4/27/70

```
      PROGRAM QUICKIE
      DIMENSION XSTD(200),YSTD(200),XNEW(200),YNEW(200),OUT(200),
     C          NAMES(4),NAMEN(4)
      COMMON IWORK(500),PLOTY(200),XSCALE(2),YSCALE(2)
      XSCALE(1)=0.00
      XSCALE(2)=2.50
      YSCALE(1)= .60
      YSCALE(2)=1.40
      XLEN= 10.
      YLEN= 8.
      XFACT= XLEN/(XSCALE(2)-XSCALE(1))
      YFACT= YLEN/(YSCALE(2)-YSCALE(1))
      BIASX= XFACT*XSCALE(1)
      BIASY= YFACT*YSCALE(1)-1.0
      DELTAX= 1./XFACT
      CALL PLOTS(IWORK,500,1)
      READ(60,5) NSTD,NAMES
    5 FORMAT(I5,1X,4A4)
      READ(60,6) (XSTD(J),YSTD(J),J=1,NSTD)
    6 FORMAT(6F10.0)
    7 READ(60,5) NNEW,NAMEN
      GO TO(30,8),EOFCKF(60)
    8 READ(60,6) (XNEW(J),YNEW(J),J=1,NNEW)
      K= 1
      DO 10 J=1,NSTD
   10 CALL SEARCH (OUT(J),XSTD(J),XNEW,YNEW,NNEW,K)
      READ(60,6) CONST,PLTLOW,PLTHGH
      WRITE(61,15) NAMEN,NAMES,CONST
   15 FORMAT(1H1,14X,18H RATIO,NEW CURVE (,4A4,11H) TO STD. (,4A4,
     C        8H),CONST=,F12.8,//,16X,11H WAVELENGTH,15X,6H YSTD.,
     2        18X,5H YNEW,17X,6H RATIO,/)
      ICOUNT= 0
      DO 25 J=1,NSTD
      RATIO= (CONST*OUT(J))/YSTD(J)
      WRITE(61,21) XSTD(J),YSTD(J),OUT(J),RATIO
   21 FORMAT(10X,F15.3,3( 9X,F14.5).)
      IF( XSTD(J).LT.PLTLOW .OR. XSTD(J).GT.PLTHGH )25,20
   20 ICOUNT= ICOUNT+1
      PLOTY(ICOUNT)= RATIO
      XNEW(ICOUNT)= XSTD(J)
   25 CONTINUE
      CALL GRID(0.,1.,XLEN,YLEN/2.,1,2)
      CALL AXIS(0.,1.,4H     ,4,YLEN,90.,YSCALE(1),1./YFACT)
      CALL AXIS(1.,5.,4H     ,-4,XLEN-1.,0.,XSCALE(1)+DELTAX,DELTAX)
      CALL SYMBOL(3.,10.,.25,NAMEN,0.,16)
      WRITE(61,26) XNEW(1),XNEW(ICOUNT)
   26 FORMAT(1H0,14X,18H DATA PLOTTED FROM,F7.4,3H TO,F8.4)
      ITEM= 3
      DO 28 J=1,ICOUNT
      XINCH= XFACT*XNEW(J)-BIASX
      YINCH= YFACT*PLOTY(J)-BIASY
      CALL PLOT(XINCH,YINCH,ITEM)
   28 ITEM= 2
      CALL PLOT(XLEN,0.,-3)
      CALL PLOT(3.,0.,-3)
      GO TO 7
   30 WRITE(61,32)
   32 FORMAT(1H0,11H END OF RUN)
      ENDFILE 1
      STOP
      END
```

Ratio of Solar Curves to Proposed NASA Standard.

ATIO,NEW CURVE (THEKAEKARA ET AL) TO STD. (NASA STANDARD SO),CONST= 1.00166787

WAVELENGTH	YSTD.	YNEW	RATIO
.230	.00667	.00667	1.00167
.235	.00593	.00593	1.00167
.240	.00630	.00630	1.00167
.245	.00723	.00723	1.00167
.250	.00704	.00704	1.00167
.255	.01040	.01040	1.00167
.260	.01300	.01300	1.00167
.265	.01850	.01850	1.00167
.270	.02320	.02320	1.00167
.275	.02040	.02040	1.00167
.280	.02220	.02220	1.00167
.285	.03150	.03150	1.00167
.290	.04820	.04820	1.00167
.295	.05840	.05840	1.00167
.300	.05140	.05140	1.00167
.305	.06030	.06020	1.00001
.310	.06890	.06860	.99731
.315	.07640	.07570	.99249
.320	.08300	.08190	.98839
.325	.09750	.09580	.98420
.330	.10590	.10370	.98086
.335	.10810	.10570	.97943
.340	.10740	.10500	.97928
.345	.10690	.10470	.98105
.350	.10930	.10740	.98426
.355	.10830	.10670	.98687
.360	.10680	.10550	.98948
.365	.11320	.11220	.99282
.370	.11810	.11730	.99488
.375	.11570	.11520	.99734
.380	.11200	.11170	.99898
.385	.10980	.10970	1.00076
.390	.10980	.10990	1.00258
.395	.11890	.11910	1.00335
.400	.14290	.14330	1.00447
.405	.16440	.16510	1.00593
.410	.17510	.17590	1.00624
.415	.17740	.17830	1.00675
.420	.17470	.17580	1.00797
.425	.16930	.17050	1.00877
.430	.16390	.16510	1.00900
.435	.16630	.16750	1.00890
.440	.18100	.18230	1.00886
.445	.19220	.19360	1.00896
.450	.20060	.20200	1.00866
.455	.20570	.20700	1.00800
.460	.20660	.20800	1.00846
.465	.20480	.20600	1.00754
.470	.20330	.20450	1.00758
.475	.20440	.20550	1.00706
.480	.20740	.20850	1.00698
.485	.19760	.19860	1.00674
.490	.19500	.19590	1.00629
.495	.19600	.19660	1.00473
.500	.19420	.19460	1.00373
.505	.19200	.19220	1.00271
.510	.18820	.18820	1.00167
.515	.18330	.18330	1.00167
.520	.18330	.18330	1.00167
.525	.18520	.18520	1.00167

