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 $<sup>&</sup>gt;?*+3\&, -3"\&@-3\&="7".(9"=\&58\&/<!&A"\%"..B\&4252\%\#\&6\#+7"\%3+\$8\&\&BE(,*3\$"+\#B\&6\#+7"\%3+\$8\&('\&4.-5-F-C\&-\#=\&G+\#=-\&A"\%"..B\&4252\%\#\&6\#+7"\%3+\$8\&H\&IJII&\&\&\&@-3\&9\%"9-\%"=\&'(\%\&,.-33\%((F\&=+3,233+(\#\&\%-\$*"\%\&\$*-\#\&\$(\&+...23\$\%-\$"\&*"\%\*"\*",\$+7"\&(\%\&+\#"''",\$+7"\&*-\#=.+\#0\&('\&-\#\&-F+\#+3\%-\$+7"B\&"\$*+,-.B\&(\%\&."0-.\&=",+3+(\#\&58\&F-\#-0"F"\#\&4..\&3(2\%,"3\&23"=\&'(\%\&\$*+3\&,-3"\&@"\\"\&(5\$-\#-\#"=\&\$\%)(20*\&925.+,.8\&-7-+.-5."\&F-\$"\%+-.&$ 

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## H-+.D%,'-.%&)E#-D+0,3

"#\$%&'()#!/#''/!5\$-0+3,/!)-\$!F#(12,!4&.&1#4#.,?!.+,\$(,(-.?!#.#\$16?!)(,.#//?!&.0!5#\$/-.&'!3&\$#!,2&,! /+55-\$,!&!2#&',26!'()#/,6'#:!E2#!F#(12,!4&.&1#4#.,!'(.#!3-./(/,/!-)!Z-\$4+'&!=!5\$-,#(.!/2&H#/?! /+55'#4#.,/?!F#(12,!'-//!#.2&.3#\$/?!5\$-,#(.!%&\$/?!&.0!/.&3H/?!&''!/#\$7(.1!,2#!5+\$5-/#!-)!2#'5(.1!  $3+/, -4 \# /!, -! \&, \& (.!, 2 \# (\$! F \# (12,!1-\&'/:!Z-\$! (./, \&.3 \# ?!, 2 \# !N \# \$/-. \&' (\ \# 0!N\$-, \# (.!N-F0 \# \$! \&.0!, 2 \# !N \# \$/-. \&'))$ N\$-,#(.!T\$(.H!R(K!-))#\$(.1/!5\$-7(0#!&.!&',#\$.&,(7#!,-!,\$&0(,(-.&'!4#&'/!F2('#!/+55'6(.1!#.#\$16!&.0! 3+\$%(.1!2+.1#\$!3\$&7(.1/?!F2#,2#\$!3-./+4#\$/!F&.,!,-!'-/#!-\$!4&(.,&(.!,2#(\$!F#(12,!-\$!%+('0!4+/3'#! 4 &//:!E&\$1#,#0!.+,\$(,(-.!5\$-0+3,/!(.3'+0#!0(#,&\$6!&.0!.+,\$(,(-.&'!/+55'#4#.,/!,2&,13-.,&(.!2#\$%/?! 7(,&4(./?!4(.#\$&'/?!&.0!-,2#\$!.&,+\$&'!(.1\$#0(#.,/!,-!/,\$#.1,2#.!/5#3()(3!&\$#&/!-)!,2#!%-06!,2&,!,#.0!.-!%#!5\$-%'#4&.(3!)-\$!4&.6!5#-5'#:!Z-\$!#K&45'#?!E\$(IO2(#'0!2#'5/!,2#!2#&\$,!/.&6!2#&',26!%6! 4 & (., & (.(.1!1 - 0!32 - '#/, #\$ - '!'#7#'/!&.0!5\$ - 7(0(.1!&., (-K(0&., /?!&.0!c3 + '&\$!T#)#./#!Z - \$4 + '&!&.0!)))))X-(.,!0+55-\$,!M07&.3#0!-))#\$!.+,\$(,(-.&'!&(0!)-\$!,2#!#6#/!&.0!J-(.,/!-)!&1(.1!&0+',/:!E2#!#.#\$16!&.0! )(..#/!5\$-0+3,!-5,(-../!&\$#!0#/(1.#0!)-\$!,2-/#!#.1&1#0!(.!/5-\$,/!&.0!)(,.#//!&3,(7(,(#/:!Q+/,-4#\$/! 3&.!32--/#!)\$-4!0\$(.H!4(KI(./!/+32!&/!,2#!" c!Z(,.#//!T\$(.H!!F2(32!#.2&.3#/!3'&\$(,6!&.0! \$#260\$&,#/!,2#!%-06?!-\$!+,('(\#!/+55'#4#.,/!/+32!&/!\*IVIj!A\*&,+\$#6/!V&F!j+&\$&.&!E&%'#,/D?!F2(32! &'/-!5\$-4-,#!4#.,&'!3'&\$(,6:!"#\$%&'()#G/!5#\$/-.&'!3&\$#!5\$-0+3,/!(.3'+0#!/H(.!3'#&./#\$/?! 4-(/,+\$(\\#\\$/?!'-,(-./?!/2\&45--/?!\&.0!3-.0(,(-.\#\\$/:!;.!,2(/!5\\$-0+3,!'(.\#?!\"\#\\$\\&'()\#!-))\#\\$/!5\\$-1\\$\&4! /#,/!3&''#0!" #\$%&'()#!O^; \* ?!3-.,&(.(.1!1\$-+5/!-)!3'#&./#\$/?!4-(/,+\$(\#\$/?!&.0!3\$#&4/!3+/,-4(\#0! )-\$!0())#\$#.,!,65#/!-)!/H(.?!)\$-4!0\$6!,-!-('6:!c7#\$&''?!"#\$%&'()#!)-''-F/!&!/,\$&,#16!-)!5\$-0+3(.1! 2(12IP+&'(,6!5\$-0+3,/!,2&,!#.2&.3#!3+/,-4#\$!2#&',2!&.0!F#''I%#(.1:!)

