**Fig.1. left**

**Haribo Balla Apple Jelly 298K**

**Zone 1**

**TAU(us) Magnitudes**

73510.969 4208.400

60591.922 4116.851

49943.308 4003.183

41166.116 3830.982

33931.454 3699.165

27968.234 3506.288

23053.010 3313.852

19001.602 3070.373

15662.201 2865.502

12909.677 2617.050

10640.890 2458.459

8770.827 2253.754

7229.414 2055.910

5958.895 1917.256

4911.660 1844.968

4048.469 1706.090

3336.979 1581.441

2750.528 1535.593

2267.141 1476.081

1868.707 1349.233

1540.295 1312.399

1269.598 1282.494

1046.475 1282.602

862.564 1190.513

710.975 1211.781

586.026 1191.425

483.036 1147.359

398.146 1144.937

328.174 1149.019

270.500 1130.621

222.961 1139.048

183.777 1137.442

**Zone 2**

**TAU(us) Magnitudes**

65886.183 3665.719

54307.139 3652.859

44763.033 3611.760

36896.238 3460.504

30411.978 3353.004

25067.282 3194.214

20661.880 3042.470

17030.697 2889.451

14037.669 2643.228

11570.645 2468.072

9537.184 2264.269

7861.089 2111.621

6479.557 1953.088

5340.819 1801.256

4402.207 1627.379

3628.550 1592.234

2990.857 1547.749

2465.234 1354.881

2031.986 1357.390

1674.879 1284.558

1380.530 1244.535

1137.912 1152.812

937.932 1187.948

773.097 1097.146

637.230 1099.698

525.241 1073.879

432.934 1025.638

356.849 1049.891

294.135 1012.006

242.443 1033.228

199.835 1067.545

164.715 973.267

**Zone 3**

**TAU(us) Magnitudes**

59060.196 3233.366

48680.773 3154.265

40125.462 3115.619

33073.688 3081.319

27261.215 2996.973

22470.244 2844.266

18521.253 2645.222

15266.271 2502.867

12583.329 2340.271

10371.895 2095.920

8549.106 1999.058

7046.659 1887.991

5808.257 1778.551

4787.496 1604.505

3946.127 1506.740

3252.622 1431.349

2680.996 1318.902

2209.829 1279.861

1821.467 1175.366

1501.357 1204.448

1237.504 1069.764

1020.021 1041.613

840.759 1049.723

693.002 1121.923

571.211 998.689

470.825 990.363

388.081 951.372

319.878 966.299

263.662 918.800

217.325 931.007

179.132 870.187

147.650 912.979

**Zone 4**

**TAU(us) Magnitudes**

51270.647 2826.943

42260.183 2767.898

34833.247 2747.399

28711.543 2689.130

23665.687 2578.645

19506.606 2556.760

16078.454 2312.664

13252.776 2256.568

10923.692 2148.195

9003.928 1966.118

7421.550 1842.565

6117.263 1677.914

5042.197 1638.495

4156.065 1562.398

3425.665 1372.004

2823.628 1358.931

2327.395 1296.776

1918.371 1224.049

1581.231 1193.436

1303.340 1133.182

1074.287 1070.089

885.489 1105.847

729.870 1020.180

601.600 1013.020

495.873 990.246

408.727 969.215

336.896 946.098

277.689 938.425

228.887 978.934

188.662 970.055

155.506 920.158

128.177 969.537

**Zone 5**

**TAU(us) Magnitudes**

43699.356 2435.655

36019.495 2447.748

29689.316 2466.310

24471.623 2381.873

20170.904 2340.004

16626.006 2241.759

13704.100 2092.658

11295.699 1980.186

9310.557 1931.164

7674.291 1782.081

6325.587 1694.321

5213.909 1593.495

4297.600 1515.955

3542.326 1372.989

2919.787 1340.867

2406.655 1273.219

1983.702 1190.560

1635.080 1137.664

1347.726 1150.224

1110.872 1080.642

915.644 1038.920

754.726 1078.436

