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<PQ; J J .] VL Q X I [ Q N A U I V C M . <P M W I R K I Q M M K P Q ; J J .] V L Q P I W Z I K S I P M X M Z V U I V K M W N ; <7 @@- ] ZAKM 0 M T P + I Z M I L M I P M I L M I V L I W U Q W Q M I P M I Z K S Q O M Z V J M \_ M W I P M V M I [ [ M ^ I T M W W I P M ; J J .] V L I V L I P M X M Z V U I V K M W W I P M I L M <P M I V Q Q I I M L T M T W W I P M I Z K S Q O M Z V J V L N E V W U I T U I Z M K W L Q W Q P Q L Q I M L Q I P M X Z V X M I [ W W I P M ; J J .] V L <P M I L M Q I 6 M <W I T : M ] Z V I L M " L Q Q M L [ V M W N I ^ X I Q J a I P M I L M K W I Q M I [ I Z I Q T L M Q I P M I L M Z M ] Z V <P M I L M Q I U I Z M K I X \_ M Q P I M Q L M L M Q M L I W Z A Z M M A I P M X M Z V U I V K M W N I M Q Z Q W I Z A U I P M ; <7 @@- ] ZAKM I L M I P M I Q D T = V Q I Z M I P I \ J M W O I W I P M P M T P K I Z M Q L [ I Z a I [ L M P V M J a I P M I L ] I Z a + T [ [ Q K I Q W \* M K P U I Z S + \* <P M I Q D T = V Q I Z M X Z V Q M M X V ] Z M I W I P M X M Z V U I V K M W W I P M U V V I Q J Q T Z M U Q I V L [ U I T T K X [ I W K S K W I Z Q O L M M A K M U I Z M [ Q - ] ZAKM g 5 V Z M Q N V U I Q W I J V V I P M K W U X V Q W W N I P M I L M I V L Q W K M I Q O Z T M I Z M I ^ I Q J T M Q I P M X Z V X M K ] [ W N I P M ; J J .] V L I V L I I P M I L M X Z V Q Z [ \_ M I Q M \_ \_ Y W W Q W K W U <P M I L M ^ I T M Q I ^ I Q J T M ^ Q \* T W W J M O ; @ : <P M ; J J .] V L \_ Q I X X T a I V I L Q M K : M K T B I Q W U M P V L W W a I W O M M X V Q W I W I P M I L M <P M ; J J .] V L \_ Q I Q ^ I I Q W I W I T Z M ] Z [ \_ I X P V I K Q T L M Q I Q M Q I Z U M M L M Q I Z Q O I P M X M Z V U I V K M W W I P M I L M I Q Q I \ I P M X M Z V U I V K M W W I P M I [ [ M I P M L , M Q I Q M I Z I Q M O Z T W W I P M ; J J .] V L [ Q ^ I I U M M I Z I M O Q <P M ; J J .] V L Q M Q Q T W W I P M . Z M K P M ] Q a [ I ^ Q Q X T V [ 8 - ) \_ P Q P U M V I P I I P M ; J J .] V L Q ^ I I I T M [ V W Q I [ [ M I Q I L Q I Z Q M L X Z V N Q W W M ] Q W Q I M J a I V Q [ ] N Z Q K Z V a I M M Q P N Z Q - ] ZAKM V = V Q W U M U J M Z I I I M V Z Q I U M U J M Z I I I M W W I P M - ] ZAKM V - K W W U Q ) Z M 8 T M I M Z M Z I W I P M 8 Z V X M K ] [ W N I P M ; J J .] V L N Z U V Z M Q N V U I Q W = X L I I M K W U X V Q W W N I P M ; J J .] V L P V L Q Q Q I ^ I Q J T M W \_ \_ \_ I U ] V L Q I N K W U