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5\$-0+3,!&.0!F&.,!,-!5\$-4-,#!,2#!3-45&.6:!c,2#\$/!F&.,!,-!\$#3#(7#!&!0(/3-+.,!-.!,2#(\$!5#\$/-.&'!

-\$0#\$/?!&!3-44-.!%#.#)(,!-)!%#(.1!&!0(\$#3,!/#''#\$:!R&.6!)(.0!F-\$H(.1!&/!&!0(\$#3,!/#''#\$!,-!%#!&!

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+5!'#7#'/!%6!&32(#7(.1!3#\$,&(.!/&'#/!1-&'/D:!Q-.,\$&3,-\$/!3&.!/#''!5\$-0+3,/!&,!&.6!5\$(3#!,2#6!/#,!&.0!

4&H#!0#3(/(-./!-.!2-F!,2#6!F&.,!,-!5-/(,(-.!&.0!/#''!,2#!"#\$%&'()#!5\$-0+3,/!AF(,2(.!'#1&'!&.0!

3-45&.6!1+(0#'(.#/D:!E2#!4-\$#!/+33#//)+'!&.!"#\$%&'()#!/#''#\$?!,2#!1\$#&,#\$!,2#!0(/3-+.,/!&.0!

; .!,2#!#7# . ,!,2&,!&!3 - . ,\$&3,-\$! . -!' - . 1#\$!F& . ,/!,-!/#''! " #\$%&'()#!5\$-0+3,/?!,2#!3 - 45& .6!F(''! %+6!%&3H!& .6!\$#4&( .( . 1!( . 7# . ,-\$6! -)!,2#!/#''#\$:!; .!)&3,?! " #\$%&'()#!1 - #/!%#6 - .0!,2#!T(\$#3,!O#''( . 1! M//-3(&,(- . G/!#,2(3&'!1+(O#'( . #/!)-\$!%+6( . 1!%&3H!5\$-0+3,/!%6!\$#( 4 %+\$/( . 1!,2#!O(/,\$(%+,-\$!)-\$! #7#\$6,2( . 1!2#!-\$!/2#!( . (,(&''6!5+\$32&/#O!A=99!5#\$3# . .!%+6%&3H!5 - '(36D:!E2#!3 - 45& .6!&'/-!'( 4 (,/!,2#!

