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W)+L*4)%+("\$&"\$A*)(\$+'&'2"J+/"**4A"(\$+"E4+L*/3+4"9&EE+%+38+M&3M9&EE+%+38+/"**%)/8\$0C&CR"0C+((1/33"+(/"4"heheR")"&1&4/%"06'/1*4+/"'")(\$)+'9+E&3+9"&3"W/64+"F-"W\$+"C&C"/**%)/8\$%+@+/"4"J\$+(\$+%E&1'"J&(\$/"#;"0(%+/(1+3("5%)0*R"9+@+4)*"9&EE+%+3(4A"&3"(\$+"A+/" /E(+%J&3&35"(\$+"8)3(%/8("/J/%9"(\$/3"(\$+"&1&4/%E&1'"J&(\$)0("/#;"08)3(%)"4"5%)0*R" F3")%9+%(")8%+/(+"(\$+"(%+/(1+3("/39"8)3(%)"4"5%)0*'2"J+8)3'(%08("/"9011A"@/%&/64+"8/4+9"('&(%)"J&(\$"@/40+"!"&E"(\$+"8)1*/3A"\$/"J)3"/"*064&8"*%)80%+1+3("8)3(%/8("6+(J++3"A+/"he!f"/39"he!l"0(%+/(1+3("5%)0*R"/39"N+%))(\$+%J&+"08)3(%)"4"5%)0*R-"W\$+32"()8/*(0%+(\$+"*+%&)9"+EE+8("\$/"/**4&+"")6)(\$"(%+/(+9"/39"3)3M(%+/(+9"E&1'2"J+"8%+/(+/"3)(\$+%9011A"8/4+9"*+,((%'&(-%.(/0%'1+)2"W\$&"@/%&/64+("/B+"")3"(\$+"@/40+"E)"3+""/(%&85"E%)1"A+/"(34"J\$+%+"("&"(\$+"A+/"E)"088+'-'Z0%"1/&3"@/%&/64+"E)"&3(+%"("&"(\$+"!"&(-%.(/55%6(-"W\$&"9011A"@/%&/64+"%+%+'+3("(\$+"&3(+%/8&)3"6+(J++3"(\$+"@/%&/64+"('&(%)" /39" *+,((%'&(-%.(/0%'1+)-"W\$&"!"&(-%.(/55%6("&"N+%)"&E2"/39")34A"&E2"(\$+"9011A"@/%&/64+"('&(%)"&"e-"F("&"!"&E"(\$+"9011&+"*+,((%'&(-%.(/0%'1+)" /39"('&(%)" /%+"!"-W/64+"g"9+"8&6+"(\$+"1/&3"(%+/(1+3(" @/%&/64+"0'+9"&3"E4+L*/3+4"C&C"%+5%+'&)3"+Y0/(&)3-

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S+%&)9"+EE+8("E)%6)(\$"(\$+"(%+/(+9"/39"(\$+"3)3M(%+/(+9"E&1'0"R"	S)'((%+/(1+3("**+%&)9"	e"E)%(%+/(1+3(" /39"1/(8\$+9"8)3(%)"4" E&1"6+E)%+"(\$+"8)3(%/8("/J/%9"0#;R'"088+'-'!"E)%6)(\$"E&1"("A*+'")3+"A+/" /E(+%J&3&3&35"/(+39+%2"/39"(\$+3"&"%+*+/'("/E(+J/%9"-";"1/L&101"E"(\$%+"A+/" /E(+%J&3&3&35"/(+39+%6+(J++3"he!f"/39"he!l"&"8)3'&9+%+9-
F3(+%/8&)3"6+(J++3"J&3&3&35"/(+39+% /39"*)'(" (%+/(1+3("EE+8("	W%+/(1+3("EE+8("0(%+/(+9"~"S)'((%+/(1+3("**+%&)9R"	ec"3)"EE+8(:!c"+EE+8(" ,04"&3(+%/8&)3"+EE+8("6+(J++3"J&3&3&35"/"8)3(%/8(" /J/%9"/39"(\$+"*+%&)9"/E(+%(\$+"(%+/(1+3("