622.088 985.912

512.760 1053.273

422.646 983.460

348.369 915.520

287.146 970.507

236.682 919.731

195.087 883.775

160.801 922.760

132.542 967.652

109.248 947.183

**Zone 6**

**TAU(us) Magnitudes**

40441.415 2187.369

33334.115 2200.750

27475.874 2168.236

22647.178 2101.343

18667.092 2023.486

15386.479 1979.963

12682.411 1867.611

10453.565 1821.704

8616.423 1693.708

7102.146 1617.034

5853.992 1556.934

4825.194 1450.935

3977.199 1357.828

3278.234 1266.438

2702.107 1233.971

2227.230 1232.422

1835.810 1177.787

1513.179 1102.666

1247.248 1050.505

1028.053 1071.490

847.380 1080.051

698.458 1013.046

575.709 1014.190

474.532 981.754

391.136 964.420

322.397 977.297

265.738 953.675

219.036 933.228

180.542 997.303

148.813 973.201

122.660 904.340

101.104 913.452

**Zone 7**

**TAU(us) Magnitudes**

76.659 3466.921

93.004 3485.875

112.834 3456.376

136.892 3445.458

166.079 3428.019

201.490 3426.976

244.450 3407.610

296.570 3337.577

359.803 3406.292

436.518 3338.295

529.590 3356.188

642.506 3335.077

779.497 3303.587

945.697 3195.060

1147.333 3222.119

1391.960 3234.958

1688.745 3100.423

2048.810 3010.033

2485.645 2987.117

3015.619 2932.069

3658.591 2791.575

4438.654 2725.082

5385.037 2609.451

6533.203 2525.129

7926.173 2432.775

9616.144 2346.442

11666.441 2253.829

14153.890 2208.756

17171.697 2154.444

20832.944 2093.159

25274.819 2084.279

30663.765 2058.455

**Zone 8**

**TAU(us) Magnitudes**

66.982 3409.547

81.264 3360.221

98.590 3426.354

119.611 3412.058

145.114 3340.434

176.054 3329.739

213.591 3347.077

259.132 3361.685

314.383 3245.408

381.413 3278.544

462.736 3263.630

561.398 3320.478

681.096 3230.991

826.315 3171.638

1002.497 3141.500

1216.243 3134.228

1475.564 3082.455

1790.174 3019.950

2171.865 2901.049

2634.937 2832.045

3196.742 2731.396

3878.332 2614.483

4705.247 2596.145

5708.472 2465.067

6925.598 2313.707

8402.232 2193.259

10193.706 2158.448

12367.147 2061.379

15003.996 1993.426

18203.058 1952.476

22084.205 1883.899

26792.867 1850.181

**Zone 9**

**TAU(us) Magnitudes**

60.453 3362.065

73.343 3419.551

88.980 3332.262

107.952 3327.523

130.969 3288.802

158.894 3254.820

192.772 3262.853

233.873 3311.217

283.739 3260.556

344.236 3230.477

417.631 3213.627

506.676 3217.637

614.707 3205.175

745.771 3133.691

904.780 3135.667

1097.692 3005.217

1331.735 2935.777

1615.679 2945.875

1960.165 2839.301

2378.099 2754.342

2885.144 2737.145

3500.297 2563.388

4246.609 2473.132

5152.045 2395.862

6250.534 2216.716

7583.235 2105.665

9200.087 2051.806

11161.675 1950.068

13541.500 1867.373

16428.738 1789.309

19931.575 1774.270

24181.266 1718.963

**Zone 10**

**TAU(us) Magnitudes**

52.977 3278.986

64.273 3340.280

77.976 3316.862

94.602 3312.497

114.773 3263.274

139.244 3263.690

168.932 3234.319

204.951 3227.094

248.650 3194.803

301.665 3199.470

365.984 3167.869

444.017 3130.653

538.688 3093.689

653.544 3040.036

792.889 3046.479

961.944 2971.430

1167.044 2925.107

1415.874 2848.956

1717.758 2747.322