.530	.18420	.18420	1.00167
.535	.18180	.18180	1.00167
.540	.17830	.17830	1.00167
.545	.17540	.17540	1.00167
.550	.17250	.17250	1.00167
.555	.17200	.17200	1.00167
.560	.16950	.16950	1.00167
.565	.17050	.17000	.99873
.570	.17120	.17050	.99757
.575	.17190	.17100	.99642
.580	.17150	.17050	.99583
.585	.17120	.17000	.99465
.590	.17000	.16850	.99283
.595	.16820	.16650	.99154
.600	.16660	.16460	.98964
.605	.16470	.16260	.98890
.610	.16350	.16110	.98696
.620	.16020	.15760	.98541
.630	.15700	.15420	.98380
.640	.15440	.15170	.98415
.650	.15110	.14870	.98576
.660	.14860	.14680	.98953
.670	.14560	.14430	.99272
.680	.14270	.14180	.99535
.690	.14020	.13980	.99881
.700	.13690	.13690	1.00167
.710	.13440	.13440	1.00167
.720	.13140	.13140	1.00167
.730	.12900	.12900	1.00167
.740	.12600	.12600	1.00167
.750	.12350	.12350	1.00167
.800	.11070	.11070	1.00167
.850	.09880	.09880	1.00167
.900	.08890	.08890	1.00167
.950	.08350	.08350	1.00167
1.000	.07460	.07460	1.00167
1.100	.05920	.05920	1.00167
1.200	.04840	.04840	1.00167
1.300	.03960	.03960	1.00167
1.400	.03360	.03360	1.00167
1.500	.02870	.02870	1.00167
1.600	.02440	.02440	1.00167
1.700	.02020	.02020	1.00167
1.800	.01590	.01590	1.00167
1.900	.01260	.01260	1.00167
2.000	.01030	.01030	1.00167
2.100	.00900	.00900	1.00167
2.200	.00790	.00790	1.00167
2.300	.00680	.00680	1.00167
2.400	.00640	.00640	1.00167
2.500	.00540	.00540	1.00167
2.600	.00480	.00480	1.00167
2.700	.00430	.00430	1.00167
2.800	.00390	.00390	1.00167

ATA PLOTTED FROM .2500 TO 2.5000

TIO, NEW CURVE (THEKAEKARA ET AL) TO STD. (NASA STANDARD SO), CONST= 1.00000000

AVELENGTH	YSTD.	YNEW	RATIO
.230	.00667	.00667	1.00000
.235	.00593	.00593	1.00000
.240	.00630	.00630	1.00000
.245	.00723	.00723	1.00000
.250	.00704	.00704	1.00000
.255	.01040	.01040	1.00000
.260	.01300	.01300	1.00000
.265	.01850	.01850	1.00000
.270	.02320	.02320	1.00000
.275	.02040	.02040	1.00000
.280	.02220	.02220	1.00000
.285	.03150	.03150	1.00000
.290	.04820	.04820	1.00000
.295	.05840	.05840	1.00000
.300	.05140	.05140	1.00000
.305	.06030	.06020	.99834
.310	.06890	.06860	.99565
.315	.07640	.07570	.99084
.320	.08300	.08190	.98675
.325	.09750	.09580	.98256
.330	.10590	.10370	.97923
.335	.10810	.10570	.97780
.340	.10740	.10500	.97765
.345	.10690	.10470	.97942
.350	.10930	.10740	.98262
.355	.10830	.10670	.98523
.360	.10680	.10550	.98783
.365	.11320	.11220	.99117
.370	.11810	.11730	.99323
.375	.11570	.11520	.99568
.380	.11200	.11170	.99732
.385	.10980	.10970	.99909
.390	.10980	.10990	1.00091
.395	.11890	.11910	1.00168
.400	.14290	.14330	1.00280
.405	.16440	.16510	1.00426
.410	.17510	.17590	1.00457
.415	.17740	.17830	1.00507
.420	.17470	.17580	1.00630
.425	.16930	.17050	1.00709
.430	.16390	.16510	1.00732
.435	.16630	.16750	1.00722
.440	.18100	.18230	1.00718
.445	.19220	.19360	1.00728
.450	.20060	.20200	1.00698
.455	.20570	.20700	1.00632
.460	.20660	.20800	1.00678
.465	.20480	.20600	1.00586
.470	.20330	.20450	1.00590
.475	.20440	.20550	1.00538
.480	.20740	.20850	1.00530
.485	.19760	.19860	1.00506
.490	.19500	.19590	1.00462
.495	.19600	.19660	1.00306
.500	.19420	.19460	1.00206
.505	.19200	.19220	1.00104
.510	.18820	.18820	1.00000
.515	.18330	.18330	1.00000
.520	.18330	.18330	1.00000
.525	.18520	.18520	1.00000