S%+@&)0'""(09&+'**%)*)+'@/%&)0'"8)3(%)"4"@/%&/64+'-";'8\$)\$EE"/39(=)EB/"0heesR"&38409+"8)3(%)"4"@/%&/64+'8/*(0%&35"1/%B+("&33)@/(&)3-",/N+B/" /39"W•(\$0he!mR"0'+8)03(%A"4/6+4"/39"&39&8/())E"1/%B+(4+@+4"&3(+%+3&)3'-V\$&+((&"0he!mR"/99'"8)3(%)"4"@/%&/64+'E)%+3@&)31+3(/4"&33)@/(&)3-"W\$+"WQC"9/(+'(+*%)@&9+'"/@/%&+(A)"E"8/39&9/(+'E)"%8)3(%)"4"@/%&/64+'-"G+/"6'(/&3"E%)1"&38)*%)/(&35"/"104(&09+)E"8)3(%)"4"@/%&/64+'(")B+*+(\$+"1)9+4/"'&1*4+/"'*)'&64+-"G+0'+("(/4/'+'('28)03(%A2"E&1"("A*+2"a;#Q"8)9+'"/39"(&1+9011&+"E)%(\$+"A+/"6+(J++3"he!!"/39"he!l"/'"8)3(%)"4"@/%&/64+'&3"(\$+"E4+L*/3+4"C&C"1)9+4'-"

D e f i a c i a e g h a f f e c h e i e i h d f i i g a e d e

G+'' (/%" J&(\$(\$+"E&&' ("YO+' (& 3")E" J\$+(\$+%" (\$+"4&B+4&\$))9")E" J&3&35"/"*064&8"*%) 80%+ 1 +3(" (+39+%&' " /'')8&/ (+9" J&(\$/" \$&5\$+% E&3/38&/4" ' (%+35(\$-"W/64+"m" '\$) J"' (\$+"9+' 8%&* (&@+' ' (/(&' (&8'")E" (\$+"E&3/38&/4" ' (%+35(\$"&39&8/()%' ")E"&3(+%' ('" +* /%/(+4A"E)"WQC"E&&1 "'/39"(\$+"3)WQC"8) 1 * /3&+' "&3"(\$+")@+%/4" = /1 *4+" 0! R-"W\$+"W/64+"%+@+/4" "\$/((\$+"#; "E&&1 "'&3"(\$+"+' (&1 /(&) 3" /1 *4+' "\$/@+") 3"/@+%/5+" /4) J+%+"YO&(A"/(&) 2" /"\$&5\$+% "' \$)%(M(+%1 "9+6(""/(&) 2"/"\$&5\$+% (" /9+"8%+9&(""/(&) "/39"/"\$&5\$+% (0%3) @+%"/(&) -"

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	! "#\$	%&' (") *"	%&+', (") -"	%, ("	%' . "	/01"
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' /1 *4+)E" 088+' 'E04"E&1 "'&3"V%++3"S064&8"S%) 80%+ 1 +3('"/39"(\$+&"8)3(%)"4"E&1 "' -"

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"	OMm-hqR"	OMf-sqR"	OMh-ql R"	OMh-d! R"
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 5%++3"E&1'-'F3"VSS2")34A"/"\$&5\$"\$\$/+"")E"(%/9+"8%+9&('@"MM@u"("\$+"8)3(%)"4"E&1' "\$/'("\$/'+"EE+8(-"
 "
 W/64+"!dc"K&B+&S))9"E"J&33&35"/"8)3(%/8("/J/%9"0*%)6"WQCA+/%R"9+*+39&35")3"(\$+"4/55+9"W?j a"/(&)"

	0! R"	0hR"	0dR"	0qR"
	; 44"E&1''	; 44"=PQ'"	; 44"E&1'' J&("\$" VSS"#; "	; 44"=PQ'" J&("\$" VSS"#; "
WQCA+/%"	"	"	"	"
W?j a"/(&)"0(M! R"	Me-eeehq! "	Me-eeehqg"	e-ee! gs"	e-eeh! h"
"	0Me-s! R"	0M! -eer"	0e-g! R"	0e-g! R"
4)50W)(/4; ''+'R"	e-e! gsooo"	e-e! qdooo"	e-ee! qm"	e-ee! e! "
"	0q-! qR"	0d-! fR"	0e-g! R"	0e-dqR"
=PQ"	e-eehqe" "		e-e! l d" "	
"	0e-! hR"			