2084.008 2709.054

2528.347 2574.136

3067.427 2428.906

3721.445 2363.355

4514.909 2272.942

5477.551 2145.452

6645.442 2040.677

8062.343 1925.590

9781.347 1819.804

11866.868 1698.190

14397.050 1629.467

17466.703 1627.696

21190.849 1629.492

**Zone 11**

**TAU(us) Magnitudes**

45.035 3204.561

54.637 3280.066

66.286 3269.146

80.419 3225.476

97.566 3233.047

118.368 3195.008

143.606 3214.825

174.225 3221.730

211.372 3115.762

256.440 3149.982

311.116 3111.674

377.451 3074.768

457.928 3052.969

555.565 3031.636

674.019 2944.445

817.730 2889.652

992.081 2856.639

1203.607 2815.359

1460.232 2680.963

1771.575 2599.202

2149.299 2531.829

2607.560 2386.100

3163.528 2301.760

3838.037 2143.683

4656.360 2068.219

5649.161 1939.256

6853.641 1809.153

8314.934 1725.187

10087.794 1680.286

12238.653 1580.077

14848.105 1545.403

18013.929 1530.167

**Zone 12**

**TAU(us) Magnitudes**

38.343 3235.931

46.518 3202.579

56.436 3180.145

68.469 3149.597

83.067 3201.072

100.779 3206.155

122.266 3129.781

148.335 3098.137

179.962 3136.410

218.332 3140.262

264.884 3116.255

321.361 3040.821

389.880 2999.454

473.007 2988.223

573.859 2922.483

696.214 2865.907

844.656 2810.523

1024.749 2746.280

1243.240 2600.860

1508.316 2533.279

1829.910 2447.002

2220.073 2349.286

2693.423 2219.767

3267.699 2137.831

3964.418 1960.096

4809.688 1856.631

5835.180 1728.449

7079.323 1665.999

8588.734 1529.915

10419.972 1531.596

12641.656 1427.367

15337.034 1464.619

**Zone 13**

**TAU(us) Magnitudes**

33.697 3182.692

40.881 3154.745

49.598 3111.374

60.173 3162.909

73.002 3099.943

88.568 3117.585

107.451 3109.327

130.362 3098.677

158.156 3130.485

191.878 3028.523

232.789 3016.521

282.422 2992.288

342.639 2934.794

415.694 2919.338

504.326 2906.101

611.855 2834.405

742.312 2772.290

900.583 2665.758

1092.600 2597.326

1325.557 2564.163

1608.185 2382.325

1951.072 2247.459

2367.068 2180.908

2871.760 2051.216

3484.060 1952.492

4226.910 1808.525

5128.147 1644.408

6221.539 1552.460

7548.059 1510.055

9157.411 1437.413

11109.899 1357.608

13478.685 1392.988

**Zone 14**

**TAU(us) Magnitudes**

30.512 3062.079

37.018 3054.436

44.911 3120.237

54.487 3086.484

66.104 3099.547

80.198 3037.538

97.297 3078.409

118.043 2989.479

143.211 3027.602

173.746 2986.806

210.791 2997.184

255.734 2907.030

310.260 2963.841

376.412 2899.264

456.668 2859.600

554.037 2720.279

672.165 2676.151

815.480 2672.934

989.352 2529.629

1200.295 2447.650

1456.215 2342.833

1766.700 2364.244

2143.386 2083.914

2600.386 2017.809

3154.824 1863.540

3827.477 1787.690

4643.549 1695.799

5633.618 1539.929

6834.785 1455.483

8292.057 1405.741

10060.039 1353.386

12204.981 1322.716

**Zone 15**

**TAU(us) Magnitudes**

26.037 3025.176

31.589 3118.765

38.324 3049.070

46.495 3033.759

56.408 3025.536

68.436 3050.806

83.027 3004.218

100.729 2974.092

122.206 3020.148

148.262 2980.782

179.874 2888.768

218.226 2881.598

264.755 2916.323

321.204 2873.834

389.689 2757.799

472.776 2720.537