The proposed standard curve

The curve obtained from the GSFC NASA 7/1 experiment

Max increase → .97780

Max decrease → 1.00732

.530	.18420	.18420	1.00000
.535	.18180	.18180	1.00000
.540	.17830	.17830	1.00000
.545	.17540	.17540	1.00000
.550	.17250	.17250	1.00000
.555	.17200	.17200	1.00000
.560	.16950	.16950	1.00000
.565	.17050	.17000	.99707
.570	.17120	.17050	.99591
.575	.17190	.17100	.99476
.580	.17150	.17050	.99417
.585	.17120	.17000	.99299
.590	.17000	.16850	.99118
.595	.16820	.16650	.98989
.600	.16660	.16460	.98800
.605	.16470	.16260	.98725
.610	.16350	.16110	.98532
.620	.16020	.15760	.98377
.630	.15700	.15420 Imax mercari →	.98217
.640	.15440	.15170	.98251
.650	.15110	.14870	.98412
.660	.14860	.14680	.98789
.670	.14560	.14430	.99107
.680	.14270	.14180	.99369
.690	.14020	.13980	.99715
.700	.13690	.13690	1.00000
.710	.13440	.13440	1.00000
.720	.13140	.13140	1.00000
.730	.12900	.12900	1.00000
.740	.12600	.12600	1.00000
.750	.12350	.12350	1.00000
.800	.11070	.11070	1.00000
.850	.09880	.09880	1.00000
.900	.08890	.08890	1.00000
.950	.08350	.08350	1.00000
1.000	.07460	.07460	1.00000
1.100	.05920	.05920	1.00000
1.200	.04840	.04840	1.00000
1.300	.03960	.03960	1.00000
1.400	.03360	.03360	1.00000
1.500	.02870	.02870	1.00000
1.600	.02440	.02440	1.00000
1.700	.02020	.02020	1.00000
1.800	.01590	.01590	1.00000
1.900	.01260	.01260	1.00000
2.000	.01030	.01030	1.00000
2.100	.00900	.00900	1.00000
2.200	.00790	.00790	1.00000
2.300	.00680	.00680	1.00000
2.400	.00640	.00640	1.00000
2.500	.00540	.00540	1.00000
2.600	.00480	.00480	1.00000
2.700	.00430	.00430	1.00000
2.800	.00390	.00390	1.00000

ATA PLOTTED FROM .2500 TO 2.5000
01 LIES BEYOND DATA TABLE
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01 LIES BEYOND DATA TABLE
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01 LIES BEYOND DATA TABLE
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RATIO,NEW CURVE (JOHNSCN SOLAR CU) TO STD. (NASA STANDARD SO),CONST= .96555326

WAVELENGTH	YSTD.	YNEW	RATIO
.000	0	.00300	**********
.120	.00001	.00300	289.46335
.140	.00000	.00300	965.55326
.150	.00001	.00300	413.80854
.160	.00002	.00300	125.94173
.170	.00006	.00300	45.97873
.180	.00012	.00300	23.17328
.190	.00027	.00300	10.68878
.200	.00107	.00300	2.70716
.210	.00229	.00300	1.26492
.220	.00575	.00300	.50377
.225	.00649	.00420	.62486
.230	.00667	.00520	.75276
.235	.00593	.00540	.87926
.240	.00630	.00580	.88892
.245	.00723	.00640	.85471
.250	.00704	.00640	.87778
.255	.01040	.01000	.92842
.260	.01300	.01300	.96555
.265	.01850	.02000	1.04384
.270	.02320	.02500	1.04047
.275	.02040	.02200	1.04128
.280	.02220	.02400	1.04384
.285	.03150	.03400	1.04218
.290	.04820	.05200	1.04168
.295	.05840	.06300	1.04161
.300	.05140	.06100	1.14589
.305	.06030	.06700	1.07284
.310	.06890	.07600	1.06505
.315	.07640	.08200	1.03633
.320	.08300	.08500	.98882
.325	.09750	.10200	1.01012
.330	.10590	.11500	1.04852
.335	.10810	.11100	.99146
.340	.10740	.11100	.99792
.345	.10690	.11700	1.05678
.350	.10930	.11800	1.04241
.355	.10830	.11600	1.03420
.360	.10680	.11600	1.04873
.365	.11320	.12900	1.10032
.370	.11810	.13300	1.08737
.375	.11570	.13200	1.10158
.380	.11200	.12300	1.06038
.385	.10980	.11500	1.01128
.390	.10980	.11200	.98490
.395	.11890	.12000	.97449
.400	.14290	.15400	1.04055
.405	.16440	.18800	1.10416
.410	.17510	.19400	1.06977
.415	.17740	.19200	1.04502
.420	.17470	.19200	1.06117
.425	.16930	.18900	1.07791
.430	.16390	.17800	1.04862
.435	.16630	.18200	1.05671
.440	.18100	.20300	1.08291
.445	.19220	.21500	1.08009
.450	.20060	.22000	1.05893
.455	.20570	.21900	1.02798
.460	.20660	.21600	1.00948
.465	.20480	.21500	1.01364

