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0) \$#,1'!2%!0%1&\*3&%&\*#1+2%#4!52,+2&,2%2) +,!51#16'!#%. !-&4&7#%, &!12!18&!92. &\*%!  
-&\$#\*#1+2%'!927&) &%!

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

.%/0), '1)23,%#%/ "04%'

5,6+/'+'\*7/40,)/2%/-+'8)\$09&'

!3,0\$': ;'<=>'

8,)?'""), '()\*+/'@&'

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M V0\*','%\*','%""#4%+'\$)/CNS+''-0/C'023+9-')/'-#%'")90)%9)/) 209""-+-K"")?'D+3+/%""'

! 2%,09+/'"]''

M U)J'+,%,%3+,+-0)/'"?), 'D+3+/%""!' 2%,09+/'",%\$%4+/-')'-#%'2)\*%,/'?0C#-'?),'

,%3+,+-0)/'"?), '0\$+9@!' 2%,09+/'"]'

l'#&3)

409-02";+'0/'") 2%'0/" -+/9%" ;'-#%'409-02" '\_\*%'0,%''+,%' /)-'3,0),0-0R%\*H'A#%?)\$\$) J0/C'%B+23\$%'")?'

9) 23\$%-%' ,%3+,+-0) /''\*0"3\$+&''0C/0?09+/-'+33,) 3,0+-0) /''')??K/\*0/C'+/\*'K/9%, -+0/-&'?,) 2'

409-02""0/'4+,0) K""9+""H''

### Historical Examples of Reparations

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' (%3+,+-0) /''#+4%""K99%""?K\$\$&'6%%/')??%,%\*0/'""%4%,+\$\$)-#%, '9)K/-,0%";'-)' +--%23--')'

2+@%' +

bd;===;===;=== '0/'3+&2%/'-''-#,)KC#'-#%'1/\*%3%/\*%/'-!' ""%""2%/'-8,)9%"";'J#0\$%'+'





[K%-0)/'-#%'4+\$K%')?'-#%'2)/%+,&'9)23%/'+-0)/'YI/\*0+'1\$+02''1)220''0)/;>EF=ZH'A#0''

%B+23\$%'#0C#0C#-'-#%'-%/'0)/'6%-J%%/'409-02''+'\*3%,3%-,+-),";+'J%\$\$+'-#%'J+&''

,%3+,+-0)/''9+'6%'\$''''2%+/0/C?K\$'J0-#)K-'C,)K3'3+,-0903+-0)/+'\*''&26)\$09'9)23)/%/'-'\$0@%'

+/'+3)\$)C&H''

'

'1/'/%+,\$&'4%,&'B+23\$%')?'9)23\$%-\*','%3+,+-0)/''-#%,%0''#%'0-+-0)/+'\*'%\$06%,+-0)/'

)/'-#%'0\*%')?'-#%'409-02'';+/'\*'+?)',2+\$'+3)\$)C&'?,)2'-#%'3%,3%-,+-),;'-#%'C)4%,/2%/-H'A#%'%'

%B+23\$%'#0C#0C#-'-#%'\*0?09K\$-&')?'\*%4%\$)30/C',%3+,+-0)/''-#+'-+',%2%+/0/C?K\$'-)-#)'

023+9-%\*6&'-%%0/WK''-09%','%-0-K-0)/'0''+020/C'-)'\*'\*,%''''H!/) -#%, '3) -%/-0+\$'0/'-+/9%')?'

,%3+,+-0)/''0/'-#%'5/0-%\*'.-+-%'0''-#%'6+--\$%)4%,UH(H'e='0/'-#%'U)K''%)? '(%3,%''%/-+-04%'H'A#%'

1)220''0)/'-)'-K\*&+/'\*V%4%\$)3'(%3+,+-0)/'8,)3)'+'\$''?),!'?,09+/'!2%,09+/'!'9-;+'\$')'@/)J/'

+''UH(H'e='0''+'60\$\$-#+'-J)K\$\*'%''+6\$0''#+'9)220''0)/'-)'\*%-,%20/%'-#%'/+0)/\_''')\$%0/'''\$+4%,&'

\*0''9,020/+0)/'+C+0/'-'?',%\*%'/'\$+4%\*3%)3\$%+/'\*'-#%0,'\*%'9%/'\*+/'-;'+/'\*'-#%'\$0/C%,0/C'023+9-'

)?''\$+4%,&H'N)-+6\$&-'#0''60\$\$0''/)-'\*\$%6+-0/C',%3+,+-0)/''3,)3)'+'\$;'-0-0'')/\$&'\*\$%6+-0/C'-#%'

)33),-K/0-&'-'0/4%'-0C+-%'C)4%,/2%/-'J,) /C\*)0/C'+C+0/'-'O\$+9@!'2%,09+/'H'A#0''60\$\$;'+'-#%'

-02%')?'J,0-0/C;'J+'0/-,)\*K9%\*'-)-#%'>>c-#1)/C,%''''6&'(%3,%''%/-+-04%'#%0\$+'D+9@')/'G%%;'

+?-%,'<F&%+',''?)'(%3,%''%/-+-04%'D)#/'1)&/%,'0/-,)\*K90/C'-#%'60\$\$0/-)'1)/C,%''''-)/)''+4+0\$H'

(%3+,+-0)/''?),''\$+4%,&'#+4%'#+\*'-#%'\$%+'-'K99%''''0/C)4%,/2%/'-\*%'30-%%??),-'?',)2'

) ,C+/(0R+-0)/''+/'\*2%26%,''?)'1)/C,%''''H!

### Japanese Incarceration and Redress

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' A#%'2)''-2+0/'-',%+2%B+23\$%')?' ,%3+,+-0)/''0/'!2%,09+