			VSS"#; "	VSS"#; "
W%+/(1+3("+EE+8("	Me-e! l l "	Me-e! df"	Me-ehds "	Me-e! ed"
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S)' ((%+/(1+3("	e-eeqhe"	e-eeg! d"	Me-eel hd"	e-eeefqh"
*+%&)9"	0e-fgR"	0e-m! R"	OM! -edR"	0e-egR"
4)50W)/(4; ''+'R"	Me-efef "	Me-eqdm "	Me-eqgd "	Me-edss "
""	OMm-fqR"	OMf-dhR"	OMf-hhR"	OMd-feR"
#)3'(/3("	!-! qq "	!-eeh "	!-egq "	e-sdf "
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'&38+"J+"8/33)("8)3(%4E)"%E&1"/5+-"]J+@+%2("\$+%04+'039+%J\$88\$/"8)3(%/8("/J/%9"&'5%/3(+9)/%+"@+%A"'(%88("/39"/%+4A"4+/@+%))1"E)%"/O(\$)%&(&+"(")E)4)J"(\$+&)"J3"*%+E+%+38+-",)%("\$&'"+/)'32"J+"E/@)"(\$+"L*4/3/(&)3"(\$/("(\$+"E&1'k"+EE)"("1/B+"(\$+"9&EE+%+38+-",&1'"J&(\$4)J"+YO&(A"/(&)"'/%+"0'0/4A"1)"+%E&3/38&4A"8)3'(%/&3+9"/39"/%+"1)"+%&3"3++9")E"EO39"/39"4&YO&9&(A"(\$/("/88)1*/3A"/8)3(%/8("/J/%9-"W\$+"\$)"(M(+%1"9+6("%/(&)"\$/"/'"&53&E&8/3("/39"*)'&(&@+"EE+8(")3"J&33&35"/(+39+%-" ,&1'"J&(\$"\$5\$+"\$)"(M(+%1"9+6("%/(&)"'/%+"1)"+%4&B+4A"(")J&3"(+39+%-"W\$+"EE+8("1/A"/5/&3"%+E+8("(\$+"\$&5\$"4&YO&9&(A"3++9")E"+L*/39&35"E&1'"-"W\$)"+"E&1'"1/A"6+"1)"+%J&4&35"(")\$+/@&A"+35/5+"&3"J&33&35"*064&8"*%)80%+1+3("(+39+%-"

G\$+3"/3/4A&35"(\$+"8/0'/4'&1*/8(")E"J&33&35"/"8)3(%/8("/J/%9")3"(\$+"E&1'k"E&3/38&4'"(+35(\$2"J+"E)80")3"(\$+"YO&(A"/(&)"39"(\$+"\$)"(M(+%1"9+6("%/(&)"-"G+"E&39"(\$/("088+' '4)J+"(\$+"YO&(A"/(&)"E"(\$+"088+' 'EO4E&1'"&3"(\$+"A+/'"/E(+%(\$+"088+' '3)"1/((+%"J\$+(\$+"(\$+"E&1"%+8+&@+'"/(%/9&(&)3/4)"%"/VSS"8)3(%/8("-F3"8)3(%/'(2"J+)34A"E&39"/3&1*/8(")E"8)3(%/8("/J/%9")3"(\$+"=WC."%/(&)"&3"(\$+"1/4+"E"=PQ"%+8+&@&35"/VSS"8)3(%/8("-F3"011/AZ"(\$+"C&C"/3/4A'&'")%&9+'"+@&9+38+"(\$/("%+8+&@&35"/3"/J/%9"/4)J"(\$)'+"E&1'"(")J)%B"J&(\$4)J"+YO&(A"/(&)"-"W\$&'1/A"&39&8/("+(\$/("(\$+/J/%9"&'"/"06'&(&O(+E)%"/"\$5\$"+YO&(A"/(&)"392"(\$0'2"J)%B"&3"E/@)"E"&1"*)@&35"(\$+"E&1'k"/88+' '(")9+6("E&3/38&35"/E(+%"%+8+&@&35"/3"/J/%9-"