.470	.20330	.21700	1.03062
.475	.20440	.22000	1.03925
.480	.20740	.21600	1.00559
.485	.19760	.20300	.99194
.490	.19500	.19900	.98536
.495	.19600	.20400	1.00496
.500	.19420	.19800	.98445
.505	.19200	.19700	.99070
.510	.18820	.19600	1.00557
.515	.18330	.18900	.99558
.520	.18330	.18700	.98504
.525	.18520	.19200	1.00101
.530	.18420	.19500	1.02217
.535	.18180	.19700	1.04628
.540	.17830	.19800	1.07224
.545	.17540	.19800	1.08996
.550	.17250	.19500	1.09149
.555	.17200	.19200	1.07783
.560	.16950	.19000	1.08233
.565	.17050	.18900	1.07032
.570	.17120	.18700	1.05466
.575	.17190	.18700	1.05037
.580	.17150	.18700	1.05282
.585	.17120	.18500	1.04338
.590	.17000	.18400	1.04507
.595	.16820	.18300	1.05051
.600	.16660	.18100	1.04901
.605	.16470	.17900	1.04939
.610	.16350	.17700	1.04528
.620	.16020	.17400	1.04873
.630	.15700	.17000	1.04550
.640	.15440	.16600	1.03809
.650	.15110	.16200	1.03521
.660	.14860	.15900	1.03313
.670	.14560	.15500	1.02789
.680	.14270	.15100	1.02171
.690	.14020	.14800	1.01927
.700	.13690	.14400	1.01563
.710	.13440	.14100	1.01297
.720	.13140	.13700	1.00670
.730	.12900	.13400	1.00298
.740	.12600	.13000	.99621
.750	.12350	.12700	.99292
.800	.11070	.11270	.98300
.850	.09880	.10030	.98021
.900	.08890	.08950	.97207
.950	.08350	.08030	.92855
1.000	.07460	.07250	.93837
1.100	.05920	.06060	.98839
1.200	.04840	.05010	.99947
1.300	.03960	.04060	.98994
1.400	.03360	.03280	.94256
1.500	.02870	.02670	.89827
1.600	.02440	.02200	.87058
1.700	.02020	.01820	.86995
1.800	.01590	.01520	.92304
1.900	.01260	.01274	.97628
2.000	.01030	.01079	1.01149
2.100	.00900	.00917	.98379
2.200	.00790	.00785	.95944
2.300	.00680	.00676	.95987
2.400	.00640	.00585	.88258
2.500	.00540	.00509	.91012
2.600	.00480	.00445	.89515

2.700	.00430	.00390	.87573
2.800	.00390	.00343	.84919
2.900	.00350	.00303	.83589
3.000	.00310	.00268	.83474
3.100	.00260	.00230	.85414
3.200	.00226	.00214	.91428
3.300	.00192	.00191	.96052
3.400	.00166	.00171	.99464
3.500	.00146	.00153	1.01185
3.600	.00135	.00139	.99416
3.700	.00123	.00125	.98125
3.800	.00111	.00114	.99165
3.900	.00103	.00103	.96555
4.000	.00095	.00095	.96555
4.100	.00087	.00087	.96555
4.200	.00078	.00080	.99031
4.300	.00071	.00073	.99275
4.400	.00065	.00067	.99526
4.500	.00059	.00061	.99828
4.600	.00053	.00056	1.02021
4.700	.00048	.00051	1.02590
4.800	.00045	.00048	1.02992
4.900	.00041	.00044	1.03620
5.000	.00038	.00042	1.05883
6.000	.00017	.00021	1.15866
7.000	.00010	.00012	1.17037
8.000	.00006	.00012	1.93111
9.000	.00004	.00012	3.04912
10.000	.00002	.00012	4.63466
11.000	.00002	.00012	6.81567
12.000	.00001	.00012	9.65553
13.000	.00001	.00012	13.31798
14.000	.00001	.00012	21.06662
15.000	.00000	.00012	23.64620
16.000	.00000	.00012	30.49116
17.000	.00000	.00012	37.37626
18.000	.00000	.00012	48.27766
19.000	.00000	.00012	57.93320
20.000	.00000	.00012	72.41649
25.000	.00000	.00012	189.94490
30.000	.00000	.00012	386.22130
35.000	.00000	.00012	724.16494
40.000	.00000	.00012	1232.62118
50.000	.00000	.00012	3049.11555
60.000	.00000	.00012	6098.23110
80.000	.00000	.00012	16552.34157
100.000	.00000	.00012	38622.13032
1000.000	0	.00012	**********

DATA PLOTTED FROM .2500 TO 2.5000

-04 LIES BEYOND DATA TABLE
-01 LIES BEYOND DATA TABLE
-01 LIES BEYOND DATA TABLE
-01 LIES BEYOND DATA TABLE
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ATIO,NEW CURVE (NICOLET SOLAR C) TO STD. (NASA STANDARD SO),CONST= .00658292

