

5+67\$!8#!98,&\$,&:!

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H%%)+, "C.B(. I " F
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>(', . "\$E"J.4)+, "O+<+&& 1 . %'" P
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0*%9(7. %'(+, ('2"/G<(B+62"/+%7"C., +. 7"C.5*<'(%@"C.&5*%&(N, ('(. &" !M
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C.X) .&'&"9*<"0*%9(7. %'(+, ('2" !P
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9*<'&')7.%&/'9+6), '2/" +7 1 (%(&'<+'*<&/'&'+99/" +%7"B(&'<&'?'+"(&'9<.. "*9"+,, "9*<1 &"*9"7(&6<(1 (%+'(*%"
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J.4)+, "+%7"\$%'<5.<&*%+, " Q(&6*%7)6"G*(62"_G*(62`]"* "<.9,.6"+%7" 1+(%'+(%"('&'(')')(*%+, "

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f C.B(. I " +55,(6+N,." 0*,,.@." 5*,(6.&" '*". %&)<." (%&'(')'(*%+, " 6* 1 5,(+%6." I('?" +55,(6+N,." 9.7.<+,"+%7"&'+' .",+ I a"

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f
$$\frac{V^0 0^{*7} 6^{''?+''*66}<\&^{*99:6+15}&^{+7?+\&^{*6*}(\%)(\%@+7B.<\&.^{.99.6'\&^{*%/'*}<^6<.^'\&^{+''?*\&'(.^{\%B(<^{*}\%1.^{\%''9*}</'^{+}\%2^1.1N.<^{*9}''?^{\%U66(7.^{\%'+,}6^{*}11)^{\%('2''*%:6+15)}&^{*}<^{\%'+}\%2^0^{*},.^{\%.^{.15,*}21.^{\%''*}<^{\%}.7)6+^{(\%''5<^{*}@<+1''*}<^{\%}+6'(B('2a$$

U66(7.^{\%'+,}0^{*},.^{\%.^{.}I(,^{\%'+Y.^{\%<.^{\%+}\%N,^{\%&'.5&^{*}''*''<.^{\%5^{*}\%7''*''}.+6?^{\%6(7.^{\%''*9''&}.4)+,^{\%?+<+\&\&1.^{\%''(\%B^{*},B(\%@^{\%7(B(7)+,\&''&)}Nb.6''^{\%''*''?^{\%}.0^{*},.^{\%.^{.}A&^{*}5^{*},(6(.&^{*}''?+''^{*}66)<^{\%}(\%''6^{*}\%.\%6^{*}(\%''I('?'^{+}\%2^{\%}.7)6+^{(\%'+,}+6'(B('2''*<^{*}''?^{\%}<^{\%}5<^{*}@<+1''*9''?^{\%}(\%&^{*}(')^{\%''/'^{+}\&''I.^{\%},^{\%+\&''(\%6(7.^{\%''&''?+''*66)<^{*})'\&^{*}7.^{\%''9''?*\&.^{\%}.7)6+^{(\%'+,}5<^{*}@<+1&^{*}<^{\%}+6'(B('.&/'^{*}I?^{\%}.'?^{\%}<^{\%}.'?^{\%}2''*66)<^{*}\%''*<^{*}99''6+15)&^{*}(/9''N+\&'.7''*%''?^{\%}+,,.^{\%.^{.}+^{(\%&/'^{*}?'<^{\%}(\&^{*}<.^{\%+}\%''*''N,^{\%}.B.^{\%}''?+''''?^{\%}(\%6(7.^{\%''6^{*}),7''6^{*}\%<^{\%}(N)^{\%}.'''*+''?*\&'(.^{\%}.7)6+^{(\%'+,}^{\%B(<^{*}\%1.^{\%''*}<^{*}''?^{\%}<^{\%}I(\&.^{\%}.'<^{\%}9.<^{\%}I('?'^{+}\&')7.^{\%}A&^{*}+66.&\&^{*}''*''7)6+^{(\%''a

C.^{\%+<7,^{\%&\&^{*}9''I?^{\%}.'?^{\%}<^{\%}+''6^{*}15,+(\%''?+\&''N.^{\%}\%9(,^{\%}.7)^{\%}7.<^{*}''?^{\%}@\<^{\%}(B+\%6.^{\%}5<^{*}6.7)<^{\%}&^{*}'),(\%'.7''N,^{\%}I/'(9''?^{\%}.0^{*},.^{\%.^{.}Y^{\%}I&/'^{*}<^{\%}+&^{*}\%+N,2''&?^{*}),7''Y^{\%}I/'^{*}+N^{*})''5^{*}&\&(N,^{\%}&'.4)+,^{\%?+<+\&\&1.^{\%}''(\%B^{*},B(\%@^{\%7(B(7)+,\&''&)}Nb.6''^{\%''*''?^{\%}.0^{*},.^{\%.^{.}A&^{*}5^{*},(6(.&^{*}''+''''?^{\%}.'(1.^{\%}.'?^{\%}.0^{*},.^{\%.^{.}I(,^{\%}5<^{*}15',2''(\%B.&^{*}(@+^{\%}.'''*''7.'<^{\%}1(\%''I?^{\%}.'?^{\%}<^{\%}''?^{\%}+,,.^{\%}.7''6^{*}\%7)6''1^{*}<^{\%},(Y,2''?+^{\%}\%''*''*66)<<.^{\%}7''*<^{*}''?^{\%}<^{\%}I(\&.^{\%}<.^{\%}5^{*}\%7''(9''?^{\%}.

! "#\$%&' (&) * + , \$ & - , . , // 0 % 1 # &

_>(',\$E"J.4)+,"O+<+&&1.%"`("&+"&)N&."*9"G<*(N('7"0*%7)6'a"W%7.<" ; .5+<'1.%"*9"37)6+'(*%<.@),+'(*%&"\ "S="0aLaCa"G+<'!RKJ]"(&&).7"(%Q+2"#R#R"*"(15,.1.%">(',\$E"*9"?."37)6+'(*%<H1.%"71.%"&"*9"! [M#/'?'."0*,,.@"(&"<.X)<.7"*5<*(N("6.<+("%9*<1&"*9&.4)+,"?+<+&&1.%" +&7.9(%7"(%"?*&."<.@),+'(*%&a""

G<*(N('7"0*%7)6"1.. '&'?. "7.9(%('(*%*9">(',\$E"J.4)+,"O+<+&&1.%" I?."%V""

H%"315,*2.. "6*%7('(*%&"?."5<*B(&(*%*9"+%"+(7/"+"N.%9('/"*<+"&.<B(6."*%"+%")(%7(B(7)+,A&5+<'(6(5+'(*%")(%%)%I.,6*1."&.4)+,"6*%7)6"\"(a.a"" &.4)+,"?+<+&&1.%"I/'" I('?(%?'."W%('7"J'+'.&i"*<"

H"J')7.%"/'315,*2.. /"*<">?(<7"G+<'2".%@+@.&"(%%)%I.,6*1."6*%7)6"*%""?."N+&(&"*9&.4'?'+"I*),7N."7.'.<1(%7"N2"+<.+&*%+N,.5.<&*%""*N."&*%&.B.</'5.<B+&(B./+%7"*Nb.6'(B.,2"*99.%&(B."?'+"('".99.6'(B.,2"7.%(.&"+%*?'<.5.<&*%".X)+,"+66.&&"*""?."0*,,.@"A&"5<*@<+1&"*<"+6'(B('.&/'(%""?."W%('7"J'+'.&i"*<"

H"J')7.%"/'315,*2.. /"*<">?(<7"G+<'2".%@+@.&"(%"J.4)+,"H&&+),/' ; *1.&'(6" - (*,.%6./" ; +'(%"@" - (*,.%6./"*<"J.4)+,"+%7g*^.%7.<:N+&.7"J'+,Y(%@"+&"7.9(%7"N.,*Ii"+%7"

o >?."+,.,.@"7"6*%7)6" I+&"5.<5.'<+'.7"+@+(%&'"+"5.<&*%("%%"?."W%('7"J'+'.&i"+%7"

o >?".6*%7)6""*Y"5,+6." I('?(%""?."0*,,.@"A&"5<*@<+1&"+%7"+6'(B('.&a"

0*%7)6""+Y.&"5,+6." I('?(%""?."_0*,,.@"A&"5<*@<+1&"+%7"+6'(B('.&" I?."%""?+"6*%7)6""*66)<&V\!]" (%"+,*6+!(*%/'+"+"%".B.%/'/*<'(%+"6(6)1&"+%6." I?<."?"."0*,,.@"."4.<6(&.&"&)N&'+%'+,"6*% '<*,*B.<N*?'""?."<.&5*%7.%"+"%7""?."6*%'4"(%" I?(6""?."6*%7)6""*66)<&i"*<"#\#]"(%"+%2"N)(,7(%@"* I%7"*<6*%'<*,.7"N2"+&')7.%"*%<@+%+(d+'(*%<.6*@(d.7"N2""?."0*,,.@"a"3B.%&"?'+"*66)<"*99"6+15)&"*<

>(',\$E&.4)+,+"&&+),"(6,)7.&"<+5./"9*%7,(%@"(6.&/'*<'&'+')'*<2"<+5./"7.9(% .7+"&9*,,* I &V"

f C+5."(&'?. "5.%. '<+'(%%/"%*" 1+' .<?"* I &,(@"?/'*9'"?. "B+@(%+"*%<"+%)& I ('?"+%2"N*72"5+<'*%< *Nb.6/'*%<"+,:@. %('+,6*%' +6'"*9"+%*'?.<"5.<&*% I ('?*) "'+99(<1+'(B."6*%&.%'a"

f L*%7,(%@"(&'?. "*)6?(@%"*9'"?. "5<(B+' .N*72"5+<'&*'9"+%*'?.<"5.<&*% "9*%<'?. "5)<5*% . "9" &.4)+, "@<+'(9(6+'(%%/" I ('?*) "'+99(<1+'(B."6*%&.%'a"

f \$%6.&'"(&%"*%:9*%<6(N, . "&.4)+, "(%' .<6*%)<&. "N. ' I . . %"5.<&*%& I ?*" +<. "<.,+' .7" '*'. +6?"*?' .< I ('?%'"?. "7. @<. .& I ? .<.(%" 1+<<+@. "&5*%?(N(' .7"N2", + I a"

f J'+') '*<2"<+5."(&%"*%:9*%<6(N, . "&.4)+, "(%' .<6*%)<&. " I ('?"+%5.<&*% I ?*" (&)"%7.<'?. "&+') '*<2" +@. "9"6*%&.%'a"

0*%7)6/'*%?"?. "N+&(&*9&.4/'?'+"6*%&'(')'. &"B(*, .%6. "6* 1 1 ('.7V"

f Z2"+6)<<. % "'*%<9*%<1 .< "&5*)&. " *%<'(%'(1+' . "5+<'%.< "9"?' . "6* 1 5,+(%+% 'i"

f Z2"+5.<&*% I ('? I ?* 1 "'?. "6* 1 5,+(%+% "'&?+<. &"+6?(,7"(%6* 1 1 *%i"

f Z2"+5.<&*% I ?*"(&6*%?+N('+'(%@" I ('?/'*%<?+&6*%?+N('+' .7" I ('?/'?' . "6* 1 5,+(%+% "'+&"+&5*)&. " *%<'(%'(1+' . "5+<'%.< i"

f Z2"+5.<&*%&(1(+<,2"&'(')'+. 7"'*"+&5*)&. "9"?' . "6* 1 5,+(%+% "')%7.<'?. "7* 1 .&'(6*%<9+1 (,2" B(*, .%6. ,+ I &*9"?' . "b)<(&7(6'(%%(" I ?(6?"?' . "6<(1 . "9"B(*, .%6. "66)<<. 7i"*<"

f Z2"+%2" *?' .<"5.<&*%"+@+(%&'"+%"+7), "' *%<2")?' 6* 1 5,+(%+% "' I ?*" (&5*% .6'. 7"9*%<1 "'?'+" 5.<&*%A&"+6'&)"%7.<'?. "7* 1 .&'(6*%<9+1 (,2"B(*, .%6. ,+ I &*9"?' . "b)<(&7(6'(%%(" I ?(6?"?' . " 6<(1 . "9"B(*, .%6. "66)<<. 7a"

0*%7)6""?+"6*%&'(')'. &"B(*, .%6. "6* 1 1 ('.7N2"+5.<&*% I ?*"(&*%<?+&N. .%("+"&*6(+, <.,+'(%%&?(5" *9"+<* 1 +% '(6*%<'(%'(1+' . "%+)'<. " I ('?'"?. "6* 1 5,+(%+% 'a">?. "4(&' .%6. "9"&)6?"+"<.,+'(%%&?(5" I (, "N. " 7. ' .<1 (% .7" N+&.7" *% " ' ? . " 5+<'(.&A' &'+' . 1 .%'&"+%7" I ('? " 6*%&(7.<+'(%% "9" ' ? . " ,%@"? " *9" ' ? . " <.,+'(%%&?(5" ' ? . " '25. " *9" <.,+'(%%&?(5" +%7" ' ? . " 9<.X). %62" *9" (%' .<+6'(%% N. ' I . . %" ' ? . " 5.<&*%& (%B*,B.7"(%'"?. "<.,+'(%%&?(5a"L*%<'?. "5)<5*%&. "&*9"?'(&7.9(%('(%%/"7+'(%@"B(*, .%6. "(%6,)7.&/"N)"(&"%*" , (1 ('.7"*/%&.4)+, " *%<5?2&(6+, +N)&. " *%<'?. " ' ? <.,+' *9"&)6?" +N)&. a" ; +'(%@"B(*, .%6. "7* .&"%*" (%6,)7. " +6'&6*B.<.7")%7.<'?. "7.9(%('(%%*9"7* 1 .&'(6"B(*, .%6. a "

0*%7)6""*%?"?. "N+&(&*9&.4""?+"6*%&'(')'. &"+6*)<&. "9"6*%7)6""7(<.6'. 7"+'+&5.6(9(6"5.<&*% "'?+" I *),7"6+)&. "+<. +&*%+N, . "5.<&*% "'*9. +<9*%<'?. "5.<&*%A&"+9. '2" *%<'?. "&+9. '2" *9" *?' .<&*%<'&)99.< &)N&'+%'+, . 1 *'(%%+, "7(&'<. &&a"L*%<'?. "5)<5*%&. "&*9"?'(&7.9(%('(%%V"

f 0*)<&. "9"6*%7)6"" 1 .+%&' I *%<' 1 *%<. "+6'&/"(6,)7(%@"N)"%*" , (1 ('.7"*/"+6'&'(% I ?(6?"?' . " <.&5*%7.% "7(<.6'. 2"/(%7(<.6'. 2"/%<'?'<*)@?'?'?(<7"5+<'(.&/"N2"+%2"+6'(%% " 1 . ' ? *7"/7.B(6. /" *%< 1 .+%&/"9*,,* I &/" 1 *%(' *%</" *N&.<B.&/"&)<B. (&/" ?<.+'. %&/" *%<' 6* 1 1)%(6+' .&' *%<' +N*)"' + 5.<&*%/"*%<'(%' .<9.<. & I ('?"+5.<&*%A&5*%5.<'2a"