-)'+'",%\$)9+-0)/;%'4+9K+-0)/;'+/\*'0/9+,9%,+-0)/H'(%3+,+-0)/''+',%'+\$")',%?%,,%\*'-)'+'",%\*,%''''+/\*'  
,%"-0-K-0)/H'L #0\$%g0/-%,/2%/-h'0''-#%'2)"-'9)22)/\$&@/)J/'J),\*'-)'\*%"9,06%'-#%?)',9%\*'  
,%2)4+\$'+/\*'023,0'')/2%/-)'?D+3+/%''%'3%)3\$%'0/!'2%,09+?'-%,'-#%'+--+9@')/'8%+,\$'U+,6),;'-0'  
\*)%''/)-'3,)3%,&'\*%"9,06%'J#+-'#+33%/%'H'X),'-#%',%2+0/\*%,')?'-#0''3+3%,;g0/-%,/2%/-h'J0\$\$'  
/)-'6%'K''\*'-)'\*%"9,06%'-#%'0/9+,9%,+-0)/)'?D+3+/%''%'3%)3\$%'0/!'2%,09+/'9)/9%/-,+0)/'9+23''H'  
A#0''\*09-0)/'0''',%'3%9-?K\$')?'0/-%,40%J%'%'J0''#%'',%?'\$%9-04%')?'\$+/CK+C%'K''\*%'6&'D+3+/%''%''  
!2%,09+/'S,C+/'0R+-0)/'';'+/\*'-#%'2)"-'?+9-K+\$\$&'+99K,+-%H'(%3+,+-0)/''?'',D+3+/%''%'!2%,09+/'''  
J%,%'2%+/-')'+\*\*',%''''-#%'0/9+,9%,+-0)/)'?'3%)3\$%'')?'D+3+/%''%'+'9%''-&'0/'-#%'5.'\*K,0/C'L),\$\*'  
L+,'IHH'A#%'!2%,09+/'\*%'90'0)/'-)'??090+\$\$&'%/-%,'-#%'J+, 'J+''''3K,,%'\*%'6&'-%'6)260/C')?'8%+,\$'  
U+,6), '6&'D+3+/%''%'+'0,?)',9%''')/'V%9%26%,':;>Ee>H'AJ)'\$+,C%'''#03''J%,%'\*%'-,)&%\*'+-#%'  
8%+,\$'U+,6), '/+4+\$'6+'%'0/'U+J+00;'+/\*'<;e=d'3%)3\$%'J%,%'@0\$\$%\*;'J#09#3,)23-%\*'-#%'5/0-%\*'  
.-+-%''-)'%/-%,'-#%'J+, '+/\*'8,%'0\*%/'-())''%4%\$-)'%/'9-'7B%9K-04%'S,\*, 'E=cc')/'X%6,K+,&'>E;'  
>Ee<'YD! NPH),CZH'7B%9K-04%'S,\*, 'E=cc',%[K0,%\*'-#+-'D+3+/%''%'+'!2%,09+/'''?)?'D+3+/%''%'  
\*%"9%/'-6%'),K/\*%'\*%'K3'+/\*'#)K''%'0/'',%\$)9+-0)/'9+23''H'L0-#'+/&J#%,%'6%-J%/%?)'K,'\*+&''-)'  
-J)'J%#@''?)?'-09%:'D+3+/%''%'!2%,09+/'''J%,%'?)',9%\*'-)'\*0''3)''%')?'-#%0,'3%,)'+\$'6%\$)/C0/C''  
+/\*''%'\$\$'-#%0,'3,)3%,-&'H'A#%&'J%,%'0/'-,K9-%\*'-)')/\$&'6,0/C'J#+-'-#%&'9)K\$\*'9+, ,&,'%'K\$-0/C'0/'  
\$)''-6K'0/'%'''';3,)3%,-&'+/\*'\$+/\*'K%'-)'-#%0,?)',9%\*%'4+9K+-0)/H'A#0''J+'''+33%/0/C'0/'+'%+,  
)?'+/-0MD+3+/%''%',+90'2'+/\*''')'J+'''+99%3-%\*%'6&'-%'\$+,C%,!'2%,09+/'3K6\$09H'I-'J+''',%[K0,%\*'-#+-'  
3%)3\$%'J0-#'+''\$0--\$'+''>i>c-#D+3



+/\*',%2)4%\*?',)2'-#%0,'#)2%'H!-'AK\$%G+@%;'+/)-#%, '2+/' ;'. #)09#0'D+2%""S@+2)-);'J+""#)-'  
-)'\*%+-#6&+'CK+,\*'YD! NPH),CZH'

I/9+,9%,+-0) /'%/\*%\*0/'>Ee` ;'+?-%, '-#%'. K3,%2%'1)K,-',K\$%\*' -#+- '#%'L (! '\*0\*'/)-#'+4%'  
-#%'+K-#),0-&'-' )'\*%-+0/'\$)&+'90-0R%/'"0/'7/\*)'4H'A#%'5/0-%\*'. -+-%"H'A#%'\$+"-'9)/9%/-,+-0)/'9+23;'  
AK\$%G+@%; '\*0\*'/)-'9\$) ""'K/-0\$>Eech''7B%9K-04%'S, \*%, 'E=cc'J+""/)-')??090\$\$\$&',%3%+\$%\*'K/-0\$>E: c'  
6&'8,%0\*%/'-X), \*H'I/'>EFF'8,%0\*%/'-'(%+C+/'"0C/%\*'UH(H'ee< ;'-#%'1040\$G06%, -0%""! 9-)'>EFF;'  
J#09#""-+-%""-#+- '#-%'023,0")/2%/-)'?3%)3\$%)?'D+3+/%""'+/9%"-,&'J+""g\$+,C%\$&'2)-04+-%\*'6&'  
,+90+\$'3,%WK\*09%;'J+,-02%#&'-%,0+;'+'\*+'?+0\$K,%')?'3)\$0-09+\$'\$%+\*%, "#03h+'/\*'\$0"-""0-""C)+\$""+""-)'

K/9)4%,%\*'2+/&'%2)-0) / "' + / \* "' - ) , 0% "' - # + - ' # + \* ' 6% % / ' 6K , 0% \* '?' , '&% + , "H"X) , '+' 2) , %'

9) 23 , % # % / " 04% ' % B3\$ + / + - 0) / ' ) ? ' - # % ' C , + " , ) ) - " " " - , KCC\$ % ' + / \* ' 3% , " ) / + \$ + 99) K / - " ) ? ' - # % ' 3 , ) 9% " " " "

? , ) 2' 2% 26% , " ) ? ' - # % ' G) " " ! / C% \$ % " " 9# + 3 - % , ; ' J # 09# ' J + , , + / - " " \* % - + 0\$ ' - # + - ' 0" "

\$) """"+,%""0C/0?09+/-&\$'+,C%'9)/"0\*%,0/C'J#+-'-#%0,'4+\$K%'J)K\$\*'6%'0/'>EE=""\*)\$\$+,,";J#%/'-#%'  
?0,"-',%3+,+0)/'3+&2%/'-J+'2+\*%;'+/\*'0/'9)23+,0")/'-)-#%'b<=;=== '3+0\*'+""%,\*%,%"""?),'-#%""'  
\$) """"'H'VK%'-)-#%'#%9-09'+/\*'+6K"04%/'+-K,%)?'D+3+/%""%'4+9K+-0)/;'-#%,%'+,%'/'-)+99K,+-%'  
,%9), \*""-)'\*%-%,20/%'+2),%9%,+0/'9+\$9K\$+-0)/')?'\$) """"'H'  
A#%')-#%,2)/%-+,&'3,)C,+2'-#+-'J+""+'3+,-)'?D+3+/%""%'(%\*,%""""J+""-#%'1040\$'G06%, -0%""  
8K6\$09'7\*K9+-0)/'XK/\*H'A#%'C)+\$"")?'-#0""?K/\*'J%,%-)'%/"K,%'-#%','%2%26,+/9%)?'D+3+/%""'  
0/9+,9%,+0)/'+/\*'-)'K/\*%, "-+/\*'-#%'9+K""")?'%4%/-""0/'-#0""+/\*""020\$, ""0-K+-0)/"H'bd;d=== '  
?,)2'-#%'?K/\*'J%,%K""\*'-)""3)/"), '>d`3,)W09-""0/9\$K\*0/C'+,-;',%""+,9#;'?%\$\$)J"#03";'  
\$+/\*2+,@";'+/\*'9K,,09K\$K2'\*%4%\$)32%/'-YT+2+-);'<=>dZH'S-#%, '+J+,%//%"""+9-0)/""3)/"),%\*'  
6&' -#%'3K6\$09%'\*K9+-0)/'?K/\*'0/9\$K\*'3K6\$09""%,409%'+//)K/9%2%/'-";'-#%','%3K6\$0"#0/C)?'-#%'  
8%,")/+D\$DK"-09%'V%/0%\*',%3),-;'+/\*%'\*0-0/C'-#%'-,+/"9,03-"")?'-%"-02)/0%""?,)2'1L (I1'#%+,0/C""

