**Fig.1. left**

**Haribo Balla Raspberry Jelly 298K**

**Zone 1**

**TAU(us) Magnitudes**

76826.270 3441.890

63324.582 3385.561

52195.722 3337.917

43022.683 3219.504

35461.743 3140.537

29229.585 2950.080

24092.687 2703.302

19858.563 2567.256

16368.557 2395.572

13491.896 2161.580

11120.788 2013.061

9166.386 1821.000

7555.457 1762.944

6227.637 1611.540

5133.173 1490.594

4231.053 1398.456

3487.475 1321.721

2874.575 1228.432

2369.388 1186.907

1952.984 1070.249

1609.761 1074.907

1326.856 994.959

1093.671 1015.074

901.466 976.381

743.039 1043.822

612.455 965.327

504.820 947.374

416.102 916.325

342.975 961.086

282.699 876.637

233.017 891.712

192.066 912.477

**Zone 2**

**TAU(us) Magnitudes**

67254.038 3071.276

55434.604 3048.764

45692.353 2914.056

37662.237 2859.848

31043.358 2766.706

25587.701 2639.656

21090.839 2518.193

17384.269 2388.617

14329.103 2172.137

11810.862 2008.711

9735.184 1864.222

8024.293 1724.438

6614.078 1631.926

5451.700 1527.838

4493.601 1391.768

3703.881 1343.974

3052.950 1199.732

2516.415 1199.386

2074.172 1117.928

1709.651 1035.563

1409.191 971.900

1161.536 913.617

957.404 911.814

789.147 924.008

650.460 893.920

536.146 856.266

441.922 836.920

364.257 812.931

300.241 845.759

247.476 791.983

203.984 766.764

168.135 819.608

**Zone 3**

**TAU(us) Magnitudes**

59343.554 2646.113

48914.333 2654.201

40317.975 2545.410

33232.368 2553.915

27392.008 2443.079

22578.051 2268.124

18610.114 2171.250

15339.515 2073.086

12643.700 1959.367

10421.657 1780.123

8590.123 1703.484

7080.468 1567.264

5836.124 1433.873

4810.465 1310.123

3965.059 1177.955

3268.227 1175.704

2693.859 1061.881

2220.432 1067.124

1830.206 981.983

1508.560 919.012

1243.441 941.752

1024.915 887.441

844.793 888.286

696.326 799.744

573.952 827.145

473.084 798.475

389.943 819.829

321.413 771.720

264.927 756.290

218.368 744.373

179.991 762.796

148.359 706.589

**Zone 4**

**TAU(us) Magnitudes**

53481.435 2321.067

44082.441 2323.057

36335.255 2301.981

29949.584 2215.564

24686.151 2122.326

20347.730 1991.438

16771.756 2002.381

13824.235 1837.404

11394.721 1699.002

9392.177 1657.949

7741.567 1544.814

6381.040 1433.861

5259.616 1282.159

4335.275 1125.412

3573.380 1145.058

2945.383 1118.169

2427.752 1085.521

2001.091 964.219

1649.413 966.367

1359.540 946.216

1120.610 853.033

923.671 831.717

761.342 862.484

627.541 816.283

517.255 785.653

426.351 794.237

351.423 835.088

289.663 804.629

238.757 786.430

196.797 750.644

162.211 753.583

133.704 734.626

**Zone 5**

**TAU(us) Magnitudes**

46741.752 2093.948

38527.211 2012.699

31756.319 2047.098

26175.364 1965.801

21575.224 1838.653

17783.527 1828.312

14658.194 1769.066

12082.117 1657.056

9958.768 1587.091

8208.583 1447.228

6765.981 1447.362

5576.907 1322.099

4596.804 1215.526

3788.947 1178.045

3123.066 1076.853

2574.208 1079.814

2121.809 961.006

1748.916 940.933

1441.556 936.535

1188.212 864.356

979.392 888.343

807.271 834.757

665.398 850.610