573.579 2673.207

695.874 2586.874

844.244 2510.706

1024.249 2385.707

1242.633 2249.766

1507.580 2193.970

1829.017 2064.407

2218.989 1899.730

2692.109 1848.723

3266.104 1699.743

3962.483 1588.065

4807.340 1502.384

5832.332 1413.168

7075.867 1353.358

8584.541 1284.646

10414.885 1248.559

**Zone 16**

**TAU(us) Magnitudes**

23.466 2996.199

28.469 2994.843

34.539 3056.811

41.904 2983.113

50.838 2980.663

61.677 3025.304

74.828 2987.782

90.782 2994.730

110.138 2922.614

133.621 2964.281

162.111 2873.408

196.675 2845.498

238.609 2821.378

289.484 2808.190

351.206 2739.979

426.088 2664.223

516.936 2618.114

627.154 2568.214

760.872 2505.421

923.101 2376.311

1119.919 2300.776

1358.701 2116.204

1648.396 2030.237

1999.857 1988.719

2426.254 1845.208

2943.566 1664.294

3571.175 1595.644

4332.600 1540.544

5256.371 1395.295

6377.103 1347.091

7736.790 1274.074

9386.382 1204.494

**Zone 17**

**TAU(us) Magnitudes**

18.947 2993.932

22.987 3060.027

27.888 2955.783

33.834 2970.899

41.048 2945.475

49.800 2939.794

60.419 2914.933

73.301 2902.481

88.929 2888.923

107.890 2866.909

130.894 2840.416

158.802 2847.752

192.661 2782.838

233.739 2733.434

283.576 2689.211

344.038 2615.291

417.392 2560.109

506.386 2462.744

614.354 2467.329

745.343 2341.358

904.261 2174.526

1097.062 2112.075

1330.971 2016.037

1614.753 1820.878

1959.041 1759.078

2376.736 1623.649

2883.490 1563.357

3498.290 1444.849

4244.174 1373.075

5149.092 1285.852

6246.950 1252.351

7578.888 1272.696

**Zone 18**

**TAU(us) Magnitudes**

17.926 2949.025

21.748 2988.062

26.385 2934.855

32.011 2917.661

38.836 2918.966

47.116 2889.937

57.162 2884.874

69.349 2884.277

84.136 2938.904

102.075 2860.073

123.838 2798.161

150.242 2786.180

182.276 2818.537

221.140 2696.284

268.290 2710.668

325.493 2663.347

394.893 2616.051

479.090 2526.124

581.239 2399.126

705.167 2371.388

855.518 2187.171

1037.927 2206.232

1259.227 2002.477

1527.712 1926.088

1853.442 1754.592

2248.622 1648.072

2728.060 1551.073

3309.720 1476.207

4015.399 1335.844

4871.538 1316.390

5910.218 1191.288

7170.360 1198.616

**Zone 19**

**TAU(us) Magnitudes**

15.114 2944.137

18.336 2934.811

22.246 2923.853

26.989 2916.423

32.743 2894.503

39.725 2939.140

48.195 2897.625

58.470 2881.576

70.937 2845.219

86.062 2810.137

104.412 2769.762

126.674 2745.147

153.682 2730.527

186.449 2715.561

226.203 2619.055

274.433 2548.851

332.946 2474.905

403.934 2465.299

490.059 2378.808

594.546 2234.897

721.312 2159.451

875.106 2039.545

1061.690 1960.545

1288.058 1827.215

1562.690 1726.569

1895.877 1638.763

2300.104 1461.525

2790.519 1382.312

3385.497 1317.956

4107.332 1259.569

4983.073 1174.560

6045.534 1148.716

**Zone 20**

**TAU(us) Magnitudes**

14.592 2899.791

17.703 2922.660

21.478 2855.613

26.057 2868.502

31.613 2855.292

38.354 2858.233

46.531 2827.383

56.452 2874.632

68.489 2802.781

83.091 2797.674

100.808 2772.845

122.301 2764.808

148.377 2695.467

180.014 2678.557

218.395 2600.234

264.960 2569.363

