



RTARDPTDNB&XADRG@DCVHSGSGD DMS#D: SNBJSNVBNL L TMB&X; GD: DMSD BNMBSSTSHNVRDBHHRSG&S; @RJ  
. NOBDRDMDH@SGD DMC NESGD @B@CDL HBXD@QTMORREBNVSHVDC AX ENQ @K: DMSD @SHNMI; GD: DMSD  
UNSDC SNBNVSHMTD SGD; @RJ . NOBDNVM: MUDORSX: S@STRSGONTFG SGD &fififil i&fififiz ) B@CDL HB?D@OHVNOCDOSN  
BNL OKSD HSRV NQI "5 @&fififil /

8QONR@KNMVRSTCDMSUDSD@MR@MC @SHUDRQJHDL DL ADCR; GD: S@MCHMF +NL L HSSDD NMI STCDMS) EE@HR  
V @R@RRHMFDC SNBNVH@CDQL D@RT@DRSN GDKO E@BTISX ADSSDQ@CCORRSGD MDDCRNERSTCDMSUDSD@MR@MC  
@SHUDRQJHDL DL ADCR @MC SG@SGD BNL L HSSDD @ONCSA@BJ SN SGD. @BTISX: DMSD V HSG OONR@R  
@CCORRHMFF HRTDRRTBG @R> GDSGDOE@BTISX RGNTIC ADMNSHHC V GDMUDSD@MR@MC @SHUDRQJHDL  
L DL ADCRDMNKHIVSGDHB@RRDR @MC HERN V GDM@MC GNV / > G@SHRSGD ADRSV @X SN OTAKHHD SN E@BTISX  
SGDK@V RNVF@CHMF NOSHNIRENORSTCDMRTM@AK SN BNL OKSD ENT@RD V NQI CTD SN L HSA@X RQJHDL( ONV  
RG@KV D@ONUHED E@BTISX V HSG S@MCHMF @MC @DRNT@DRSN GDKO SGDL @CCORRSGD MDDCRNERSTCDMSUDSD@MR  
@MC @SHUDRQJHDL DL ADCR ONV CN. - 98) @MC NSGD@ONH@X BNVR@CD@SHNVR@K@SD SN SGD HRTDR@HDC  
@ANUD( ) @ONCSENL SGD: S@MCHMF +NL L HSSDD NMI STCDMS) EE@HRV @R SN AD @ST@MDC SN SGD  
: DMSD ENOCH@BT@RRHNMV@X HMSGD RQJHMF RDL DRSD@fififil ~ ATSSGHRG@RADDIVB@HDC NUDOSN) ?  
&fififil i&fififiz/

DSGD

QBNL L DMC@SHNIVNESGD: S@MCHMF +NL L HSSDD NMI) B@CDL HB8QNF@L R@MC 8K@MMHMF SN OG@PD NTS  
SGD S@M@SHNIV@K, NESN@SD NE8GX@H@K; GDC@OX 6N @CCSHNIV@K RSTCDMSRV HKAD @CL HSDC SN SGD  
OONF@L @MC H@V HKBD@RD SN DMSV GDMVSGD K@PSBT@CDMSRSTCDMSBNL OKSDRSGD OONF@L "5 @ SDC@MR@ S

: -6); - 16; -96) 4897+-, <9-:

-KOBESHIMVNE-VZBTSUD+NL L HSSDL DL ADCR@MC=HBD+G@RNE: S@MCHMF +NL L HSSDR) SSGD E@RSL DDSHMF  
NESGD: DMSD SV N RD@DC: DMSNOR"; H@RDX @MC 9NCOFTDY, V DOD DIOBDC SN RDQD NIMSGD - VZBTSUD  
+NL L HSSDY) CCHSHIMV@K" =HBD +G@RV DOD DIOBDC SN RDQD NIMDUDCX: S@MCHMF +NL L HSSD NESGD: DMSD  
"; DCSL ADQLFIFL /; GD=HBD +G@RRDQD @R@K@HNMVADS/ DDMD@BGRS@MCHMF BNL L HSSD @MC SGD: DMSD  
@RHS SGD +G@Q @MC ODC@NL SGD CTSHR NESGD +G@QHMGRNOGDO@ARDM@D; GD DIOBESHIMVNE=HBD +G@R  
V @RSGD CRTISNEBG@MFRSN SGD: DMSD BNMSSTSHIMV GHG V DOD @COOUDC AX SGD. @BTIX HM7 BSNADO  
LFIFIF; GD ODFRMD NE RD@DC: DMSNOR NMD@B BNL L HSSD G@R HML XITCFL DMSRHM@B@B@X HL COUDC  
SGD ENV NEHMINQ @SHIMSN@MC EQL SGD: S@MCHMF +NL L HSSDR@MC SGD DMSD: DMSD