&4 -+.,!-)!(.7#.,-\$6!&!/#''#\$!3&.!(.(,(&''6!5+\$32&/#:!"#\$%&'()#6]!4#4%#\$/2(5!/,\$+3,+\$#!(/!0#/(1.#0!,-!3'#&\$'6!0())#\$#.,(&,#!,2#(\$!'#1(,(4&,#!4+',('#7#'!4&\$H#,(.1!4-0#'!)\$-4!)\$&+0+'#.,!/32#4#/:!

E2#!"#\$%&'()#!%+/(.#//!4-0#'!2&/!/+33##0#0!0+#!,-!,2#!3-45&.66/!5\$-0+3,/!&.0!/+55-\$,:!

R-/,!"#\$%&'()#!0(/,\$(%+,-\$/!0-!.-,!2&7#!&!526/(3&'!/,-\$#!'-3&,(-.?!&/!,2#6!5\$&3,(3#!0(\$#3,!/#''(.1!))\$-4!2-4#:!"-F#7#\$?!,2#\$#!&\$#!/,\$(3,!3-45&.6!5-'(3(#/!&.0!'#1&'!\$#P+(\$#4#.,/!,2&,!\$#1+'&,#!)\$\$-0+3,!(.)-\$4&,(-.?!/&'#/!,#32.(P+#/?!&07#\$,(/(.1?!'#&0!1#.#\$&,(-.?!/-3(&'!4#0(&?!&.0!\$#'&,#0!))\$\$(//+#/:!"#\$%&'()#!&'/-!3\$#&,#0!&!3#.,\$&'(\#0!#13-44#\$3#!/#3,(-.!)-\$!3-.,\$&3,-\$/!-.!(,/!j-"#\$%&'()#!F#%/(,#!,2&,!&'/-!3-.,\$-'/!%\$&.0(.1!&.0!5\$-0+3,!3'&(4/:!T(/,\$(%+,-\$/!#&32!2&7#!,2#(\$!-F.!5&1#!-.!,2#!5'&,)-\$4?!F2(32!,2#6!3&.!+/#!,-!&,,\$&3,!3+/,-4#\$/:!Q+/,-4#\$/!&\$#!-.'6!\$&.0-4'6!3-..#3,#0!

/#''#\$/!&\$#!(.0#5#.0#.,?!6#,!&\$#!\$#P+(\$#0!,-!\$#5\$#/#.,!"#\$%&'()#!,2\$-+12!#,2(3&'!%+/(.#//!5\$&3,(3#/:!

# ! "#\$%&'(")?+3,-F"#)C%3")

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\*(#'/#.?!&!1'-%&'!(.)-\$4&,(-.!&.0!4#&/+\$#4#.,!3-45&.6?!/&45'#0!=9?d<d!3-./+4#\$/!&.0!

(.0(3&,#0!,2&,!`:`!5#\$3#.,!-)!,2#!1#.#\$&'!b:O:!5-5+'&,(-.!4&0#!&.!"#\$%&'()#!5+\$32&/#!/-4#,(4#!

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"#\$%&'()#!2&/!5+%'(/2#0!\$#/+',/!/2-F(.1!,2&,!,2#!4&J-\$(,6!-)!(,/!5\$-)(,!(/!4&0#!,2\$-+12!5\$-0+3,!

/&'#/?!M3H4&.!%#'(#7#0!,2(/!(.)-\$4&,(-.!,-!%#!)&'/#!&.0!4(/'#&0(.1?!&/!2#!#/,(4&,#0!/&'#/!,-!%#!

-.'6!`!5#\$3#.,!-)! "#\$%&'()#G/!\$#7#.+#?!F(,2!,2#!\$#/,!4&0#!7(&!\$#3\$+(,(.1:!;.!\$#&'(,6?!"#\$%&'()#!0-#/!

.-,!32&\$1#!&!)##!)-\$!%#3-4(.1!&.!(.0#5#.0#.,!3-.,\$&3,-\$!&.0!#&\$./!(,/!5\$-)(,/!)\$-4!/#''(.1!