WAVELENGTH	YSTD.	YNEW	RATIO
.230	.00667	6.00000	5.92166
.235	.00593	6.00000	6.66062
.240	.00630	6.00000	6.26944
.245	.00723	6.00000	5.46300
.250	.00704	6.00000	5.61044
.255	.01040	6.00000	3.79784
.260	.01300	6.00000	3.03827
.265	.01850	6.00000	2.13500
.270	.02320	6.00000	1.70248
.275	.02040	6.00000	1.93615
.280	.02220	6.00000	1.77917
.285	.03150	6.00000	1.25389
.290	.04820	6.00000	.81945
.295	.05840	6.00000	.67633
.300	.05140	6.00000	.76843
.305	.06030	7.40000	.80785
.310	.06890	8.80000	.84078
.315	.07640	9.55000	.82286
.320	.08300	10.30000	.81692
.325	.09750	11.45000	.77307
.330	.10590	12.60000	.78324
.335	.10810	12.50000	.76121
.340	.10740	12.40000	.76004
.345	.10690	12.75000	.78515
.350	.10930	13.10000	.78899
.355	.10830	13.30000	.80843
.360	.10680	13.50000	.83211
.365	.11320	13.50000	.78507
.370	.11810	13.50000	.75249
.375	.11570	13.45000	.76526
.380	.11200	13.40000	.78760
.385	.10980	13.80000	.82736
.390	.10980	14.20000	.85134
.395	.11890	18.20000	1.00765
.400	.14290	22.20000	1.02268
.405	.16440	23.70000	.94900
.410	.17510	25.20000	.94740
.415	.17740	25.25000	.93697
.420	.17470	25.30000	.95334
.425	.16930	24.45000	.95069
.430	.16390	23.60000	.94788
.435	.16630	25.55000	1.01139
.440	.18100	27.50000	1.00017
.445	.19220	28.80000	.98641
.450	.20060	30.10000	.98777
.455	.20570	30.60000	.97928
.460	.20660	31.10000	.99094
.465	.20480	31.00000	.99644
.470	.20330	30.90000	1.00055
.475	.20440	31.15000	1.00322
.480	.20740	31.40000	.99664
.485	.19760	30.25000	1.00776
.490	.19500	29.10000	.98237
.495	.19600	29.50000	.99080
.500	.19420	29.90000	1.01354
.505	.19200	29.85000	1.02344
.510	.18820	29.80000	1.04235
.515	.18330	28.80000	1.03430
.520	.18330	27.80000	.99839
.525	.18520	28.40000	1.00948

.530	.18420	29.00000	1.03640
.535	.18180	29.00000	1.05008
.540	.17830	29.00000	1.07069
.545	.17540	29.10000	1.09215
.550	.17250	29.20000	1.11433
.555	.17200	29.55000	1.13096
.560	.16950	29.90000	1.16123
.565	.17050	29.20000	1.12740
.570	.17120	28.50000	1.09587
.575	.17190	28.50000	1.09141
.580	.17150	28.50000	1.09395
.585	.17120	28.05000	1.07857
.590	.17000	27.60000	1.06876
.595	.16820	27.45000	1.07432
.600	.16660	27.30000	1.07871
.605	.16470	26.90000	1.07517
.610	.16350	26.50000	1.06696
.620	.16020	25.80000	1.06017
.630	.15700	25.20000	1.05662
.640	.15440	24.60000	1.04883
.650	.15110	24.20000	1.05431
.660	.14860	23.70000	1.04990
.670	.14560	23.10000	1.04440
.680	.14270	22.60000	1.04256
.690	.14020	22.00000	1.03298
.700	.13690	21.30000	1.02422
.710	.13440	20.80000	1.01878
.720	.13140	20.30000	1.01700
.730	.12900	19.90000	1.01550
.740	.12600	19.00000	.99266
.750	.12350	18.80000	1.00210
.800	.11070	16.60000	.98714
.850	.09880	14.50000	.96612
.900	.08890	12.70000	.94042
.950	.08350	11.40000	.89875
1.000	.07460	10.60000	.93537
1.100	.05920	8.90000	.98966
1.200	.04840	7.60000	1.03368
1.300	.03960	6.37000	1.05892
1.400	.03360	5.07000	.99332
1.500	.02870	4.32000	.99088
1.600	.02440	3.78000	1.01981
1.700	.02020	3.33000	1.08520
1.800	.01590	2.87000	1.18824
1.900	.01260	2.41000	1.25911
2.000	.01030	1.95000	1.24628
2.100	.00900	1.49000	1.08984
2.200	.00790	1.12037	.93358
2.300	.00680	1.12000	1.08424
2.400	.00640	1.12000	1.15201
2.500	.00540	1.12000	1.36535
2.600	.00480	1.12000	1.53601
2.700	.00430	1.12000	1.71462
2.800	.00390	1.12000	1.89048

ATA PLOTTED FROM .3000 TO 2.2000
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RATIO,NEW CURVE (LABS AND NECKEL) TO STD. (NASA STANDARD SO),CONST= .98655374