V%+3"*064&8"*%)80%+1+3("5/&3'"&38%+/'&354A"1)"+%"/((+3(&)3"&3"(\$+"9&80'"&)3")3"\$)J"5)@+%31+3("8/3"0**)"%("(\$+"V%+/"V%+3"W%/3'&(&)3-"Z0%"'(09A"&'"/"8)3(%&60(&)3"(")(\$+"('&4"1/4"60("5%)J&35"%+/'/%8\$)"3"(\$+"YO+'(&)3")E"J\$+(\$+%5%+3"*064&8"*%)80%+1+3("&'"+@/3("E)%"/E&1'k"E&3/38+-"G+"\$/@+"\$)J3"(\$/("E&1'"J&(\$4)J"+YO&(A"/(&)"'/%+/"3"/9@/3/5+"&3"8)1*/(&35E)%"/"064&8"(+39+%-"F3"/99&(&)32"J+"E&39"(\$/("/J/%9MJ&33&35"E&1'"1"/&3/(&34)J"+YO&(A"/(&)"'/E(+%"J&33&35"/"8)3(%/8("/J/%9-"G+"&3(+*%+"(\$+'+"E&39&35"/'"/'"&53"(\$/("E&3/38&4'&3'&(&O(&)3'"/%+"*%+*/%+9"(")4+%/(+4)J"+YO&(A"/(&)"'/("(\$+"8)3(%/8("/J/%9" "&53/4'"8%+9&(J)%)(\$&3+' '-

Z0%"'(09A"&'")34A"/"E&1'"('+'&3"+L/1&3&35"(\$+"%)4+"E"5%+3"*064&8"*%)80%+1+3("E)%&1*4+1+3(&35"8&1/((+M*%)(+8&35"*%)908("39"'+%&8+'-"W)"1/B+"EO(\$+%*%)5%+' '&3"(\$&'"+*+8("6+((+%"9/("/%+"3+8+' '/%A-";84+/%4/6+4&35")E"(+39+%'"&(\$+%/"8)1*/(&64+")%&38)1*/(&64+"J&(\$"(\$+"Q?"V%+3"C+4"/392"(\$0'2"VSS"5))9'2"'+%&8+'"/39"J)%B"J)049"/@)&9"/3A"/16&50&(A"/39"0**)"(%5%+3"&33)@/(&)3-"F3"/99&(&)32"/3+'/'&+%&9+3(&E&8/(&)3")E"(\$)'+"(+39+%'"(\$/("YO/4&EA"E)"*064&8"*%)1)(&)3"/392"(\$0'2"8/3"6+"E&3/38+9"6A"&'0&35"')@+%&53"5%+3"6)39"J)049"1)'("4&B+4A"0**)"%("(\$+"9+@+4)*1+3(")E"/"(%35"/39"\$&5\$4A"4&YO&9"1/%B+("E)%'"')@+%&53"5%+3"6)39'2"/39/4')E"8&4&8/("+(\$+"*%+@+3(&)3")E"t5%+3J/'\$&35t-"

; 5&3)32"S-2"x+05+4+%2'j-"/39"]+1)0'2"C-"0heesR-"C+O'%%./O'+L(M/L1(M+8/(1..+R&(1+.-.%O+5+4"S)4&8A".%&+E2"heesnem-"

<+1E+%2#-2"=8\$DE+%2"C-"/39"=+1 14+%2"G-"0heheR-"N'%&(/O'%%. /(' &. ,1(1+. /&.)/51. &. 6%-F3(+%+8)3) 1 &8'2"
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d! !geeeeMf"	d! !geeee"	S/%(")E"+4+8(%&8"1)()%'2"5+3+%/()%'"/39" (%/3'E)%1+%'"	h"
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