548.459 841.451

452.071 830.761

372.623 788.546

307.137 780.951

253.160 791.985

208.669 791.621

171.997 794.091

141.769 708.916

116.854 750.654

**Zone 6**

**TAU(us) Magnitudes**

36985.670 1816.412

30485.693 1810.032

25128.042 1767.311

20711.962 1748.499

17071.977 1734.922

14071.695 1695.282

11598.691 1635.968

9560.301 1549.948

7880.144 1551.661

6495.263 1348.080

5353.765 1281.517

4412.878 1239.997

3637.345 1128.223

2998.106 1073.464

2471.210 1078.738

2036.912 999.525

1678.939 998.933

1383.877 949.855

1140.670 863.353

940.205 910.860

774.970 892.905

638.775 824.184

526.514 819.485

433.983 792.002

357.714 842.863

294.848 828.623

243.030 784.488

200.319 807.305

165.115 751.514

136.097 758.375

112.179 833.491

92.464 748.393

**Zone 7**

**TAU(us) Magnitudes**

73.223 2910.831

88.835 2945.106

107.776 2923.713

130.756 2905.919

158.635 2881.968

192.458 2898.972

233.492 2873.402

283.276 2832.542

343.675 2850.360

416.951 2796.805

505.851 2853.565

613.705 2776.096

744.556 2727.462

903.305 2737.074

1095.903 2703.797

1329.565 2661.834

1613.046 2612.285

1956.970 2591.295

2374.224 2544.476

2880.442 2423.048

3494.592 2386.003

4239.688 2272.566

5143.649 2241.570

6240.348 2147.516

7570.877 2069.438

9185.094 2002.001

11143.485 1886.874

13519.432 1837.384

16401.965 1810.930

19899.094 1764.779

24141.860 1764.685

29289.242 1712.487

**Zone 8**

**TAU(us) Magnitudes**

61.917 2858.547

75.118 2865.070

91.135 2873.703

110.566 2836.802

134.140 2865.333

162.741 2794.853

197.439 2844.665

239.536 2789.966

290.608 2789.389

352.570 2721.601

427.743 2746.157

518.944 2724.022

629.590 2735.032

763.827 2706.986

926.686 2633.736

1124.268 2615.368

1363.978 2541.594

1654.797 2532.095

2007.623 2469.879

2435.676 2364.256

2954.996 2384.210

3585.043 2225.767

4349.424 2141.031

5276.783 2086.315

6401.866 1951.028

7766.834 1863.580

9422.832 1805.923

11431.912 1757.962

13869.356 1693.531

16826.497 1667.561

20414.142 1591.511

24766.723 1618.231

**Zone 9**

**TAU(us) Magnitudes**

58.293 2800.565

70.722 2853.774

85.801 2819.517

104.095 2788.841

126.290 2805.122

153.217 2762.957

185.885 2783.497

225.518 2769.356

273.601 2758.493

331.937 2716.901

402.711 2687.445

488.574 2693.854

592.745 2716.673

719.127 2642.588

872.455 2595.911

1058.474 2574.504

1284.156 2569.039

1557.955 2509.142

1890.133 2391.857

2293.136 2356.163

2782.065 2226.833

3375.240 2228.709

4094.889 2101.676

4967.977 1967.423

6027.219 1916.807

7312.307 1825.798

8871.393 1725.757

10762.898 1587.868

13057.699 1569.847

15841.784 1509.550

19219.474 1490.636

23317.335 1457.210

**Zone 10**

**TAU(us) Magnitudes**

45.205 2789.626

54.843 2822.623

66.536 2756.393

80.723 2702.788

97.934 2732.494

118.815 2739.500

144.148 2732.181

174.883 2725.451

212.170 2639.099

257.408 2684.223

312.290 2662.068

378.875 2623.719

459.657 2603.807

557.662 2576.562

676.563 2523.711

820.816 2511.754

995.826 2435.864

1208.150 2351.920

1465.744 2303.173