- f C.+&*%+N,. "5.<&*%" 1 .+%&"+<.+&*%+N,. "5.<&*%")%7.<&(1(,+<"6(<6) 1 &'+%6.&"+%7" I ('?'&(1(,+<"(7.%'('.&"*"'?."6* 1 5,+(%+% 'a"
- f J)N&'+'(+,". 1 *'(*%+, "7(&'<.&&" 1 .+%&"&(@%(9(6+% "" 1 .%'+"&)99.<(%@"*<"+%@)(&?"'?"+" 1+2"N)" "7*.&"*""%.6.&&+<(,2"<.X)<." 1 .7(6+,"*<*"?'<"5<*9.&&(*%+, "'<+' 1 .%"*<"6*)%&.,(%@a

; +'(%@"B(*, .%6. "+&'7.9(% .7"("%'?'>(', ." \$E" ; +'(%@" - (*, .%6. "7.9(%('*%" +N*B. "'?+'7(7"%*'"<.5* <' .7,2" *66)<"(%+"5<*@<+ 1 "*<"+6'(B('2"*9"'? . "0* , , @. "(%'"? . "W%(' .7"J'+'. &a"

; * 1 .&'(6" B(*, .%6. "+&'7.9(% .7"("%'?'>(', ." \$E" ; * 1 .&'(6" - (*, .%6. "7.9(%('*%" +N*B. "'?+'7(7"%*'" <.5* <' .7,2"*66)<"(%+"5<*@<+ 1 "*<"+6'(B('2"*9"'? . "0* , , @. "(%'"? . "W%(' .7"J'+'. &a"

>+Y(%@"&.4)+, "+7B+%'+@. "*9"+%*'?'<"5.<&*%9* <'?' . "N.% .9("9"+%2*% . "*'?'<'?'+"5.<&*% "I ('?*)" ' ?+'5.<&*%A&"+99(< 1+'(B. "6*%&. %' /"(%6,)7(%@"N)"%*', (1 (' .7"*"/+%2"*9"'? . "9* , , * I (%@"+6'&V" >? . "5<* &'(') ('@"*9"+%*'?'<"5.<&*%i" >? . "'<+99(6Y(%@"*9"+%*'?'<"5.<&*%/"7.9(% .7"+&'?' . "(%7)6. 1 .% "'*9"+5.<&*% "'*5.<9* <1 "+" 6* 1 1 .<6(+, "&.4"+6'/"* < , +N* <' * < & . <B(6.&/"?'<*)@?"9* <6. /"9<+)7/"* <6* .<6(%*i" >? . "<.6* <7(%@"*9" (1+@ .&/"%6,)7(%@"B(7. "* * <5? * * @ <+5? /" * <+)7(*"9"+%*'?'<"5.<&*%A& &.4)+, "+6'(B('2"* < ("'(1+' . "5+<'&/" I ('?*)"'?'+"5.<&*%A&"+99(< 1+'(B. "6*%&. %' i" >? . "7(&'<(N)'(%*"9" (1+@ .&/"%6,)7(%@"B(7. "* * <5? * * @ <+5? /" * <+)7(*"9"+%*'?'<"5.<&*%A& &.4)+, "+6'(B('2"* < ("'(1+' . "5+<'&/" (9"'? . "(%7(B(7)+, "7(&'<(N)'(%@"'?' . "(1+@ .& * <+)7(*" Y% * I & * * <'&?*) , 7" ?+B. "Y% * I % "'?'+"?' . "5.<&*% "7.5(6' .7"("%'?' . "(1+@ .& * <+)7(*"7(7"%*'" +99(< 1+'(B. ,2"6*%&. % "'*"'?' . "7(&6, * &)< . i"+%7g* < >? . "B(. I (%@"*9"+%*'?'<"5.<&*%A& &.4)+, "+6'(B('2"* < ("'(1+' . "5+<'&/" (%+"5,+6. " I ? .< . "'?+' *'?'<"5.<&*% " I *) , 7" ?+B. "+< . +&*%+N, . .45.6'++'(%*"9" 5<(B+62/" I ('?*)"'?'+"5.<&*%A& +99(< 1+'(B. "6*%&. %' "

V" j)(7" 5<*" X)*" ?+<+&& 1 .% " *66)<&" I ? .% " &)N1 (&&(*%" ' * " * <"
< . b . 6' (*%" *9")% I . , 6* 1 . " 6*%7)6'" (&)" & . 7/" . 45, (6(' , 2"*<" (1 5, (6(' , 2"/" +&" ? . " N +& (&" 9* <" 7 . 6 (& (*%&"
+99 . 6' (%@ " +% " (%7(B(7)+, A&" . 7)6+' (*%" \ . a@a/" +7 1 (&& (*%/" +6+7 . 1 (6" & '+%7(%@/" @<+7 . &/"
+&& (@% 1 . % ' j i " . 1 5, *2 1 . % " \ . a@a/" ? (< (%@/" +7B+%6 . 1 . % ' /" +&& (@% 1 . % ' j i " * <" 5 + < ' (6(5+' (*%" (% " +
0 * , , . @ . " 5 < * @ < + 1 " * < " + 6' (B(' 2" \ . a@a/" 6 + 1 5) & " ? *) & (%@] a

+6'(B."<.&5*%&.a"H%("7(B(7)+," I ?*7* .&"%*"5?2&(6+,2"<.&(&"*<B.<N+,2"<.9)&."&.4)+," +6'(B('2"(&"%*"6.&&+<(,2"@B(%@"6*%&.%'a"C.,2(%@"&*,,2")5*%*%*:B.<N+,"6* 1 1)%(6+'(*% 6+%,.,+7"*"+9+,&."6*%6,)(&(*%"+&"* I ?.'?'<'6*%&.%" I +&"&*)@?"*<@B.%a"

f _____ "H99<1+'(B."6*%&.%" 1)&"N."*%*%*(%@"'?'<*)@?'*)''?'."+6'(B('2a"0*%&.%" 1 +2" N." I ('?7<+ I %"N2"+%2"5+<'2"+'+%2"(1 .a"C.6*%@(d(%@"'?'."72%+1 (6"%+)'<."*9"&.4)+,"+6'(B('2/" (%7(B(7)+,&"6?*"&(%@" '*".%@+@." (%"&.4)+,"+6'(B('2" 1)&" .B+,)'."6*%&.%'(%@"+%" *%*%*(%@" 1 +%%.<"+%7"6* 1 1)%(6+'."6.,+<,2"'?'<*)@?'*)''+,,&'+'@.&"*9"&.4)+,"+6'(B('2a" c ('?7<+ I +,"*9" 6*%&.%" 6+%" N." + "B.<N+,2" .45<.&&.7" _%*`" *<`_&'*5`" *<" 6+%" N." N+&.7" *%"+%" *')' I +<7" 7. 1 *%&'<+(*% "'?+' 6*%B.2&"?'+'+'+'(%7(B(7)+," (&'?.&'+'/' 6*%9)&.7/")%6.<+(/" *<` (&"%*" ,*%@.<"+ 1)')+, "5+<'(6(5+% 'a"U6."6*%&.%" (&" I ('?7<+ I %/"'?'."&.4)+,"+6'(B('2" 1)&" 6.+&." (1 1 .7(+'.2"/+7"+,, 5+<'(&" 1)&" *N'+(%" 1)')+,2" .45<.&&.7" *<` 6.,+<,2" &'+' .7" 6*%&.%" N.9*<."6*% '(%) (%@"9)'<'?.<"&.4)+,"+6'(B('2a"

f _____ " 0*%&.%" '*%*%."9*<1 "9"&.4)+,"6*%'+'7* .&"%*"6*%&'(')'.6*%&.%" '*"+,, 9*<1 &"*9"&.4)+,"6*%'+'/'%*<"7* .&"6*%&.%" '*"&.4)+,"+6'(B('2" I ('?'*%."5.<&*% "6*%&'(')'. " 6*%&.%" '*"+6'(B('2" I ('?'+%2"*?'<.5.<&*%a" 3+6?"5+<'(6(5+% "'(%+"&.4)+,".%6*)'<" 1)&" 6*%&.%" '*"+6?"9*<1 "9"&.4)+,"6*%'+' I ('?' .+6?"5+<'(6(5+% 'a" 3B.%" ('?'."6*%' .4" *9"+ 6)<<.%" *<`5<.B(*)&'(%' (1+' .<.,+'(*%&'?(5"/.+6?"5+<'2" 1)&"6*%&.%" '*"+6?"(%&'+%6."*9"&.4)+," 6*%'+'6" .+6?"(1 .a">?."6*%&.%" 1)&"N."N+&.7"*% (1)')+,2")%7.<&'+'7+N,."6* 1 1)%(6+'(*% '?+'6.,+<,2"(%7(6+'.&"+" I (.,(%@% .&&"*% .%@+@." (%"&.4)+,"+6'(B('2a">?." 1 .<."9+6"?'+'?'<." ?+&"N..%"5<(*<'(%' (1 +62"*<`&.4)+,"+6'(B('2"7* .&"%*%'/'N2'(&.,9/"(1 5,2"6*%&.%" '*"*9')<."+6'&a"

_0* .<6(*%`"(&"'?. "(15<*5.<")&. " *9"5<.&&<." '* "6* 15., "+%*'?.< "(%7(B(7)+, " '* "(('+' . " * "<"6*%'(%). "

0* .<6(*% "6+% "(%6,)7. "+" I(7. "<+% @. " *9" N. ?+B(*<&/"(%6,)7(%@"%'(1(7+'(*%/" 1+% (5), +'(*%/"' ?<.+ '&/" +%7" N,+6Y 1+(,a" H"5.<&*%A&" I * <7&" * <"6*%7)6"" +<." &)99(6(. % "' '* "6*%&'(')'. "6* .<6(*% "(9"'? .2" I <*% @9),,2" (15+(<+%*'?.< "(%7(B(7)+,A&"9<. .7* 1 " *9" I(, "+%7"+N,('2"'*6?***&. " I ? . ' ? .<"* <"% * "" * " . % @ + @ . "(%&.4)+, "+6'(B('2a"34+ 15, .&" *9"6* .<6(*% "(%6,)7. "' ?<.+'. % (%@"' '* " _ *)' ^ &* 1 . *% . "N+&.7"*% "&.4)+, "*<(.% '+'(*%/" @.%7.<(7.% '('2"'* <"@.%7.<.45<.&&(*% "+%7"' ?<.+'. % (%@"' '* " ?+< 1 " *% . &.,9"(9"' ? . " * ' ? .<"5+<'2"7* .&"% * "' .% @ + @ . "(% "' ? . "&.4)+, "+6'(B('2a" c ? . % "&* 1 . *% . "(%7(6+' .&/"B.<N+,2" * <"5?2&(6+,2/"' ? + "' ? .2"7* "% * "'

6*%9(7.%'+('2a">?.&."(%7(B(7)+,&"<."5<*?(N('7"9<*1"N<.+Y(%@"6*%9(7.%'+('2")%.,&&'?'<."(&"+" (1 1(%.%'"?'<."*9"?+<1 "'*"&.,9"*<"*?'<.&a"H%"(7(B(7)+," I ?*"&..Y&"6*%9(7.%'+,"+&&(&'+%6." 1+2"7* &*N2"&5.+Y(%@" I ('?'5<*9.&&(*%+,&" I ?*" ?+B."+" ,.@+,,2"5<*'.6'.7"6*%9(7.%'+('2a">?. "6*%9(7.%'+," <.&*)<6.&" +B+(,+N,." '*"(7(B(7)+,&" *% " 6+15)&" +<." ,(&'7" N.,* I a" 8*.'/" ?* I .B.</" '?+' '?.&." 6*%9(7.%'+,"<.&*)<6.&"<."X)(<.7"N2"&'+'." ,+I "'*%*(92"6?(,7"5<*'.6'(B."&.<B(6.&'+%7g*,<,"*6+,"+ I ".%9* <6. 1 .% "'*9"+%2"<.5* <" I ?(6?("%B*,B.&"&)&5.6'.7"+N)&."*9"+ 1 (%* <")%7.<"'?. "+@."*9"!Pa"

;%G+%/#/&3.&B31>"7%1#",.\$"#@&

H"5.<&*%" 1+2"7.&(<." '*"<.5* <"G<*?(N('7"0*%7)6"'*"'?. "0*,,.@"N)" '*" 1+(%'+(%6*%9(7.%'+('2i" (9"&*/'?'." 0(B("C(@?'&"D">(',\$E"0**<7(%+'* <" I (,,".B+,)' .&)&6?"<.X).&'&a" c ?<."+6* 15,+(%+%'" <.X).&'&" '?+' '?." 6* 15,+(%+%'&" % + 1 ." * <" *?'<." (7.%'(9(+N,." (%9* < 1 + ('*% "%*"'N." &?+<.7" I ('?' '?' . <.&5*%7.% "'* <" ?+' "%*9* < 1 +,"+6'(*%N." "+Y.%/'?'." 0(B("C(@?'&"D">(',\$E"0**<7(%+'* <"

="/6\$3/+./& ; %G+ ".%7& : @! 9%&B\$%. @& I 6#&

H" _>(1 .,2" c +<%(%"`" (&" + 6+15)&: I(7. " %*'9(6+'(*% " *9" + &.<(*)&" *<" 6*%'(%))(@" '?<.+ " '* " '?." U66(7. % '+, "6* 1 1)%('2a">?. ">(1 .,2" c +<%(%"7* .&"%*" (%6,)7. "(7. % '(92(%@"(%9* < 1+'(*%"+N*)"'?'." 6* 15,+(%+% 'a"\$9"+<.5* <"*9" 1 (&6*%7)6"7(&6,*& .&+"6*%'(%))(@"'?'<.+ "(%B*,B(%@"*% . "*9"?' .&5.6(9(.7" _0, .<2"6<(1 .&`"***"?. "U66(7. % '+, "6* 1 1)%('2/"?' . "0* ,. @. "1+2"(&&). "+6+15)& I(7. "(1 .,2" I +<%(%"@ \ I?(6?"6+% "'+Y. "'?. "9* < 1 "*9"+% . 1 +(, "'*6+15)&]"*5* <.6"'?. "?. +, '?* < &+9. '2"*9"?' . "6* 1 1)%('2a"

H, " ?(@? .<" .7)6+'(*% "(%&'(')'(*%&"?'+"<.6.(B. "9.7.<+, "9)%7(%@"(%6,)7(%@"?' . "0* ,. @. /"+<. *N, (@+ ' .7" '*" (&&). "5)N,(6,2"+% "H%)+, "J.6)<'2"C.5* <"\ _HJC`]" I?(6?"(7. % '(9(.&"?' . "%) 1N.<"9"5+<(6), +< <.5* <' .7"6<(1 .&"*%6+15)&"* <'6+15)&5* <5.<'2/"* <+7b+6. ""*6+15)&a">?. "HJC"7* .&"%*" (%6,)7. "(7. % '(92(%@"(%9* < 1+'(*%"+N*)"'?' . "6* 15,+(%+% "'* < &5*%7. % 'a"

H, " ?(@? .<" .7)6+'(*% "(%&'(')'(*%&"?'+"?+B. "6+15)&5* ,(6. "9* <6. &"* <" &.6)<'2"7.5+<' 1 .% '&" 1)&" 1+(%'+(%"+ "7+(,2"6<(1 ., *@"?'+" (%6,)7.&" .% '<(.&"9* <+, "6<(1 .&"?'+"*66)<" I('?(% "N*?' "?' . "0, .<2" @. *@<+5?2"+%7"?' . "6+15)& &+9. '2"9* <6. A&"<. @), +<"5+<*, "<*)' .a">?. "6<(1 ., *@"7* .&"%*" (%6,)7. "(7. % '(92(%@"(%9* < 1+'(*%"+N*)"'?' . "6* 15,+(%+% "'* < &5*%7. % 'a"

G\$?8.&' ,E!O?&'8, :!