+/\*'



### Economic Impacts

P) "-J), @) /'-#%'9) /) 209'023+9-')?'0/9+, 9%, +-0) /'"#) J""0C/0?09+/-'?'0/+ /90+\$') ""%""?), 'D+3+/%""!' 2%, 09+/'"J#) 'J%, %'0/9+, 9%, +-%'H'79) /) 209'\$) ""%""\$+, C%\$&'"-2 2%\*?', ) 2'#+40/C'-)' ""\$\$'3%, ") /+\$'0-2""+/'\*3,) 3%, -&'+'+'\$) ""';\$) "0/C'6K"0/%""";'+/\*'\$) "-') 33), -K/0-&'?), 'J+C%"H' P), %""3%90?09+\$\$&'\$) ""%""9+2%?', ) 2""%\$\$0/C'+K-) 2) 60\$""'-)'0/\*040\*K+\$""), '-#%'C) 4%, /2%/-'?), ' "0C/0?09+/-&'%, %\*K9%\*3, 09%"; ""%\$\$0/C'+/\*'-)' ) 33), -K/0"- ""+\$") '+-' "0C/0?09+/-&'%, %\*K9%\*3, 09%"; '\$) "0/C""2+\$'6K"0/%""""\*K%-)' -#%'0/+60\$0-&'-) '2+0/-+0/'-#%2'\*K, 0/C'0/9+, 9%, +-0) /;'+/\*' %/-, K"-0/C'0-2""), '3,) 3%, -&'-) '9+, %-+@%, ""J#)')?-%/'+6+/\*) /%\*'3,) 3%, -&'), '/%4%, ', %-K, /%\*' 0-%2""YQ+"#02+;'>EE: ZH'A#%, %'J%, %'+\$") ""0C/0?09+/-'\$) ""%""0/'-#%'C, 09K\$-K, %'0/\*K"-, &+'""+6) K'-J)M-#0, \*""')?'-#%'D+3+/%""'J), @?), 9%'0/'-#%'J"-, /'9) +-\$""-+-%"" , %\$0%\*') /'-#%'C, 09K\$-K, %' 0/\*K"-, &'+'\*'+6) K-'bF=;===;===J), -#')?'+, 2\$+/\*'+/\*%' [K032%/-'6%) /C%\*-)'N0@@@0') /'-#%' J%"-'9) +-'YQ+"#02+;'>EE: ZH'

S-#%, ""0C/0?09+/-'\$) ""%""9+2%?', ) 2'\$) "-'J+C%"H'! \$\$%' "-02+-%" ;'0/9\$K\*0/C'9) /"% , 4+-04%' %"-02+-%" ;') /'#) J'2K9#'0/9+, 9%, +-%'D+3+/%""! 2%, 09+/'"\$) "-'K%'-)'3,) 3%, -&'+'\*J+C%\$') ""%"" "#) J""0C/0?09+/-&'#0C#%, '\$) ""%""-#+'/'J#+-'J+"3+0\*'6&'-%'C) 4%, /2%/-'-' )+\*\* , %""-#) "%\$') ""%"" -#,) KC#'-#%'>EeF'D+3+/%""! 2%, 09+/'74+9K+-0) /'1\$+02""! 9-'+'\*'-#%'>EFF'1040\$'G06%, -0%""! 9-H'I/' -#%'74+9K+-0) /""1\$+02""! 9-;'-#%'5. 'C) 4%, /2%/-'3+0\*' +6) K-'bd: ;===;===0/'-) -+\$'-)'-#%'2+W), 0-&' )?'-#%'<c;` cF'9\$+02+/-";'+/\*'-#%'>EFF'1040\$'G06%, -0%""! 9-'3+0\*'b<=;===-)' +\$\$""K, 4040/C' 0/9+, 9%, %";'J#09#'J+"3+6) K-'b>;c===;===;===?', ) 2'-#%'C) 4%, /2%/-'YQ+"#02+;'>EE: ZH'U) J%4%, ;' +""-K\*&'6&'0,) ) 2'+/\*' (0%2%, '0/'>EeE'?) K/\*'-#+-'6+%"\*') /'9) /"% , 4+-04%' 2%+"K, %""')?'0/9) 2%' +/\*'3,) 3%, -&') ""';'-#%, %'J+"3+6) K-'b: :;===;===J), -#')?') ""%""-)'9\$+02'?, ) 2'-#%'74+9K+-0) /""

0/'-#%'9)/C,%''0)/+\*\$%\$06%,+-0)/'?),'-#%>EFF'1040\$'G06%,-0%''! 9-'?),'/)-'+99)K/-0/C?),'-#%('\$)''''  
)?'?0/+/'90+\$\*\$)9K2%/'-''\*K%-)'0/9+,9%,+-0)/'-#+-'J%,%/'/%%\*%\*-)'3,)4%'?0/+/'90+\$('\$)''''%''H'0,)2'  
+/'\*(0%2%,?)9K''%\*')/'G)''! /C%\$%'"+'''+23\$%'+/'\*K''%\*9)''%,4+-04%'2%+"K,%''\$0@%'6+"0/C'  
9+\$9K\$+-0)''')/'>Ee>'9)''-''+\$-#)KC#'-#%0, ''0''''-0\$\$9)''0\*%,%\*'-#%'2)''-'-#),)KC#'+/'+\$&'0''')?'  
%9)/)209'023+9-''')?'%4+9K+-0)/'YQ+'#02+;'>EE: ZH'

A#%,%'0''+'0C/0?09+/'-\$+9@')?' ,%'%+,9#')/'-#%'99)/)209'023+9-''?',)2'-#%'<>'-'9%/-K,&  
+/'-#%'C%/,% ,+-0)/+\$'023+9-')?'0/9+,9%,+-0)/'?,)2'+/'%9)/)209'3%, "3%9-04%h'1#0/'Y<==eZ'0''-#%'  
2)''-',%9%/'-%9)/)209''-K\*&+'/'\*''')\$%'''-K\*&')/'-#%'%B-%/'-')?('\$)''''%''''3%90?09+\$\$&'\*K%-)'J+C%('\$)''''  
+/'\*\$+6), '2+, @%- 'J0-#\* ,+J+\$+'/'\*0-''\$)/CM-%, 2'%??%9-'''+?-%, '0/9+,9%,+-0)/H'A)'K/'\*%, ''-/'\*#)J'  
2+\$%'J), @0/CM+C%'D+3+/'%''! 2%,09+/'''J)K\$\*'#+4%'?+, %\*0?'0/9+,9%,+-0)/'#+\*' /)-'#+33%/%'\* ;'  
1#0/'K''%\*-#%'D+3+/'%''3)3K\$+-0)/'?'U+J+00;'J#09#'J+''' /)-''K6W%9-')'0/9+,9%,+-0)/;+'''+'  
9)/-,) \$'C,)K3H'1#0/'?)K/'\*%40\*%/9%')?'%+, /0/C''\$)''''%''K3-)'<` '&%+, '''+?-%, '0/9+,9%,+-0)/H'A#%'  
C,%+-%'-'%+, /0/C'\$)''''%''J%,%?) ,'-#%&)K/C%'-'C,)K3')?'2+\$%'0/9+,9%,%'''+/'\*J+'''\*%-%, 20/%\*'