1778.261 2176.055

2157.411 2148.554

2617.402 2077.696

3175.468 1996.071

3852.523 1802.821

4673.934 1735.782

5670.483 1620.834

6879.509 1568.375

8346.317 1526.451

10125.869 1449.324

12284.846 1445.640

14904.147 1396.565

18081.920 1351.676

**Zone 11**

**TAU(us) Magnitudes**

39.374 2720.294

47.769 2695.304

57.954 2736.049

70.311 2738.788

85.302 2693.851

103.489 2666.408

125.555 2679.218

152.325 2679.568

184.802 2661.749

224.205 2608.961

272.009 2615.463

330.005 2594.156

400.366 2538.856

485.730 2517.337

589.294 2509.268

714.940 2410.215

867.375 2459.757

1052.312 2351.664

1276.680 2311.079

1548.886 2237.651

1879.130 2106.099

2279.787 2037.310

2765.869 1935.297

3355.591 1855.186

4071.051 1724.344

4939.056 1695.876

5992.131 1591.356

7269.738 1514.126

8819.748 1456.475

10700.242 1407.800

12981.683 1337.494

15749.560 1311.667

**Zone 12**

**TAU(us) Magnitudes**

34.938 2667.239

42.388 2699.603

51.426 2642.363

62.390 2664.808

75.693 2693.441

91.831 2639.424

111.411 2695.453

135.166 2615.767

163.985 2643.151

198.949 2615.504

241.367 2577.700

292.830 2574.244

355.265 2506.866

431.013 2514.433

522.911 2391.631

634.403 2368.306

769.667 2385.590

933.770 2305.721

1132.863 2223.495

1374.406 2177.578

1667.448 2125.190

2022.972 2025.910

2454.297 1886.897

2977.588 1776.034

3612.452 1635.604

4382.677 1597.818

5317.125 1500.891

6450.811 1377.175

7826.214 1318.324

9494.872 1276.508

11519.312 1246.236

13975.391 1253.912

**Zone 13**

**TAU(us) Magnitudes**

30.918 2658.590

37.511 2593.288

45.508 2628.540

55.212 2637.612

66.983 2626.767

81.265 2600.703

98.592 2626.698

119.613 2610.393

145.117 2544.728

176.057 2512.079

213.595 2522.253

259.137 2505.334

314.389 2427.199

381.421 2467.567

462.745 2382.254

561.408 2337.766

681.109 2267.795

826.330 2205.762

1002.516 2205.035

1216.266 2107.680

1475.591 2019.232

1790.208 1907.685

2171.905 1880.951

2634.986 1715.402

3196.802 1630.319

3878.405 1489.351

4705.335 1441.092

5708.578 1360.059

6925.727 1279.228

8402.389 1174.320

10193.897 1187.123

12367.378 1166.907

**Zone 14**

**TAU(us) Magnitudes**

25.409 2631.571

30.827 2558.325

37.400 2577.579

45.374 2554.241

55.048 2614.276

66.785 2507.033

81.024 2513.063

98.300 2564.648

119.259 2482.768

144.686 2482.522

175.536 2444.812

212.962 2434.847

258.369 2463.737

313.457 2418.820

380.290 2297.753

461.373 2323.444

559.744 2260.462

679.090 2148.047

823.881 2128.066

999.544 2064.330

1212.661 1909.509

1471.217 1859.382

1784.901 1724.722

2165.467 1606.040

2627.175 1567.915

3187.326 1426.879

3866.908 1450.159

4691.387 1308.936

5691.657 1236.607

6905.198 1181.155

8377.483 1107.445

10163.679 1126.749

**Zone 15**

**TAU(us) Magnitudes**

21.631 2556.692

26.243 2522.222

31.838 2485.582

38.626 2548.093

46.862 2528.735

56.854 2553.978

68.975 2531.995

83.682 2529.749

101.524 2496.276

123.171 2482.129

149.432 2427.450

181.293 2392.105

219.948 2407.913

266.844 2311.918

323.738 2284.889