>?. "0* ,. @. "&"<*% @,2".%6*)<+@. &+, "(%7(B(7)+, &"* "&. .Y"+&&(&' +%6. "9* < 1 "+ 1 .7(6+, "5* <B(7.<"+%7g* < ,+I".%9* <6. 1 .% "'(1 1 .7(+'. ,2"+9'. <+%"(%6(7. % "'*9&.4)+, "B(*, .%6.a">?(&"('?' . "N.&"*5'(*% "'* .%&)<. "5<. &.<B+'(*%*"9".B(7.%6. "+%7"*N. @(%"+"(1 .,2"(%B.&'(@+ '(

+("&Y"9"?+<1 "'*"'?. "6* 15,+(%+% '/'<.&5*%7.% '/'*<"*"'?. "N<*+7.<"6+ 15)&"6* 1 1)%('2"+%7" I(,,"+Y." &' .5&"*"+77<.&&"?*&.<(&Y&a">?.&.&' .5&" 1+2"(%6,)7.(%'.<(1 "&)55*<'(B."*<"5<*' .6'(B." 1 .+&)<.&"* 5<*B(7."9*<"'?. "&+9. '2"*9"'?. "(%7(B(7)+,"+%7"'?. "6+ 15)&"6* 1 1)%('2a""

C.5* <'&"*9"B(*,+('*&"*9"'?(&"G*,(62" 1+2"N." 1+7." '*"'?. "0(B,"C(@?'&"D">(',"\$E" 0**<7(%+'*<a"H" 9* < 1+,"6* 15,+(%' " 1+2"N." 9(, .7"+'+%2"(1 ."N2")&(%@"'?. "9* < 1 "5<*B(7.7"+' " [I I I a*42a.7\)g&.4\)+.:](#) <.&5.6':('.,.:4a"H"9* < 1+,"6* 15,+(%' " 1+2"N."&)N 1 ('.7"N2"7<*55(%@"('"*99"+'""?. "0(B,"C(@?'&"D">('," \$E"U99(6./"N2". 1+(,/"*<"N2" 1+(,a"W5*%<.6.(5"*9"+%2"9* < 1+,"6* 15,+(%'/'?'."0(B,"C(@?'&"D">(',"\$E" 0**<7(%+'*<" I(,,"6*%' +6""?. "6* 15,+(%+% ""*"6*%7)6""+(%'+Y.(%'.<B(. I a""

\$%''?. ".B.% ""?'+"+"6* 15,+(%+% ""?'&9(, .7"+"9* < 1+,"6* 15,+(%' "N) ""'?. %7.6,(% .&"*5+<'(6(5+' ."(%+% " (%'+Y."(%'.<B(. I/"(9"'?. "9* < 1+,"6* 15,+(%' "6*%' +(%&"+"+,.,.@+'(*% 1 . .'(%@"+,,"*9"'?. "b)<(&7(6'(*%+, ., . 1 .% '&"*9"'?(&"G*,(62/"'?. "9* < 1+,"6* 15,+(%' "(& &(@% .7"+%7"<.X) .&'&+"% "(%B.&'(@+'(*%/''?. "

H^0"C**1"!!!"
I I I a*42a.7)g6(B(:<@?'&:'(',..:(4"

>?. "0(B,"C(@?'&"D">(',\$E"0**<7(%+'*<" I(,"<.6.(B. ""?. "+%*%2 1 *)&"<.5*<"+%7" I(,"7. '.<1(%."+%2"

>?. "Z)<.+) "9* <"G<(B+' . "G* &'. 6*%7+<2"37)6+('"%+66.5'&"+,, "25.&"*9"6* 1 5,+(%'&<.,+' .7"'*
'?." 0*,,. @. " +%7" 1+2"<.9.<" +%2" 6* 1 5,+("%" ("<.6.(B.&" (%6,)7(%@" 6* 1 5,+("%'&<.,+' .7" '*
(%&'(')'(%+, " 5*(,6(.&" * <" 5<*6.7)<.&/' * <"N*?'/" '*"'?'." 0*,,. @./" +% +66<.7('@" +@.%62/" * <
+%*'?'<"+55<*5<(+'. "%'('2"9* <"<.&*,)'(%*a"
Z)<.+) "9* <"G<(B+' . "G* &'. 6*%7+<2"37)6+('"%"
#FSF"0+5('*, "U+Y&" ;<(B./"J)('."=RR"
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A#9%.& ; %<3.#"1FB31/"7%.,#"31/k

0* 1 5,+(%+% '&"+%7"'?(<7:5+<2" I (%.&&.&"+<." %6*)<+@.7"'* <.5* <"G<*?(N(' .7"0*%7)6"' +&"&*%"+&
5* &&(N,." (% * <7.<' '* " 1+4(1(d." '?'." 0*,,. @. A&" +N(,'2" '* <.&5*%7" 5<* 1 5',2" +%7" .99.6'(B.,2a">?. "
0*,,. @."7* .&%"*"/"?* I .B.</' ,(1('"'?'." (1."9<+1."9* <"<.5* <'(%@"\$9"'?'<.&5*%7.%'"(&"*"'+" 1.1N.<
9"'?'."U66(7.%'+, "6 1 1)%('2"'?'."0*,,. @." I(,,"&'(&., "Y"'*"+Y." '&' .5&""*%7"'?'."?+<+&& 1 .% '/5<.B.%"
('&' <.6)<<.%6./" +%7" +77<.&&" ('&' .99.6'&/' N)'" ('&' +N(,'2" '* "' +Y." 7(&6(5,(%+<2" +6'(%*" +@+(%&" "'?'." <
<.&5*%7.%'" 1+2/"*9"6*)<.&./"N,.(1(' .7a"H%("6(7.%'"7* .&%"*"'?+B."*"*66)<"*%6+1 5)&"*N.<.5* <' .7"
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>?. "0*,,. @."&'<*%@,2".%6*)<+@.&"?'<.5* <'(%@"*9"G<*?(N(' .7"0*%7)6"')%7.<"'?(&"G*,(62a"\$'("(&"%'?'." N.&"'(%'<.&"*9"'?(&"6* 1 1)%('2"'?'+"&" 1+%2"6* 1 5,+(%+% '&"+&5* &&(N,."6?*"&." '* <.5* <' '* "6*,,. @." *99(6(+,&" +%7" '?+" 5+<'(6(5+%'&("%'?'."@<(.B+%6." 5<*6.&&"+<."9* <'?<(@?"'("%&'&+<(%@"(%9* <1+'(%*a">" @) +<7" +@+(%&"7(&6*)<+@(%@"<.5* <'(%@"* <5+<'(6(5+'(%*"/'+&')7.%'" I ?*"<.5* <'&"G<*?(N(' .7"0*%7)6"'* < 5+<'(6(5+' .&'"%'?'."@<(.B+%6." 5<*6.&&"/.'?'<+&"+6* 1 5,+(%+% '&'<.&5*%7.%'"* <+"?'<7:5+<2" I (%.&&/" I(,,"*%*"N."&)Nb.6"'*7(&6(5,(%+<2" +6'(%*"N2"'?'."0*,,. @."9* <'5.<&*%+, "6*%&) 1 5'(%*"9"+,6*?'*, " * < 7<)&"* <*"?'<. <B(*,+'(%&"*9"'?'."6*%7)6"5*,(62"\%*"("6,)7(%@"'?)(&"G*,(62)"+"* <%" .<+<'?'."(1."*9"'?'." (%6(7.%'/'5<*B(7.7"'?'+"%2"&)6?"B(*,+'(%&"7(7%"*"'+"%7"7*%"*5,+6."?'."?' .&'+?'* <+9.'2"*9"+%2" *?'<. <5.<&*%+"<(&Y+%7"7*%"*'"(%B*,B."5,+@(<+& 1/'6?'+'(%@"* <"+6+7.1(6"7(&?'*%&.'2a">?. "0*,,. @." 1+2/"?'* I .B.</' (%('+'." +% .7)6+'(%*+, "7(&6)&&(%*" * <5)<.&)." *?'<. <7)6+'(%*+, "<.1.7(& I ('?'?'." &')7.%'"<.@+<7(%@"+,"6*?'*, " * <*"?'<. <7<)&a"Z.(%@"(% '*4(6+' .7"* <"(1 5+<.7"N2"7<)&"* <"+,6*?'*, "(%*" * 7.9.%&." '* "+%2"B(*,+'(%*"9"'?(&"G*,(62"+%7"7* .&%"*"'7(1(%(&'*%*.A&<. &5*%&(N(,'2"'*%N'+(%"6*%&.'% 'a"

>?. "0*,,. @."&'<*%@,2".%6*)<+@.&"6* 1 5,+(%+% '&' '* "5)<.&)."6<(1(%+, "+6'(%*"9* <"(%6(7.%'&"*9"&.4)+, "?+<+&& 1 .% '/" &.4)+, " B(*, .%6./" +%7" (%'(1+' . " 5+<'%<. <B(*, .%6." '?'+" 1+2" +,&* N." 6<(1.&")%7.< 0+, (9* <%(+," +I a">?. "0*,,. @." I(,,"&&(&"+"6* 1 5,+(%+% '"(%" 1+Y(%@"+"6<(1(%+, "<.5* <'"+%7"6*%5.<+'." I ('?' ,+I ."9* <6.1.%'+@.%6(&."9"+6* 1 5,+(%+% '"7.6(7.&"*5)<.&)."?'."6<(1(%+, "5<*6.&&"*"'?'."4".%'" 5.<1(' .7" N2" ,+I a">?. "0*,,. @.A&" G*,(62)"7.9(%('(%&/' +%7" N)<7.%" *9" 5<*%9" 1+2" 7(99.<" 9<* 1 " 0+, (9* <%(+<6<(1(%+, "+, +I a"H"6* 1 5,+(%+% '" 1+2"&..Y<.6*)<.&.)%7.<"'?(&"G*,(62"+%7g* <5)<.&)."6<(1(%+, "+6'(%*a"8.'?'<.,+I ."9* <6.1.%'&A&"7.'<1(%+'(%*" I ?.'?'<."* <%"*"'*5<* &.6)." +<. &5*%7.%'/'% * <'?'." *)'6* 1 ."*9"+%2"6<(1(%+, "5<* &.6)'(%*"/'+<.7.'<1(%+'(B."*9" I ?.'?'<+"B(*,+'(%*"9"'?(&"G*,(62)"?+& *66)<<.7a"

G<*6..7(%&")%7.<"?&"G*,(62" 1+2"N."6+<<(.7*)"'5<(*<"*/&(1),'+%.*)&,2" I('?'/*<"9*,,* I(%@"6(B(," *<"6<(1(%+, "5<*6..7(%@&"*99"6+15)&a">?. "0*,,.@. " 1+2"*%*"7.,+2"6*%7)6'(%@"('&"* I"(%B.&'(@+'(%%)%,,&&"&5.6(9(6+,2"<.X).&'.7"N2"'?.",+I".%9*%<6. 1.%'"\".a@a"/mHG ;]a"\$%""?. ".B.%""*9"&)6?"+"&5.6(9(6 <.X).&"/" '?. "0*,,.@. " I(,,"7.9.<" ('&"(%B.&'(@+'(%%*"%,2"7)<(%@" '?." '(1." '?+'",+I".%9*%<6. 1.%'" (& @+'?<(%@" .B(7.%6./" I?(6?'&?*) ,7"%*" .46..7"' .%"7+2&" +N&.%'" .4' .%) +'%@"6(<6) 1&'+%6.&a">?. " 0*,,.@. " I(,,"%B.<'?. ,&&"6* 1 1)(6+'." I('?' '?' . "6* 15,(+%+%'" +%7"<.&5*%7.%"" \ (9"+55<*5<(+'.] " <.@+<7(%@">(',\$E"<(@?'&"5<*6.7)<+, *5'(%%&"/+%7"'?. "(15,. 1.%'+(%%*"9"&)55*%<'(B." 1.+&)<.&"*"+&&<."&+9.'2"+%7" I.,,: "N.(%@">?. "0*,,.@. " I(,,"5<* 15',2"<.&) 1."9+6':@+'?<(%@" +&"&*%*" +&" ('&" (%9*%<1.7"'?+'",+I".%9*%<6. 1.%'"?+&"6* 15.,'.7"('&"(%('+(,%B.&'(@+'(%%a"

>?. "0*,,.@. " +Y.&"'?. "+66)<+62"*9"(%9*%<1+'(%%B.<2"&.<(&)&,2"/"+&" +<.5*%<"*9"G<*?(N(' .7"0*%7)6'" 1+2"?+B."&B.<."6*%&.X).%6.&a"H"@**7:9+('?'6* 15,(+%"?'+'<.&),'&'(%"+9(9%7(%@"*9%*"')<.&5*%&(N,." (&"%*" 6*%&(7.<.7"+'9+,&."*%<'9+N<(6+' .7"<.5*%<"*9"G<*?(N(' .7"0*%7)6'a" G+<'(.&" +%7" I('%&&.&"+<." .45.6'.7""*5<*B(7." '<)'9),(%9*%<1+'(%%*"')?.\$B.&'(@+'*%<"O.+<(%@"U99(6.<"/+7"H55.+,&"U99(6.<a" J?*) ,7"+%2"5+<'2"/"*<+" I('%&&"/5<*B(7."Y%* I(%@"2"9+,&."(%9*%<1+'(%%"+&"5+<"*9"'?(&"5<*6.&&"'?'&" 1+2"N."6*%&(7.<.7"+B(*,+('(%%*"9"0*,,.@. "5*,(6.&"+%7" I(,,"N."<.9.<<.7""*"'?. "+55<*5<(+'. "99(6."9*%< 9)<'?.<"?+%7,(%@"\$'" (&"B(*,+('(%%*"9"'?. "0*7."*9"J')7.%""0*%7)6'"* 1+Y." +%"(%' .%('(%%+,2"9+,&." <.5*%<"*9"+%2"5*,(62"B(*,+('(%%"/+%7"(' 1+2"+,&*B(*,+'.&'+'."6<(1(%+,&'+')'.&"+%7"6(B,"7.9+1+'(%%"+, I&a"