0/9+,9%,+-%\*H'(%"%+,9#9)/\*K9-%\*)/'-#%'9)/)209'023+9-''')?0/9+,9%,+-0)/'\$+,C%\$&'?)9K"%''')/'  
 -#%'\$)''''?,,)2'3,)3%,-&'+'\*%+,/0/C''')/'-#)''%0/9+,9%,+-%\*'+/\*''#)K\$\*'6%'B3+/\*%\*-)'  
 0/9\$K\*%-#%'023+9-''')/'-#%'9#0\$\*,%/')?0/9+,9%,+-%\*'+D+3+/%''!'2%,09+/'H''

### Socioeconomic Status of Japanese Americans

! A#%'\*0"9K''''0)/')?-'#%'023+9-''')?0/9+,9%,+-0)/'2K"-6%'9)/-B-K+\$0R%\*'6&'-%'  
 ")90)%9)/)209''-+K''')?'D+3+/%''!'2%,09+/'"-#,)KC#)K-'-#%'<=#'9%/-K,&H'V+--+)'/'-#%'  
 %\*K9+-0)/+\$'+--+0/2%/-'+/\*')99K3+-0)/')?'D+3+/%''!'2%,09+/'"J+''',%9),\*%\*'6&'-%'5/0-%\*'  
 .-+-%''L+,'(%\$)9+-0)/!'K-#),0-&'6%?),%0/9+,9%,+-0)/;#)J%4%,;'+'2%/0)/%\*0/'  
 '-#%'I(. '\*%"-,) &%\*0/9)2%'-+B',%9),\*''')?-'#%'0/9+,9%,+-%\*?',)2'>EdE'-)'>Ee<'  
 YQ+''#02+;'>EE:ZH'A#0''''-K\*&'\$')?)K/'-#+-'D+3+/%''!'2%,09+/'"J%,%'+'\$)''K99%''''K\$'6%?),%'-#%'  
 J+,';J0-#'3+,-09K\$+,'''-,%/C-#0/'-#%'C,09K\$-K,+\$/0/\*K''-,&H'X),%B+23\$%;'D+3+/%''?'\$),0''-''  
 +99)K/-%\*?),'>c')K-')?'<'20\$\$0)/'\*)\$\$+,'0/'?)J%, '2+,@-%'6K"0/'''''0/'G)''! /C%\$%''YQ+''#02+;'<br>
 >EE:ZH!'>E:d''-K\*&)/'-#%'''')90)%9)/)209'2)60\$0-&'?)?'D+3+/%''!'2%,09+/'''\$))@%\*'+-'-#,%%'<br>
 C%/%,+-0)/''+/\*?)K/\*'K/"K,3,0"0/C\$&'#+-'-#%'\*K9+-0)/+\$'+--+0/2%/-'\$%4%\$')?'-#%'>'-'<br>
 C%/%,+-0)/'J+''#0C#\$&'9),,%\$+-%\*'J0-#'-#%'\*K9+-0)/+\$'+--+0/2%/-'\$%4%\$'0/'-#%'?)\$\$)J0/C'  
 C%/%,+-0)/''6K-'?)9K"%\*')/'-#%'023+9-')?'+'''020\$+-0)/''-&\$%''',+-#%, '-#+'/'-#%'023+9-')?'<br>
 0/9+,9%,+-0)/'YG%40/%;'>E:dZH''  
 ' ! /)-#%,''-K\*&'6&'1+K\*0\$\$+/'\*P0B)/'Y<=><L'\$))@%\*'+-'-#%'023+9-''')?0/9+,9%,+-0)/')/'<br>
 #K2+/'+'\*3#&'09+\$'9+30-+\$H'1+K\*0\$\$+/'\*P0B)/

\$0@%'#0C#%, '%\*K9+-0)/;'0/"-%+\*)?'3#&"09+\$'9+30-+\$'0@%'\$+/\*;'J#09#'#+\*'3,)4%/'-)'6%'+'0"@&'  
0/4%"-2%/'-?) ,'-#0""-#/09'C,)K3'6%9+K""%)?'-#%'\$) ""%""?,) 2'0/9+,9%,+-0) /'Y1+K\*0\$\$'+/\*'P0B) /;'  
<=><ZH'A#0"" ,%""+,9#'J+""9) 23\$%-%'K"0/C'-#%'\*+-+?',) 2'-#%'D+3+/%""! 2%,09+/'(%""+,9#'  
8,)W%9-'+'\*?)K/\*'-#+-'6%#+40),?',) 2'D+3+/%""! 2%,09+/'"3)"-M0/9+,9%,+-0) /'+\$0C/%\*'J0-#'<br>%9) /) 209'-#%),&:'#)J%4%,;'-#0"" ,%""+,9#'\*0\*/)-'0/9\$K\*%'+'-#),)KC#'+/+\$&"0"") /'-#%'023+9-') /<br>9#+/C0/C?',) 2'0/4%"-0/C'0/'3#&"09+\$'9+30-+\$'-)'#K2+'9+30-+\$') /'"')90)%9) /) 209'"'+-K"H" /+\$&"0""<br>)'-#%'\$+,C%, ""')90)%9) /) 209'+/\*'J%+\$-#023+9-"") /'0/4%"-0/C'0/'#K2+'9+30-+\$'0/"-%+\*)?'<br>3#&"09+\$'9+30-+\$'J)K\$\*'6%',%\$%4+/'-')'-#%'\*0"9K""0) /')?%??%9-04%',%3+,+-0) /'"'+/\*'0/?), 2+-0) /') /'

C%/%,+\$\$&'3)"0-04%'6K-'J%,%'0/?\$K%/9%\*'6&')/%'\_''J),,\$\*40%JH'123),-+/-&'-'#0''%',%"+,9#'+\$")'  
\*%-%,20/%\*'-#+-',%3+,+0)/'"\*)'/'-9)23\$%-&'#%+\$'-,+K2+'+\$-#)KC#'409-02''\*)'40%J'-#%2'+''  
C%/%,+\$\$&'3)"0-04%\$&'023+9-?K\$H'A#%'<=>E'N+C+--''-K\*&')/','+90+\$'-,+K2+'?,)2'J+, -02%'  
0/9+,9%,+0)/'\*%-+0\$''-#%''-',%'''),''-#+-'0+3+/%''%3%)3\$%'?+9%\*'K%'-)'0/9+,9%,+0)/'+'\*'-#%'  
0/-%,C%/%,+0)/+\$'023+9-''?)''K9#'-,+K2+'J#0\$%'-#%>EE='N+C+--''-K\*&?)K/'\*'-#+-'6%#+40),')?'