392.764 2308.812

476.507 2225.739

578.105 2095.251

701.365 2055.418

850.905 2029.180

1032.330 1960.971

1252.438 1824.756

1519.475 1705.011

1843.448 1618.543

2236.497 1617.397

2713.350 1441.992

3291.874 1351.775

3993.748 1281.858

4845.271 1210.348

5878.350 1159.075

7131.697 1104.778

8652.275 1097.980

**Zone 16**

**TAU(us) Magnitudes**

18.596 2567.595

22.561 2559.237

27.371 2482.817

33.207 2488.997

40.287 2486.213

48.877 2505.591

59.298 2495.242

71.941 2443.110

87.280 2485.528

105.889 2418.191

128.466 2391.248

155.857 2397.971

189.088 2390.611

229.404 2353.900

278.316 2276.584

337.657 2205.612

409.651 2194.236

496.994 2117.528

602.960 1998.143

731.520 1971.611

887.490 1938.545

1076.715 1828.849

1306.286 1678.688

1584.805 1634.170

1922.707 1525.715

2332.655 1458.548

2830.010 1304.726

3433.408 1291.214

4165.458 1170.331

5053.593 1150.402

6131.089 1083.907

7438.324 1040.315

**Zone 17**

**TAU(us) Magnitudes**

16.288 2542.793

19.760 2468.814

23.973 2475.707

29.085 2444.694

35.286 2390.767

42.810 2406.099

51.937 2434.520

63.011 2447.005

76.446 2411.435

92.745 2396.042

112.520 2344.977

136.511 2316.670

165.617 2349.491

200.928 2320.507

243.769 2249.528

295.744 2213.247

358.801 2106.094

435.302 2072.502

528.115 2038.046

640.717 1954.646

777.326 1876.373

943.063 1820.659

1144.138 1641.858

1388.084 1581.902

1684.043 1489.173

2043.104 1434.040

2478.722 1283.563

3007.221 1279.965

3648.402 1121.353

4426.293 1093.219

5370.041 1100.123

6515.009 1025.457

**Zone 18**

**TAU(us) Magnitudes**

14.423 2435.663

17.498 2411.494

21.229 2471.658

25.755 2436.247

31.247 2449.718

37.909 2399.431

45.992 2392.026

55.798 2391.505

67.695 2406.637

82.128 2409.426

99.639 2364.082

120.883 2314.651

146.657 2255.771

177.927 2245.225

215.863 2256.444

261.888 2222.044

317.727 2097.525

385.470 2039.444

467.658 2015.753

567.369 1910.945

688.341 1856.020

835.104 1764.646

1013.160 1686.636

1229.180 1583.845

1491.259 1461.243

1809.216 1379.850

2194.966 1258.936

2662.964 1215.939

3230.745 1152.135

3919.585 1083.572

4755.296 1052.054

5769.192 998.974

**Zone 19**

**TAU(us) Magnitudes**

13.188 2399.156

15.999 2385.210

19.411 2451.344

23.549 2368.170

28.570 2396.786

34.662 2388.172

42.052 2340.161

51.018 2327.573

61.896 2366.277

75.093 2352.443

91.104 2263.240

110.528 2306.900

134.095 2184.137

162.686 2249.568

197.372 2200.175

239.455 2134.351

290.510 2046.358

352.451 2065.192

427.598 1966.383

518.768 1910.941

629.377 1835.358

763.569 1759.367

926.373 1636.404

1123.888 1548.070

1363.517 1459.068

1654.238 1370.215

2006.945 1261.357

2434.853 1176.826

2953.998 1148.840

3583.832 1101.859

4347.955 1032.038

5275.000 951.179

**Zone 20**

**TAU(us) Magnitudes**

10.979 2360.146

13.319 2305.843

16.159 2347.294

19.605 2357.192

23.785 2355.699

28.856 2374.122

35.008 2298.807

42.472 2319.462

51.528 2324.811

62.515 2310.819

75.844 2282.821

92.015 2238.120

111.633 2177.017

135.435 2162.213