W%7.<"0+, (9*%<(+, +I"/+%("7(B(7)+, " 1)&' 1+Y." + " 1+%7+*%<2"<.5*%<"*9"&)&5.6'.7"6?(,7"+N)&." +%7" % .@. .6"/"(6,)7(%@"&.4)+, +&&+), " I? .%""?+"%7(B(7)+, "%""? . (<5<*9.&&(%%+, "6+5+6(2"*<" I('?'(%""? ." &6*5."*9""? . (<. 15,*2 1.%'"/'+&"Y%* I., 7@."*9"/"*<"N&.<B.&"/+ 1 (%%<")%7.<"'?. "+@."*9"!P" I ?* 1 ""? ." (%7(B(7)+, Y%* I &"*%<.+&*%+N,2"&)&5.6'&"?+&"N. .%""? . "&)<B(B*%<"*9"6?(,7"+N)&." *%<%.@. .6'a" H,, " 0*,,.@. " 15,*2. .&"+<."<.X)<.7""*(1 1.7(+'. ,2"<.5*%<" +%2"&)&5.6'.7"6?(,7"+N)&." +%7"% .@. .6""* "'?."0(B("C(@?'&"D">(',\$E"0**<7(%+'*%<+%7"'?. "; (<.6'*%<"*9"0+15)&"J+9.'2a">?. "&*)<6."*9"+N)&." 7*.&'%*"%. .7""*N."Y%* I"(%""%<7.<"*9(. . "+<.5*%<'a">?. "0*,,.@. " I(,,"<.5*%<" +, "&)&5.6'.7"6?(,7"+N)&." +%7"% .@. .6"/"(6,)7(%@"&.4)+, +&&+), "/"*",+I".%9*%<6. 1.%'" +%7g*%<'?. "m*&"H%@.,.&"0*%)'2" ; .5+<' 1 .%""*9"0?(,7"+%7"L+1 (,2"J.<B(6.&a"\$'"(&"%""'?. "<.&5*%&(N(,'2"*9"+%2". 15,*2. /'&')7.%'/"*< B*,)%' .<"*%("B.&'(@+' .&)&5.6'.7"6?(,7"+N)&.a">?(&("&"'?. "<*,. "9"0?(,7"G<*'.6'(B."J.<B(6.&"+%7"+, I".%9*%<6. 1.%'a"

\$%" +77('(%%*"*)'(92(%@"'?. "0(B("C(@?'&"D">(',\$E"0**<7(%+'*%<+%7"; (<.6'*%<"*9"0+15)&"J+9.'2"/ +%2"(%7(B(7)+, " 1+2" 1+Y." + "7(<.6""<.5*%<" +&"9*,,* I&V"

f \$9"+6?(,7"(&"(%(1 1.7(+'. "7+%@.<"/"6+,,"[! !a"

f \$9""?<."(&"%*(1 1.7(+'. "7+%@.<"/"6*%'+6""?."0?(,7"G<*'.6'(%%O*',("#=")*<)&"+7+2"/"M7+2&"+ I. .Y"/+" \PRR]F=R:=RRRa"\$9"6+, (%@"9<* 1 *)'&(7."*9"0+, (9*%<(+/'6+,," \#!S]"KS[:="FRRa"

H%2"U66(7.%'+, . 15,*2.. " I?*" (&"+&*"+6*%9(7.%'(+, . 15,*2.. \9*%<.4+15., /"+'?' .<+5(&'"/&.4)+, +&&+), "B(6'(1"+7B*6+'. /"5?2&(6(+%)"+%7" I?*" I +&"?<.7"(%""?'+"6*%9(7.%'(+, "<*,. "&?*) ,7"<.5*%< "&)&5.6'.7"6?(,7"+N)&." *%<%.@. .6""*"+, I".%9*%<6. 1.%'" +%7g*%<'?. "m*&"H%@.,.&"0*%)'2" ; .5+<' 1 .%""*9"0?(,7"+%7"L+1 (,2"J.<B(6.&"N)" I*),7"%*" 1+Y." +%2"&)6?"<.5*%<"*9"'?. "0(B("C(@?'&"D">(',\$E"0**<7(%+'*%<+%7"; (<.6'*%<"*9"0+15)&"J+9.'2a"

M-??8.&'(\$!P\$+:-.\$:!,@!G\$=\$@'\$:!

W5*%<.6.(5''*0"+<.5*<'/'?'."0*,,.@."I(,"5<*B(7.<.&*%+N,."+%7"+55<*5<(+'.&)55*<'(B."1.+&<.&"
7.&(@%.7" '*" 5<.&.<B." .X)+,"+66.&&" '*" '?." 0*,,.@.A&" 5<*@<+1 &"+%7"+6'(B('.&/'"+%7" '*" 5<*'.6" '?."

- f 0?+%@.("%*%:6+15)&"?*)&(%@" I?.%9.+&(N,./"*<+<<+%@(%@"*7(&&*,B."+"?*)&(%@"6*%'<+6'" +%7"5<*<+('%@"+<.9)%7("%"+66*7+6." I('?'6+15)&"?*)&(%@"5*,(6(.&i"
- f m(1('@"+"(%7(B(7)+,"*<"*%<+%+(d+'(*%A&"+66.&&"*"6.<+'(% 0*,,.@"9+6,(('.&"*<'+6'(B('.& 5.%7(%@"<.&*,)')(*%"*9"?." 1+'.'<i"
- f - *,)%'+<2",.+B."*9"+N&.%6.i"
- f G<*B(7(%@"+"%".&6*%<'""*"%&)<.&+9." 1*B. 1.%"N.' I..%6,+&&.&"+%7"+6'(B('.&i"
- f G<*B(7(%@"+6+7. 1(6&)&55*%<'&&.<B(6.&/'&)6?"+&'') '*<(%@i"
- f \$%'<(1"&)&5.%&(*%"*%<0*,,.@".(15*&.7",.+B.i"
- f H%2"*'?.<.<. 1.72"'?+"6+%N.""+(*<.7""*"?."(%B*,B.7"(7(B(7)+,&""*%<.+&*%+N,2"+6?<(.B."?." @*+,&*9"?&'G*,(62a"

'1#%. "0 &)+/ <1/"31&3.&)%<,,,#"31&

\$9"'?. 0*,,.@"7.'. <1(%.&""?+"""?."6*%7)6'/'&"+,,.@"7/"5*&.&"+5?2&(6+,&+9.'2"<(&Y""*%*%."*%< 1*%<.&')7.%&'&/'*%<'""*"'?. 0*,,.@"A&".7)6+'(*%+,". %B(<*% 1.%'/'"?." 0*,,.@" 1+2"&)&5.%7"'?.<.&5*%7.%'/' *%"+%("%'<(1"N&(&/'9<* 1""?." 0*,,.@"/'9<* 1<.&7.%6."?+,,&/'*%<9<* 1"&5.6(9(6'5<*<+ 1"&"*%<+6'(B('.&a" H%2"&)6?"+&&.& &1.%"" I(,"N." 1+7."*%"+6+&.:N2:6+&."N&(&/'N&.&7"*%"+%("%7(B(7)+,(d.7"&+9.'2"+%7" B(*,.%6."<(&Y"+%+2&(&a"\$9"'?. 0*,,.@"7.'. <1(%.&""?+"""?."(1 1.7(+."5?2&(6+,"?<+""*""?."?<+,"?*"< &+9.'2"*9&')7.%&'&""*%<'?.<.&b)&'9(.&<. 1*B+/'"?.%""?."<.&5*%7.%"" 1+2"N."&)&5.%7.7"*%"+%("%'<(1" N+&(&a">?.7.6(&(*%"*7*%&* I(,"N."5<*B(7.7""*""?."<.&5*%7.%"" I<'(%@a""

H'&')7.%""<.&5*%7.%"" I(,"?+B."+%*55*%<')%('2"*6?+,,.@"."?."7.6(&(*%"(1 1.7(+."2"9*,,* I(%@" '?."(%'<(1"&)&5.%&(*%a">*6?+,,.@"."?."&)&5.%&(*%/'"?."<.&5*%7.%""&?*)7"6*%'+6""?." ;.+%"*9" J')7.%&'U99(6." I('?'("?"<." \S]N)&(%.&&'7+2&'"" 1.. " I('?'?." ;.+%"*9" J')7.%&'&'<7.&(@%..)] I?'* I(,"<.B. I'?'?."+55.+,"*7.'. <1(%." I?'?."<'?."7.6(&(*%""*5)""?."<.&5*%7.%""*%("%'<(1" &)&5.%&(*% I+&"+N('<+<2"*<"6+5<(6*)&a" H'7.6(&(*%("&"+N('<+<2"+%7"6+5<(6*)& I?'<."?<."(&"*% <+'(*%+,"6*%%.6'(*%N.' I..%""?."9+6'&5<.&.%'.7"+%7""?."7.6(&(*% 1+7.a">?."<.&5*%7.%"" I(,"<. 1+("% *%("%'<(1"&)&5.%&(*% I?(,"?."+55.+,"(&5.%7(%@a">?."<.&5*%7.%"" I(,"N."%*(9(.7("% I<'(%@"*9" '?."*)'6* 1."*9"?."+55.+,"a">?."7.6(&(*%""*5,+6."+2"<.&5*%7.%""*%"+%("%'<(1"&)&5.%&(*% I(,"%*" N."6*%&(7.<.7+&".B(7.6."?+""+2"7.'. <1(%+'(*%?+&N."% 1+7.<.@+<7(%@"5*'.'(+,<.&5*%&(N(,'2a""

G<*B(&(*%&"9*%<)&5.%&(*% "9+6), '2" 1. 1N.<&"+<."6*%'+(% .7("%'?"L+6), '2"O+%7N*%Y"+%7" 8>>" L+6), '2"0*,,.6'(B."Z+<+@(%@"H@<.. 1.%"" I?<."+55,(6+N,.]a"J'+99" 1+2"N."5,+6.7"*%".,+B."+"?." 7(&6<.'(*%"*9"'?. 0*,,.@"/'+"%7("%Y..5(%@" I('?"+55,(6+N,. "6*,,.6'(B."N+<+@(%@"+@<.. 1.%'&a"

B.,.%&,17&)+<<3.#&;%/3+.6%/&3.&B30<\$,"1,1#/'&,17&;%/<317%1#/'&

>?. 0*,,.@"(&6* 1 1('.'7""*%<.+('%@+,, 1. 1N.<&"*9"?."6* 1 1)%('2" I('?'7(@%('2/"6+<./"+%7"<.&5.6'a" H%2"&')7.%"" I?'* .45.<(%6.&"*% (&"+99.6'.7" N2" B(*,+(*%&)%7.<"?'(&"G*,(62/" I?'?<.&"+ 6* 15,+(%+%/'"+<.&5*%7.%'/'*%<+"?'<7:5+<2/" I(,"?+B." .X)+,+66.&&"*"&)&55*%<'"+%7"6*)%&.,(%@" &<B(6.&""<*)@?"?." 0*,,.@"a"

>?. 0*,,.@" &'<*%@,2" .%6*%<+@.& ("7(B(7)+,&"*" <.5*%<' G<*?(N('7" 0*%7)6'a" >?. 0*,,.@" <.6*%@(d.&/'?*" I.B.</'?'+"?."7.6(&(*%""*%<.5*%<' G<*?(N('7" 0*%7)6'" \'"*""?." 0*,,.@" +%7g*%<"+ I" .%9*%<6. 1.%"]6+%N."7(99(6), 'a">?. 0*,,.@" &'<*%@,2" .%6*%<+@.& ("7(B(7)+,&" I?'*%<."6*%&(7.<(%@"

I ? . ' ? . < " * " < . 5 * < " G < * ? (N (' . 7 " 0 * % 7) 6 " " * & . . Y " ' ? . " &) 5 5 * < " * 9 " 6 * % 9 (7 . % ' (+ , " 6 + 1 5) & " + % 7 " 6 * 1 1) % (' 2 " < . & *) < 6 . & / " , (& ' . 7 " N . , * I a " > ? . & . " ' < + (% . 7 " 5 < * 9 . & & (* % + , & " 6 + % " 5 < * B (7 . " @) (7 + % 6 . " (% " 1 + Y (% @ " 7 . 6 (& (* % & / " (% 9 * < 1 + ' (* % " + N *) " + B + (, + N , . " < . & *) < 6 . & + % 7 " 5 < * 6 . 7) < + , * 5 ' (* % & / " + % 7 " + & & (& ' + % 6 . " * " . (' ? . < " 5 + < ' 2 " (% " ' ? . " . B . % " ' ? + " " < . 5 * < " + % 7 g * < " < . & * ,) ' (* % ") % 7 . < " ' ? (& " G * , (6 2 " (& " 5) < &) . 7 a " > ? . & . " < . & *) < 6 . & " + < . " + B + (, + N , . " < . @ + < 7 , . & & " * 9 " I ? . % " * < " I ? . < . " " ? . " (% 6 (7 . % " * 6 6) < < . 7 a " " "

> ? . < . " + < . " 1 + % 2 " < . & *) < 6 . & " + B + (, + N , . " * % " 6 + 1 5) & " + % 7 " (% " ' ? . " &) < < *) % 7 (% @ " 6 * 1 1) % (' 2 a " H & " 7 . ' + (, . 7 " N . , * I / " ' ? . < . " + < . " 0 * % 9 (7 . % ' (+ , " C . & *) < 6 . & / " I ? (6 ? " N 2 " , + I " 6 + % % * " & ? + < . " (% 9 * < 1 + ' (* % " I (' ? *) " ' ? . " 6 * % & . % " * 9 " ' ? . " (% 7 (B (7) + , & . . Y (% @ " + & & (& ' + % 6 . " \ (% " 1 * & " 6 (< 6) 1 & ' + % 6 . &] a " > ? . < . " + < . " + , & * " + " B + < (. ' 2 " * 9 " 0 * , . @ . " < . & *) < 6 . & " ' ? + " I (, , N . " 7 (& 6 < . . " + % 7 " 5 < (B + ' . " N) " " + < . " % * " 6 * % & (7 . < . 7 " 6 * % 9 (7 . % ' (+ , a " > ? . & . " < . & *) < 6 . & " I (, , 1 + (% ' + (% " " ? . " 5 < (B + 6 2 " * 9 " + % (% 7 (B (7) + , A & " (% 9 * < 1 + ' (* % " I (' ? (% " " ? . " , (1 (' . 7 " 6 (< 6 , . " * 9 " ? * & . " (% B * , B . 7 " (% " " ? . " < . & * ,) ' (* % " * 9 " + " 6 * 1 5 , + (% ") % 7 . < " " ? (& " G * , (6 2 a " "

B31>7%1#", \$k ; %/3+.6%/&N23145 %7"6, \$0k

> ? . " 0 * , . @ . " & ' < * % @ , 2 " . % 6 *) < + @ . & " + , " 6 * 1 1) % (' 2 " 1 . 1 N . < & " * " 1 + Y . " + 5 < * 1 5 " < . 5 * < " * 9 " + % 2 " (% 6 (7 . % " * 9 " G < * ? (N (' . 7 " 0 * % 7) 6 " " * , * 6 + , " + I " . % 9 * < 6 . 1 . % " + % 7 " ' ? . " 0 * , . @ . a " L * < " (% 7 (B (7) + , & " I ? * " + < . " % * " "