7 L Y W Y T H U J L Z M V T [ V : V I Y L I - \ U K ( K T R J



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| ; Q K M           |     |           |             |         |         |         |         |
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; V I Z M " ) U ] V L Q < P M I J W \* M K \* I Z K V U X T M M X M Z Q L [ W N U W W I P I N Z M K P K I T M L I Z a I M Z 7 H Z V L Y W Y T H U J L R Z U V V M L K B [ V Y V M O I Y L U J H U K N I [ Y L Y L Z I S Z H U K K V L Z U V I M H H U J L L N I [ Y L ^ R S K ) V a T P [ M I V Z O Q I L W W W I I S M Q I W K W I Q M Z I Q W I V a K V I Q K V U U Q I Q W I V L N M Q I Q J Z M J a I P M Q ^ I W I V Z Q I P M Q [ ] M I V L J J a Y a W W I P M I P I Z M M O U I ^ M J Z V S M a C M I N M V Z V I P N E K V U U Q I Q W I L M I K I M J a I P M P M V K Q T Q I N Z U I M Q Z a I N K M Z V U I V K M Q K I R J T I M L Q I K J Z M K a V I P N E I P I V I P M I Z V I V a T P [ M I V Z O Q I C M M Z I M K I V I P M M a J M I Y K I M J a M K P I V O M Z I M S J K I I Q W I J V I P X \_ I Z I V L L W \_ I Z \_ < P M L Q I K M I V K a I K K V I V I N Z I P M X M Z V U I V K M L Q M M K M J M \_ M W I P M X M Z V U I V I P M Q L M

9 B Z R U K B H [ V Y Z : V I Y L I - \ U K ( K T R J

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| 7 V V { N W S V } V S { R P                                                                                                                                                                                                                                                                                                                                                                                                             |         | !       |                       |
| ) L U J O T H Y R                                                                                                                                                                                                                                                                                                                                                                                                                       |         | !       |                       |
| ] V S { R P                                                                                                                                                                                                                                                                                                                                                                                                                             |         |         |                       |
| , _ V W Z [ ; Y H J R R U N                                                                                                                                                                                                                                                                                                                                                                                                             |         | !       |                       |
| , Y W Y                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         |                       |
| : C H W L Y H P V                                                                                                                                                                                                                                                                                                                                                                                                                       |         |         |                       |
| > W I Q Q a Q I [ I I Q I T Q L Q I W Z I P I U M [ ] Z M I V I [ [ M Z ^ I Z I Q W I I Z V L Q I ^ M Z C M ^ I T M . V Z M I U X T M U I Z M ^ I Z I Q W I W N X M Z L I a K V Z M X W L I W I ^ W I Q Q a W N X M Z a M Z < P M P Q P M Z I P M ^ W I Q Q a I P M P Q P M Z I P M Z Q S < P M < Z K S Q O - Z I Z Q L Q I W Z U M [ ] Z M I P M X M Z V U I V K M I L Q I N Z M K M J M _ M W I P M I V L I V L I P M I M K P U I Z S |         |         |                       |

4 V Y U R N Z I H Y Y H P R N •

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| 5 V Z V Q Q I I Z 7 ^ M T : I I Q O p " Z I H Z                             |
| 5 V Z V Q Q I I Z + I I M O V a p "                                         |
| , ( ( - < 5 + : , * ; 6 9 , 8 < Q @ / , ( 3 ; / * ( 9 , : I I Q O L I I M " |
| 6 ] U J M Z W W I V L [ Q I P M K I I M O V a "                             |

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9 FZR QUKB H[VY: V XL I - I UK ( KT R)



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! <PM; : 1 ZKZM MA[ \PM ZPS I VL ZM] Z\ XZ\PM I [ XZM MAML Q' \PM 3Ma 1/VVZUI \QW , WK] UMA 31 <PM TV M\ K\ MOVa LVM VV QXB \PI \ \PMZMQ VVZPS <PM; : 1 Q' VV Q I Z VMM I VL UIa KPI VOM WNV \QIM <PM ZPS QLEI \VZI [[ ] U M aV SMM \PMXZ\ K\ NVZ aM Z <PM [ ] UUI Za ZPS QLEI \VZ Q I Q QM \VPM TM MVNZPS VV \PQ XZ\ K\ KVV XI ZL \V WPMZ XZ\ K[ 1 [PW [ PW TSMB Q Q \PI \ \PM XZ\ K[ Q' TV M UVVNa JMK] [ M VN UVVMUM Q \PMUI ZSM [ VZJMK] [ M\_ MI ZVWV I JTM \WXI a aV