"#\$%&'()#!2&/!&'/-!%##.!&33+/#0!-)!(//+(.1!)&'/#!&33-+.,(.1!/,&,#4#.,/?!&',2-+12!,2#\$#!2&/!
.#7#\$!%##.!&.6!-))(3(&'!'#1&'!3'&(4!%\$-+12,!&%-+,!(,/!&33-+.,(.1!\$#3-\$0/:!M33-\$0(.1!,-!&''#1&,(-./?!
&''!5\$-0+3,/!/-'0!,-!3-.,\$&3,-\$/!&\$#!/2-F.!&/!\$#,&('!/&'#/?!F(,2-+,!,\$&3H(.1!F2#,2#\$!,2#!3-.,\$&3,-\$!
3-./+4#/!,2#!5\$-0+3,/!\(\)(.,#\$.&'!3-./+45,(-.0!-\$!,-!F2-4!,2#!3-.,\$\&3,-\$!/-'0!,2#!5\$-0+3,/:!Q\$(,(3/!%#'(#7#!,2#!3-45&.6!/2-+'0!.-,!\$#3-\$0!/&'#/!\$#7#.+#!)-\$!(.,#\$.&'!3-./+45,(-.!\)(-.!\)(-.!\)(-.!\)(-.!\)(-.!\)(-.!\)(-..\

M3H4 & .6/!&''#1&,(- ./!'&+ .32#0!& .!+ .5\$#3#0# .,#0!/,-\$4!-)!3- .,\$-7#\$/6!)-\$! "#\$%&'()#:!Z-+\$!

0&6/!&),#\$!M3H4 & .6/!(.(,(&'!5\$#/# .,&,(- .?!,2#!3-45& .66/!/,-3H!)#''!8`!5#\$3# .,:!M3H4 & .!'&+ .32#0!&!

F#''I)(. & .3#0!4 &//!4#0(&!& .0!5+%'(3(,6!3&45&(1 .!& .0!# .1&1#0!(.!5-'(,(3&'!'-%%6(.1!,-!0\$(7#!0-F .!
,2#!5\$(3#!-)!,2#!/,-3H:!E2#!0#%&,#!-7#\$!,2#!3-45& .6!%#3&4#!5-'&\$(\#0?!F(,2!5\$-4(.# .,!(.7#/,-\$/?!
& .&'6/,/?!5+%'(3!(.,#\$#/,!1\$-+5/?!& .0!'-6&'(/,/!5\$#/# .,(.1!2#&,#0!&\$1+4# .,/!%-,2!)-\$!& .0!&1&(./,!

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3-45&.66/!2(/,-\$6!,-!%-'/,#\$!&.0!/,\$#.1,2#.!,2#! "#\$%&'()#!%\$&.0:!c7#\$!,2#!'#.1,2!-)!,2#!0(/5+,#?!

%-,2!M3H4&.!&.0! "#\$%&'()#!/5#.,!4+',(5'#!4(''(-./!-)!0-''&\$/!/+55-\$,(.1!,2#(\$!5-/(,(-./!&.0!,4.\*))#.4.\*)\*\*

&,,&3H(.1!#&32!-,2#\$:!E2#!4#0(&!/2-F3&/#0!,2#!M3H4&.!&.0! "#\$%&'()#!3-.)'(3,:!

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\*#7#\$,2#'#//?!,2#!/#,,'#4#.,!0(0!\$#/+',!(.!4&J-\$!32&.1#/!)-\$!"#\$%&'()#:!E2#!ZEQ!4&.0&,#0!
&!\$#/,\$+3,+\$(.1!-)!"#\$%&'()#6/!%+/(.#//!5\$&3,(3#/?!&))#3,(.1!2-F!,2#!3-45&.6!\$#5-\$,/!/&'#/!-)!

4#4%#\$/!A3-./+4#\$/D!&.0!(.0#5#.0#.,!3-.,\$&3,-\$/!/#''(.1!,-!\$#,&('!3-./+4#\$/:!Q2&.1#/!F#\$#!