R3.%1/"6&%, 0"1,#"31/D" j)+, (9(.7"5<*B(7.<&"6+%5<*B(7."+"9*%<.%&(6".4+1(%+'(*%a">?. "9*%<.%&(6"
1.7(6+,".4+1"?+&"I*"@*+,&V"9(<&'/"I*"7(+@%*&."+%7"<+'??. "9),,".4'.%'"*9"+%2"(%b)<2"*<5?2&(6+,"
.99.6""\(%6,)7(%@"5<.B.%'(*%*"9" &.4)+,,2" '<+%&1(''.7" (,%.&&.&"+%7"5<.@%+%62]" +%7" &.6*%7/" '*"
5<*5.<2"6*,,.6"+%7"5<.&.<B." .B(7.%6.a">?<.&"+,(1('7" I(%7*I" *9"(1." \I('?(% "[K" ?*)<&]"
9*,,* I(%@"+%("%6(7.%'"*9"&.4)+,"&&+), ""*5<.&.<B."5?2&(6+,"+%7"*?<."9*%<1&"*9".B(7.%6."/"+,'?*)@?"
(' 1+2"N."5*%&&(N,. "I*" *N'+(%".B(7.%6."9<*1" '* I .,&/"&?..'&/"6,*'?.&/" +%7"*'?<(' 1&"9*%<," *%@<."
5.<(*7&"*9"(1 .a\$'("&"N.&'""*@"+'?<".B(7.%6."5<(*<"* I +&?(%@"+5.<&*%A&"N*72"*<6?+%@(%@"6,*'?(%@"
\$9"6,*'?.&"?+B."N..%6?+%@.7/"?'."6,*'?.& I *%<+"+'?."(1."*9"?'."(%6(7.%'"&?*) ,7"N."N<*)@?"'""*"?."
.4+1(%+'(*%("+"6, .+%/"&+%(' +<2"6*%' +(%<.&)6?'+&"+5+5.<N+@"*%< I +&55.7"(%+"6, .+%&?..'a" ; *%*%'"
)&." +5,+&'(6"N+@V"5,+&'(6"6*%' +(%<.&7*%*"N<.'?." +%7" 1+2"<.%7.<".B(7.%6.")&., .&&a"H"6?+%@." *9"
6,*'?(%@"&?*) ,7"+,&*N."N<*)@?"'""*"?."?*&5(+,"+&"?'."6,*'?.& I *%<+"+'?."(1."*9"?'."(%6(7.%'" I (,,"
,(Y.,2"N."Y.5""+&".B(7.%6.a">+Y(%@"'?'."&'.5&'""*@"+'?<".B(7.%6."(1 1.7(+'.2"7*.&"*%*"6* 1 1 ("+"%
(%7(B(7)+," '*"+%2"5+<'(6),+<"6*)<&."*9"+6'(*%a">?. "7.6(&(*%*" '*"&..Y"(1.,2" 1.7(6+,"+'.'%('*%"+%7"
@+'?<+%2".B(7.%6."

J+% '+' Q*%(6+/'0+(9*<%(+" [R=R=""
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#=#]"#F[:M#RP"\#=:?*)<"?'*(%.)"

I77"#31,\$A14B,0<+/'S&A>4B,0<+/' ;%/3+.6%/k

U66(7.% '+,"6* 1 1)%('2" 1 . 1 N.<&"?+B."+66.&&"*"+B+(<.'2"*9"<.&*)<6.&"5<*B(7.7"N2""?."0*,,. @.a"H,,
%:6+ 15)&" <.5<'(%@" *5'(*%&" ,(&'.7" +N*B." ?+B." &'+99" 1 . 1 N.<&" '<+(% .7" '*" &)55*<' (" %7(B(7)+,&"

O(\$.('\$L!8#!G\$:87- &'8, !O?&'8, :!

>?. "0*,,. @. "(6* 1 1 ('. 7"*5<*B(7(%@"+5<* 1 5"/"?'*<*)@?/" .X)('N, ./+%7"(1 5+<(+, <.&*,) '(%"*9
+,, <.5* <'7" B(*, +('%"&" *9" '?(&" G*, (62a" >?. " 0*,,. @. ")&. &" ' I* 5<*6. &&. &" *' <.&*B. " <.5* <'&" *9
G<*?(N(' .7" 0*%7)6'")%7. <'?(&" G*, (62V" ; (&6(5, (%+<2" C. &*,) '(%" /" I ?(6?" (%B*, B. &" +%" (%B. &'(@+'(%"
+%7"+7b)7(6+'(%" /"+%7"(9"+55<*5<(+'. /"?' . "(1 5* &'(%" *9"&+%6'(%"& /"+%7"H7+5+N, . "C. &*,) '(%" /" I ?(6?"
(%6,) 7. &" <.&* <+'(B. " *5'(%%"&" 9* <'<.&*B(%@" <.5* <'&a" >?. " 0(B, "C(@?'&" D" >(', . "\$E" 0**<7(%+ '*<" I (, "
7. ' .<1 (%. " ' ? . "+55<*5<(+'. " <.&*,) '(%" *5<*6. &&" +9' .< 1+Y(%@" +%" (%('(+, +&&. && 1 . %'" *9"?' . " <.5* <'7"
(%9* <1+'(%" /" 6*%&(7. <(%@" '?' . "&'+' .7" (%. ' .<.&'&" *9" '?' . " 5+<(' .& /" 6+ 1 5)&" &+9. '2"/" +%7" '?' . " 0*,,. @. A&"
*N, (@+'(%" *9" 1+(%+'(%+"% . %B(<*% 1 . %'" 9<. " 9<* 1"?' +<+&& 1 . %'" +%7"7(&6<(1 (%+'(%a"
"

>?. "5<*6. &&. &")%7. <"?'(&" G*, (62"+<. "&. 5+<+' . "+%7"7(&'(%6"9<* 1 " 0+, (9* <%(+A&" 6<(1 (%+, "5<*6. 7) <.&a"
G<*6. . 7(%&")%7. <'?(&" G*, (62" 1+2"N. "6+<<(.7"*)"5<(*<"*/"&(1), '+% . *)&, 2" I ('?/"*<"9*,, * I (%@"6(B, "
* <'6<(1 (%+, "5<*6. . 7(%&" *99:6+ 1 5)&a" 8. ('? .<+7. 6(&(%%"N2", +I . %9* <6. 1 . %'" <. @+<7(%@"5<* &. 6)'(%"
%* <' '?' . " *)'6* 1 . " *9" +%2" 6<(1 (%+, " 5<*6. . 7(%@" I (, " N. " 6*%&(7. <.7" 7. ' .<1 (%+'(B. " *9" I ?.'?' .<' +"
B(*, +'(%" *9"?'(&" G*, (62"*66)<<. 7a"

'1"#, \$I//%/0%1#&

H9' .<'<. 6. (B(%@" +<.5* <' *9" G<*?(N(' .7" 0*%7)6"/" '?' . " 0(B, "C(@?'&" D" >(', . "\$E" U99(6. " I (, "@+'? .<"
(%9* <1+'(%" +N*)' "'? . " <.5* <'7" 6*%7)6'" +%7" <. &5*%7" *'"+%2" (1 1 .7(+'. " ? . +, '?' * <'&+9. '2" 6*%6. <%&"
<+(&. 7"N2"?' . " <.5* <'a" >?. " 0(B, "C(@?'&" D" >(', . "\$E" U99(6. " I (, "+&&. &&"?' . " 6* 1 5, +%" +%" A&" &+9. '2" +%7"
I ., :. N. (%@" *99. <'?' . " 0*,,. @. A&" (1 1 .7(+'. "&)55* <'"+%7" +&&(&' +%6. /" +%7" +&&. &&" '?' . %+')<. " +%7"
6<6) 1 &' +%6. &" *9"?' . " <.5* <' *7. ' .<1 (%. " I ?.'?' .<'?' . " <.5* <'7" 6*%7)6'" <+(&. &+"5* . %'(+, G*, (62"
B(*, +'(%" /" I ?.'?' .<'?' . " <.5* <'7" 6*%7)6'" (&" I ('?(%"?' . " &6*5. " *9"?'(&" G*, (62"/" +%7" '?' . "+55<*5<(+'. "
1 +% . % .<' *9<.&*,) '(%")%7. <'?(&" G*, (62a"

>?. "0(B, "C(@?'&" D" >(', . "\$E" U99(6. " I (, "5<*B(7. *)' <.+6?" *' . +6?" (7. %'(9+N, "6* 1 5, +(%+" *'?' +'" (&"
+,,. @. 7" *'?' +B. " .45. <(. %6. 7" 1 (&6*%7)6'a" >?. " *)' <.+6?" I (, "(%6,) 7. " ? . " 9*,, * I (%@" (%9* <1+'(%" V"

'? . "0*,,. @. " ? +&" <. 6. (B. 7" +<.5* <' *'?' +'" ? . 2" 1+2" ? +B. " .45. <(. %6. 7" 1 (&6*%7)6'i"

<. '+, (+'(%%" 9* <' 9(, (%@" + " 6* 1 5, +(%" * <' 5+<'(6(5+'(%@" (%" + " 6* 1 5, +(%" 5<*6. && /" * <' N*?' /" (&"
5<*?(N(' .7i"

'? . "6*)%&. (%@" <.&*) <6. &' +B(+, +N, . " +'" ? . " 0*,,. @. " * <'(%"?' . " 6* 1 1)%('2i"

'? +/" I ?.'?' + " 6<(1 . " 1+2" ? +B. " *66)<<. 7"/" ? . 2" ? +B. " ? . " <(@?' *' <.5* <' '?' . " 1+' .<' *' , + I "
. %9* <6. 1 . %' i"

'? . "<(@?' *' & . . Y" 1 .7(6+, "'< . + ' 1 . %' i"

'? . "0*,,. @. A&" (%B. &'(@+'(%" 5<*6. 7) <.&i"

5* . %'(+, (%' .<(1 " 1 . +&) <.&" ? +'" +<. " +B(+, +N, . i"

'? . "(1 5* <' +%6. " *9" 5<. & . <B(%@" . B(7. %6. i"

+<. X) . &' *9* <' ? . " 6* 1 5, +(%+" *' " 1 . . " I ('?' ? . " 0(B, "C(@?'&" D" >(', . "\$E" U99(6. " *' 7(&6) &&"
5'(%%"&" 9 <'<. &5*%7(%@" *' ? . " <.5* <' i"

'? . "<(@?' *' *N. " +66* 1 5+%(. 7"N2" +% +7B(&* <' *9" 6?*(6. i" +%7"

'?." I+2" '?." 0*,,.@." <.&5*%7&" '*<.5*%'&" *9" 1 (&6*%7)6'" +%7" +" 7.&6<5'(%%" *9" 5*'.%'(+," 7(&6(5,(%+<2"6*%&.X) .%6.&a"

H&5+<"*9"?'."('(+,"+&&. && 1 .%'/'?'." 0(B("C(@?'&"D">('," \$E"U99(6. " I(,"V"

f +&&. &&"'?'."%+'<." +%7"6(<6) 1 &' +%6.&"*9"?'." <.5*%'i"

f +77<.&&"(1 1 .7(+'. "5?2&(6+,"&+9. '2"+%7" . 1 *'(%%+," I .,,:N.(%@i"

f 6* 1 1)%(6+'."% .6.&&+<2"7. '+(&"*9"?'." <.5*%'0+15)&" J+9. '2"*' .%' .<'?'." <.5*%'(%'"?'." 0*,,.@.A&'7+(,2"6<(1 .," *@(9"<.X)(<.7"N2"?'." 0,.<2"H6'i"

f 5<*B(7. " '?'." 6* 15,(+%+%'" I('?' +%" .45,(+%+'(%%" *9" '?'." 5<*6.7)<+," *5'(%&/' (%6,)7(%@ ; (&6(5,(%+<2"C.&*,)')(%%+%7"H7+5'+N,."C.&*,)')(%%i"

f 7(&6)&&" '?'." 6* 15,(+%+% 'A&" 5<.9.<.%6. " 9*%' 1 +%%.<" *9' <.&*,)')(%%+%7" +%2" N+<<(<.&" '* 5<*6..7(%@i"

f 7(&6)&&"'?'." 5<*6. &&"9*%'<9(,%@+"9*%'<1 +,"6* 15,(+'i"

f +&&. &&"9*%'<+%2"5+'.' <%%"*9"6*%7)6'"N2"?'." <.&5*%7. %'i"+%7"

f 7. ' .<1 (%. "+@. "*9"?'." 6* 15,(+%+% 'i"+%7)"9"?'." 6* 15,(+%+% "(&+" 1 (%*%'<+" I +&+" 1 (%*%'<+" '?'." '(1. " *9" '?'." +,,.@.7" G<*?(N('7" 0*%7)6'/" 1+Y. " '?'." +55<*5<(+'.' %*'(9(6+'(%&" '*" &+'.' +@.%6(. &a"

"

H%2" J)55*%'(B. " Q. +&)<.&"5)" (%"5,+6. " I(,"N. "Y.5"5<(B+'./" .46.5"'*"'?'." .4'. %'"?'+"7*(%@"&* (15+(<&"?'." +N(,'2"*9"?'."(%&'(')'(%%"*5<*B(7. "'?'."&)"55*%'(B. " 1 .+&)<.&a"L*%'<.4+15,./'"*".99.6')+'.' + '?'*)&(%@"6?+%@./" &'+99" +' "C.&(7. %'(+," 37)6+'(%%+%7"O*)&(%@" J.<B(6.&" I(,"N. "(%9*%'<1 .7"*9"?'." %..7"'*"+&&(&"' I('?'+"?*)&(%@"6?+%@." +&"7(<.6'.7"N2"?'." 0(B("C(@?'&"D">('," \$E"0**<7(%+'*%'<N)" I(,"%*"N. "5<*B(7.7" I('?'+"%2"*9"?'."7. '+(&"*9"+%2"6* 15,(+'a" c ?.%"?'." 0(B("C(@?'&"D">('," \$E" 0**<7(%+'*%'<7.6(7.&"*'"(%('+'.' "+%)"(B.&'(@+'(%%/"(15*&."(%' .<(1"5<*'.6'(B. " 1 .+&)<.&/'*%'<"+Y. "+%2" *'?'<+'6'(%%"?'+'(15+6'&+"<.&5*%7. %'/'?'." 0(B("C(@?'&"D">('," \$E"0**<7(%+'*%'< I(," +,&*'.%&)<." '?+'*"'?'." <.&5*%7. %'"(&"*'(9(.7"+%7"<.6.(B.&" I<('.' %"(9*%'<1 +'(%%"*%"+B+(, +N,." <.&*)<6.&+%7"*5'(%&a"

"

H"'?'." 6*%6,) &(%%"*9"?'.

