**Fig.1. right**

**Haribo Balla Raspberry Jelly 323K**

**Zone 1**

**TAU(us) Magnitudes**

73473.289 3833.694

60560.864 3753.941

49917.709 3644.832

41145.015 3589.006

33914.062 3350.792

27953.899 3266.999

23041.193 3111.459

18991.862 2889.004

15654.173 2681.585

12903.060 2404.068

10635.436 2245.021

8766.331 2108.013

7225.709 1956.486

5955.840 1765.943

4909.142 1639.154

4046.394 1549.353

3335.268 1432.339

2749.118 1356.339

2265.979 1291.091

1867.749 1261.274

1539.505 1188.437

1268.948 1144.751

1045.939 1090.573

862.122 1090.529

710.610 1053.925

585.725 1026.478

482.788 985.887

397.941 1059.449

328.006 1004.620

270.361 961.162

222.847 981.694

183.683 980.471

**Zone 2**

**TAU(us) Magnitudes**

65477.591 3325.901

53970.355 3321.921

44485.437 3273.331

36667.427 3169.646

30223.379 3100.465

24911.828 2893.832

20533.746 2742.406

16925.081 2562.787

13950.615 2416.561

11498.890 2197.239

9478.039 2056.121

7812.339 1914.968

6439.374 1756.629

5307.699 1611.103

4374.907 1478.705

3606.047 1413.578

2972.309 1325.901

2449.946 1204.937

2019.385 1198.189

1664.492 1098.192

1371.969 1078.763

1130.855 1050.328

932.115 1006.793

768.302 988.674

633.278 943.140

521.984 898.677

430.249 956.519

354.636 908.615

292.311 832.750

240.939 853.226

198.596 883.446

163.694 887.125

**Zone 3**

**TAU(us) Magnitudes**

59861.526 2967.600

49341.275 2872.424

40669.885 2827.259

33522.433 2716.005

27631.096 2647.276

22775.121 2566.145

18772.550 2387.606

15473.403 2258.368

12754.059 2066.304

10512.621 1976.796

8665.100 1802.879

7142.269 1693.056

5887.064 1581.964

4852.453 1431.636

3999.668 1341.578

3296.754 1239.660

2717.372 1183.254

2239.812 1159.888

1846.181 1061.446

1521.727 1018.339

1254.294 1018.954

1033.861 955.576

852.167 940.127

702.404 934.644

578.962 901.043

477.213 847.287

393.346 870.422

324.218 845.134

267.239 865.484

220.274 834.821

181.562 819.739

149.654 779.895

**Zone 4**

**TAU(us) Magnitudes**

50590.488 2493.227

41699.557 2530.494

34371.147 2460.474

28330.654 2429.206

23351.737 2380.412

19247.830 2234.185

15865.156 2135.972

13076.964 1994.996

10778.778 1918.927

8884.482 1751.602

7323.095 1683.467

6036.112 1538.966

4975.306 1458.800

4100.931 1332.664

3380.220 1275.979

2786.170 1222.864

2296.520 1142.895

1892.922 1106.322

1560.254 1078.427

1286.050 1000.257

1060.036 968.827

873.742 910.055

720.188 915.251

593.620 850.794

489.295 845.629

403.305 860.787

332.427 848.068

274.005 827.196

225.851 836.365

186.159 805.340

153.443 861.587

126.476 848.591

**Zone 5**

**TAU(us) Magnitudes**

47087.943 2249.928

38812.561 2208.523

31991.520 2174.401

26369.231 2120.723

21735.020 2052.706

17915.240 1941.275

14766.760 1875.253

12171.603 1850.677

10032.528 1687.025

8269.380 1537.712

6816.093 1422.418

5618.212 1394.804

4630.850 1297.704

3817.010 1292.470

3146.197 1165.033

2593.274 1166.478

2137.524 1128.523

1761.869 1026.500

1452.233 964.307

1197.013 990.961

986.646 975.933

813.250 948.510

670.327 903.227

552.521 865.169

455.420 868.185

375.383 860.038

309.412 864.956

255.035 886.923

210.214 813.860

173.270 876.865

142.819 772.303

117.720 817.804

**Zone 6**

**TAU(us) Magnitudes**

36864.960 1960.918

30386.197 1928.046

25046.032 1987.684

20644.364 1922.896

17016.259 1898.814

14025.769 1795.012

11560.836 1820.971

9529.099 1593.471

7854.425 1568.771

6474.064 1517.497

5336.292 1398.769

4398.475 1356.636

3625.474 1321.639

2988.321 1210.506

2463.145 1167.512

2030.264 1115.142

1673.459 1003.144

1379.360 974.757

1136.947 957.471

937.136 971.824

772.441 924.487

636.690 897.461

524.796 873.426

432.567 867.542

356.546 884.524

293.886 879.037

242.237 870.246

199.666 825.999

164.576 856.454

