 4 , 9 , (0 + 7# 08 , * , # 9 . \$ # : , # . (# , A/ , 20 . 0' % (# 08 . 0# + # (% 0# . - ; . \$ + # 9 , 0N# 08 . 0# 08 , + , # ()'5') & . - + # ; ' - # : , # , + + # '@ , - \$ # 0% # 28 . - , (4 , # 08 , # % * 4 . ('6 . 0' % (# . () #)' + * & / 0# 0 + # : & + ' (, + + # . + # & + & . < # ! (# % 08 , * # ; % *) + 7# % * 4 . ('6 . 0' % (+ # 9 . \$ # : , # 9% * , # 2% 9 " % * 0 . : - , # , (4 . 4' (4# ! ()'4 , (%&+ # / , % / - , # ; 8% # 08 , \$ # / , * 2 , '5 , # 0% # + '9' - . * # 0% # 08 , 9 + , - 5 , + # ! (# 08 , # + , 2% () # + , 0 # % " # , (4 . 4 , 9 , (0 + 7# 08 , * , # 9 . \$ # : , # . # , 0' + 8'6 . 0' % (# % " # 08 , # ()'5') & . - # . () # . # / * % = , 20' % (# % " # , A/ , 20 . 0' % (+ # 08 . 0# 08 , \$ # ; ' - # : , # + / * '0 & . - 7# ; ' + , 7# . () # , 2% - % 4'2 . -- # 2% (+ 2' % & + #