WAVELENGTH	YSTD.	YNEW	RATIO
.000	0	.00160	**********
.120	.00001	.00160	157.73818
.140	.00000	.00160	526.16199
.150	.00001	.00160	225.49800
.160	.00002	.00160	68.62983
.170	.00006	.00160	25.05533
.180	.00012	.00160	12.62789
.190	.00027	.00160	5.82467
.200	.00107	.00160	1.47522
.210	.00229	.00270	1.16319
.220	.00575	.00470	.80640
.225	.00649	.00560	.85126
.230	.00667	.00555	.82090
.235	.00593	.00550	.91502
.240	.00630	.00580	.90826
.245	.00723	.00610	.83236
.250	.00704	.00745	1.04401
.255	.01040	.00880	.83478
.260	.01300	.01255	.95240
.265	.01850	.01630	.86923
.270	.02320	.01715	.72928
.275	.02040	.01800	.87049
.280	.02220	.02290	1.01766
.285	.03150	.02780	.87067
.290	.04820	.03960	.81053
.295	.05840	.05140	.86830
.300	.05140	.05305	1.01822
.305	.06030	.05470	.89493
.310	.06890	.06085	.87129
.315	.07640	.06700	.86517
.320	.08300	.07515	.89325
.325	.09750	.08330	.84287
.330	.10590	.08745	.81468
.335	.10810	.09160	.83597
.340	.10740	.09130	.83866
.345	.10690	.09100	.83982
.350	.10930	.09375	.84620
.355	.10830	.09650	.87906
.360	.10680	.10170	.93944
.365	.11320	.10690	.93165
.370	.11810	.10630	.88798
.375	.11570	.10570	.90129
.380	.11200	.10085	.88834
.385	.10980	.09600	.86256
.390	.10980	.10555	.94837
.395	.11890	.11510	.95502
.400	.14290	.14035	.96895
.405	.16440	.16560	.99375
.410	.17510	.16905	.95247
.415	.17740	.17250	.95930
.420	.17470	.17040	.96227
.425	.16930	.16830	.98073
.430	.16390	.16890	1.01665
.435	.16630	.16950	1.00554
.440	.18100	.18245	.99446
.445	.19220	.19540	1.00298
.450	.20060	.19935	.98041
.455	.20570	.20330	.97504
.460	.20660	.20225	.96578
.465	.20480	.20120	.96921

.470	.20330	.20130	.97685
.475	.20440	.20140	.97207
.480	.20740	.19630	.93375
.485	.19760	.19120	.95460
.490	.19500	.19460	.98453
.495	.19600	.19800	.99662
.500	.19420	.19525	.99189
.505	.19200	.19250	.98912
.510	.18820	.18890	.99022
.515	.18330	.18530	.99732
.520	.18330	.18665	1.00458
.525	.18520	.18800	1.00147
.530	.18420	.19095	1.02271
.535	.18180	.19390	1.05222
.540	.17830	.19080	1.05572
.545	.17540	.18770	1.05574
.550	.17250	.18690	1.06891
.555	.17200	.18610	1.06743
.560	.16950	.18545	1.07939
.565	.17050	.18480	1.06930
.570	.17120	.18505	1.06637
.575	.17190	.18530	1.06346
.580	.17150	.18400	1.05846
.585	.17120	.18270	1.05282
.590	.17000	.18040	1.04691
.595	.16820	.17810	1.04462
.600	.16660	.17695	1.04784
.605	.16470	.17580	1.05304
.610	.16350	.17400	1.04991
.620	.16020	.16980	1.04567
.630	.15700	.16635	1.04531
.640	.15440	.16335	1.04374
.650	.15110	.15670	1.02312
.660	.14860	.15375	1.02074
.670	.14560	.15355	1.04042
.680	.14270	.15025	1.03875
.690	.14020	.14695	1.03405
.700	.13690	.14330	1.03267
.710	.13440	.14005	1.02803
.720	.13140	.13705	1.02897
.730	.12900	.13360	1.02173
.740	.12600	.13000	1.01787
.750	.12350	.12745	1.01811
.800	.11070	.11485	1.02354
.850	.09880	.09960	.99454
.900	.08890	.09090	1.00875
.950	.08350	.08145	.96233
1.000	.07460	.07319	.96792
1.100	.05920	.06004	1.00064
1.200	.04840	.04936	1.00612
1.300	.03960	.04108	1.02342
1.400	.03360	.03465	1.01724
1.500	.02870	.02957	1.01646
1.600	.02440	.02503	1.01223
1.700	.02020	.02071	1.01146
1.800	.01590	.01696	1.05232
1.900	.01260	.01399	1.09539
2.000	.01030	.01166	1.11730
2.100	.00900	.00980	1.07370
2.200	.00790	.00827	1.03276
2.300	.00680	.00703	1.02065
2.400	.00640	.00603	.92952
2.500	.00540	.00520	.95093
2.600	.00480	.00451	.92695