164.312 2125.023

199.345 2114.127

241.849 2090.002

293.414 2013.685

355.974 1929.725

431.873 1840.737

523.954 1791.280

635.668 1670.146

771.202 1560.420

935.633 1521.042

1135.123 1443.046

1377.147 1312.862

1670.774 1242.283

2027.006 1221.071

2459.192 1098.090

2983.527 1063.095

3619.657 1032.105

4391.418 1017.328

**Zone 21**

**TAU(us) Magnitudes**

9.530 2407.634

11.561 2361.795

14.026 2374.398

17.017 2334.041

20.645 2394.714

25.047 2356.855

30.388 2324.675

36.867 2281.870

44.727 2316.348

54.264 2248.360

65.834 2253.416

79.870 2275.887

96.900 2158.610

117.560 2114.471

142.625 2139.706

173.035 2130.523

209.929 2008.678

254.688 1977.673

308.992 1938.243

374.873 1839.881

454.801 1781.589

551.771 1712.368

669.416 1577.174

812.145 1521.926

985.306 1433.649

1195.387 1341.025

1450.260 1264.340

1759.476 1179.535

2134.621 1068.739

2589.752 1020.593

3141.924 1021.260

3811.826 974.818

**Zone 22**

**TAU(us) Magnitudes**

8.849 2280.469

10.736 2304.024

13.025 2286.890

15.802 2349.111

19.171 2294.403

23.259 2262.121

28.218 2249.941

34.234 2215.393

41.534 2298.741

50.389 2278.852

61.133 2235.876

74.167 2155.239

89.981 2198.535

109.166 2167.081

132.442 2179.917

160.680 2080.732

194.940 2061.813

236.504 1969.101

286.930 1899.985

348.107 1791.396

422.328 1774.224

512.375 1723.964

621.620 1607.270

754.158 1530.479

914.955 1435.140

1110.037 1292.894

1346.712 1218.145

1633.850 1184.763

1982.210 1120.595

2404.844 1057.445

2917.591 1005.944

3539.662 974.680

**Zone 23**

**TAU(us) Magnitudes**

7.782 2320.390

9.441 2266.120

11.454 2294.968

13.897 2288.221

16.860 2310.612

20.454 2251.398

24.816 2253.677

30.107 2297.491

36.526 2215.341

44.313 2299.554

53.762 2253.097

65.224 2154.489

79.131 2176.825

96.003 2169.199

116.472 2046.998

141.306 2085.082

171.434 2006.833

207.986 1948.102

252.332 1872.243

306.133 1796.849

371.404 1762.149

450.593 1601.327

546.666 1527.993

663.223 1502.931

804.631 1398.047

976.189 1313.230

1184.327 1261.941

1436.842 1187.768

1743.197 1114.128

2114.871 993.102

2565.791 968.113

3112.853 943.719

**Zone 24**

**TAU(us) Magnitudes**

6.914 2259.342

8.388 2271.896

10.177 2212.426

12.347 2291.951

14.979 2205.649

18.173 2203.129

22.047 2246.888

26.748 2212.712

32.451 2244.211

39.371 2215.663

47.765 2180.761

57.949 2177.493

70.305 2148.014

85.294 2134.617

103.480 2068.731

125.544 1968.477

152.312 2033.906

184.787 1915.709

224.186 1861.036

271.985 1819.803

329.976 1705.362

400.332 1683.228

485.688 1527.515

589.244 1444.354

714.879 1364.716

867.301 1328.351

1052.222 1239.805

1276.570 1163.744

1548.753 1073.769

1878.969 1029.436

2279.591 960.256

2765.632 995.268

**Zone 25**

**TAU(us) Magnitudes**

5.779 2289.963

7.011 2223.087

8.506 2254.248

10.319 2237.503

12.519 2190.415

15.189 2248.570

18.427 2223.203

22.356 2211.158

27.123 2220.438

32.905 2168.972

39.921 2175.706

48.433 2188.585

58.760 2151.306

71.288 2077.443

86.488 2032.480

104.928 2063.264