321.453 2510.672

389.991 2553.664

473.143 2370.868

574.024 2281.281

696.414 2198.355

844.899 2069.632

1025.043 1986.796

1243.597 1873.822

1508.749 1768.883

1830.436 1642.598

2220.710 1509.329

2694.197 1463.224

3268.637 1320.556

3965.557 1235.478

4811.069 1169.428

5836.856 1161.896

**Zone 21**

**TAU(us) Magnitudes**

12.499 2850.727

15.164 2854.336

18.398 2835.935

22.320 2829.767

27.079 2861.274

32.853 2810.411

39.858 2794.188

48.356 2814.444

58.666 2780.848

71.174 2774.463

86.350 2755.790

104.761 2705.534

127.097 2704.078

154.196 2636.993

187.073 2612.165

226.959 2555.347

275.350 2461.297

334.059 2390.480

405.285 2307.734

491.697 2231.868

596.534 2141.329

723.723 2001.675

878.031 1910.360

1065.240 1755.899

1292.364 1703.573

1567.914 1631.996

1902.215 1450.426

2307.794 1424.708

2799.848 1260.759

3396.815 1245.346

4121.063 1169.630

4999.732 1162.948

**Zone 22**

**TAU(us) Magnitudes**

10.681 2829.030

12.958 2813.480

15.721 2866.492

19.073 2875.197

23.139 2810.161

28.073 2785.830

34.058 2817.170

41.320 2753.951

50.130 2758.752

60.818 2747.226

73.785 2660.342

89.517 2678.691

108.604 2660.676

131.760 2620.869

159.853 2577.034

193.936 2537.036

235.285 2453.089

285.451 2390.774

346.314 2309.112

420.153 2205.284

509.735 2136.119

618.418 1988.077

750.273 1883.224

910.242 1778.303

1104.318 1673.759

1339.774 1561.072

1625.433 1460.217

1971.998 1350.965

2392.456 1344.359

2902.561 1203.472

3521.427 1174.702

4272.245 1132.778

**Zone 23**

**TAU(us) Magnitudes**

9.772 2866.800

11.856 2827.159

14.383 2825.703

17.450 2821.541

21.171 2740.392

25.684 2818.793

31.161 2761.934

37.805 2789.133

45.865 2735.301

55.644 2758.282

67.508 2719.525

81.902 2646.197

99.365 2672.274

120.551 2586.946

146.254 2530.696

177.437 2555.901

215.269 2531.056

261.168 2390.803

316.853 2308.410

384.410 2219.242

466.371 2139.033

565.808 2033.093

686.447 1926.929

832.807 1787.065

1010.373 1657.366

1225.799 1609.265

1487.156 1510.802

1804.238 1374.538

2188.927 1287.691

2655.637 1241.508

3221.856 1169.808

3908.801 1118.641

**Zone 24**

**TAU(us) Magnitudes**

8.888 2833.861

10.783 2800.195

13.082 2793.402

15.871 2752.587

19.255 2745.565

23.360 2770.544

28.341 2726.449

34.384 2745.366

41.715 2723.611

50.609 2698.877

61.400 2682.830

74.491 2700.312

90.374 2603.561

109.642 2583.378

133.020 2554.716

161.381 2549.311

195.790 2480.886

237.536 2396.860

288.181 2272.121

349.626 2251.175

424.171 2109.072

514.610 2009.781

624.332 1881.769

757.448 1774.468

918.947 1611.836

1114.879 1560.822

1352.587 1517.291

1640.978 1430.897

1990.857 1277.610

2415.336 1212.180

2930.320 1175.822

3555.105 1115.750

**Zone 25**

**TAU(us) Magnitudes**

7.781 2823.721

9.440 2846.430

11.453 2759.520

13.895 2748.604

16.857 2720.751

20.451 2751.266

24.812 2707.635

30.102 2704.656

36.520 2682.655

44.307 2720.453

53.754 2675.070

65.215 2648.391

79.120 2592.472

95.989 2584.189

116.455 2576.460

141.285 2524.001

171.409 2461.048