' A#%'%B0"-0/C'\$0-%,+-K,%')/'-#%'K6W%9-')?'D+3+/%''%,%3+,+-0)/' '\*')%' /)-'0/9\$K\*%'+'?)\$\$)JM  
K3')/'-#%'90)%9)/)209'023+9-''')?' ,%3+,+-0) /''+/'\*\$+,C%\$\$\*'%/0%'+'9) //9-0) /'6%-J% %/'  
D+3+/%''%,%3+,+-0) /''+/'-#%'2)4%2%/-?) ,,%3+,+-0) /''?), '0\$+9@! 2%,09+/'H' (%''%+,9#'/%%\*''  
-) '6%'%B3+/'\*%'-' )'0/9\$K\*%'2),%'2) \*%, /''90)%9) /)209'023+9-''')?' ,%3+,+-0) /';+/'\*'  
C%/%,+-0) /+\$'023+9-''')?' ,%3+,+-0) /''H'A#0'' ,%'%+,9#')K\$\*'6%'%'3%90+\$\$&' ,%'\$4+/-')'-#%'2) \*%, /'  
?0C#-'?) ,,%3+,+-0) /''?), )-#%, 'C,)K3''0/'! 2%,09+;' /+2%\$&:'0\$+9@! 2%,09+/' '+/'\*%'9%/'\*+/-''')?'  
%/'\$+4%'\*3%)3\$%H'P& ,%'%+,9#'+02%\*'-' )'%B3+/'\*') /'-#%'%B0"-0/C' ,%'%+,9#%'6&'%B+20/0/C'-#%'  
C%/%,+-0) /+\$'023+9-') /''90)%9) /)209''-+-K'' ,%3+,+-0) /''#+'\*?) , 'D+3+/%''%! 2%,09+/' '+/'\*'  
,%\$+-0/

[K+/-0-+-04%' ,%'%,9# '2%-#) \*"' J%,%'9) /'0\*%,%'\*;' -#%,%'J +"' /) -'+\*% [K+-%'\*+-+)' /

")90)%9) /) 209'" -+K"' +/'\* 'J%+\$-#?) , 'D+3+/%"'! 2%,09+/'"' 3%90?09+\$\$&'?) , '+'\$) /C%/) KC#'-02%'

3%,0) \*H'/?), 2+-0) /'C+0/%\*?' ,) 2' [K+/-0-+-04%'\*+-+'\$0@%\$\$&'J) K\$\*' /) -'+4%'023+9-%\*'+\$-%, %\*'

9) /9\$K"0) /"'6K-' ,+-#%, '+'\*%\*'+ ' [K+/-0-+-04%'3% , "3%9-04%'-' -#%' +/\$&"0"' -#+-'20, ,) , "'-#%'?0/\*0/C"

? ,) 2' [K+\$0-+-04%' +/\$&"0'H'j K+/-0-+-04%'2%-#) \*"' +\$"' 'J) K\$\*' #+4%'3 ,) 40\*%\*' \*+-+?) , '\*0??%, %/-'

,%'%+, 9# [K%"-0) /"' ;'3%90?09+\$\$&' ) /'-#%'3+-- , /"' +/'\*9#+/C"' )?'D+3+/%"'! 2%,09+/'%9) /) 209'

"-+-K";'J #09#'+ ,%' /) -'%B3\$) ,%'\*0/'-#0"' -K\* &H!

!!!!!!! 'l'0/-%,40%J%'\*-'#%'K,404) , "' )?'0/9+,9%,+-0) /;' -#%'9#0\$\* , %/)'?'K,404) , "' )?'0/9+,9%,+-0) /;'

+/'\*-'#%'C, +/'\*9#0\$\* , %/)'?'K,404) , "' )?'0/9+,9%,+-0) /-' )'C+-#%, '-%"-02) /&' ) /'%9) /) 209'\$) "";' -)'

#%+, '0/\*040\*K+\$+/'\* "'3%90?09'+99) K/-' ) /'#) J' (%\* , %"'2) /%&'J +"'K"%\* ;'+/'\*-' ) '\$%+, /'2) , %'

+6) K-' -#%'0/\*040\*K+\$+'0C/0?09+/9%)?' , %\* , %"'H'P+ /&' +99) K/-' "%B0"-' )?'-#%'2) -0) /+'0C/0?09+/9%

)?'-#%'C) 4%, /2%/-', %9) C/0-0) /')?'?+K\$-+'\* 'J ,) /C\*) 0/C;''') '+/\$&"0"' J +"' +\$"' )'9) /'\*K9-%\*'K"0/C







+/"J%, 'J+' eH> ; J0-#-#% '\$) J%" -'+/"J%, '6%0/C'R%, )'+/\*'-#% '#0C#%' -'6%0/C'FH` 'YA#0''0''6+'%\*') /'F'

,% "3) /"%"; '+ '<' ,% "3) /\*% /-""9) K\$\*'/) -'+/"J%, '-#0''' [K%" -0) /ZH'A#%-J)' ,% "3) /\*% /-""J#)' ,+-%\*'

-#%0, '@/) J\$%\*C%' -#% '#0C#%' -;' ) /%'+-'FH`'+/\*'-#%') -#%, '+-'c; '#+\*', % [K%" -%\*'+/\*', %9%04%\*'-#%0, '



N) -+6\$&; -#%,%'J%,%'`'3%) 3\$%'J#)'J%,%'%23\$)&%\*'0/' +C,09K\$-K,%;'J#09#0/9\$K\*%'C+, \*%/0/C'+/\*'

?+,20/C;'J#%-#%,') ,'/)-' -#%&') J/%\*' -#%'?+, 2\$/ \*H'X), '-#%'C%/%,+-0) /'6), /'+,) K/\*' -#%'>Ee=";