2.700	.00430	.00392	.89937
2.800	.00390	.00342	.86640
2.900	.00350	.00300	.84703
3.000	.00310	.00264	.84175
3.100	.00260	.00234	.88600
3.200	.00226	.00206	.90143
3.300	.00192	.00183	.94288
3.400	.00166	.00164	.97467
3.500	.00146	.00147	.99331
3.600	.00135	.00132	.96463
3.700	.00123	.00119	.95447
3.800	.00111	.00107	.95545
3.900	.00103	.00097	.93244
4.000	.00095	.00088	.91853
4.100	.00087	.00080	.91285
4.200	.00078	.00073	.92837
4.300	.00071	.00067	.93097
4.400	.00065	.00061	.92964
4.500	.00059	.00056	.93890
4.600	.00053	.00052	.96049
4.700	.00048	.00048	.97628
4.800	.00045	.00044	.96134
4.900	.00041	.00040	.97452
5.000	.00038	.00038	.97133
6.000	.00017	.00020	1.11340
7.000	.00010	.00011	1.06877
8.000	.00006	.00006	1.02519
9.000	.00004	.00004	1.00862
10.000	.00002	.00003	1.00628
11.000	.00002	.00002	.92852
12.000	.00001	.00001	.88790
13.000	.00001	.00001	.99846
14.000	.00001	.00001	1.17938
15.000	.00000	.00000	1.00266
16.000	.00000	.00000	.99564
17.000	.00000	.00000	.94836
18.000	.00000	.00000	.97217
19.000	.00000	.00000	.94709
20.000	.00000	.00000	.97114
25.000	.00000	.00000	1.04882
30.000	.00000	.00000	1.05232
35.000	.00000	.00000	1.10987
40.000	.00000	.00000	1.28042
50.000	.00000	.00000	1.20723
60.000	.00000	.00000	1.14233
80.000	.00000	.00000	.91609
100.000	.00000	.00000	.98655
1000.000	0	.00000	**********

DATA PLOTTED FROM .2500 TO 2.5000

ATIO,NEW CURVE (STAIR AND ELLIS) TO STD. (NASA STANDARD SO),CONST= 1.03125606

WAVELENGTH	YSTD.	YNEW	RATIO
.230	.00667	.05400	8.34900
.235	.00593	.05400	9.39086
.240	.00630	.05400	8.83934
.245	.00723	.05400	7.70233
.250	.00704	.05400	7.91020
.255	.01040	.05400	5.35460
.260	.01300	.05400	4.28368
.265	.01850	.05400	3.01015
.270	.02320	.05400	2.40034
.275	.02040	.05400	2.72980
.280	.02220	.05400	2.50846
.285	.03150	.05400	1.76787
.290	.04820	.05400	1.15535
.295	.05840	.05400	.95356
.300	.05140	.05400	1.08342
.305	.06030	.05900	1.00902
.310	.06890	.06700	1.00282
.315	.07640	.07200	.97186
.320	.08300	.07500	.93186
.325	.09750	.08300	.87789
.330	.10590	.09300	.90564
.335	.10810	.09100	.86812
.340	.10740	.09200	.88339
.345	.10690	.09600	.92610
.350	.10930	.10100	.95294
.355	.10830	.10500	.99983
.360	.10680	.10400	1.00422
.365	.11320	.10900	.99299
.370	.11810	.11500	1.00419
.375	.11570	.11300	1.00719
.380	.11200	.11500	1.05888
.385	.10980	.10700	1.00496
.390	.10980	.10800	1.01435
.395	.11890	.10900	.94539
.400	.14290	.15000	1.08249
.405	.16440	.18000	1.12911
.410	.17510	.17800	1.04834
.415	.17740	.17800	1.03474
.420	.17470	.17700	1.04483
.425	.16930	.17100	1.04161
.430	.16390	.15700	.98784
.435	.16630	.16300	1.01079
.440	.18100	.17400	.99137
.445	.19220	.18600	.99799
.450	.20060	.19200	.98704
.455	.20570	.19100	.95756
.460	.20660	.19000	.94840
.465	.20480	.19000	.95673
.470	.20330	.19000	.96379
.475	.20440	.19400	.97879
.480	.20740	.19500	.96960
.485	.19760	.18400	.96028
.490	.19500	.18300	.96779
.495	.19600	.19000	.99969
.500	.19420	.19000	1.00895
.505	.19200	.18900	1.01514
.510	.18820	.19200	1.05208
.515	.18330	.19400	1.09145
.520	.18330	.19100	1.07458
.525	.18520	.19200	1.06912

.530	.18420	.19500	1.09172
.535	.18180	.19500	1.10613
.540	.17830	.19500	1.12785
.545	.17540	.19500	1.14649
.550	.17250	.19500	1.16577
.555	.17200	.19500	1.16916
.560	.16950	.19500	1.18640
.565	.17050	.19500	1.17944
.570	.17120	.19500	1.17462
.575	.17190	.19500	1.16984
.580	.17150	.19500	1.17257
.585	.17120	.19500	1.17462
.590	.17000	.19500	1.18291
.595	.16820	.19500	1.19557
.600	.16660	.19500	1.20705
.605	.16470	.19500	1.22098
.610	.16350	.19500	1.22994
.620	.16020	.19500	1.25527
.630	.15700	.19500	1.28086
.640	.15440	.19500	1.30243
.650	.15110	.19500	1.33087
.660	.14860	.19500	1.35326
.670	.14560	.19500	1.38115
.680	.14270	.19500	1.40921
.690	.14020	.19500	1.43434
.700	.13690	.19500	1.46892
.710	.13440	.19500	1.49624
.720	.13140	.19500	1.53040
.730	.12900	.19500	1.55888
.740	.12600	.19500	1.59599
.750	.12350	.19500	1.62830
.800	.11070	.19500	1.81658
.850	.09880	.19500	2.03537
.900	.08890	.19500	2.26204
.950	.08350	.19500	2.40832
1.000	.07460	.19500	2.69564
1.100	.05920	.19500	3.39687
1.200	.04840	.19500	4.15485
1.300	.03960	.19500	5.07815
1.400	.03360	.19500	5.98497
1.500	.02870	.19500	7.00679
1.600	.02440	.19500	8.24160
1.700	.02020	.19500	9.95519
1.800	.01590	.19500	12.64748
1.900	.01260	.19500	15.95992
2.000	.01030	.19500	19.52378
2.100	.00900	.19500	22.34388
2.200	.00790	.19500	25.45505
2.300	.00680	.19500	29.57278
2.400	.00640	.19500	31.42108
2.500	.00540	.19500	37.23980
2.600	.00480	.19500	41.89478
2.700	.00430	.19500	46.76626
2.800	.00390	.19500	51.56280