207.956 2355.402

252.295 2274.048

306.088 2219.439

371.350 2077.996

450.527 1965.938

546.586 1872.475

663.125 1766.701

804.513 1652.198

976.046 1581.707

1184.153 1459.736

1436.631 1384.777

1742.941 1322.570

2114.561 1186.716

2565.415 1219.829

3112.397 1125.797

**Zone 26**

**TAU(us) Magnitudes**

7.055 2805.013

8.559 2791.699

10.384 2734.072

12.598 2707.549

15.284 2746.999

18.542 2712.484

22.496 2746.808

27.292 2748.318

33.111 2718.267

40.171 2678.602

48.736 2623.900

59.127 2715.924

71.734 2630.065

87.029 2570.688

105.585 2544.618

128.097 2492.489

155.409 2384.807

188.544 2369.930

228.745 2219.451

277.516 2171.763

336.687 2097.930

408.473 2046.061

495.565 1904.085

601.227 1752.618

729.417 1691.004

884.938 1600.499

1073.620 1460.283

1302.531 1348.675

1580.248 1334.992

1917.179 1226.286

2325.949 1186.206

2821.874 1113.275

**Zone 27**

**TAU(us) Magnitudes**

7.099 2736.146

8.612 2755.796

10.449 2748.777

12.677 2783.448

15.379 2713.101

18.658 2763.479

22.637 2720.133

27.463 2669.917

33.319 2704.995

40.423 2672.125

49.041 2589.272

59.498 2555.307

72.184 2639.740

87.574 2552.225

106.246 2482.134

128.899 2476.283

156.382 2380.019

189.725 2361.189

230.177 2316.695

279.255 2202.947

338.796 2129.795

411.032 1994.682

498.669 1888.610

604.992 1832.992

733.985 1676.197

890.481 1572.208

1080.344 1465.573

1310.689 1365.371

1590.146 1243.495

1929.188 1194.325

2340.517 1138.559

2839.549 1078.174

**Zone 28**

**TAU(us) Magnitudes**

5.854 2760.221

7.102 2686.500

8.616 2749.444

10.453 2753.621

12.682 2743.989

15.386 2737.731

18.667 2685.366

22.647 2628.934

27.475 2697.073

33.333 2655.691

40.440 2640.732

49.063 2656.716

59.524 2601.567

72.215 2534.303

87.612 2449.772

106.292 2446.751

128.955 2362.580

156.450 2343.893

189.807 2169.550

230.277 2159.948

279.375 2056.517

338.942 1913.449

411.209 1816.994

498.885 1725.779

605.254 1598.116

734.303 1528.909

890.866 1366.810

1080.811 1302.965

1311.255 1250.294

1590.833 1204.402

1930.021 1187.532

2341.529 1088.106

**Zone 29**

**TAU(us) Magnitudes**

5.365 2696.189

6.509 2720.186

7.896 2707.373

9.580 2716.459

11.622 2699.648

14.101 2788.921

17.107 2716.458

20.754 2638.421

25.179 2701.908

30.548 2677.847

37.061 2623.914

44.963 2614.874

54.550 2583.003

66.181 2600.563

80.292 2534.077

97.411 2524.871

118.181 2410.077

143.378 2355.899

173.949 2278.996

211.037 2195.196

256.033 2144.771

310.623 1977.669

376.852 1850.476

457.202 1723.035

554.684 1668.469

672.950 1535.937

816.433 1458.913

990.508 1392.832

1201.698 1297.797

1457.916 1284.250

1768.765 1175.391

2145.890 1110.718

**Zone 30**

**TAU(us) Magnitudes**

5.123 2729.085

6.215 2712.100

7.540 2686.459

9.147 2729.191

11.098 2694.659

13.464 2708.042

16.335 2651.537

19.818 2689.938

24.043 2693.439

29.169 2655.550

35.389 2617.252

42.934 2622.580

52.088 2615.485

63.194 2564.586

76.668 2553.595

93.014 2488.907

112.846 2387.738

136.907 2361.236

166.097 2215.406

201.511 2215.682

244.476 2120.018