>@"#\* @(&\$#@%C#\*\$@/\*0&/E; /2' B\*%0\*\$@/\*7"00/&/2\*\$C (B#\*&/ . (&(\$%2#0&%- \*\$@/\*L "?" )M"D/&\$#/#' <' \$\*%0\*98==\*  
C/&/\*; #/73'l %\$/\*\$@(\$\*\$@/\*' @(&\$#@%C#\* - %&/7(\$\* . %2\$#\*2\*%C\*&/ . (&(\$%2#\*C/&/# . /2\$\*D/' (; #/\*\$@/\*  
. /% . )/\*2\$&/&?"/C/7\*C/&/\*(D)/\*\$%&/ . %&\$%2\*%C\*\$@/\*&\* . (&/2\$#N#"D)"2F#N" (27#/)0N"C@/2\*&/)/?(2\$N" ; #/7\*  
\$@/\*&&/7&/##\* (27"D/' (; #/\* - %\$\* . /% . )/\*; #/7\*\$@/\* - %2/B\*0%&\* - ; )\$ . )/\* . ; & . %#/ #3\*0%& / , ( - . )/N"0\* ( . /&#%2\*  
&/ . %&\$ /7\*\$@/B\*# . /2\$\*\$@/\*&&/7&/##\*%2\* (\* (& (27\* (\*7%2 (\$%2\*\$\* (\* @(&\$BN"\$@(\$\*C% ; )7\*\* %; 2\$ (#%2/\*&/ . %&\$\*  
0%&\*HP%2 (\$%2#QR"0\$#J\* (27\*2/\*&/ . %&\$\*0%&\*HS" F+ , . /2#/#J3< )#%N"2%\$/\*\$@(\$\*C%\* . /% . )/\*&/ . %&\$ /7\*\$@/B\*C/&/  
; 2#; &/%0\*%C\*&/ . (&(\$%2#\*C/&/# . /2\$\* (27\*\$@/\*&/#\*2%\*% ) ; - 2\*%2\*\$@/\*' @(&\$\*\$@(\$\*7"# . ) (B#\*\$@(\$3\*>@/\*  
HP%2 (\$%2#QR"0\$#N" F& ; . "2F\*&/ . &/# /2\$\*7%2 (\$%2#\*\$%\*2%2 . &%0\*\$%&F (2"G (\$%2#N" (' (7/- " "2#"\$ ; \$%2#N" (27\*  
7"&/' \$ - %2/(\$&B"F"0\$#\*\$%0 (- )B\* - / - D/&#3\*>@/\*HU& (' \$" ' ) \*V#/#J\*F& ; . "2F\*&/ . &/# /2\$#\* ; #/#\*\$@(\$\*\$@/\*  
&/# . %27/2\$\*C% ; )7\*@( ?/\* - (7/\*C@/\$@/&%&\*2%\$\*\$@/B\*@(7\*&/7&/##\* - %2/BN"2' ) ; 7"2F\*)% (2\* . (B- /2\$#\* (27\*  
%\$@/&\*D")#N" % - D"2"2F\*\$@/\* . (B- /2\$\*C\*\$@\*\$@/\*&&/F ; ) (&"2' % - /N"7 ("B# . /27"2F\*0%&\* @")7&/2\*%&F/2/&() \*  
2//7#3\*>@/\*HS" F+ , . /2#/#N" F& ; . "2F\*&/ . &/# /2\$#\* ) (&F/&\* / , . /27"\$ ; &/#\*\$@(\$\*C/&/\* /2(D)/7\*DB\*\$@/\*  
&/ . (&(\$%2#N"2' ) ; 7"2F\* . (B"2F\*0%&\* (\* - %& /\* , \$& (? (F (2\$\*C/77"2FN" (\*2/C\* ' (&N"2/C\*0 ; &2"\$ ; &/N"%&\*@ - / \*  
" - . &%? / - /2\$#3\*>@/\*HW\$@/&QR/2/& ) \* : . /27"2FJ\*F& ; . "2F\*&/ . &/# /2\$#\*\$@/\* ; #/#\*\$@(\$\*7"7\*2%\$\*0\*\$\*\*2\$\*\$@/\*  
%\$@/&\* ' (\$/F%& /#\*C@" @\*C/&/ "2? /#\*\$"2F\* (27\*2%2K/##/2\$")# . /27"2F3\*\*

!



\*0?09K\$-&',%6K0\$\*0/C;'K/0-0/C;'+/\*%/C+C0/C'+9)22K/0-&' -#+-'J+'''+99K''-)2%\*-)'@%%30/C'0''

#%+\*\*\*)J/H!

=#: 4&!C?!!

<p>5&amp;4&amp;,1!*&amp;' \$2%' &amp;!12! 18&amp;!D6&amp;'1+2%! ! ! EF #'!18&amp;!GCHIHhh! '6AA+,+&amp;%1JK!</p>	<p>gS?'9)K, "%/)-h'Y''-+-%*'6&amp;'&lt;*'0??%,%/-',%3)/%*%/'-''Z!  IN);'l'-#0/@'0-'J+'''-)@%/H'l'-#0/@'-#+-'-%%'\$)''''')??)K,'&amp;%+, ''')?'J),@%*K9+-0)/'+/*&amp;)K,'\$0?%'+'/*'-#%'\$)''''')?'3,)3%,-&amp;'+/*%'4%,&amp;-#0/C'&amp;)K' )J/%*'\$/+'?'+,2''-),%'6K''0/%''''''&amp;)K'@/)J'3,%90)K''?'+20&amp;\$' #%0,\$))2''H'&amp;)K'@/)J'-#%'#'+2%#K20\$0+-0)/;'-#%'?%+,;'-#%'+/C%,'+/*&amp;) &amp;)K'@/)J'6%0/C)'-,+90R%'+'+'3%)3\$%;'l'*)/k'-#0/@'-#%,%k'''+/&amp;-#0/C'-#+-'9)K\$*9)23%/'+'-%?)','-#+-'l''  gL%%\$;'0-'J+'/'k-'K??090%/'-?),'J#+-'-#&amp;%'\$)''-')?'9)K, "%H'l'-J+''' 2%+/0/C?K\$%/)KC#'-#+-'3%)3\$%'?%\$-'40/*09+--%*h!</p>
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=#: 4&!L?!!

<p>!M, , 6\$#1+2%! : N!O&amp;%&amp;*#1+2%!5&amp;4&amp;,1!PQ#) \$4&amp;'!</p>			
0@R!	0(!M, , 6\$#1+2%!	B0(!M, , 6\$#1+2%!	O0(!M, , 6\$#1+2%!
>'	a+, %%/,%,'	A%+9#%, '+/*!' *20/0''-,-),'	V)9-), ;'A%+9#%,'
c'	X+, 2%, ''	(%-+0\$%, '	G+J &%, ;'5/0)/'S,C+/0R%, '

>(D)/^X^7"#.) (B#%' ' ; . (\$%2#%/)7\*DB\*7"00/&/2\$\*F/2/&(\$%2#%0". /%.) /""2\*\$@/#(- /0(- "B3">&/27\*7"#.) (B#\*\$@/\*\$&(2#"\$%2\*0&%- \*C%&Y"2F'') (#\*\$%\*. &%0/##%2(\*\*) (##\* (&/&#\*1 %\$/%' ' ; . (\$%2#%/ . (&(\$/7\*DB\*( \*% - - (\*"2\*\$@/\*R6<\*%); - 2\*&/. &/#/2\$%' ' ; . (\$%2#%/)7\*DB\*7"00/&/2\$\*#D)2F#3\*\*

=#: 4&!S?!!

<p>5&amp;4&amp;,1!T621&amp;'!#: 261! B2) ) 6%+1N!U&amp;#4%3!18*2638! -&amp;. *&amp;'!V*2, &amp;'!#%. !W+, 12*N! !</p>	<p>l -m-#%#%+,0/C'n'J+''' ,%+\$\$&amp;'@/*')?'+'4%, &amp;'-, +/'?) , 2+-04' 2)2%/'-?) , '-#%'D+3+/%''! 2%,09+/'9)22K/0-&amp;'l'  gL #%/3%)3\$%'*0*'C%-#%'3)\$)C&amp;:'0-'*0*'2%+/'+'J#)\$%'\$)-H' T)K'9)K\$*'?'%\$+' , %+\$''%/''')?' , %*%23-0)/'+/*'-#%'J#)\$%' -#0/C'+6)K-'6%0/C', %\$0%4%'')?'-#+-'6K, %%/')?'CK0\$-h'  gl-'m, %* , %''n'9#+/C%'*'+\$\$')?'K''6%9+K''%0-'\$0?-%*' -#+-'@/*')?' 2+&amp;6%0/?%, 0), 0-&amp;' , ''#'+2%h'  gl'?'%\$3,)K*%,H'T)K'@/)J;'l'-#0/@')K,'9)22K/0-&amp;'?'%\$'' 9%, -+0/'3,0*%H'T)K'@/)J'&amp;)K'9)K\$*#)\$*'&amp;)K, '#%+*'K3'6%--%, h'</p>
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2+@0/C'-#%'3)\$)C&'2),%'2%+/0/C?K\$+/'\*6%0/C'+9)/''% [K%/0+\$9) "'-)'-#%'C)4%,/2%/-'0/'