"

f 0,*&."?<.5*<" I('??."*5'(*%""*<.:*5.%"('+"+%*?'<.(1."(9"?."6*15,+(%+%'"<.X).&'&
<.&*,)')(*%""*<(9"?."0*,,@."&)N&.X).%,'2'7.'.<1(%.&"?<."(&+"%..7"*9)<'?<.(%B.&'(@+'.'
'?."+,,.@.7"1 (&6*%7)6'a"

R3.0, \$B30 <\$, #1/Pk = "/0"//, \$/k, 17&I <<%, \$/k3>k = "/0"//, \$/k

H"9* < 1+, "6* 15, +(%"9* < 5)<5* &. &"9"? (&"G*, (62"(&+"7*6) 1 . %"9(. 7"N2"+"6* 15, +(%+% ""* < &(@. 7"N2"
'?. "0(B, ("C(@?'&"D">(', ."\$E"0**<7(%+'* <"+, . @(%@>(<."\$E"J.4)+, "O+<+&&1.%"+"%7"<.X). &'(%@"?'+"
'?. "0*,, @. (%B.&'(@+'.'?'."+,,. @+'(%a"H"9* < 1+, "6* 15, +(%+" 1+2"N. "9(. 7"+"%2"(1. "N2")&(%@"?." 9* < 1" 5<*B(7.7" + " ?'5&Vgg I I I a*42a.7)g&.4)+, :<. &5.6':('.:4a H"9* < 1" 1+2" N. " &)N1 ('.7" N2"
7<*55(%@"('"99" + ""?'." 0(B, ("C(@?'&"D">(', ."\$E"U99(6./"N2" . 1+(, /" * < "N2" 1+(, a" W5*%" < .6.(5""*9" +
6* 15, +(%/"'?'." 0(B, ("C(@?'&"D">(', ."\$E"0**<7(%+'* < " I(, "6*%' +6""?'." 6* 15, +(%+% ""' * "6*%7)6"" +"
(%'+Y. "(%'<B. I a" c ?.%"+ "6* 15, +(%+% ""&)N1 (&+"9* < 1+, "6* 15, +(%/"'?'." 0(B, ("C(@?'&"D">(', ."\$E"
0**<7(%+'* < " I(, "9(<&"5<* 15', 2'7.'. < 1(%." I?'.'?<V"

- f '?. "6*%7)6""+, .@. 7" I *), 7/"(9"5<*B.7/"6*%&'(')'. ">(<."\$E"J.4)+, "O+<+&&1.%"i"
- f '?. "6*%7)6""+, .@. 7"*66)<<.7"(%""?'."0*,, @.A&".7)6+'(*%5<*@<+1 " * <"+6'(B('2i"
- f '?. "6*%7)6""+, .@. 7"*66)<<.7"(%""?'."W%('.7"J'+'.&i"
- f '?. "6*%7)6""+, .@. 7"*66)<<.7"*%""* <"+9'. <"H)@)&'!="/#R#Ri"+%7"
- f '?. "6* 15, +(%+% ""(&"5+<(6(5+'(%@"(%"* <"+'. 15'(%@"*5+<(6(5+'."(%""?'."0*,, @.A&".7)6+'(*%5<*@<+1 " * <"+6'(B('2"+"""?'."(1."?"."6* 15, +(%/"(&"9(. 7a"

"
\$9"?."9* < 1+, "6* 15, +(%""&+(&9(.&+, , "9""?&." ., . 1. %'&'(" I(, "N. "(%B.&'(@+'.'7"+"7"<.&*, B.7"+&+">(<."\$E"J.4)+, "O+<+&&1.%"1+'<""?<*)@?""?'."5<*6.7)<.&"*'), (%.7"(%H55.%7(4)Ha"\$9"('"+55. +<&"N+&.7")5*%"('(+<.B. I " * <")5*%"(%9* < 1+'(*%@"+'?'<.7"7)<(%@"+%)(%B.&'(@+'(*%""?'+"+"9* < 1+, "6* 15, +(%""7* .&"%""&+(&92"+%7g* < "%*", %%@.<"&+(&9(.&"+, , "'?&." ., . 1. %'&'(" ?."0*,, @. " I(, "7(&1 (&&"?'."9* < 1+, "6* 15, +(%""9* < 5)<5* &.&"*9"?.">(<."\$E"J.4)+, "O+<+&&1.%"5<*6.&&a">?."

R3.0, \$B30 < \$, "1#/#" F1%7& : @&B"C"\$& ; "F9#/#S&! "#\$%&' (&B33.7"1, #3.&

\$% "6+&.&" I?<." (" +55.<&"N+&.7" *%"+%" (%('(+,"<.5*("&?'+"?." .. 1.%'&'&'+.7" +N*B." I*),7" N." &+'(&9(.7/"N)"'?" .6* 15,+(%+% "'7* .&"%*" " I (&?"*9(. "+9* < 1+, "6* 15,+(%/'/"? ."0(B("C(@?'&"D">(',." \$E" 0**<7(%+'*<" 1+2/"(%"?<."7(&6<.'(*%/"7.6(7. "'*&(@%"+"6* 15,+(% "'*9" >(',." \$E" J.4)+, "O+<+&& 1.% "'+%7" (%('+' . "+%"(%B.&'(@+'(*%"+%7"<.&*,) '(*% "5<*6.&&")%7.<"? ."5<*6.&&*"') ,(% .7"N., * I a"\$9"?'(&"*66)<&/"? ." 0(B("C(@?'&"D"D">(',." \$E" 0**<7(%+'*<" I (,,"%*" "N."+"6* 15,+(%+% "'*<*?"< I (&."+"5+<2""*?" . " 1+' .<a" H77('(*%+, ,2/"(9"+"9* < 1+, "6* 15,+(% "'(&"7(& 1 (&&.7"+&"7.&6<(N.7"+N*B."N.6+)&." ("7* .&"%*" "9(" I ('?("% '?" .7.9(%('(*% " *9" >(',." \$E" J.4)+, "O+<+&& 1.% "/ N)" '?" . "0(B(" C(@?'&" D" >(',." \$E" 0**<7(%+'*<" 7.'<1 (%.&"?'+"?' ." +, . @+'(*%&" *9"?' ." 6* 15,+(% "' 1+2" 6*%&'(') . " " 8*% :>(',." \$E" Q(&6*%7)6'/"?' ." 0(B("C(@?'&"D"D">(',." \$E" 0**<7(%+'*<" 1+2"\)5*%""? ."<.&*,) '(*%*"9/" +07""*""? ." .4.% "6*%&(&' .% " I ('?'?' ."<.&), "'*9/" +%2"+55.+ , "*9" &)6?"7(& 1 (&&+,]/" +77<.&&"?' ." +, . @.7" 8*% :>(',." \$E" Q(&6*%7)6' ?<*)@?'?' ."7(&6(5,(%+<2"<.&*,) '(*% "5<*6.7)<.&*"') ,(% .7"(% "H55.%7(4"Z"*<"H55.%7(4"0a""

; %G+%/#/#>3.&B31>7%1#", \$#@P&23#&' 1C%/#F, #%P&3.&23#&=" /6"<\$"1%&

H"6* 15,+(%+% "' 1+2"<.X) .&"'?'+"?'?<."%+ 1 ." *<"*?"<."5.<&*%+, ,2" (7.% '(9(+N, ." (%9* < 1+'(*% "%*" "N." &?+<.7" I ('?'+"<.&5*%7.% '/'?'+"%*" (%B.&'(@+'(*% "N."5)<&).7/"*<"?'+"%*"7(&6(5,(%+<2"+6'(*% "N." "+Y.% a" \$%"?'&." (%&' +%6.&/"N.9*<." "+Y(%@" +%2"9)<'?'<."(%B.&'(@+'(B."&' .5&/"+" 1 . 1 N.<"*9"?' ."0(B("C(@?'&"D" >(',." \$E" U99(6." I (,,"7(&6)&&" +%2" 6*%6.<%&" I ('?'?' ."6* 15,+(%+% "' +%7"& . .Y""*"+77<.&&" +%7"<. 1.72" N+<<(<&"* "<.5*<'(%@" +%7g* < "5+<'(6(5+'(*% "N+&.7")5*% "6*%6.<%&" +N*) ""<.'+, (+'(*% " *<"*?'<." ,+6Y" *9" 6,+<(2"(%)"%7.<&' +%7(%@"5<*6.7)<," +%" +%7"& . .2(%7") - 143 c mBT [(N+)0.(") - 61.9(+)0.2(%7") - 61.9(<.)0.2

"

>?."0(B("C(@?'&"D">(',\$E"0**<7(%+'*<" I(,"6**&(7.<" I ?+'&' .5&" 1+2"N."5**&&(N,."* "<+55<*5<(+.' I ?.'%"+<.&5**%7.%'"(&)"%Y%* I %"*<"'?. "6* 15,(+%+%'"<.X).&'&"+%*%2 1('2"/+%7" I ?+'*"?.<" 1 .+&)<.&* "<. 1 .7(&" 1 (@?' "N."6**&(7.<.7" '*"+77<.&&" +%2".99.6'&"*9"'?. "<.5* "<.7"N. ?+B(*<"*% "'?. "6+ 15)&" 6* 1 1)%('2a">?."0(B("C(@?'&"D">(',\$E"0**<7(%+'*<" I(," 1+Y." +7.'.<1 (%+'(*% "<.@+<7(%@"'?. " +55<*5<(+.' 1+%%.<"*9"<.&* ,)'(*%)"%7.<"'?. "5* ,(62a">?."0* ,,.@." I(,"&..Y"<.&* ,)'(*%)"6**&(&' .%" I ('? " ?."6* 15,(+%+% 'A&"<.X).&'/'(9"('(&"5**&&(N,."**"7**&*/N&.7")5**% "'?. "9+6'&" +%7"6(<6) 1 &' +%6.&' I ?(,." +,&*5<*'.6'(%@"'?. " ?.+,'?"+%7"&+9.'2"*9"'?. "6* 15,(+%+% "'+%7"'?. "0* ,,.@."6* 1 1)%('2a"

"

>?."0* ,,.@."A&"+N(,'2"*"(%B.&'(@+'."+%7"<.&5**%7'9) ,.2"*"+<.5* "<" 1+2"N.",(1 ('.7"(9"'?. "6* 15,(+%+% "<.X).&'&"+%*%2 1('2" * "<7.6,(%.&" '*" 5+<(6(5+".' (% "+%)" (%B.&'(@+'(*%a">?." 0* ,,.@." I(,/" ?* I .B.</" 5)<&)." *"?.<" &' .5&" '*" ,(1 (" ' ?." .99.6'&"*9"'?. " 5* .%'(+," G<*?(N(' .7" 0**%7)6" "+%7" 5<.B."%'" (&" <.6)<<.%6.a"\$%"+,,"6&.&'/?."9(%+,"7.6(&(*%*" I ?.'?.</" ?* I /"+%7" '*" I ?+" .4.'% "'?." 0* ,,.@." I(," 6**%7)6" "+%)" (%B.&'(@+'(*%"+%7" I ?.'?.<"*"?.<(%' .<(1 "<. 1 .7(+,"* "<5<*'.6'(B." 1 .+&)<.&" I(,"N." "+Y.%" (% "6**% .6'(*%)" I ('?"+<.5* "<"*9"G<*?(N(' .7" 0**%7)6" I(,"N." 1+7."(% "+ 1+%%.<"6**&(&' .%" I ('?""?(&" G* ,(62a"

"

c ?.<."?'."0(B("C(@?'&"D">(',\$E"0**<7(%+'*<7.'.<1 (%.&"' ?+" +6* 15,(+%+% 'A&"<.X).&'&]6+% "N." ?*%*<.7"/' ?." 0* ,,.@." 1+2" % .B.<'?.,.&&" '+Y." *"?.<"+55<*5<(+.' &' .5&" '*" .,(1 (%+'.' ?? "<.5* "<.7" 6**%7)6"/" 5<.B."%'" ('&"<.6)<<.%6."/ "+%7" <. 1 .72" ('&" .99.6'&" *% "'?. " 6* 15,(+%+% "'+%7" '?." 0* ,,.@." 6* 1 1)%('2a">?*&.&' .5&" 1+2"(%6),7."(%6<.+&.7" 1 *%('*<(%@"&)5.<B(&(*%/"* "<.6)<('2"+,"*6+'(*%&" * "<"+6'(B('.&" I ?.<."?' ."+, ,. @.7" 1 (&6**%7)6"*66)<<.7i"5<*B(7(%@"+77('(*%+,"<+(%@"+%"7" .7)6+'(*% " 1+'.<(+,&"9* "< &')7.% '&" +%7" . 15,*2..&i" * "<6**%7)6'(%@"6,(1+' .&)<B.2&"<.@+<7(%@"&.4)+,"B(*, .%6.a" >?." 0* ,,.@." I(," +,&*"+Y."(1 1 .7(+." &' .5&" *% "5<*B(7."9* "<' ?."&+9.'2"*9"'?. "6* 15,(+%+% "' I ?(,." Y..5(%@"'?. "6* 15,(+%+% 'A&"(7.'('2"6**%9(7.%'+,"&"+55<*5<(+.' a">?.&."&' .5&" 1+2"(%6),7."6?+%@(%@" , (B(%@"+<<+@. 1 .%'&"* "<6*)<&."&6? .7),.&/' +&&(@% 1 .%'&/' * "<' .&'&a">?."6* 15,(+%+% "' I(,"N."%*(9(.7" '?+"?' .&' .5&" *% "'?. "0* ,,.@." I(," "+Y." * "<.&5**%7" *% "'?. "6* 15,(+%+% "' I(,"N.",(1 ('.7"N2"'?. "<.X).&'9* "<6**%9(7.%'+,('2a">?."0(B("C(@?'&"D">(',\$E"0**<7(%+'*<1+2"+,&* "<.X).&' "' ?+" +<.5* "<"N."<. *5.% .7" +%7"5)<&).7)"%7.<"'?(&"G* ,(62"9"+%2"% . I " * "<"+77('(*%+,"(%9* "<1+'(*% "N.6* 1 .&"+B(+,"N,./"+%7g* "<9" '?."6* 15,(+%+% "'7.6(7.&"' ?+" "'? .2" I *),7" ,(Y." ; (&6(5,(% +<2"C.&* ,)'(*% "' *%66)<a"