296.602 1969.870

359.842 1907.131

436.565 1769.530

529.647 1715.143

642.575 1555.929

779.581 1509.364

945.798 1375.526

1147.455 1317.678

1392.109 1249.533

1688.926 1137.792

2049.029 1167.596

**Zone 31**

**TAU(us) Magnitudes**

5.178 2683.163

6.283 2706.530

7.622 2739.657

9.247 2727.395

11.219 2721.494

13.611 2730.568

16.513 2648.104

20.034 2666.417

24.305 2599.724

29.488 2628.425

35.775 2618.663

43.402 2622.505

52.656 2562.335

63.883 2516.207

77.504 2503.807

94.029 2457.545

114.077 2438.671

138.400 2438.157

167.909 2258.578

203.710 2252.420

247.144 2114.464

299.838 1988.560

363.768 1879.825

441.328 1774.330

535.426 1700.458

649.586 1561.878

788.087 1457.598

956.118 1357.059

1159.976 1298.318

1407.299 1195.297

1707.355 1148.709

2071.387 1128.986

**Zone 32**

**TAU(us) Magnitudes**

4.608 2757.014

5.591 2697.794

6.783 2704.357

8.229 2699.123

9.983 2679.682

12.112 2697.377

14.694 2706.940

17.827 2642.202

21.628 2648.831

26.240 2659.990

31.834 2658.203

38.622 2535.711

46.856 2555.328

56.847 2541.086

68.967 2533.230

83.672 2406.077

101.512 2396.345

123.156 2361.620

149.415 2266.437

181.272 2177.751

219.922 2068.025

266.812 1930.056

323.700 1832.572

392.718 1681.556

476.450 1610.831

578.036 1533.332

701.282 1387.239

850.805 1342.454

1032.208 1267.283

1252.290 1170.317

1519.295 1106.657

1843.230 1145.070

**Zone 33**

**TAU(us) Magnitudes**

4.508 2700.253

5.469 2721.715

6.635 2690.151

8.049 2676.483

9.765 2691.422

11.848 2631.100

14.374 2666.843

17.438 2655.332

21.156 2609.293

25.667 2613.830

31.140 2645.842

37.779 2565.982

45.834 2607.516

55.607 2546.442

67.463 2574.298

81.847 2466.812

99.298 2435.483

120.470 2381.076

146.156 2303.387

177.318 2178.960

215.125 2061.469

260.993 1977.062

316.640 1918.514

384.152 1740.260

466.059 1638.484

565.429 1578.210

685.987 1472.445

832.249 1407.393

1009.696 1252.468

1224.977 1214.032

1486.160 1147.357

1803.030 1165.870

**Zone 34**

**TAU(us) Magnitudes**

4.505 2662.666

5.466 2685.768

6.631 2668.569

8.045 2719.902

9.760 2675.853

11.842 2705.487

14.366 2628.472

17.429 2697.990

21.146 2621.742

25.654 2634.789

31.124 2599.493

37.760 2543.038

45.811 2597.377

55.578 2567.157

67.429 2569.303

81.805 2453.747

99.247 2420.751

120.408 2336.925

146.081 2266.582

177.228 2185.197

215.015 2103.615

260.859 2001.379

316.478 1872.006

383.956 1722.429

465.820 1682.247

565.140 1525.340

685.635 1432.314

831.822 1318.294

1009.179 1242.158

1224.350 1183.850

1485.398 1120.640

1802.106 1117.777

**Zone 35**

**TAU(us) Magnitudes**

4.315 2683.716

5.235 2659.137

6.351 2688.069

7.705 2643.344

9.348 2665.094

11.341 2698.352

13.759 2670.461

16.693 2660.817

20.252 2684.187

24.570 2641.126

29.809 2673.956

36.165 2578.188

43.876 2564.961

53.231 2510.219

64.580 2468.669

78.349 2438.444

95.055 2409.241

115.322 2397.965

139.910 2251.678

169.740 2162.410

205.931 2092.552

249.839 1956.652

303.108 1836.300

367.735 1755.282

446.141 1636.570

541.265 1525.099