127.300 2033.481

154.442 1945.367

187.372 1853.511

227.322 1790.010

275.790 1656.661

334.593 1602.493

405.932 1568.386

492.483 1448.724

597.487 1354.812

724.880 1253.673

879.434 1222.338

1066.942 1134.299

1294.429 1098.468

1570.420 1031.373

1905.255 1004.739

2311.482 989.748

**Zone 26**

**TAU(us) Magnitudes**

5.722 2220.720

6.941 2266.607

8.421 2251.499

10.217 2190.104

12.395 2179.096

15.038 2180.116

18.245 2175.907

22.135 2194.251

26.854 2162.670

32.580 2126.453

39.526 2128.305

47.954 2120.197

58.178 2124.106

70.582 2067.605

85.632 2065.662

103.890 1998.844

126.040 1964.397

152.914 1930.532

185.517 1840.292

225.072 1809.578

273.060 1688.061

331.281 1682.160

401.914 1573.997

487.608 1497.456

591.573 1425.730

717.705 1330.839

870.730 1252.347

1056.381 1180.451

1281.617 1089.806

1554.875 1033.858

1886.396 986.090

2288.603 974.513

**Zone 27**

**TAU(us) Magnitudes**

5.030 2180.932

6.102 2217.092

7.404 2236.269

8.982 2164.333

10.897 2219.907

13.221 2221.451

16.040 2186.538

19.459 2171.117

23.609 2161.666

28.642 2148.681

34.749 2173.234

42.158 2136.014

51.147 2092.982

62.052 2059.799

75.282 2032.572

91.334 1994.827

110.807 1948.130

134.433 1923.066

163.096 1835.343

197.870 1766.012

240.059 1676.162

291.243 1625.973

353.340 1538.797

428.677 1413.968

520.077 1373.577

630.965 1208.131

765.495 1191.431

928.710 1136.653

1126.724 1053.335

1366.957 1022.806

1658.411 962.726

2012.008 962.485

**Zone 28**

**TAU(us) Magnitudes**

4.659 2281.030

5.652 2174.828

6.857 2233.510

8.319 2145.661

10.093 2196.121

12.245 2182.795

14.856 2133.017

18.023 2119.341

21.866 2115.587

26.528 2127.087

32.185 2081.739

39.047 2104.885

47.372 2099.428

57.473 2092.738

69.727 2065.724

84.593 2041.070

102.630 1935.872

124.512 1850.741

151.060 1782.147

183.268 1775.392

222.343 1728.882

269.750 1607.256

327.264 1506.811

397.042 1450.775

481.697 1388.551

584.401 1291.495

709.004 1201.430

860.173 1113.689

1043.574 1104.959

1266.079 1027.871

1536.025 968.737

1863.527 943.503

**Zone 29**

**TAU(us) Magnitudes**

4.432 2140.015

5.376 2196.722

6.523 2183.614

7.914 2209.793

9.601 2163.341

11.648 2177.583

14.131 2146.192

17.144 2186.184

20.800 2144.132

25.235 2109.269

30.615 2120.184

37.143 2114.374

45.062 2099.944

54.670 2101.404

66.326 2030.084

80.468 2001.339

97.625 1968.239

118.440 1945.546

143.693 1838.556

174.330 1795.454

211.499 1638.908

256.594 1627.501

311.303 1531.722

377.678 1484.048

458.204 1345.191

555.899 1270.929

674.425 1171.140

818.222 1123.067

992.678 1060.896

1204.331 1001.745

1461.111 984.627

1772.640 950.346

**Zone 30**

**TAU(us) Magnitudes**

4.046 2135.664

4.909 2179.264

5.956 2207.824

7.225 2243.048

8.766 2171.623

10.635 2217.728

12.902 2152.588

15.653 2158.294

18.991 2102.348

23.040 2075.000

27.953 2131.466

33.912 2129.384

41.143 2097.719

49.915 2013.604

60.558 2023.580

73.470 2030.899

89.135 1931.723

108.139 1869.510

131.196 1862.789

159.169 1740.552