4&0#!,-!,2#!'#7#'!-)!(.7-'7#4#.,!5&\$,(3(5&.,/!F#\$#!&''-F#0!,-!2&7#!(.!/#''(.1!5\$-0+3,/:!M.!&/5#3,!
-)!,2#!/#,,'#4#.,!(/!&!4&.0&,#!,2&,!"#\$%&'()#!4+/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4&,#!
#.0I+/#\$!5+\$32&/#/!,-!4&(.,&(.!(,/!0(/,\$(%+,-\$!3-45#./&,(-.!5\$-1\$&4:!;.!&00(,(-.?!"#\$%&'()#!4+/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4&,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!0#\$(7#!>9!5#\$3#.,!-)!/&'#/!)\$-4!'#1(,(4,#!4-/,!1-\$!5+\$32&/(.1!526/(3&'!%+/(.#//!'-3&,(-./!,-!/#''!"#\$%&'()#!4-/,!1-\$!5+\$32&/(.1!526/(3&'!%+/(.#//!'-3&,(-./!,-!/#''!"#\$%&'()#!5\$-0+3,/!+...('!,2#6!2&7#!3-45",#0!&!6#&\$!&/!&!0(/,\$(%+,-\$!&.0!3-45"#,#0!&!%+/(.#//!,\$&(.(.1!

O5#3()(3&''6?!/-3(#,&'!4#1&,\$#.0/!'&\$1#'6!\$#'&,#!,-!&!.##0!)-\$!%#,,#\$!.+,\$(,(-.?!F#''I\#(.1?! & . 0!)+')('' 4# . . !&3\$-//!/-3(#,6:!Q- . 3#\$ . /!-7#\$!-%#/(,6!& . 0!2#&',23&\$#!3-/,/!&))#3,!%-,2!-'0#\$! 3-./+4#\$/!&.0!6-+.1#\$!-.#/:!;.!%-,2!3&/#/?!\$#3-7#\$6!&.0!5\$#7#.,(-.!&\$#!&.!(45-\$,&.,!(.1\$#0(#.,!,-! #.J-6(.1!&!)+')(''(.1!'()#:!c'0#\$!&0+',/!.##0!-5,(-./!,-!2#'5!-))/#,!2#&',2!5\$-%'#4/?!&.0!6-+.1#\$!&O+',/!&\$#!(.3\$#&/(.1'6!(.,#\$#/,#0!(.!5\$#7#..(.1!,2#!5\$-%'#4/!,2&,!,2#6!/##!(.!-'O#\$!1#.#\$&,(-./:! E2+/?! "#\$%&'()#6/!/,\$&,#16!,-!\$#%\$&.0!,2#4/#'7#/!&/!&!.+,\$(,(-.!3-45&.6!,2&,!0#7#'-5/?! 4 & . +)&3,+\$#/?!& .0!0#'(7#\$/!5\$-0+3,/!-)!+ .P+#/,(- . ( . 1!P+&'(,6!)(,/!3'-/#'6!,-!3- ./+ 4 #\$!/#1 4 # . ,/! \$#/5-.0(.1!,-!&'&\$4(.1!/-3(#,&'!,\$#.0/:!E2#/#!3-./+4#\$/!&\$#!&'/-!F#''!(.)-\$4#0!&.0!F(''(.1!,-! (.7#/,!,(4#!&.0!#.#\$16!,-!4&H#!/+\$#!,2#6!&\$#!5+\$32&/(.1!5\$-0+3,/!,2&,!F(''!&3,+&''6!0#'(7#\$!-.! 3'&(4/:!"#\$%&'()#!(/!#4%\$&3(.1!,2#/#!,\$#.0/!%6!%+('0(.1!+5-.!(,/!0(\$#3,!/&'#/!4-0#'!,2\$-+12!/-3(&'! 4#0(&!&.0!.#F!(.(,(&,(7#/!,2&,!5-/(,(-.!0(\$#3,!/#''#\$/!&/!,\$+/,#0!3-./+',&.,/!,2&,!3-..#3,!5#-5'#!F2-! '#&\$.!)\$-4!&.0!/+55-\$,!#&32!-,2#\$:!;.!&00(,(-.?!"#\$%&'()#G/!F#''I#/,&%'(/2#0!0(\$#3,!/#''(.1!4-0#'! )(,/!F#''!F(,2!3-./+4#\$!(.,#\$#/,!(.!#.,\$#5\$#.#+\$/2(5:!O(4('&\$!,-!b%#\$?!@6),?!&.O!-,2#\$!B1(1C! -55-\$,+.(,(#/?!0(\$#3,!/#''(.1!&''-F/!&.!(.0(7(0+&'!,-!F-\$H!&,!,2#(\$!-F.!/32#0+'#!&.0!F(,2!,2#! (.,#./(,6!,2#6!0#/(\$#:!N&(\$(.1!2(12IP+&'(,6!5\$-0+3,/!F(,2!)'#K(%'#?!/#')IO\$(7#.!#&\$.(.1!-55-\$,+.(,(#/! 5-/(,(-./!"#\$%&'()#!F#''!,-!\$#/5-.0!,-!32&.1(.1!3-./+4#\$!4&\$H#,/:!E2#!)-''-F(.1!/#3,(-./!-+,'(.#! /#'#3,#0!/5#3()(3/!-)!" #\$%&'()#6/!A=D!5\$-O+3,!P+&'(,6!/,\$&,#16?!A<D!#.1&1#4#.,!/,\$&,#16!,#\$4#0! B.+,\$(,(-.!3'+%/?C!F2(32!/,&\$,#0!(.!R#K(3-!(.!<998?!&.0!A`D!3-44(,4#.,!,-!/-3(&'!\$#/5-./(%('(,6! ,2\$-+12!(,/!4(//(-.!,-!#.3-+\$&1#!.+,\$(,(-.!&.0!F#''I%#(.1!,-!#K,#\$.&'!&.0!(.,#\$.&'!3-4.4+.(,(#/:!))))))

