# !''#''\$%&'%('')\*%

!"#\$\$%"&'()\*"+,)\$-% ./0&01!"&2\*"(3"4&5#,"-&60/&!"#\$\$%"&7 2&.8011& 9:;#)%&,=#\$">,"#\$\$%"3?"@3&

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

2,,),\$#(\$&A+BC",,B+4&!"#\$\$%"&'()\*"+,)\$-4&!"D\$"EF"+&1/11&\$B&D+","(\$&2,,),\$#(\$&A+BC",,B+4&!#)(\$&GB3),&'()\*"+,)\$-4&23H3,\$&1/08&\$B&I3("&1/11&

, / \*F&" ! 0&) . D"

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,667I-6546J6K',L@=4M>94;38'

! "#+ 1 O&"+\$2+&"#+, \$ - 3.'&O+4'56+7.#83)\*'&O+).9+&"#+: \$\*'&'(;+\$2+<\$3&"+:3.';"-#.&?&MB+\$J=BE)(H&#\$&RXCB+@&'()\*"+,)\$-&A+",?&&

&VPJ"&AB%)\$)=#%&U"\*"%BDE"(\$&BC&!=JBB%,&#,&5#3,"&#(@&!B%3\$)B(&\$B&U"%)(d3"(=-Y&\)\$J& U#()"%&; B#[?&=\$3%.)\*+\$2+:\$\*'(0+>';&\$%04&Q6?1&\$1/11T<&O8/:101?&&&

VPJ"&; ),,),)DD)&; B@"%<&U#(H"+,&BC&A+),B(&W"CB+E&)(&\$J"&5B(\$"X&BC&M),=#%&23,\$"+)\$-?Y& :3.';"-#.&+?+@\$('#&O?&A3F%),J"@&B(%)("&2D+)%&O4&1/10<&J\$\$D,<ee@B)?B+HeO/?OOcceO6K& 16c6N100//KOcK?&&

V 7 JB\_%%&!\$BD&\$J"&W#)(f&W"D"#\$"@&U),#,\$"+,&#(@&2\$\$)\$3@",&PB\#+@,&ZB\*"+(E"(\$Y!\)\$J& IB,J3#&U#++&#(@&U#()"%&;B#[?&@\$(')\*+@('#.(#+A3)%&#%\*04&0//?c&\$1/0.T<&1N80:1N.Q?&&

 $\begin{array}{l} VgPJ''\& \ "\$\$''+\& \ 7\ \#-\&\$B\&M)HJ\&5+)E''_<&G'', B(,\&C+BE\&R+"HB(\&B(\&23,\$"+)\$-\&\#(@\&\$J''\&5\#+="+\#\&\&1)\$'''' \&A'' B! \#(H4\&! ''\#\$'')\&' - '. \$*\$'/O4\&10?1\&S1/O8T<&OK.:088?\& h2 \ \#+@'''@\&V \ ",\&2+\$)=\&''\&BC\&1/O8Y\&C+BE\&! ''\#\$''#\&H\&''()*+, \%'-'. \$*\$/OB++ \end{array}$ 

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## ! KK494; 3>=', L@=4M>94; 38'

W"\*)" \ &BC&, \$.C'(&#9+).9+, \$.9#-.#96+!"#+:\$\*'&'(;&).9+:\$\*'('#;+\$2+:%';\$.#%+D##.&%0&F-& b"",J#&; ?&;)@@%"E#,,&:#%;E#(&'C#;+\$.+:\$\*'&'(;F+OK?0&\$1/08T<&1QQ:1QN?&

V!\$+3=\$3+#%&U)E"(,)B(,&BC&!=JBB%&U),=)D%)("&)(&b"+(&5B3(\$-4Y&\)\$J&U#()"%&; B#[4&PJ)([& A)"="&CB+&5#%)CB+()#&9(@B\E"(\$&SQO&; #+=J4&1/OcT?&&&

 $\begin{array}{l} V^{"} - B(@\&A\#() = \&\#(@\&A3(), JE"(\&\&) + B = [\&P3+("+\&\#(@\&\&J"\&G"C\&\&W", DB(, "\&\&B\&!"X3\#\&\&I) + B) = [\&P3+("+\&\#(@\&\&J"\&G"C\&\&W", DB(, "\&\&B\&!"X3\#\&\&I) + B) = [\&P3+("+\&\#(@\&\&J"\&G"C\&\&W", DB(, "\&\&B\&!"X3\#\&\&I) + B) = [\&P3+("+\&\#(@\&A3(), JE"(\&A3(), JE"(A3(), JE"(A3($ 

