L#.2#'!5146'./4&7!
E1+(4/%!ACD!!!!!!!!!!-$02'F4$!O.4&41+!012!U'/'0.$%!
E1+(4/%!ACDU!!!!!!!!P'0.141+!)*FF#14&7!"4*(*+7!V*2#('!

!!

)#..4$#(#F!012!Q1/&.#$&4*1!)*#./'/!0#+%&G!
L#.2#'!5146'./4&7!
ES)Q!>W?!!!!!!!!!!!!!V#(&4$#(&#.0(4/F!012!E2#$0&4*1!

!!

5HT0.2!"*#12!)(0//4$G!M/#FF'./!>CAg!@!H.'/'1&N!
E1+(4/%!P01+#0+'!-./!MAC&%!012!AA&%!+.02'/N!
O.4&41+!Q1&'1/46'!)*#./'!MAA&%!012!A>&%!+.02'/N!

!!

)*#./'/!H'.!0$02'F4$!&'.FG!

j>CA=@>CA<G!=i=!
j>CA<@>CA?G!=i>!
j>CA?@>CADG!=i=!
j>CAD@>CAgG!=i=!
j>CAg@>CAWG!=i=!
j>CAW@>CABG!=i=!
j>CAB@>C>CG!=i=!
j>C>C@>C>AG!=i<!
j>C>A@>C>>G!=i=

3'('$&'2!)*1,'.'1$'!L.'/'1&0&4*1/!

\R*!_T*!&%'!30F'G!-!U'$*1/42'.0&4*1!*,!&%'!3(06'!V*&%'.!41!_*14!V*..4/*1c/!"'(*6'2!012!3'('$&!;0.('F!U'104//01$'![4$&4*1K`!gB&%!-11#0(!)*16'1&4*1K!)*((''+'!P01+#0+'!-//*$40&4*1K!U0('4+%iS#.%0F9!R)9!-H.4(!>CAB!

!!

\O%'1!k&%'!S.'0F!4/!&%'!_.#&%cG!R0..0&46'!-+'1$7!41!I*.0!R'0('!;#./&*1c/!_%'4.!E7'/!O'.'!O0&$%41+!X*2K`!gW&%!-11#0(!)*16'1&4*1K!)*((''+'!P01+#0+'!-//*$40&4*1K!)%4$0+*9!QP9!-H.4(!>CAW!

\-HH.'%'1241+!U0$'!41!&%'!-,.4$01!-F'.4$01!3&#24'/!)(0//.**FK`!gg&%!-11#0(!)*16'1&4*1K!)*((''+'!P01+#0+'!-//*$40&4*1K!)*(#FI40!V:9!-H.4(!>CAg!

\3&01241+!41!&%'!b'4(G!)(0//9!)*(*.4/F9!012!-#24'1$'!41!^0F'/!O'(2*1!^*%1/*1c/!_%'!-#&*I4*+.0H%7!*,!01!Ea@)*(*.'2!V01!012!_*14!V*..4/*1c/!kU'$4&0&4,Kc`!>>12!-11#0(!-$02'F4$!)*1,'.'1$'!,*.!5R)@)%0H'(!;4((c/!V**.'!512'.+.02#0&'!U'/'0.$%!-HH.'1&4$'!L.*+.0FK!_%'F'G!_%'!L*(4&4$/!*,!)*(*.4/FG!-!X(*I0(!)*1&'a&K!3$%*(0.!H01'(K!)%0H'(!;4((9!R)9!-H.4(!>CAD!

\[4+%&!*.![(4+%&mG!V4+.0&41+!"(0$8!Q2'1&4&4'/!012!&%'!L0//41+!_.*H'K`!L01'(G!_.01/.0$40(!Q2'1&4&7G!)%01+41+!S',414&4*1/!*,!"(0$81'//!41!&%'!Ag&%!)'1&#.79!_%'!;0.('F!U'104//01$'!E.09!012!&%'!R'T!V4((''114#FK!)*((''+'!P01+#0+'!-//*$40&4*1K!;*#/&*19!_n9!-H.4(!>CAD!

) (0/ / .* * F!M$*@*.+014] ' .NK!V041! - 11#0(!V ' '&41+K! - F ' .4$01!3&#24 ' /! - / / *$40&4*1K!
_*.*1&*9!) 01020 9! : $&* I ' .!>CA?!

!_*14!V*..4/*1!) *1&' /&0&4*1/G! - !V#(&4$#(&#.0(9!X(* I 0(!L ' ./H ' $&46 ' !*1!O.4& ' .!012!
Q2 ' 1&4&7K`!U ' $ ' H&4*1!3&#27!3*$4 ' &7!D&%! " 4011#0(!) *1, ' . ' 1$ ' 9! [*.&!O071 ' 9!QR9!3 ' H& ' F I ' .!
>CA?!

!\S4/$#/ /41+! [41241+/!,.* F! j *#1+! " (0$8!V0(' !3&*.7!) 4.$(' /!0&!5 - K! " (0$8!V0(' !3#F F4&K!
_% ' !5146 ' ./4&7!*,! - 8.*19! - 8.*19! : ; K! - H.4(!>CA?!

" *(&*1!<!

_0(8/9!P'$&#.'/9!O12!Q1&'.64'T/!

5146'./4&7!*,!-8.*1!

!"#$%#&'$()'*+&%,-+"'.$/0102**$2+&**9!_'0$%41+!-,.4$01!-F'.4$01!3&#24'/!MH.*+.0F!4FH('F'1&O&4*1N9`!P'IO1*1!_.O4(!;4+%!3$%**(9![.4/$*9!_'a0/!M64.&#0(NK!R*6'FI'.!Ag9!>C>A!