=@B@M@H@R@H@M@B@D@N@E@A@S@B@R@N@O@D@U@R; GD: DMSD @R@R@D@C @L N@S@H@I@M@E@Q@L SGD - VZBTSUD  
+NL L HSSD RODBHXMF SG@S 7 E@H@D@O@R: DMSNOR: S@MCHMF +NL L HSSD @MC; @RJ . NOBD +G@R@MC  
L DL ADCRV H@G R@A@S@B@R@N@O@D@U@R@S@G@S@V H@K@N@U@D@O@V H@G SGD SDQ R NESGD@ONRSHIML TRS  
MNSHX SGD 8ODR@DMS@MC 8@K@L DMS@Q@M@S@G@S@G@X@V H@K@H@S@G@D@F@I +NMSHMTD SN ODC@NL SGD  
CTSHR NESGD ONRSHIMV GH@NIMR@A@S@B@K@N@O@D@U@ NO" 9DRHIME@NL SGD ONRSHIMV) CU@M@D  
MNSH@B@SHIMVNE H@M@D@SHIMRV H@K@G@D@O@S@G@D: DMSD H@M@N@M@C@T@B@S@H@M@F H@R@A@T@H@M@D@R@MC @K@N@V S@G@D@R  
ONRSHIMVRSN AD E@K@O@C@C@T@O@M@F@S@G@D) O@K@F@D@M@D@O@K@D@O@B@E@S@H@I@M@E@M@D@D@C@D@C ". DA LFIFL /

::) 6, 16/ +75 5 1; -- ) 6, ;): 3. 79+- 9-879; :

) B@CDL HB@N@K@B@X +NL L HSSDY; GD) B@CDL HB@N@K@B@X +NL L HSSD H@M@D@R@S@H@S@D@C @SGD @P@T@D@R@S@N@E@S@G@D: DMSD  
V GX SGDD V DOD B@M@F@D@R@H@M@V@S@G@D @P@T@H@D@C R@H@I@M@E@S@T@O@R@N@I@M@S@G@D+) 88) C@I@T@R@L DMS@E@N@Q / 8@O@U@N@I@T@R@X@ SGD+) 88  
E@N@Q @P@T@H@D@C NIMX SGD R@H@I@M@E@S@T@O@N@E@S@G@D @O@B@D@O@S@N@O@V G@D@D@H@M@M@V @P@T@H@D@R@S@G@D R@H@I@M@E@S@T@O@N@E@S@G@D, D@M@M@C  
8@N@F@Q@L +N@N@O@H@I@M@S@N@O@R@@O@R@T@I@S@N@E, D@M@R@L +N@T@M@H@K@@S@H@I@M; GD @O@B@D@M@S@H@L @O@N@U@D@L D@M@R@H@M@V@S@G@D+) 88 @C@H@S  
G@U@D @O@R@T@I@S@D@C H@M@L N@O@ @B@B@T@O@S@D @C@H@R@S@G@D@V @R@@G@H@S@N@O@X N@E@D@O@N@R@A@D@H@M@F@L @C@D@A@X @O@B@D@O@S@N@O@R@C@T@D@S@N  
S@G@D H@M@S@O@B@H@D@R@N@E@S@G@D @C@H@S; GD +NL L HSSD @B@N@L L D@M@C@R@M@N@E@T@O@S@G@D@O@S@H@I@M@V@A@D@S@@D@M@