#### E#-D+0, N+%&', 5)4, #%, "75)

E-!#./+\$#!P+&'(,6?! "#\$%&'()#!(.7#/,/!(.!3-.,(.+-+/!\$#/#&\$32!&.0!0#7#'-54#.,!-)!(,/!5\$-0+3,!'(.#/:! Z-\$!#K&45'#?!\$#3#.,!+/#!-)!1#.#,(3!,#32.-'-16!&07&.3#/!&''-F/! "#\$%&'()#!,-!3-.)(\$4!P+&'(,6!\$&F! 4&,#\$(&'/!)-\$!,2#!4&.+)&3,+\$#!-)!(,/!5\$-0+3,/:!0,#7#.!\*#F4&/,#\$?!N2:T:!&.0!,\$&(.#0!#,2.-%-,&.(/,?! /5#&H/!- .!%#2&')!-)!,2#!T \* M!,#/,(.1!" #\$%&'()#!+/#/!,-!#./+\$#!,2#!P+&'(,6!-)!5'&.,/!,2#6!+/#:!

\*#F 4 &/,#\$!/,&,#/!,2#! .&,+\$&'!/+55'6!32&(.!,2#6!+/#!2&/!%##.!,#/,#0!)\$- 4!,2#!5\$-0+3#\$!,-!,2#!

4 &.+)&3,+\$#\$:!E2\$-+12!T \* M!%&\$3-0#!,#32.-'-16?!" #\$%&'()#!3&.!3-.)(\$ 4!,2#!(.1\$#0(#.,/!+/#0!(.!),/!5\$-0+3,/!&\$#!&+,2#.,(3?!2#&'(.1?!&.0!.+,\$(,(-+/:!T \* M!,#/,(.1!(/!3-.0+3,#0!%6!\$&F!(.1\$#0(#.,/!%#(.1!4 &,32#0!,-!&!3-45\$#2#./(7#!'(%\$&\$6!-)!,2-+/&.0/!-)!%-,&.(3&'!/5#3(#/!&\$-+.0!,2#!1'-%#!,-!

0#,#\$ 4 (.#!2(12!T \* MI'#7#'!P+&'(,6:!" #\$%&'()#!(/!+.0#\$,&H(.1!,2#/#!32&.1#/!(.!(,/!5\$-0+3,!)).

0#7#'-5 4#.,!%#3&+/#!3-./+4#\$/!0#/(\$#!,\$&./5&\$#.36!-)!5\$-0+3,!-\$(1(./!5\$(-\$!,-!5+\$32&/#:!