-)-+\$H'A#0''0\*%+'0''+'\$')'%B3,%''''\*0/)-#%, '3,%40)K''-%"-02)/&'0/9\$K\*0/C'+/0/-,40%J'J0-#D)#/'

A+-%0''#0'+/'\*N8('J#%,%'A+-%0''#0''-+-%\*'-#%'?)\$\$)J0/C\''

gA#%','\*%,%''''9+23+0C/'J+''/k-'W''-'+6)K-'-,&0/C-)'C+0/'2)/%-+,&'9)23%/''+0)/H'  
l'2%+/';&)K'?0CK,%'-#,%%'&%+',''')?'023,0'')/2%/-'+/'\*'-#%'d='&%+',''')?'CK0\$-'+/'\*'  
"#+2%'J%'\$04%\*'J0-#;'b<=;===J+''/k-'C)0/C-)'6,)C+-%'+\$\$')?'-#+-H'OK-'-#%'  
2)/%&'J+''3+,-)'?'-#%'2%'''+C%H'A#%! 2%,09+/'3K6\$09'\*0\*/k-'C04%'+ '\*+2/'K/-0\$'  
-#%'20/K-%'J%'''-+,-%\*'\*%2+/'\*0/C'9)23%/''+0)/h'YD)#/'A+-%0''#0;'N8('l/-,40%J;'  
P+,9#e;'<=<=ZH'

! 99),\*0/C-)'-#%'! 2%,09+/'8"&9#)\$)C09+\$!' ""')90+-0)/;'""')90)%9)/)209''-+K";'J#09#0''

0/'\*09+-04%')?'9\$+'''';0''g)?-%/2%+"K,%\*'+''+9)260/+0)/')?'\*K9+-0)/;'0/9)2%'+'\*)99K3+-0)/hH'

L#0\$%'\*+-'')/0/9)2%'J+''/)-'9)\$\$%9-%\*,'""')90)%9)/)209''-+K''9+/'"-0\$'6%'+/+\$&R%\*'6&'K"0/C'

\*+-'')/'%\*K9+-0)/'+/'\*)99K3+-0)/;'6)-#')?'J#09#0/'?K%/9%'0/9)2%H'S99K3+-0)/''#%\$\*'6&'-'#%'

C%/%,+-0)/'-#+-'J+''0/9+,9%,+-%\*'+''+\*K\$-'J%,%'\$+,C%\$&'J),@0/CM9\$+'''';'B+23\$%'0/9\$K\*%'

?+,20/C;'%,+0\$;'C+,\*%/0/C;'?0"#0/CH'L#%/9)23+,0/C')99K3+-0)/''#%\$\*'6&'l!;'!l!;'+'\*al!;'-'#%,%'

0''+'-,%/\*-')J+,\*''2),%'3,)?'''''0)/+\$+/'\*#0C#%,0/9)2%)99K3+-0)/''0/'%+9#''K99%''04%'

C%/%,+-0)/H'A#%')99K3+-0)/+\$'-,%/\*-')J+,\*''#0C#%,MD/9)2%'W)6''0''%B%23\$0?0%\*'0/'-J)'

,%'3)/\*%/'-''\_?'+20\$0%'';''#)J/'0/'A+6\$%'dH'A#0''-,%/\*'0''''K33),-%\*'6&'0/-,40%J%''2)''-\$&'

,%'3),-0/C'-#+-'-#%&'?%\$-'g6%--%,')??h'-#+/'-#%0,'3+,%/-'\_''C%/%,+-0)/H'A#%,%'0''/)'\$+/CK+C%'0/'

[Redacted]

"-+K''9+K''%\*6&!,%\*,%''''2)/%&H'A#%,%'J%,%'#)J%4%,')/CM\$+''-0/C'023+9-''')/9)22K/0-&'-'#+-'  
9+/'6%'+--06K-%\*')'-#%!,%\*,%''''2)4%2%/-'+/\*'J0/0/C',%\*,%''''H'P+/'&'0/-%,40%J%''  
9)22%/-%\*')/'-#%'+2+C%'-)'-#%'D+3+/%''%!2%,09+/'9)22K/0-&'+'''+',%''K\$-')?'0/9+,9%,+-0)/'  
+/'\*''K6''[K%/-&'9)22%/-%\*')/'-#%!,%\$0%?'-#%'9)22K/0-&'%B3,0%/9%\*'-#,)KC#'-#%!,%\*,%''''  
3,)9%''''+/'409-),&H'j K)-%''',)2'0/-%,40%J''-#+-'%B3,%''''-#0'',%\$0%?'),'40/\*09+-0)/'9+/'6%?'K/'\*'  
0/'A+6\$%'eH'!\$-#)KC#'-#%!,%'J+'''+',%9)C/0-0)/')?'-#%'409-),&'-#%!,%'J+'''+'\$')'%B3\$090-'2%/0-0)/')?'  
-#%'9)/-0/K+-0)/')?''')90+\$'WK''-09%'J),@?',)2'2)''-')?'-#%'0/-%,40%J%''H'8,%40)K''J),@'+C+0/'-'  
+/-0M0220C,+/'-0/WK''-09%'';0/9\$K\*0/C'+/-0MPK''\$02''''%/-02%/-'''+?-%,'Ei>>+/'\*0/'-#%'A,K23'  
!\*20/0''-,-+0)/:'0220C,+/'-''\*%-%/0)/'9%/-%,''+-'-#%'5.'''K-#%,/'6),\*%,;),'C%/,%+\$',%9)C/0-0)/'  
)?'C)4%,/2%/-',+90'2'J+'''2%/0-0)/%\*'6&'?)K,'3%)3\$%H'N)-+6\$&,'N1((+''''+/'),C+/'0R+-0)/'4)-%\*'  
-)'K33),-'U(e='+-'-#%'?'\*%,+\$'\$%4%\$+/'\*!'0'd><>'0/'1+\$0?),'0+H'A#0''''%/-02%/-')?'9)/-0/K0/C'  
')90+\$'WK''-09%'J),@'0/'9)22K/0-0%''')-#%,'-#+'/'D+3+/%''%!2%,09+/'/'0''+'\$')',%?'\$9-%\*0/'')-#%,'  
%B0''-0/C'-%''-02)/&'6)K-'-#%!,%\*,%''''2)4%2%/-;0/9\$K\*0/C'+>EE:'.K''+/'U+&+'0'0/-%,40%J'?',)2'  
-#%'^)^09%''')?'D+3+/%''%!2%,09+/'('%,%''''1)/?%,%/9%'0/'J#09#'P''H'U+&+'0''+&'''-#+-'-#%'g\$%C+9&'  
)?'-#%!,%\*,%''''2)4%2%/-'C)%''6&)/\*'D+3+/%''%!2%,09+/'h+/'\*90-%''+'-02%'G+-0/'!2%,09+/'  
),C+/'0R%,''90-%\*'-#%!,%\*,%''''2)4%2%/-+'''3,%9%\*%/-'0/'.+/'D)''%H''

L#%/'+'@%\*'J#+-'9)K\$\*'#+4%'2+\*%',%3+,+-0)/''2),%'2%+/'0/C?K\$;''''4%,+\$',%'3)/\*%/-''

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%B3,%""%\*',%9)C/0-0) /')?-'#%'3"&9#)\$)C09+\$'\*+2+C%' -#+-'3%,2%+-%\*' -#%'D+3+/%""! 2%,09+/'