656.670 1356.428

796.681 1321.295

966.545 1206.629

1172.626 1189.760

1422.646 1133.249

1725.974 1106.709

**Zone 36**

**TAU(us) Magnitudes**

4.169 2700.177

5.058 2657.690

6.137 2633.001

7.445 2705.350

9.033 2667.291

10.959 2651.355

13.295 2680.480

16.130 2652.477

19.569 2665.195

23.742 2693.020

28.804 2613.433

34.945 2528.851

42.396 2605.039

51.436 2502.000

62.403 2472.024

75.708 2481.383

91.850 2426.836

111.433 2384.270

135.192 2282.256

164.017 2182.312

198.988 2039.583

241.415 1920.594

292.888 1857.662

355.336 1722.592

431.099 1552.628

523.015 1497.711

634.530 1367.417

769.820 1349.057

933.957 1229.486

1133.089 1141.469

1374.680 1107.575

1667.781 1051.921

**Zone 37**

**TAU(us) Magnitudes**

4.098 2674.297

4.971 2718.474

6.031 2673.824

7.317 2664.807

8.877 2651.037

10.770 2605.921

13.067 2635.206

15.853 2695.066

19.233 2676.686

23.333 2580.663

28.308 2558.129

34.344 2589.631

41.667 2514.290

50.551 2542.765

61.329 2509.701

74.405 2497.212

90.269 2444.178

109.516 2296.309

132.866 2260.616

161.195 2186.251

195.564 2098.517

237.261 2011.067

287.848 1899.025

349.221 1778.159

423.680 1609.737

514.014 1549.125

623.609 1477.367

756.571 1296.298

917.883 1293.366

1113.589 1215.769

1351.021 1154.456

1639.078 1161.575

**Zone 38**

**TAU(us) Magnitudes**

4.211 2660.763

5.109 2645.036

6.199 2687.510

7.520 2656.727

9.124 2600.874

11.069 2622.900

13.429 2641.108

16.292 2673.969

19.766 2600.972

23.980 2609.807

29.093 2603.415

35.296 2587.475

42.822 2556.106

51.952 2511.146

63.029 2483.201

76.467 2506.895

92.771 2406.862

112.551 2367.729

136.549 2286.808

165.663 2234.786

200.985 2068.497

243.837 1994.312

295.827 1837.197

358.901 1740.104

435.424 1657.395

528.263 1561.792

640.896 1403.615

777.544 1317.598

943.327 1239.507

1144.458 1190.679

1388.472 1145.300

1684.514 1109.639

**Zone 39**

**TAU(us) Magnitudes**

3.681 2667.064

4.466 2683.144

5.418 2665.678

6.573 2667.133

7.975 2643.023

9.675 2696.344

11.738 2648.868

14.241 2643.461

17.277 2645.901

20.961 2628.771

25.430 2580.027

30.852 2575.040

37.430 2522.136

45.411 2544.714

55.093 2455.674

66.840 2434.737

81.091 2361.768

98.380 2310.330

119.357 2222.333

144.805 2121.771

175.680 2029.578

213.137 1949.140

258.581 1758.255

313.714 1703.227

380.602 1516.865

461.751 1461.300

560.203 1361.476

679.646 1314.109

824.557 1243.252

1000.364 1144.258

1213.655 1076.489

1472.423 1114.787

**Zone 40**

**TAU(us) Magnitudes**

3.804 2646.652

4.615 2633.692

5.599 2663.451

6.793 2656.176

8.242 2668.522

9.999 2629.793

12.131 2635.262

14.717 2642.934

17.855 2669.530

21.662 2637.525

26.280 2580.555

31.884 2574.440

38.682 2607.106

46.929 2547.087

56.935 2443.376

69.075 2485.043

83.802 2490.948

101.670 2349.586

123.347 2293.153

149.647 2165.049

181.554 2085.159

220.263 1997.782

267.227 1843.182

324.203 1770.465

393.328 1636.049

477.191 1524.876

578.935 1474.645

702.372 1323.577

852.127 1294.956

1033.813 1166.793

1254.236 1145.822

1521.657 1089.230