 $5 \# \{"4\& ! \# + \#J\&U?\&\#(@\&U\#()"\&\& ; ?\&^B ! \#(H?\&VgPJ"\&`"$$"+\&7 \#-\&B\&M)HJ\&5+)E"_<\&L($"+", \&Z+B3D, 4\&AB\&) \} = \#\&aB\&B = -\&5B(, $+3=$)B(\&B(\&SJ"\&R+"HB(\&`\#\&B\&S?Y\&AAB)) = -\&5B(, $+3=$)B(\&B(\&SJ"\&R+"HB(\&`\#\&BS?Y\&AAB)) = -\&ABB(B) = -&ABB(B) = -&ABB(B)$ 

# **0\$!** "**B**&.**H**'**\$**+,**\$**-&**\$**. "**\$**'

! 88489>39', 7;<688;7'>9'D>439'F;L48' / 34567849:''

W#="4&5 %#, .4&#(@&A3(), J E" (\$&\$M#%%&1/084&M#%%&1/0.4&!D+)(H&1/10T& 2 E"+)=#(&AB%)\$)=#%&!-,\$"E, .4S!D+)(H&1 & M#%%&1/0.4&!D+)(H&1/1/4&!D+)(H&1 & M#%%&1/10T& 2 E"+)=#(&AB%)\$)=#%&; B\*"E" (\$, .4S!D+)(H&1/1/4&M#%%&1/10T& ; #, .4L(=#+="+#\$)B(&S!D+)(H&1/11T&

# ! 88489>39', 7; <688; 7'>9' / 34567849: '; <'D; L91673'% 4884884NN4'

$$\begin{split} & \texttt{W#="4\&5\,\%\#,\,,4\&\#(@\&\$J"\&5+)E)(\#\&\&I3,\$)="\&!-,\$"E\&SM\#\%\&1/Oc4\&!D+)(H\&1/O8T\&2E"+)=\#(\&AB\%)\$)=\#\&\&; B*"E"(\$,\&\$!D+)(H\&1/Oc4\&!D+)(H\&1/O8T\&2E"+)=\#(\&ZB*"+(E"(\&SM\#\%\&1/OK4\&!D+)(H\&1/Oc4\&!D+)(H\&1/Oc4\&!D+)(H\&1/O8T\&PJ"\&2E"+)=\#(\&A+",)@"(=-\&SM\#\%\&1/OKT\&7\#,J)(H\&B(\&9XD"+)"(="\&L(\$"+(,J)D\&\$!D+)(H\&1/Oc4\&!M\#\%\&1/Oc4\&!D+)(H\&1/O8T\&7\#,J)(H\&B(\&9XD"+)"(="\&L(\$"+(,J)D\&\$!D+)(H\&1/Oc4\&!M\#\%\&1/Oc4\&!D+)(H\&1/O8T\&$$

## &3897LM9;7'>9'/34567849:';<',6338:=5>34>'

 $\& \qquad 7 + )(H\&!"E)(#+4\&AB\%)) = #\&!=)"(="<\&; #, \&L(=#+="+#\$)B(\&SM#\%\&1/ON4\&!D+)(H\&1/OKT\&)) = #\& (BABWARK) = BABWARK) = BABWARK =$ 

### 06>M143?' ! 88489>39'>9' / 34567849:';<', 6338:=5>34>'0PQRRIPQRST'

PJ"&2 E"+)=#(&A+",)@"(=-&S!D+)(H&1/O14&M#%%&1/O14&M#%%&1/OQT& 5)\*)%&W)HJ\$,&#(@&5)\*)%&G)F"+\$)",&S!D+)(H&1/OQT& 5B(,\$)\$3\$)B(#%&G#\&SM#%%&1/O1T& L(\$+B@3=\$)B(&\$B&2 E"+)=#(&AB%)\$)=,&SM#%%&1/OOT&

## 06>M143?' ! 88489>39'>9' / 34567849:';<' ) 76?; 3'0PQQUIPQRQT'

W#="4&AB%)\$)=,&#(@&G#\&S1/0/T& & ; B@"+(&7B+%@&ZB\*"+(E"(\$,&S1//.T&

- & & 2+\$&#(@&\$J"&!\$#\$"&\$1//8T&
- + & 93+BD"#(&AB%)\$)=,&\$1//8T&
- ! # # & 0 & ) . ! F'0 \$ ! " B & . H'V / ! F & E & " ! 0 & ) . D'

# **&384K6**(") **L9'**, **748**; **3'\$**XM1>3?6'07>4343?'**&**38949L96**&**O&**06Y**N=6' / 34567849:'0**P**Q**R**ZT2**&** 2\$\$"(@"@**&**#(@**&**=BED%"\$"@**&**\$+#)()(H**&**)(**&**; #-**&**1/O.**&**)(**&**5B%BEF)"+"4**&**; )=**J**)H#(?**&**