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N) -+6\$%'\*0??%,%/9%'0/9\$K\*%'9+\$%'+/\*'-02%#L #0\$%'-%>EFF'1040\$'G06%, -0%'! 9-'\*0\*' +2)K/-'-')4%, '+60\$\$0)/'\*)\$\$+, ''?), '0-'%\*K9+0)/'?K/\*'+/\*')4%, '>H'60\$\$0)/'0/\*0,%9-' 3+&2%/'-;'\*0,%9-'3+&2%/'-'')/\$&',%+9#%'\*''K,4040/C'0/9+,9%,%%'';+6)K-'F=;===3%)3\$%;' J#09#0''''0C/0?09+/-&\$'\$%'''-#+'/'-#%'/K26%,')?'3%)3\$%'\*%'9%/\*%'\*?',)2'/'\$+4%'3%)3\$%' ),-#%'/K26%,')?'0\$+9@! 2%,09+/'"J#)'\$04%'\*'-#,)KC#'D02'1,)J'\$+J";'),'-#%'/K26%,')?' 0\$+9@! 2%,09+/'"\$040/C'-) \*+&H"! \*\*0-0)/+\$\$&,'-#%'3+''''0/C')?'-#%'>EFF'60\$\$'9+2%)4%, 'e=' &%+, ''+?-%, '0/9+,9%,+-0)/;'J#0\$%'UH(He='0''9)/''0\*%,0/C'023+9-'"+99K2K\$+-%\*''0/9%'>c>EH' A#%'\*0??%,%/9%'0/'''9+\$%'),'-02%'9+//)-'6%'\*\*,%''''\*0/'-#0''3+3%,;#)J%4%,;3)"0-04%' 023+9-'?',)2'-#%'1L (11#%+,0/C''+,%'K/\*0'3K-%\*'+/\*''K33),-'-#%'\*%4%)32%/'-')?'+' 9)220''0)/?)', ''-,K9-K,+\$/+/-0M6\$+9@/'''''0/'! 2%,09+/'/\*0-'')K/\*'+-0)/;,%C+, \*\$%'''')?' 3)-%/'-0+\$'9)"-'), '\*0??09K\$-&H''

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"#),-M-%,2'9#+/C%'0/''')90)%9)/)209'''+-K''6%9+K''%',%\*,%''''2)/%&'J+'''2)"-\$&'K''%\*?),'C0?-''),'

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6%'3+''''\*%'022%\*0+-%\$&'+'\*'+-'-#%',%3+,+-0)/'''\*%'\$06%,+-0)/''''+-C%;'#0C#%,9)23%/''+-0)/'''#)K\$\*'

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"K,404), ""#+4%'3+""%\*'+J+&'+/\*'#+4%' /)-'6%%/' +6\$%-)'3,)40\*%',%-,) "3%9-04%'0/3K-') /'-#%'  
023+9-')?'-#%!' 9-+'/\*',%3+,+-0) /""3%90?09+\$\$&H'A#%'\* +--+''#)K\$\*'+\$")'6%'3,0),0-0R%\*'6%9+K"%')?'  
-#%'/)4%\$-&')?'-#%!',%\*,%""409-),&'+/\*'-#%'20/02+\$""K99%""?K\$%B+23\$%""?)',%3+,+-0) /""0/'5.'  
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## Bibliography

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@\$. #100/2' B')%. /7"(37/2#@%3%&FQL"?)f\_`M"D/&\$/#f\_`U; D)"" f\_` +7; ' (\$%2f\_`0; 273\*

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## Appendix

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eH V)'&)K'-#0/@'2)/%-+,&',%3+,+-0)''C04/'-)'&)K,'3+,%/'-Y'L'+/\*'-#%')-#%,''K,404),''?)'  
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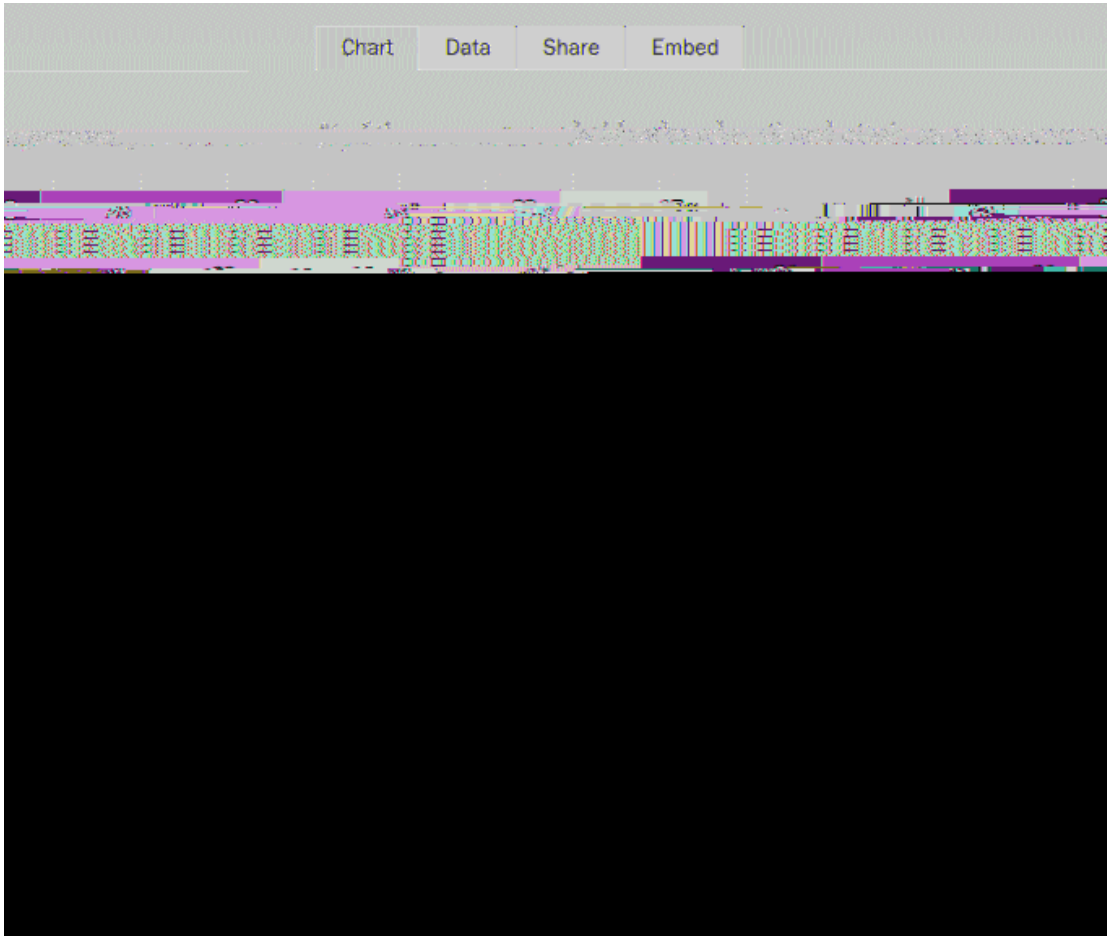
cH V)'&)K'?'%\$3%,")/+'\$\$&'023+9-%\*'6&'-'#%'3,)C,+220/C?'K/\*\*'6&'-'#%'1040\$'G06%,-'0''  
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