? MPI ^ MKT [[ QM \PQ XZ\ K I [ W\ VV \_PQP Q I UMLQU ZPSKT [[ gPQ ZVM \PMXVMAQTTV [ M NVU N\] ZM XNVZUI VKM I \ I UMLQU TM M I VL XNVZ UI ZSM KVLQW [ K\ V T QXI K\ V\Z K XI KQa \WXIa a V ) LLQW T ZPS "5 I ZSM TQ Q Qa ZPSKV T I UXQa \PM ^ I ZQ \QW VVXZ\ K\ XNVZUI VKM <PQ XZ\ K\ LVM VV QKT LMI Va XZVMKQW NVU N\] ZMUI ZSM XNVZUI VKM [ Wa V\ K\ V T TV M [ W MVZI TVNa V\Z Q' N\UMM \* M QM \PM ZPS QKT LML Q' \PM ZPS QLEI \VZ WPMZ ZPS UIa I YMK \PM; ] J . ] VL Z XNVZUI VKM 8 M [ M ZNVZ \V \PM 5 = 4 < 1 = 6 k; 4 = @ 5 \* 7 = : / gZ\ X M ] [



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|   | ,M\KPM*VMZM@MZ | -=:  | 40<+/A        | 04<D        | 40<+,-   | 04<B)>%74) |
|   | -]ZVM\8I2D     | -=:  | 04<.8         | 04<D        | 4A@- )8) | 04<B)>%74) |
|   | 4;-            | / *8 | +0 46         | 10 / @D     | +0 4     | 10 B)>%74) |
|   | -]ZVM\5QV      | -=:  | 04<B          | 04<D        | 4A@- )51 | 04<B)>%74) |

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; <7 @@I VL Q TBM[VZ IPM; 4QM[VZ P ^MWWZM\QV[PQ(WPM) U] VLQ [[M5I MI OMU MA WPMZ\PI V\PMTBM\QOVNPMMLM I VL IPMZM\ML IZ LMUI ZS NVZ][MQ KWVMKQW\_QP\PM  
; JNJ VL ; <7 @@I VL Q 4QM[VZ LWWW"; XW[VZ MLVZ M [MTVZXZVU VMIPM; JNJ VL : MKVU UML \PI \I Va XMZ VW Q^M \Q\PM; JNJ VL VZI Va WPMZ[ MK ZQV 0I ^MI Va ZM XWV QQa VZ  
TJQa NVZVZUI SMI Va LMKQV[ I JV\ IPM\QO I UV\ V VZXZBQOVK; JNJ VL 0I ^MI Va ZM XWV QQa VZ TJQa NVZIPMI LU QO IZ QV UI MI OMU MA VZUI ZSMQOVNPM; JNJ VL +WV QMZ  
IPMVML[ VNM; JNJ VL VZIPMV VMZ VNM; JNJ VL Q LMMZU QO KVUXV QOVZKI T\QO\PMMLM VZPI ^MI Va W TQ\QV\WLVW; <7 @@I VL Q 4QM[VZ\_QVWPPI ^MI Va TJQa Q  
KWVMKQW\_QP\PM; JNJ VL ; XMKQI B ; <7 @@I VL Q 4QM[VZ LWWWUI SMI Va \_IZI Va M XZM[ VZQXTQL I VL LQKTQ I Va I VL IT\_I ZI Va I JV\ "<PMZM] T\ IWJMMWII QML Ja IPM  
; JNJ VL IPMV VMZVNM; JNJ VL VZI Va WPMZXMZ VW Q KWVMKQW\_QP\PM] [MVNPMMLM I VL IPMLI\I QKT LML Q\PMMLM #<PMI KQ Z Ka VZKVUXTMMM[ VNMMLM I VL Q LI\I #<PM  
UNZPI VI JQa I VL IPMBVM[ NVZI XI ZQ TZXJ ZKV MVZ][MVNPMMLM I VL Q LI\I #; <7 @@I VL Q 4QM[VZ\_QPI ^MWWTJQa NVZI Va MZVZ VU Q\QV VZQVMZ XIQV Q\PMMLM VZQ  
LI\I #= VL NZVWKZ U\I VKM\_Q; <7 @@VZQ 4QM[VZ JMTJTM NVZI Va T\ XZV[ VZQLZK XJ VQOM [XMKQTVZKV\ M] M\QTLI UI OM VZ T\ M MWW Q; <7 @@VZQ 4QM[VZ SW [I  
PI \I PMa U QP VKJ Z <PMTBM\QOI OMU MA JM\_MV\PM) [[M5I MI OMZI VL ; <7 @@Q [VMB NVZIPMZJ MMA I VL WV NVZIPMJ MMA VNMV VMZ VNM; JNJ VL VZI Va WPMZ\QZ XI ZQ