**!"#$%#&**9!\-1!Q16'/&4+0&46'!-HH.*0$%G!)#..4$#(#F!"#4(241+!012!3&.0&'+4'/!*1!

?#/2>&#&9!\-1!E6'141+!T4&%!I*.0G!_%'4.!E7'/!O'.'!O0&$%41+!X*2!012!&%'!;0.('F!U'104//01$'!V*6'F'1&K!"(0$8!;4/&*.7!V*1&%!E6'1&K!R*.&%T'/&!-8.*1!L#I(4$!P4I.0.79![''I.#0.7!B9!>CAD!

@0,/>,,$(29!R*.&%T'/&!-8.*1!L#I(4$!P4I.0.7c/!"**8!)(#I!3'.4'/!*1!;0.H'.!P''c/!_*!Y4((!0!V*$841+I4.2!012!X*!3'&!0!O0&$%F019!^#(7!A<9!>CA?!

5-!3$%*(0./!S07!L0.&4$4H01&9!>CA?!

A4$1>$2+&9!5-3Q3!M5146'./4&7!*,!-8.*1!3&#2'1&!Q11*60&4*1!37FH*/4#FN9!>CA<!

3(402#)'=>#,2'6&#,#(2#&9!E2#$O&4*10(!_0('1&!3'0.$%!3#FF'.!L.*+.0F9!-8.*19!:%4*9!>CA<!

L01'(4/&9!L-3:c/!\-/8!0!"(0$8!L'./*1`!.*#12&0I('!24/$#//4*19!>CA=!

L#.2#'!5146'./4&7!

3(2#&40#5##K!\L#.2#'!L(01/!VPY!)*FF'F*.0&46'!E6'1&/K`!O"--K!RLUK!O'/&!P0,07'&&'9!QRK!^01#0.79!>CA=K!%&&H/GiiTTTKTI0OK*.+i&'.FiH%4(O&%4O@I*(&*1q/&.'0FiC!

3(402#)'=>#,2'.$/0102$2+&9!\O%'1!Q2'1&4&4'/!012!)#(&#.'/!)*((42'G!-HH.*0$%41+!)*1,(4$&!0/!01!:HH*.&#14&7!,*.!)%01+'K`!_%'!)*11'$&4*1/!Q1/&4&#&'!*1!P'02'./%4H!012!S46'./4&7!O&!L#.2#'!5146'./4&79!>CA>!

=>#,2'?#/2>&#&9!\Q1&.*2#$&4*1!&*!"(0$8!O*F'1!O.4&'./9`!O0I0/%!-.'0!P4,'&4F'!P'0.141+!-//*$4O&4*1!MO-PP-N9!>CACo!>CA>!

3H'(F01!)*((''+'!M'aH'.4'1$'/!*,!24/&41$&4*1N!

!2>)#(2'6$(#10,29!\-!)*16'./0&4*1!T4&%!&%'!1*6'(4/&!L'0.(!)('0+'!012!H*'&!3*140!301$%']9`!3H'(F01!)*((''+'9!>CCA!

!"+%#,"#&,+(!,*.!H4(*&!$*#./''!O&!3H'(F01!)*((''+'!*1!&%'!)464(!U4+%&/!V*6'F'1&9!>CCC!

_%'!$(0//!$*1$(#2'2!T4&%!/&#2'1&/!+*41+!&*!-(0I0F0!&*!H0.&4$4H0&'!41!&%'!?<@F4('!F0.$%!.'@'10$&F'1&K!Q!F'&!T4&%!&%'!"*0.2!*,!_.#/&''/!&*!&0(8!0I*#&!&%'!'aH'.4'1$'K!

!

L.*,'//4*10(!3'.64$'!

5146'./4&7!*,!-8.*1!E24&*.40(!"*0.29!>C>C@!

-.'0!E24&*.!,*.!514&'2!3&O&'/!P4&'.0&#.'!012!)#(&#.'!i!-,.4$01!-F'.4$01!P4&'.0&#.'!012!)#(&#.'9!P4&'.0.7!E1$7$(*H'240 9!>CAB@!

U'64'T'2!,*.!_T'1&4'&%@)'1&#.7!P4&'.0&#.'!

[0$#(&7!-264/*.9!S'(4+%&9!>CAg@>C>A!

[0$#(&7!-264/*.9!"35!M"(0$8!3&#2'1&/!514&'29!,*.F'.(7!L-3:N9!>CA<@>CAD!

[0$#(&7!-264/*.9!L-3:!ML01!-,.4$01!3&#2'1&!:.+014]0&4*1N9!>CA<!

B@ : 3C3 ! DEBD3FA'AG6AE3AC7A'

_%'!5146'./4&7!*,!-8.*1G!

;*1*./!-264/*.9!E1+(4/%!S'H0.&F'1&9!>CAB@!

S4.'$&*.9!_'0$%41+!E1+(4/%!0/!0!3'$*12!P01+#0+'!M_E3PN9!>CA=@>CAW!

!!

L#.2#'!5146'./4&7G!

X'1'.0(!3&0,,@_'FH*.0.7!-HH*41&F'1&9!L#.2#'!5146'./4&7!"(0$8!)#(&#.0(!)'1&'.9!
>CA=!

)*H7!E2&9H7!E2&8H7!7!27!E)2587.960.3(>CA=)Tj1108.28619.889 3.840.96ref/G2gq0.28m/TH7!'9#2&1F2#