193.106 1674.566

234.279 1586.480

284.230 1535.082

344.832 1434.463

418.355 1366.434

507.555 1257.124

615.772 1188.359

747.064 1113.608

906.348 1104.664

1099.594 1037.171

1334.043 1003.712

1618.480 891.456

**Zone 31**

**TAU(us) Magnitudes**

3.743 2138.051

4.541 2200.761

5.510 2215.564

6.684 2165.274

8.110 2176.159

9.839 2158.959

11.936 2136.025

14.481 2163.974

17.569 2181.938

21.315 2144.295

25.859 2126.754

31.373 2128.000

38.062 2069.133

46.178 2059.740

56.023 2003.045

67.968 1988.936

82.460 1978.671

100.042 1873.323

121.372 1856.020

147.250 1771.870

178.646 1715.113

216.736 1626.170

262.947 1553.301

319.011 1386.737

387.028 1292.785

469.548 1289.807

569.663 1213.309

691.123 1142.926

838.480 1069.679

1017.255 1069.094

1234.148 917.947

1497.286 961.933

**Zone 32**

**TAU(us) Magnitudes**

3.240 2211.239

3.930 2211.780

4.768 2127.577

5.785 2181.861

7.018 2176.754

8.515 2157.273

10.330 2119.952

12.533 2151.695

15.205 2169.010

18.447 2117.080

22.380 2039.896

27.152 2083.610

32.941 2050.522

39.965 2021.793

48.486 2070.000

58.823 2026.903

71.365 1958.214

86.582 1863.788

105.042 1841.963

127.438 1733.833

154.610 1668.513

187.575 1613.152

227.569 1510.338

276.089 1408.810

334.956 1325.903

406.373 1299.111

493.017 1199.018

598.135 1129.799

725.666 1046.079

880.389 1068.420

1068.100 1021.904

1295.834 968.315

**Zone 33**

**TAU(us) Magnitudes**

3.342 2198.685

4.055 2152.318

4.919 2143.820

5.968 2204.671

7.240 2122.557

8.784 2140.316

10.657 2131.086

12.929 2120.542

15.686 2132.006

19.031 2140.307

23.088 2144.634

28.011 2168.810

33.983 2087.545

41.229 2062.715

50.020 2049.320

60.685 2004.323

73.624 1972.147

89.321 1944.141

108.366 1858.959

131.471 1786.282

159.502 1736.754

193.510 1632.739

234.769 1557.308

284.825 1522.264

345.554 1411.232

419.231 1280.857

508.617 1248.752

617.061 1201.849

748.628 1085.572

908.246 1088.087

1101.896 976.715

1336.836 984.242

**Zone 34**

**TAU(us) Magnitudes**

3.482 2136.463

4.224 2158.293

5.124 2176.678

6.217 2148.530

7.543 2156.091

9.151 2120.651

11.102 2104.247

13.469 2125.974

16.341 2137.638

19.825 2107.622

24.051 2077.848

29.180 2084.988

35.401 2042.764

42.949 2069.999

52.106 2024.228

63.216 1967.787

76.695 1955.683

93.047 1968.620

112.886 1833.653

136.955 1784.110

166.156 1669.928

201.583 1629.878

244.563 1579.048

296.707 1460.507

359.969 1353.954

436.719 1273.927

529.834 1200.191

642.802 1196.620

779.857 1069.526

946.133 1015.155

1147.862 996.063

1392.602 917.247

**Zone 35**

**TAU(us) Magnitudes**

3.224 2187.118

3.911 2144.200

4.745 2170.609

5.757 2136.026

6.985 2105.083

8.474 2124.854

10.281 2150.019

12.473 2111.712

15.132 2105.229

18.359 2067.467

22.273 2116.304

27.022 2046.994

32.783 2058.065

39.773 2078.500

48.253 1963.660

58.541 1983.123

71.023 1937.961

86.166 1859.104

104.538 1848.961

126.827 1792.718

153.869 1636.315

186.676 1604.353

226.478 1468.358

274.766 1410.508

333.350 1272.641

404.425 1246.925