ATA PLOTTED FROM .3000 TO .5300

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Wicolet

ATIO, NEW CURVE (ARVESEN'S CURVE) TO STD. (NASA STANDARD SO), CONST= .96830286

WAVELENGTH	YSTD.	YNEW	RATIO
.230	.00667	.05600	8.12968
.235	.00593	.05600	9.14418
.240	.00630	.05600	8.60714
.245	.00723	.05600	7.49999
.250	.00704	.05600	7.70241
.255	.01040	.05600	5.21394
.260	.01300	.05600	4.17115
.265	.01850	.05600	2.93108
.270	.02320	.05600	2.33728
.275	.02040	.05600	2.65809
.280	.02220	.05600	2.44257
.285	.03150	.05600	1.72143
.290	.04820	.05600	1.12500
.295	.05840	.05600	.92851
.300	.05140	.05600	1.05496
.305	.06030	.05900	.94743
.310	.06890	.06600	.92755
.315	.07640	.07300	.92521
.320	.08300	.07500	.87497
.325	.09750	.08900	.88389
.330	.10590	.10400	.95093
.335	.10810	.10200	.91366
.340	.10740	.10000	.90159
.345	.10690	.10100	.91486
.350	.10930	.10400	.92135
.355	.10830	.10200	.91197
.360	.10680	.09800	.88852
.365	.11320	.11500	.98370
.370	.11810	.11500	.94289
.375	.11570	.11300	.94571
.380	.11200	.11100	.95966
.385	.10980	.10500	.92597
.390	.10980	.11000	.97007
.395	.11890	.12100	.98540
.400	.14290	.15400	1.04352
.405	.16440	.17700	1.04252
.410	.17510	.18300	1.01199
.415	.17740	.18800	1.02616
.420	.17470	.18500	1.02539
.425	.16930	.17600	1.00662
.430	.16390	.16700	.98662
.435	.16630	.17500	1.01896
.440	.18100	.19200	1.02715
.445	.19220	.20100	1.01264
.450	.20060	.20600	.99437
.455	.20570	.21000	.98854
.460	.20660	.21100	.98892
.465	.20480	.20800	.98343
.470	.20330	.20700	.98593
.475	.20440	.21100	.99957
.480	.20740	.21000	.98044
.485	.19760	.19800	.97026
.490	.19500	.19600	.97327
.495	.19600	.20000	.98806
.500	.19420	.19600	.97728
.505	.19200	.19650	.99100
.510	.18820	.19700	1.01358
.515	.18330	.19100	1.00898
.520	.18330	.18500	.97728
.525	.18520	.18850	.98556

.530	.18420	.19200	1.00931
.535	.18180	.19050	1.01464
.540	.17830	.18900	1.02641
.545	.17540	.18850	1.04062
.550	.17250	.18800	1.05531
.555	.17200	.18550	1.04430
.560	.16950	.18300	1.04542
.565	.17050	.18400	1.04497
.570	.17120	.18500	1.04636
.575	.17190	.18650	1.05054
.580	.17150	.18800	1.06146
.585	.17120	.18550	1.04918
.590	.17000	.18300	1.04235
.595	.16820	.18100	1.04199
.600	.16660	.17900	1.04037
.605	.16470	.17850	1.04944
.610	.16350	.17800	1.05418
.620	.16020	.17200	1.03963
.630	.15700	.17000	1.04848
.640	.15440	.16700	1.04732
.650	.15110	.16100	1.03175
.660	.14860	.15600	1.01652
.670	.14560	.15800	1.05077
.680	.14270	.15700	1.06534
.690	.14020	.14900	1.02908
.700	.13690	.15000	1.06096
.710	.13440	.14300	1.03026
.720	.13140	.13900	1.02431
.730	.12900	.13700	1.02835
.740	.12600	.13200	1.01441
.750	.12350	.13000	1.01927
.800	.11070	.11600	1.01466
.850	.09880	.09660	.94674
.900	.08890	.08930	.97266
.950	.08350	.07990	.92656
1.000	.07460	.07410	.96181
1.100	.05920	.06020	.98466
1.200	.04840	.04960	.99231
1.300	.03960	.04190	1.02454
1.400	.03360	.03490	1.00577
1.500	.02870	.02960	.99867
1.600	.02440	.02530	1.00402
1.700	.02020	.02150	1.03062
1.800	.01590	.01700	1.03529
1.900	.01260	.01390	1.06821
2.000	.01030	.01190	1.11872
2.100	.00900	.00945	1.01672
2.200	.00790	.00764	.93643
2.300	.00680	.00644	.91704
2.400	.00640	.00575	.86996
2.500	.00540	.00532	.95396
2.600	.00480	.00532	1.07320
2.700	.00430	.00532	1.19799
2.800	.00390	.00532	1.32086

ATA PLOTTED FROM .3000 TO 2.5000