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6WMMW\PM. ]VL UIVIOMUM KVVXI Va i VL \PMNjVL  
5]TQ=VQ 4]`MUJWZD: +; \* ! 4]`MUJWZD; #)> TWK iM! 2MLM\* QWYZ 4 4]`MUJWZD i VL UIVIOML Ja)U]VLQ[ ]`MUJWZD; )  
<PM. ]VL Q LM KQML Q i 3Ma 1NVZUI\QW, VKJ UMA 31 VZ3Ma 1^ NjVZ 1NVZUI\QW, VKJ UMA 31 NVZ=3 Q^ NjVZ i VL XZVjXMK][ <PM. ]VL[ 31 VZ31 NVZ=3  
Q^ NjVZ U][\JMU i LMI^ i QJTWXWMMQTT]J[ KQNZ XZQZVW][J[ KQZQW  
<PM. ]VL[ 2NVZMKMU i NVZT31 XZVjX M][ i Vj i Ti VL [MU Q Vj i T2KXZ[ K i VjMVi QML NZU ) U]VLQW ZM]Mj\ VZVVi QML ^ Q i PM i U]VLQNKVU \_M[ QM

1\PM=VQM 3QCLVU \PMj=3Q i P Q \_M[ QM Q JM QO Q[ ]ML Ja)U]VLQ=3 4Q QML +WVU i V; iZMM 4VWLW-+ : \*2 =3 )U]VLQ=3 4Q QML Q i ]PVZQML i VL  
ZQJ TiM Ja \PM. Q i VKQT+VWL K i )]iPVZQ j.+)Q i VL MAMZL VW \PM.+ )2 . Q i VKQT; MZ QM : MQVMZ ]VLNZ Vj UjNZ <PQ U i a JM KPMKSM i \  
P i X[ " ZQO i VZK i VZQ]S i VL NjZPMZ QNVZUI\QW VWQ i ]iPVZQ i QW Q i ^ i QJTWV ZM]Mj - i KP NjVL i VL Q ZMM i V [ ]J NjVL [ ]VLNZ Q ZM XMK Q Mj VL Z VOM i P i Q  
2NVZML i WQ i P Q \_M[ QM M KP i j. ]VLQ Q i ZKXVQML KVMK i Q M Q^ NjU M [ KPMU MNZ i PMX] ZQVjMj VV; MKQW VV i PM. Q i VKQT; MZ QM i VL 5 i ZM[ ) K i \PM  
j.; 5) Q

8WMMQTO^ NjVZ Q i PM=3 [PVj T JM i \_ZM i P i \ WMMV i PMXZV i MKQW[ i VVZL Ja \PM=3 ZQJ TiVZ a [a [MU \_ Q i XX^ i V i V Q^ NjU M Q i . ]VL i VL i P i \ KVVXMM[ i QW  
\_ QWV JM i ^ i QJTW]VLNZ i PM=3 . Q i VKQT; MZ QM +VU XMM[ i QW; KPMU M  
: MZ Z QO. ]VL[ i LU QML VW i ZQJ TiM i U i ZM i PMT i QO Q [ ]JRK i V i ^ V i QZ KVVZ i TUMKPI VQU[ i WMM[ ]ZM i P i \ i PM- < . XZQMLVMj VW LM^ QM[ QVQK i V^ NZU i  
2NVZMKMXZQM[ M Ja \PMT i QO Z Tj VV i PMZM i V i ZQJ TiM i U i ZM i VV i J^ i PZVj Q i PM QXTU M i i QW VV i i ZLQO P i TUMKPI VQU Q K i [MVM[ QVQK i V i LM^ QW NZU  
i P Q 2NVZMKMXZQM