490.653 1208.585

595.268 1150.068

722.187 1018.274

876.168 1010.839

1062.979 954.213

1289.621 934.064

**Zone 36**

**TAU(us) Magnitudes**

3.417 2136.796

4.145 2127.465

5.029 2137.297

6.101 2125.469

7.402 2138.501

8.980 2123.072

10.895 2125.881

13.218 2089.500

16.037 2091.870

19.456 2080.539

23.604 2194.289

28.637 2030.957

34.742 2052.184

42.150 2128.941

51.137 1984.399

62.040 1968.993

75.268 1992.511

91.316 1875.802

110.786 1872.008

134.407 1766.196

163.065 1717.280

197.832 1624.328

240.013 1553.914

291.187 1422.447

353.272 1375.822

428.595 1224.219

519.977 1187.738

630.843 1121.277

765.348 1059.592

928.531 990.708

1126.507 963.452

1366.694 912.648

**Zone 37**

**TAU(us) Magnitudes**

3.175 2133.666

3.852 2128.674

4.673 2127.708

5.669 2123.009

6.878 2100.155

8.345 2114.861

10.124 2125.297

12.283 2139.796

14.901 2147.797

18.079 2111.200

21.933 2096.047

26.610 2060.646

32.283 1985.621

39.167 2026.528

47.518 1980.060

57.649 1905.897

69.941 1892.603

84.853 1896.791

102.945 1782.067

124.894 1743.921

151.523 1603.177

183.830 1601.446

223.025 1461.686

270.577 1401.514

328.268 1334.767

398.259 1226.532

483.174 1142.957

586.193 1129.410

711.178 942.424

862.811 1031.436

1046.774 951.398

1269.961 887.836

**Zone 38**

**TAU(us) Magnitudes**

3.061 2167.770

3.713 2106.197

4.505 2157.031

5.466 2136.042

6.631 2134.512

8.045 2125.809

9.760 2140.359

11.841 2113.258

14.366 2104.095

17.429 2147.823

21.145 2063.960

25.653 2127.822

31.123 1983.040

37.759 2002.642

45.809 1999.860

55.576 1960.025

67.426 1885.145

81.802 1901.238

99.244 1833.513

120.404 1742.889

146.076 1725.411

177.221 1578.667

215.007 1506.345

260.850 1429.861

316.466 1367.205

383.942 1245.414

465.803 1160.064

565.119 1126.398

685.610 1053.357

831.792 1020.973

1009.142 944.806

1224.305 947.109

**Zone 39**

**TAU(us) Magnitudes**

2.779 2114.623

3.371 2237.953

4.090 2143.356

4.962 2149.464

6.020 2143.362

7.303 2102.177

8.861 2137.223

10.750 2130.150

13.042 2168.833

15.823 2105.421

19.196 2083.233

23.289 2113.798

28.255 2094.612

34.279 2022.612

41.588 1990.584

50.455 2000.550

61.213 1930.790

74.264 1908.403

90.098 1877.954

109.309 1739.630

132.615 1637.855

160.890 1624.184

195.194 1527.409

236.812 1349.434

287.304 1327.985

348.561 1285.383

422.880 1169.140

513.043 1119.130

622.431 1053.443

755.142 1023.903

916.149 972.484

1111.485 961.935

**Zone 40**

**TAU(us) Magnitudes**

3.227 2149.818

3.915 2094.854

4.750 2147.711

5.763 2160.768

6.992 2149.939

8.482 2133.835

10.291 2127.337

12.485 2120.839

15.147 2050.381

18.376 2138.667

22.295 2092.902

27.048 2042.307

32.815 2086.186

39.812 2010.820

48.300 2084.086

58.599 2012.349

71.093 1975.422

86.251 1955.171

104.640 1893.754

126.951 1803.472

154.019 1760.854

186.858 1644.304

226.699 1575.989

275.034 1478.957

333.675 1366.961

404.819 1259.572

491.132 1208.817

595.849 1132.487

722.892 1099.350

877.023 1031.396

1064.016 959.429

1290.879 896.224