+NL L HSSD NIMV@M@N@Q @SHIMV D@B@G@M@M@K@N@F@X @MC 5 D@C@H@: D@Q@H@D@R; GD +NL L HSSD NIMV@M@N@Q @SHIMV D@B@G@M@M@K@N@F@X  
@MC 5 D@C@H@: D@Q@H@D@R@C@H@B@T@R@D@C @MC @COOUDC @O@B@N@L L D@M@C@S@H@I@M@V@S@G@S@G@D B@N@K@O@F@D@H@M@H@S@D @M@M@T@K  
C@D@R@H@M@S@D@C @T@M@C S@N@R@T@O@O@N@S@@E@H@D@X@D@O@O@K@@B@D@L DMS@B@Y@B@O@E@N@O@K@E@B@T@I@S@X@B@N@L @T@S@D@O@Y ; G@R@G@R@O@R@T@I@S@D@C H@M@  
A@T@C@F@D@S@O@P@T@D@R@S@A@X +NL @T@S@D@O@Y D@Q@H@D@R@S@N@L @D@S@G@H@R@A@D@B@N@L D@O@K@S@V ; GD +NL L HSSD @K@R@N@H@M@D@R@S@H@S@D@C

L DDSHMF~SGD; @RJ . NOBD @BNL L DMDC K@MFT@FDSN CHRSMTFHG @L NMF SGD L @MX CDFODD NEEDOMFRNESGD  
BNKOFDRDC@@SD EONL SGD\, NTAID 5 @NQ/; GDRD HMBK CD SGNRD ENMCHSHMVR V GHG DMRSV GDMVST CDMSR  
BNL CKSD @M@CCHSHMVKI L BDCR@S: SNBJSNMADXNMC SGD E@SA@EGDKNRCDFODD": DENMC, DFODD,~  
CDFODDRCNMD HVENMDCSV HSG NSGDOHMSSTSHMVRNEGHFGDODCTB@SHMADXNMC SGD A@EGDKNRCDFODD "5 TISH  
TMSSTSHM, DFODD, @RV DKK@SGNRD D@MDC HVENMITMBSHMV HSG BNL L TMSX BNKOFDR"; @MRSHM, DFODD,~  
SGNRD CDFODDRENL @BBDK@SDC RSTCX") BBDK@SDC) CU@MDC, DFODD, @MC SGNRD CDFODDRDRTKSHM EONL  
: SNBJSNMR-CTB@SHMCOONF@ "8NRS\* @BB@T@D@SD, DFODD,": DACT@X Lfifil /

+47: 16/ +75 5 -6; :

TSG@RADDV@MGNMNO@MC @COUHD@FDSNRD@R: DM@SD 8DR@DM\$ENOSGD O@PSSV/NXD@D 1G@J ADDM  
V D@BNL DC AX @KKUDR@NENTQ@CL HMTS@SHM@MC G@J RDDMV HMMFMDRRNMDUDOXNMD[R O@SSN @BSHDX  
V NQI SNL @JDNTO@R@PDL NERG@DC FNUDOM@M@D @S: SNBJSNM@D@H@S@ TSG@RADDV@O@D@RT @D SNV NQI V HSG  
BNK@FTDRV GN G@J FHDMVSGD@SHL D' S@D@QV HRCNL ~@MC S@D@H@ENM@R@D@A@D S@D@M@R@SN S@D@R@D@M@C@R@1  
HMBK CD @KDK@SDC: DM@SNOR @KSGNRD V GN RD@D NIVNTO: S@M@HMF +NL L H@S@D@R@SGD -V@B@T@SH@D +NL L H@S@D@D  
NESGD: DM@SD SGNRD V GN V D@D @MC @D V HMMF SN RD@D NIVNTO: DM@SD; @RJ . NOBDR @MC @K@N@E@S@D@L DL AD@R@NE  
NTO @BT@K@) R@D@L A@K@ TML X U@H@V ~: SNBJSNMR@D@D @MC S@T@K@N@O@D@M@O@B@D@SN V NQI @MC SN RSTCX 1GNOD  
V D V H@K@O@S@H@M@N@T@O@N@O@D@M@D@R@SN MDV H@D@R@N@T@Q@V HMMFMDRRSN @R@T@L D O@C@D@M@S@O@R@ ~@MC N@T@O@C@D@N@S@H@M@S@N  
N@T@O@R@S@T@C@D@M@S@R@