<PM. ]VL WjMj VVK i XQ TQ i Z VMM 1^ NjVZ U i a VW QM J i KS i PM NjTi U Vj V VV i PMZ QOQT Q^ NjU M i Xi ZQJ T Z^ Q i PM M^ M i P i \ i PM JMKPU i ZS QLM NjT  
; ]J[ KQO i V i =+1; U i a Q^ V^ MZQ 8WMMQTO^ NjVZ i ZM i L^ QML i WZM L i PM. ]VL[ ZQ S XZV i T \_ P Q P Q LM KQML Q LMI Q Q i PM XZVjXMK][ <PM i U Vj V i P i \ Q  
ZM [ VV i JTW i W Q^ NjU Q i PM. ]VL \_ Q i LMKMML VW i PM XZVj VV i TKQZ U[ i VVKM VVKM KP Q^ NjVZ <WLM i MZ QM i P Q i U Vj V i Q^ NjVZ [PVj T i V SM Q i V i KVV V i PMZ P i VKQT  
[ Q i QW XZVj VV i Ti [ ]M[ i VL K ZM i VL NjVj ZM ZM] QM M i [ \_ M i T i [ KVV QM ZQO i PMZ \_ QOVM[ i VV i KVMK ZQ S VZ KVV^ MZ VV i PMZ XZM i ZMKM i W Q^ NjU K i ] i QW [ ^  
1^ NjVZ i ZM i T W i ZVQZ ZKVVU MMLM i W[ ]^ KQML^ L Q MZ Q i PMZ Q^ NjU M i [ V i [ i V i ^ VQ JM QO M XVj M [ VV i V i V i PMZQ S VV i P Q . ]VL 1^ NjVZ [PVj T i PMZM i ZM  
[ MZ i L^ QM Q i P Q ZQ Z NZU i PMZ [ ] i Ti L^ QZ TQ Ti V i ^ P i VKQT i VL VZ i KVV i QO JM i VZM X] ZKPI [ QO i Va] VQ VV i PM. ]VL  
<PM[ Vj ZKVM i PML i V i KVV i QML Q i P Q LVKj U M i Q ) U]VLQ [ [ M 5 i V i OMUM i ] V i T [ WPMZ \_ QM[ i V i M

8V i Z a ZQ XZV i VQZ V [ X ZM Ka i VL \_ i ZQO V [ MKV i Z a U i ZM  
<PM XZV i Z a ZQ XZV i VQZ V [ X ZM Ka i VL QNVZUI\QW VW \PMNjVL[ i [ [M[ i ZM i ^ i QJTWV i U]VLQNKVU ; P i ZM X] ZKPI [ M VV i PM[ MKV i Z a U i ZM K i VV [ ] ] i T^  
JM [ VZ LQK i T^ J i KS i WPMNjVL 1^ NjVZ U][\J] a i VL [ M i T P i ZM VV i [ MKV i Z a U i ZM \_ Q i PM i [ [ Q i VVKM i V Q i MZU M QZ a MO i [ VKSj ZVZV i VL U i a QK ZM i NVZ  
LVQO [ W 1^ NjVZ U i a Xi a U VZM i P i V i PMK] ZM V i [ [ M ^ i T M \_ PMV j] a Q [ P i ZM i VL U i a ZK i VQ M i [ i P i V i PMK] ZM V i [ [ M ^ i T M \_ PMV [ M i QO i PMU

r <MPVQ TVM i [ [ M ^ i T M U i a JM K i Tj TiM i VL Xj JTPM NVZ i Va K i TML i ZL i a MKT LQO; i ] ZL a i VL ; ] VLi a i P i \ Q VQPMZ i J] [ QM[ Li a VZ i i Z V i K i QW Li a <PM i M i MPVQ TVM i [ [ M ^ i T M i ZM  
U i NVZ Q i Q i QM i VL \_ QWV JM i PMJ i [ Q NVZj ZKPI [ QO [ \_ Q i QO ZM i MU QO i VL VZ i Z V i NVZQO [ P i ZM Q