E-!/+55-\$,!3-./(/,#.,!5\$-0+3,!P+&'(,6!,2\$-+12!,#32.-'-16?!"#\$%&'()#!2&/!/(K!\$#/#&\$32!&.0!

0#7#'-54#.,!)&3('(,(#/!&.0!/#7#.!'&%/!,2&,!,#/,!)-\$!P+&'(,6:!E2#!3-45&.6!&'/-!2&/!&!1'-%&'!

-5#\$&,(-./!,#&4!-)!&'4-/,!<?999!5#-5'#!(.3'+0(.1!4-\$#!,2&.!`99!\$#/#&\$32!/3(#.,(/,/!,2&,!/+55-\$,!

,2#(\$!5\$-0+3,/:!E2(/!,#&4!/#,/!,2#!+.()-\$4!1'-%&'!/,&.0&\$0!)-\$!P+&'(,6!&.0!-7#\$/##/!&''!#'#4#.,/!-)!

5\$-0+3,!0#7#'-54#.,!&.0!5\$-0+3,(-.:!"#\$%&'()#6/!;Oc!=f9<d!&33\$#0(,&,(-.!(.0(3&,#/!&02#\$#.3#!,-!
/,\$(3,!/,&.0&\$0/!(.!,#32.(3&'!3-45#,#.36!-)!'&%-\$&,-\$6!5#\$/-..#'?!&33+\$&36!-)!,#/,(.1!4#,2-0/?!+/#!

-)!5\$-5#\$!#P+(54#.,?!&.0!(,!&//+\$#/!3-./+4#\$/!,2&,!,2#!,#/,/!&\$#!,\$+/,F-\$,26:!

E-!)+\$,2#\$!#./+\$#!5\$-0+3,!P+&'(,6?! "#\$%&'()#!3'-/#'6!3-.,\$-'/!(,/!/+55'6!32&(.!,2\$-+12!(,/! BO##0!,-!Z##0C!/,\$&,#16:!O(.3#!<99]?! "#\$%&'()#!2&/!(.7#/,#0!h<d9!4(''(-.!(.!7#\$,(3&'!4&.+)&3,+\$(.1!&.0!(.)\$&/,\$+3,+\$#!,-!(.3\$#&/#!,2#!(.12-+/#!5\$-0+3,(-.!-)!H#6!5\$-0+3,!+.(,/!)\$-4!'#//!,2&.!d!,-!f9! 5#\$3#.,?!(.!#//#.3#?!4&.&1(.1!5\$-0+3,/!)\$-4!\$&F!/##0!,-!)##0!,2#!4&.+)&3,+\$(.1!5\$-3#//:!Qcc?! T&7(0!N#\\+''-?!#'&%-\$&,#/!-.!,2#!/,\$&,#16\_!B L #!+/#!&!/,&1#I1&,#!5\$-0+3,!0#7#'-54#.,!5\$-3#//! F(,2!2+.0\$#0/!-)!/,#5/!&.0!4-\$#!,2&.!e9!/(1.I-))/!&'-.1!,2#!F&6!,-!#./+\$#!,2&,!#7#\$6!&/5#3,!-)!,2#! 5\$-0+3,?!)\$-4!P+&'(,6!&//+\$&.3#?!/&)#,6?!/3(#.3#!&.0!\$#1+'&,-\$6!,-!/#./-\$6!&.0!'&\#'!0#/(1.?! 3-.)-\$4/!,-!-+\$!/5#3()(3&,(-./:C!E2(/!5\$-3#//!3&.!,&H#!+5!,-!=>!4-.,2/!,-!3-45'#,#!&.0!(.7-'7#/!.2#!F-\$H!-)!4-\$\frac{1}{2}\$#1.2&.!'99!,#32.(3&'!#45'-6##/:!M''!4&.+)&3,+\$(.1!)&3('(,(#/?!F2#,2#\$!(.!,2#!

b.(,#0!0,&,#/!-\$!&%\$-&0?!4+/,!3-45'6!F(,2!ZTM!\$#1+'&,(-./!)-\$!4&.+)&3,+\$(.1!5\$&3,(3#/?!F2(32! /5#3()6!2-F!5\$-0+3,(-.!)&3('(,(#/!(.!)--0?!0(#,&\$6!/+55'#4#.,/?!&.0!&3(0()(#0!)--0/!4+/,!-5#\$&,#:! "#\$%&'()#!+.0#\$,&H#/!&''!-)!,2#/#!/,#5/!&/!,2#6!/,\$(7#!)-\$!B%#/,!(.!3'&//C!\$#1&\$0(.1!5\$-0+3,! #K3#''#.3#:!