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- f >?. "7+'."+%7",*6+'(*%\ (9"Y%* I %]"*9"'?."6*%7)6"'?+"(&"+,,.@.7"'*"+B."*66)<<.7i"
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+,,. @+'(*%&'?'+'+"5.<&*%?'+&'N..%&)&Nb.6'. 7""*8*%:>(<.. "\$E" Q(&6*%7)6'"N2"+"&')7.%'"(%B(*,+(*%
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\$9"!]"'?'." 0(B("C@?'&"D">(<,'. "\$E" 0**<7(%+*'<7'. '<1(%.&'?'+'?'." 6* 15,+(%+% 'A&"<.5*<' 1)&"
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5)<&)."H7+5'+N,."C.&*),')(*%i"*< \S]'. ('?.<'?'." 6* 15,+(%+% "'*<.&5*%7.%'" 9+,&' '*<.&5*%7"'*"'?'."
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- f >?'."6* 15,+(%+% 'A&"%+ 1 .i"
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- f ;+'. \&]"*9"+,,. @.7"5*,(62"B(*,+(*%\&]i"
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- f Z(<.9"7.&6<(5'(*%*"9"+,,. @+'(*%\&]i"
- f H'&'+' . 1 .% "'?'+'?'?'."<.&5*%7.%'" (&5<.&.) 1 .7"%*"<.&5*%&(N,."9*<'?'."+,,. @.7"6*%7)6'" "+%7"
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- f H'&'+' . 1 .% "'?'+'?'?'." 5+<'(&' ?+B."?'." <(@?' "'* <B(. I "+%7" (%&5.6" "+, ".B(7.%6." N.(%@"
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- f H'&'+' . 1 .% "'<.&+<7(%@"'?'." 0*,,. @.A&"5*,(62"<.,+' .7""*9+,&."<.5*<'&"+%7" 1+Y(%@"Y%* I(%@"2"
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U%6."?."\$(('L+6':^+'?<(%@('6* 15,.'/'?'."0(B('C('@?'&'D">(',\$E"0**<7(+*%< I(,5<*B(7."?'."\$%'.<B(. I"J) 1 1+<(.&+%7"+%2"7*6) 1.%'+<2".B(7.%6."@+'?<.7"***?."5+<('9*%<.B(. I a"^(B.%"?'."&.%&('B.%'+)<."*9"?'."(%9*%<1+'(*%5<*B(7.7/'?'."0(B('C('@?'&'D">(',\$E"0**<7(+*%< I(,5<*B(7."?'."(%9*%<1+'(*%("+"&.6)<." 1+%%.<".a@a/"N2"5<*B(7(%@"7('@'+,6*5(&."*9"?'." 1+'<(+,&'?'<*)@?'+"5<*'.6'.7/"_<.+7:.*%2," I.N"5*%<+,]a"8.('?'<""?."6* 15,+(%+%""%<""?."<.&5*%7.%'\%<""?."<"+7B(&*%&/'(%6,)7(%@"N)""%*", (1('7"***9+1(,2" 1. 1 N.<&"+%7g*%<,.@+,6*)%&.,] 1+2"6*52/"<. 1 *B./"5?*'*@<+5?"5<(%"/"(1+@."/B(7.*'+5."/<.6*%<7/"*%<("+"%2" 1+%%.<""*?'<I(&."7)5,(6+'."*%<". 1 *B."?'."(%9*%<1+'(*%5<*B(7.7a"H%2"&')7.%" I?'*9+(&""*"+N(7."N2"?'(&'G*,(62" 1+2"N."&)Nb.6""*7(&6(5,(% .a"H%2"+7B(&*%< I?'*9+(&""*"+N(7."N2"?'(&'G*,(62" 1+2"N."&)Nb.6""*7(&6(5,(% ."+%7g*%< 1+2"N.".46,)7.7"9<* 1'9)<'<."5+<(6(5+'*%("%"?'."5<*6.&&a&>?"5+<('1+2"<.&5*%7"***?."\$%'.<B(. I"J) 1 1+<('"+%7"+%2"7*6) 1.%'+<2".B(7.%6.i"?'."5+<('& I(,(&)N 1('"+%2"<.&5*%&." I('?'%"%'\!R]N)&(%.&&'7+2&'*9" N.(%@"%*'9(7."*9"?'<."*55*%<')%('2"***<.B(. I"?'."7*6) 1.%'&a">?"5+<('1+2"<.&5*%7"(%""%".*%< N*?'*9"?'."9*.,* I(%@" I+2&V&

>?."5+<('1+2"5<*B(7."+" I<'.'%<.&5*%&.a">?"\$%B.&'(@+'*%< I(, (%6*%5*%<+'. "+%2" I<'.'%<.&5*%&."5<*B(7.7"N2"?'."5+<('&("'"?'."\$%B.&'(@+'(*%C.5*%<'a"

>?."5+<('1+2"&)N 1('+" I<'.'%<.X).&'9*%<+77('(*%+, "(%B.&'(@+'(*%a"J)6?'<.X).&'&' 1+2"(%6,)7."/N)""<."%*", (1('7"***/'?'."9*.,* I(%@"V"!]<.X).&'&]'9*%<9*.,* I:)5'(%'.<B(. I&]' I('?' .4(&'(%@" I('%.&&."*6"+<(92"*%<5<*B(7."+77('(*%+, "(%9*%<1+'(*%/"(%6,)7(%@"99.<(%@"X).&'(*%&'*"'?."\$%B.&'(@+'*%<""5*%&."*% I('%.&&.'&'+""?'."7(&6<.'(*%*9"?'."\$%B.&'(@+'*%<[i"#]<.X).&'&]'9*%<(''.<B(. I&' I('?'% . I" I('%.&&.&i"*%<[S]<.X).&'&]'*6*%&(7.<%" . I".B(7.%6.a"H%2"<.X).&'9*%<+77('(*%+, "(%B.&'(@+'(*% I(, .45,+(%""?'<.+&*%9*%<""?'<.X).&'a"

>?."\$%B.&'(@+'*%< 1+2"6*%7)6"9*.,* I:)5'(%'.<B(. I&' I('?'?'."5+<('1+2"7" I('%.&&.&N+d.7")5*%& .B(7.%6."@+'?<.7"7)<(%@"?'."5<.,(1(%+<2"(%B.&'(@+'(*%"+%7"?'."5+<('&A"<.X).&'9*%<+77('(*%+, "(%B.&'(@+'(*%/"9"+%2a">?"5+<('1+2"7" I('%.&&.&6+%".45.6""'+"/"(%""?'&."9*.,* I:)5'(%'.<B(. I&'?'." \$%B.&'(@+'*%< I(, (&..Y<.&5*%&.&'*%&5.6(9(6+,.,@+'(*%&*%<.B(7.%6."a@a/"+"\$%B.&'(@+'*%< 1+2"&'* I" *%."*9"?'."5+<('1+2"&.<(&'*9"'.4" 1.&&+@.&N." I..%?'(1&.,9*%<""?<.&.,9"+%7"+%*?'< I('%.&&"+%7"+&Y" +N*)""?'."6*%'.%""*9"?'."'.4" 1.&&+@.&]a">""'?"'.4'."%"+77('(*%+, 1+'<(+,/" I('%.&&.&*%<.B(7.%6." +<."(7.%'9(7.7)<(%@" .B(7.%6."<.B(. I/"?'."\$%B.&'(@+'*%< I(, (6*%7)6"'+77('(*%+, "(%'.<B(. I&'"+%7" @+'?<+77('(*%+, .B(7.%6."6*%&(&'."% I('?'?'."5<*6.7)<.&*)', (%.'"+N*B.a"H%2"+%7"+, "(%9*%<1+'(*% 9*%< 6*%&(7.<+'(*% N2"?'." O.+<(%@" U99(6.<]&'*),7" N." 5<*B(7.7" '*"'?'." \$%B.&'(@+'*%< 7)<(%@"?'." 5<.,(1(%+<2"(%B.&'(@+'(*%a"\$%9*%<1+'(*%""?+" I+&'*%5<*B(7.7"***?."\$%B.&'(@+'*%< I(, (%*"N."+, * I.7" 7)<(%@"?'."?'<+<(%@"('&.,9")% ,&&"("6+%N."6.,+<2"7. 1*%&'<+'.7"?'+"&)6?"(%9*%<1+'(*% I+&'*%""< .+&*%+N,2"Y*% I%"*%*%<"+B(+,N., ""*"'?"5+<('1+2"?'."(1."*9"?'."(%B.&'(@+'(*%a"

>?."\$%B.&'(@+'*%< I(, (5<.5+<."+\$%B.&'(@+'(*%C.5*%<)&) 1 1+<(d(%@"?'."9+6'+%7".B(7.%6."@+'?<.7" (%""?'."6*%)&."*9"?'."G<.,(1(%+<2"\$%B.&'(@+'(*%a">?"\$%B.&'(@+'*%< I(, (%*"&'&+'. "9+6")+,"9(%7(%&'*%<), '(1+'."9(%7(%&'&""* I?'.'?'<""?'<.&5*%7.%""?+&/"*%<"+&'*%"/B(*,+'.7"*%."*%< 1 *%."*9"?'."O*.,@.A&" 5*,(6.&'(%""?'."\$%B.&'(@+'(*%C.5*%<'a">?"\$%B.&'(@+'*%< I(, (''+6?"+&"+55.%7(6.&'*"'?'."\$%B.&'(@+'(*% C.5*%<'"+, "\$%'.<B(. I" J) 1 1+<('"+%7"+%2" 7*6) 1.%'+<2".B(7.%6."@+'?<.7" (%""?'." G<.,(1(%+<2" \$%B.&'(@+'(*%/"(%6,)7(%@"+%2" I<'.'%<.&5*%&.&'*"'?'."B(7.%6."&)N 1('7"N2"?'."5+<('&a" c?'."%""?'."

O.+<(%@U99(6.<" I(,"6*%7)6'"+"(B."?.+<(%@/"+" I?(6?"'?.2" I(,"5.<1("'%7(<.6'"6<*%&&:.4+1(%+'(*%
*9"'?. "5+<('.&"+%7" I('%.&&.&a"L*5)<5*%&. &"*9"'?(&"G*,(62/"'?. " ' .<1 "\$%7(<.6'" 0<*%&&:34+1(%+'(*%
1 .+%&"'?. "O.+<(%@U99(6.<" I(,"+,,* I "'?. "5+<('.&"+%7g*%<'?. (<+7B(&*%&"*%&")N 1 ("5<*5*%&.7"X) .&'(*%&
9*%<'?. "5+<('.&"+%7" I('%.&&.&/"&" I .,,"+&"9*,,* I :)5"X) .&'(*%&"N+&.7"*%'" .&'(1 *%2"5<*B(7.7"7)<(%@
'?. "?.+<(%@a">?. "O.+<(%@U99(6.<" I(,"+&Y"'?. "5+<('.&"+%7" I('%.&&.&"'?. "5<*5*%&.7"X) .&'(*%&"'?'+"'?. "
O.+<(%@U99(6.<"7.' .<1 (%.&"+<."6*%&&(&'."%'" I ('?'?'(&"G*,(62"+%7"+<."5<*N+'(B."*9"9+6'&"<.,.B+% "'*%
'?. "+7b)7(6+'(*%*"9"'?. "1+''.<a">?. "O.+<(%@U99(6.<"1+2"<.9)&." '*"+,,* I "X) .&'(*%&"'?'+"'+<.")%7),2"
?+<+&&(%@"*%<'?'+'&. .Y"(%9*%<1+'(*%*"?'+'(&"%*" "<.,.B+% "')%7.<"'?'(&"G*,(62a"
"

>?. "O.+<(%@U99(6.<("&"<.&5*%&(N,. "9*%<" 1+(%'+(%@"+"%*"<7.<2/"9+(</"+"%7"<.&5.6'9), "?.+<(%@"+"%7"?'&
N<*+7"')?'*%<('2"'*%<.&5*%7"'*%7(&<)5'(B."*%<'?'+'&&(%@"N.'?+B(*%&/"(%6,)7(%@"+7b*)<(%@"'?. "?.+<(%@"
*%<".46,)7(%@"'?. " *99.%7(%@" 5.<&*%a" G+<('.&" 1+2" 1+Y."<.X) .&'&" '*"'?. "

>?. "O.+<(%@" U99(6.<" I(,,"7.'.<1(%."(9"'?. "5<*99.<.7" I('%.&&\.&]" ?+&"<.,.B+%'"(%9*<1+'(*%" +%7"(9" '?.<." (&" &)99(6(.%" b)&'(9(6+'(*%" 9*<" 5.<1('(%@" +" I('%.&&" I?*" I+&" %*'" (%'.<B(. I .7" N2" '?. "\$%B.&'(@+'*<a" >?. " O.+<(%@" U99(6.<" 1+2" +,&* "<.X)(<." '?. "\$%B.&'(@+'*<" '*" (%'.<B(. I " '?. "% . I ,2" 5<*99.<.7" I('%.&&a" c ?.%" I('%.&&.&" +<." +55<*B.7" '*" N. "5<.&.%/'" '?. "<.&5*%7.%'" +%7"6* 15,+(%+%'" I(,,"N. "5<*B(7.7" I('?" +,(&" *9" I('%.&&.&" +%7" +2"<.,.B+%'" 7*6) 1 .%'&"<.,+' .7" '*" '?. " I('%.&&.&A" +55.+<+%6."+'"'?. "?. +<(%@"%*" ,+' .<"'?'+%"'?'<.."

5.<1(''.7" "*" 6<*&&:.4+1(%." '?'." I('%.&&.&" *<" +%2" 5+<'2" 7)<(%@" '?'." ?.+<(%@/" %*<" I(, " '?'." 2" N."
5.<1(''.7" "*" *99.< I('%.&&.&/" 7*6) 1 .%'&/" *<"+'6,*&(%@"&'+' . 1 .%'a"\$9"+%2"5+<'2"6?* *&.&"%*"'"*"+55.+<"
+'"'?'." ?.+<(%@/" '?'." 0*,,@." 1+2" 1*B." 9*<I +<7" I('?'?'." ?.+<(%@" +%7"

>?. " 0(B(," C(@?'&" D" >(',." \$E" 0**<7(%+'*<" I(," 5<*B(7." '?'." 6* 15,+(%+% "'+%7"'?'." <.&5*%7.% "' I('?" %*'(6." *9"+%2"7.,+2&"+%7"@B." '?'." 1 "+%". I"(1 .'+N,." 9* <6* 15,.'(*% "*9"'?'." (%B.&'(@+'(*%a"

>?. (%B.&'(@+'(*% I(," (%6,)7." +%"(%'.<B(. I \&] I('?"'?" 6* 15,+(%+% '/' "'?'." <.&5*%7.% "'+%7g* <"+%2" *'?'." <5.&*% I ?*" 1+2"?'+B." (%9* <1+'(*% "<.@+<7(%@"'?'." (%6(7.% '/' .+6?"*9" I ?* 1 "(%". %6*) <+@.7" '*" 6**5.<+'." I('?"+%2"(%B.&'(@+'(*%a">?. "%B.&'(@+'* <I(," 5<.5+<." +&") 1 1+<2"*9". +6?"(%'.<B(. I /&?+<." '?'." &") 1 1+<2" I('?"'?'." (%'.<B(. I . /"+%7"5<*B(7." '?'." (%'.<B(. I . . I('?"+"*55* <')%('2"'*6* <<.6"'* < 6* 1 1 .% "'*%"+%2"&'+' . 1 .% '&" 1+7." (%"'?'." &") 1 1+<2a"\$9%*" <.&5*%&." (&"<.6.(B.7"9<* 1 "'?'." (%'.<B(. I . . I('?'(%"'?<.. \S]N)&(%.&&"7+2&"<.9,.6'(%@"+%2"+77('(*%&"* <6?+%@.&" I ?(6?"'?'." (%'.<B(. I . . "N.,(.B.& +<." % .6.&&+<2/"'?'." (%'.<B(. I "&") 1 1+<2"&?+,,"N."7.. 1 .7"'*N.")%7(&5)' .7a"\$%"+,,"(%&' +%6.&" I ?<." '?'." %B.&'(@+'* <("6,)7.&"+%"(%'.<B(. I "&") 1 1+<2"+&"+%" .4?(N('"'*"+<.5* </' "'?'." %B.&'(@+'* <(" I(," +,&* (%6,)7." +%2" <.&5*%&." a" >?. "%B.&'(@+'* <(" 1+2" +,&* @+'?'." <"+%2" <..B+% "' 7*6) 1 .% '&" +%7" 6*%7)6" 9* ,,* I :)5"* < <.N)"'+, "(%'.<B(. I &/' +&"% .6.&&+<2a""

>?. " 0(B(," C(@?'&" D" >(',." \$E" 0**<7(%+'* <"

9<* 1 " '?. " \$%B.&'(@+'*%a" U%6." '?. " \$%B.&'(@+'*<" (& &+'(&9(.7" '?+' " '?. " <.5*<" (& 6* 15,. ' /" '?. " \$%B.&'(@+'*<" I(,,"&)N 1 ('"'?. "<.5*<'""*"'?. " 0(B("C(@?'&"D">('," \$E" 0**<7(%+'*<a">?. " 0(B("C(@?'&"D">('," \$E" 0**<7(%+'*<" I(,,"<.B(. I" '?. " <.5*<'"+%7"+&&. &&" I?. '?. <" '?. " <.5*<'"+7. 1 *%&'<+' .&/" N2"+ 5<.5*%7. <+%6. " *9" '?. " .B(7. %6. /" ' ?+' V" \!]" '?. " .B(7. %6. "&)55*<'&" '?. " \$%B.&'(@+'*<A&" 9+6')+, " 9(%7(%@&i" +%7" \#]" '?. " \$%B.&'(@+'*<A&" 9+6')+, " 9(%7(%@&" &)55*<' " '?. " \$%B.&'(@+'*<A&"), '(1+' . " 9(%7(%@ " *9" <. &5*%&(N(,('2"*<"%*% :<. &5*%&(N(,('2a"

>?. " 0(B("C(@?'&" D">('," \$E" 0**<7(%+'*<" 1+2" <.X)(<. " '?+' " '?. " \$%B.&'(@+'*<" 6*%7)6'" +77('(*%+, " (%B.&'(@+'*%/" 6*%&(&' .% " I('?' " '?. " 5<*6.7) <. &*") , (%.7" +N*B.a" U%6. " '?. " 0(B("C(@?'&" D">('," \$E" 0**<7(%+'*<" ?+&" 6*%9<1 .7" '?+' " '?. " L(%+, " C.5*<" (& 6* 15,. ' /" '?. " 0(B

K??\$,@'>!C)!K@+?&+67\$!G\$:87-&'8,!J.8%\$@ - .\$.!