## @.7%7"F".,)4,#%,"75)

V#/#&\$32!/2-F/!,2&,!2#&',26!2&%(,/!&\$#!%#/,!)-\$4#0!(.!&!/-3(&'!/#,,(.1!,2&,!-))#\$/!/+55-\$,?!
&07(3#?!&.0!\$#(.)-\$3#4#.,!-)!,2#!2&%(,/:!R#4%#\$/!F2-!&,,#.0!,2#!3'+%/!3&.!\$#3#(7#!.+,\$(,(-.!&.0!
)(,.#//!,(5/!&.0!#.3-+\$&1#4#.,!)\$-4!,2#!(.0#5#.0#.,!0(/,\$(%+,-\$/!\$+..(.1!,2#!#/,&%'(/24#.,/:!
"#\$%&'()#!aK#3+,(7#!k(3#!N\$#/(0#.,!#K5'&(./?!BE2#!\*+,\$(,(-.!Q'+%!-F.#\$/!,65(3&''6!32&\$1#!&.!
&,,#.0&.3#!)##!-.!&!0&('6?!F##H'6!-\$!4-.,2'6!%&/(/:!;.7(,#0!4#4%#\$/!3&.!#.J-6!/2&H#/?!,#&/?!&.0!

"#\$%&'()#!(/!3-44(,,#0!,-!(,/!#K,#\$.&'!&.0!(.,#\$.&'!3-44+.(,6:!E-!,2#!#K,#\$.&'!3-44+.(,6?!
,2#! "#\$%&'()#!Z&4('6!Z-+.0&,(-.!A" ZZD!&.0!,2#!Q&/&! "#\$%&'()#!5\$-1\$&4!5\$-7(0#!)+.0/!&.0!

7-'+.,##\$(/4!,-!32&\$(,(#/!3-44(,,#0!,-!/+55-\$,(.1!&,I\$(/H!32('0\$#.:!"#\$%&'()#!\*+,\$(,(-.!Z-+.0&,(-.!&'/-!5\$-7(0#/!/+55-\$,!,-!.+,\$(,(-.!(.(,(&,(7#/!&.0!0(/&/,#\$!\$#'(#):!Z-\$!(./,&.3#?!"#\$%&'()#6/!

5&\$,.#\$/2(5!F(,2!,2#!j'-%&'!M''(&.3#!)-\$!;45\$-7#0!\*+,\$(,(-.!AjM;\*D!)-3+/#/!-.!5\$-7(0(.1!#//#.,(&'!.+,\$(#.,/!,-!(45\$-7#!,2#!2#&',2!-)!F-4#.!&.0!32('0\$#.!F-\$'0F(0#:!E-!(,/!(.,#\$.&'!

/#''(.1!)(\$4/!&/!56\$&4(0!/32#4#/!(/!&!4(/\$#5\$#/#.,&,(-.!-)!&!2(12'6!#))#3,(7#!/+/,&(.&%'#!%+/(.#//!
4-0#'!,2&,!2&/!#K(/,#0!)-\$!2+.0\$#0/!-)!6#&\$/:!

"#\$%&'()#!F(''!)&3#!,2#!/&4#!32&''#.1#/!-,2#\$!4#4%#\$/!-)!,2#!\$#,&('!(.0+/,\$6!4+/,!&00\$#//!
(.!,2#!)+,+\$#:!;.,#\$.#,!/&'#/!&\$#!.-F!=9!5#\$3#.,!-)!\$#,&('!/&'#/!&.0!M4&\-.!2&/!4-\$#!,2&.!d9!5#\$3#.,!
-)!,2#!-.'(.#!\$#,&('!4&\$H#,;!"#\$%&'()#!4&6!%#!%#,,#\$!5-/(,(-.#0!,-!)&3#!,2(/!3-45#,(,(-.!%#3&+/#!