H7+5'+N,."<.&*,)'(*%"(&"+B*,)%'+<2/"<. 1 .7(.&:

f G+<'(6(5+% '&" (%" +7+5'+N, ." <.&*,)')(*%" 5<*6.&&.&" 1)&' " N." 5<*'.6'.7" 9<*1 " &.6*%7+<2"
B(6'(1(d+'(*%" +%7" *'?.<" 5*'.%'(+," ?+<1&/" (%6,)7(%@" '?." 5<.&&<." '*" 5<*6..7" '?<*)@?'
+7+5'+N, ." <.&*,)')(*%"(%&' .+7"*0"9* <1+, "<.&*,)')(*%a"

I7,<#,:\$%& ;%/3\$+#"31&A<#"31/&

" H% (%7(<.6'/" 9+6,(+' .7" 6*B.<&+'(%" (%7(B(7)+,," I('?' '?' . 6* 15,+(%+% '/' '?' . <.&5*%7.%/' +%7g* <' *?' .< 5+<(6(5+% '&' '*' 7(&6)&&' .45.<(.%6." +%7" 5.<&5.6'(B." +%7" .45,*<.(%' .<.&'&" I ?(,." I *<Y(%@" '*' I +<7&" 1 ..'(%@" .45<.&&.7"% .7&a">?(&' % .@*('+' .7"5*6.&&"7* .&"%*" "<.X)(.<."7(<.6'"(%' .<+6'(%*"N.' I ..%" "?" .5+<(.&"*?" "?" .5+<(.&' +%7" *?' .<"5+<(6(5+% '&' "N)" "<+' ? .</'(%7.5.%7.%',2" I ('?' + "6* * <7(%+ '* <a"

" H" 9+6,(+' .7" (%' .<+6'(%*" N.' I ..%" '?' .<.&5*%7.%'" +%7" 0* ,. .@."9+6), '2"+%7g* <'&' +99"7.&(@% .7"'*5* <*B(7." +66*%) '+N,('2/'&'<)6')<.7"&)55* <'/' +%7"' ? ." 7.B., *5 1 .%" " *9" +", .+<%(%" 5,+%a" >? ." 9*6)&" *9" + " 0UH" (&" '*' N+,+%6." &)55* <'/' +%7" +66*%) '+N,('2"9* <+" (%7(B(7)+, " I ?*?" ? +&" +6Y* I . .7@.7"' ? .<(*"N,(@+' (%*" "<.5+<?" +<1 " +%7" I (, (%@% .&&" '*' .% @+@ ." (%" +%" .7)6+ '(*%+, 5 <*6.&&a" >? ." 0UH" 1 *7., " 7* .&" %*" "<.X)(.<." 5+<'(6(5+' (%*"9* <1 "' ? ."6* 15,+(%+% '/' "N)" "+&" I ('?' *?" ? .<"25.&"*9"+7+5'+N, .<.&*,)' (%* / (" 1)&" N."B*,)%'+<2"9* <" ? ."6* 15,+(%+% '" +%7"' ? .<.&5*%7.%' a"

Q .+&)<.&" ?+' " 1+2"N." +@< . .7"' * +&" "<.&), "'*9" ? ." +7+5'+N, .<.&*,)' (%*" 5*6.&&" 1+2" (%6,)7" V"

f H,6*?*, ".7)6+ '(%"6,+&&.&"9* <" ? ."<.&5*%7.%' i"

f C.@), +< 1 ..'(%@&" I ('?' +%" +55* <5(+ ' .0* ,. .@." (%7(B(7)+, /")% ('/" * < "<.&*) <6. i"

f G.< 1 +%.%" .4' .%& (%*"9* +%" * :6*% '+6"7(<.6'(B. i"

f C.&' <(6' (%*"9* <1 "5+<'(6(5+' (%*" (%&5.6(9(6'6), N&" +%7g* <' * <@+ % (d+ '(*%&i"

f <.&5*%7.%'" <.&' <(6' (%*"9* <1 "5+<'(6(5+' (%*" (%&5+<'(6), +< " .B.%' &i"

f <.&5*%7.%'" 6* 15, . '(*%*"9* +%" .7)6+ '(*%+, 5, +%" I ('?' <.@), +< 1 ..'(%@&" I ('?' '?' . " +7+5'+N, . i" <.&*,)' (%*"6* * <7(%+ '* < " * ? ." <+55* <5(+ ' .0* ,. .@.'"&' +99" * <9+6), '2" 1 . 1 N. <i" +%7g* <"

f 0*)%& ., (%@&.&& (%*"9* <" ? ."<.&5*%7.%' a"

\$%7(B(7)+, &" I ?* I (&" "*" 5+<'(6(5+' . (%" +%" +7+5'+N, .<.&*,)' (%*" 5*6.&&" 1)&" ?+B." &)66.&&9), ,2" 6* 15, . .7" 5<.5+<+' * <2" 1 ..'(%@&" I ('?' '?' . " +7+5'+N, .<.&*,)' (%*"6* * <7(%+ '* < a" \$%7(B(7)+, &" 1+2"N." +66* 15+%(.7"N2" +%" +7B(&.<+" +%" 2" 1 ..'(%@&"<., +'.7"' * "?" . " +7+5'+N, .<.&*,)' (%*"5*6.&&a"

I7, <# , : \$%& ; %/3\$ + # 31& IF. % % 0 % 1 # / &

H%2" +@< . . 1 .% '&' <.+6? .7" (%" +%" +7+5'+N, .<.&*,)' (%*" 1)&" N." 7*6) 1 .%'.7" N2" '?' . " +7+5'+N, .<.&*,)' (%*" 6* * <7(%+ '* < " +%7" +55* <*B.7" N2" '?' . 0(B(, C(@?'&" D" >(' , . "\$E" 0* * <7(%+ '* < " '*' .%&)<." 6*%& (&' .%62" I ('?' '?' . "0* ,. .@."A&" >(' , . "\$E" *N, (@+' (%*&a"H%" +@< . . 1 .%" I (, , "%*" "N." 6*%& (&' .7" B+, (7"9" '?' . " 0(B(, C(@?'&" D" >(' , . "\$E" 0* * <7(%+ '* < " 7* .&" %*" " +55* <*B." ('a" \$9" '?' . 0(B(, C(@?'&" D" >(' , . "\$E" 0* * <7(%+ '* < " * < " 7.&(@% . . " +55* <*B.&" +%" +@< . . 1 .%" +9' .< " '?' . " 5+<(.&" ?+B." B*,)%'+<(,2" <.+6? .7"

% .6.&&+<2" '*9+6(,'+'.'?'<.&*,)'(*%/'?'." 0*,,.@." 1+2"N."<.X)(<.7" '*5<*7)6."<.6*7&" 6<+'.7" 7)<(%@"'?'(&"5<*6.&&"(%<.&5*%&." '*"+'b)7(6(+,&)N5* .%+"*("<+"L3CGH".7)6+'(*%+,<.6*7"<.X) .&'a"\$9" +7+5'+N,.'<.&*,)'(*% (&'*55.7" 5<(*<" '*6* 15,.'(*%/'&'+' . 1.%&" 1+7." N2" +5+<'2" (%"+7+5'+N,.' <.&*,)'(*% 1+2"%*"N.")&.7"(%"+7(&6(5,(%+<2"<.&*,)'(*%5<*6.&&"<.,+'.7"***'?'+' 1+''.<a"

I7,<#,:\$%&;% 0%7"/&3.&'1#%.C%1#31/&3.	%&B3\$\$F%&B3 0 0+1"#@&

\$%" +77('(*% " '*" (%'.<B.%'(*%&" +55,(.7" '*" '?'<.&5*%7.%'/' +%7" <.@+<7,.&&" *9" I?'.'?<" '?'." 0*,,.@." 5)<&).&+" ; (&6(5,(%+<2" C.&*,)'(*%*" *'+'Y.&" *'?'<" 9* <1+, "7(&6(5,(%+<2" +6'(*%/' '?'." 0(B," C(@?'&" D" >('," \$E" 0**<7(%+'* <" 1+2"9(%7("?'.,59),"*<"% .6.&&+<2"***<.X) .&"* <"<.X)(<."?'<.&5*%7.%'***<"*?'<.& " '*")%7.<'+'Y."&5.6(9(6'&' .5&" 7.&(@% .7" '*" .,(1(%+'.'?'." 1(&6*%7)6'/' 5<.B.%'" ('&"<.6)<<.%6./'+%7g* <" <. 1.72"('&" .99.6'&a" 34+ 15,.&"(%6,)7./"N)"'+<."%*"', (1(' .7" '*/'?'." 9*,,* I(%@V"

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>?. "0(B("C@?'&"D">(',\$E"0**<7(%+* '<+,&*?'&'"?'."7(&6<.'(%%"* '<.B(. I "+%2'(%'<(1"5<*'.6'(B." * '<. 1.7(+," 1.+&)<.&'*7'.<1(%." I?'.'?<'?'.'2'&'?*) ,7"N."6?+@.7"* '<+<."%*",%*@.<"+55,(6+N, .a" >?. "C.B(. I"G+%., "I(,,"(&&)." +7'.<1(%+('%"*%&'&+%6'(%%&'+"%7"'?'."5+<'(&" I(,,"<.6.(B."%*"6."*9"'?'." 7'.<1(%+('%"* I('?'%9(B." \F]N)&(%.&&'7+2&"*9"'?'."C.B(. I"G+%.,A&"<.6.(5""*9"+,," 1+'<(+,&'(%)"?'." 6+&.a" L* '< 6+&. &' (%B*,B(%@'+,.,@+'(%%&' *9" >(<.' \$E" J.4)+, O+<+&&1.%/'" '?'." C.B(. I" G+%.,A&" 7'.<1(%+('%"*%&'&+%6'(%%&' I(,,"N."(%6,)7.7'(%)"?'."O.+<(%@U99(6.<A&" I<'.'%7'.<1(%+('%"*a"

H%2" %*." * '< 1 * <." *9" '?'." &+%6'(%%&'&,'.7"?'<." 1+2"N." (15*&.7" %*"+<.&5*%7.%" I?'* (&"9*) %7" <.&5*%&(N,."9* '<+"B*'+('%"*%9"'?'."0*,,@.A&"J.4)+, +%7"\$%'.<5.<&*%+, "Q(&6*%7)6"G*,(62a"J+%6'(%%&' +<." +&&. &&.7" (%'<.&5*%&." '*' '?'." &5.6(9(6" B*'+('%"*%&]"+%7" +%2" 5<(* '<7(&6(5,(%." ?(&'* '<2" *9" '?'." <.&5*%7.% 'a"J+%6'(%%&'&+<." .99.6'(B." (1 1.7(+',.2a"\$9"'?'."<.&5*%7.% "+55.+,&'?'."9(%7(%@&'6*%'+(+%.7" (%)"?'."L(%+, "C.5* '<'/'?'." &+%6'(%%&' I(,,"6*% '(%) ."(%) .99.6"7"<(%@'"?'." +55.+ ,a">?. " &+%6'(%%&' 1+2"N." , (9'.7" %* ,2"(9"'+&'<.&)." *%9"'?'."9(%+, *%)"6* 1 ."*9"'?'." +55.+ ,/'?'."<.&5*%7.% "(&"9*) %7" %* "<.&5*%&(N,." 9* '< %*." * '< 1 * <." *9" '?'." * '< (%+, "5* ,(62"B*'+('%"*%&)&N 1 ('.7" %*"'?'."C.B(. I"G+%., a&

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_____"8*'(6.'/" (%" I<'(%@/'?'+'6*% '(%)+'(%%"* '<.<5.' ('(%%"*%9"G<?* (N(' .7"0*%7)6" 1+2"N." 6+)&."9* '<"+77('(%%+, "7(&6(5,(%+<2"+6'(%%a"

_____"H" I<'.'%<.5<(1+%7"9* '<" B*'+('%"*%9"'?'." J.4)+, +%7" \$%'.<5.<&*%+, " Q(&6*%7)6" G*,(62a" >?(&"6*%7)6" &' +')&"&5.6(9(.&"+5.<(*7" *9" '(1."7"<(%@ I?'(6?"'?'." &')7.% "A&"@**7" &' +%7(%@ I('?' '?'." 0*,,@." 1+2"N." (%"b. *5+<72a">?. " &')7.%" (&" *99(6(+,2" I+<.7" '?'+' 6*% '(%)+'(%%"* '<.<5.' ('(%%"*%9"G<?* (N(' .7"0*%7)6" 1+2"N."6+)&."9* '<"+77('(%%+, "6*%7)6"'+6'(%% (%6,)7(%@'5<*N+'(%%/'&)&5.%&'(%%/'* '<.<45),&'(%%"9* 1"?'."0*,,@.a"

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_____ "346,) &(%*"9<* 1 "0*,,. @. "5<. 1 (&.&"+' .%7(%@"6,+&&.&/" +%7"*'?. <"5<(B(. @. &"*<"
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+6'(%*" I(, "<. 1 +(%"("%"?' .&')7. %'A&"6*%7)6""9(, . "+%7" I(, "N. "5.< 1+% .% ',2"<.6*<7.7"*%"'?. "
&')7. %'A&" +6+7. 1 (6" '<+%&6<(5'a" 0*%7('(%&" 9*<" <. +7 1 (&&(%*" 1+2" N. " &5.6(9(.7" (% " '?. "
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