135.653 844.082

111.813 809.205

92.162 825.779

**Zone 7**

**TAU(us) Magnitudes**

77.298 3184.345

93.779 3136.459

113.774 3206.755

138.032 3166.296

167.462 3151.987

203.168 3182.958

246.486 3134.215

299.040 3164.766

362.799 3128.601

440.153 3100.708

534.000 3140.368

647.857 3150.093

785.989 3074.889

953.573 3018.520

1156.888 2942.990

1403.552 2941.458

1702.809 2881.189

2065.872 2841.967

2506.345 2770.996

3040.733 2676.315

3689.060 2621.169

4475.619 2600.577

5429.884 2449.375

6587.611 2362.277

7992.182 2317.310

9696.228 2185.498

11763.599 2167.101

14271.764 2046.651

17314.704 2035.055

21006.441 1960.076

25485.309 1936.458

30919.134 1875.917

**Zone 8**

**TAU(us) Magnitudes**

66.850 3162.691

81.103 3165.931

98.395 3137.618

119.375 3084.562

144.827 3100.957

175.706 3159.494

213.169 3122.874

258.620 3036.040

313.761 3076.300

380.659 3022.496

461.821 3054.826

560.288 3003.057

679.750 2991.238

824.682 2948.474

1000.515 2880.604

1213.839 2863.847

1472.647 2772.234

1786.636 2766.018

2167.571 2654.711

2629.728 2638.994

3190.423 2497.587

3870.666 2425.644

4695.946 2341.291

5697.187 2276.152

6911.908 2200.624

8385.623 2077.221

10173.556 2029.416

12342.700 1935.954

14974.337 1885.270

18167.076 1731.365

22040.551 1745.898

26739.905 1704.408

**Zone 9**

**TAU(us) Magnitudes**

64.520 3119.432

78.277 3033.502

94.967 3014.615

115.215 3059.040

139.780 3065.680

169.583 3097.828

205.741 3032.963

249.608 3032.583

302.828 3025.906

367.395 2960.899

445.729 2927.552

540.764 2942.086

656.063 2904.318

795.944 2880.536

965.651 2841.946

1171.541 2855.092

1421.330 2801.281

1724.378 2715.436

2092.039 2665.398

2538.091 2638.817

3079.248 2459.403

3735.787 2392.865

4532.309 2208.133

5498.661 2139.587

6671.052 2068.463

8093.414 2018.325

9819.044 1876.717

11912.601 1875.821

14452.535 1740.256

17534.018 1663.205

21272.516 1565.314

25808.115 1559.064

**Zone 10**

**TAU(us) Magnitudes**

50.634 3056.615

61.430 3034.608

74.527 3041.611

90.418 3018.300

109.696 3080.576

133.085 2957.917

161.460 3042.231

195.886 2984.449

237.651 2935.543

288.322 2916.498

349.796 2930.033

424.377 2918.901

514.860 2845.278

624.636 2783.780

757.817 2789.637

919.394 2740.174

1115.422 2654.502

1353.245 2591.807

1641.776 2524.314

1991.826 2463.157

2416.511 2327.328

2931.745 2225.693

3556.835 2093.992

4315.202 2037.051

5235.263 1890.197

6351.495 1831.933

7705.722 1736.757

9348.690 1602.755

11341.962 1541.328

13760.228 1560.472

16694.101 1491.589

20253.517 1471.875

**Zone 11**

**TAU(us) Magnitudes**

46.131 2985.788

55.967 2991.770

67.900 2978.281

82.377 2939.723

99.941 2973.731

121.250 2918.390

147.102 2923.125

178.466 2947.708

216.517 2897.554

262.682 2911.194

318.689 2888.278

386.638 2855.730

469.075 2761.285

569.088 2781.867

690.426 2775.452

837.634 2669.549

1016.229 2643.912

1232.904 2537.359

1495.776 2505.823

1814.696 2412.168

2201.615 2340.315

2671.030 2256.155

3240.532 2156.329

3931.458 2038.250

4769.700 1938.376

5786.667 1762.286

7020.466 1704.845

8517.327 1570.035

10333.341 1592.933

12536.554 1470.732

15209.523 1433.011

18452.407 1402.105

**Zone 12**

**TAU(us) Magnitudes**

40.106 2961.823

48.657 2928.472

59.032 2880.030

71.618 2918.499

86.888 2938.908

105.414 2889.737

127.889 2925.289

155.157 2938.761

188.239 2911.288

228.374 2868.875

277.066 2819.371

336.141 2740.773

407.811 2747.425

494.761 2725.082

600.252 2640.766

728.234 2585.072

883.503 2559.696

1071.879 2489.357

1300.418 2470.289

1577.685 2338.673

1914.070 2264.936

2322.177 2192.666

2817.297 2068.741

3417.984 1937.092

4146.747 1863.746

5030.891 1737.171

6103.548 1664.124

7404.909 1557.580

8983.740 1433.946

10899.199 1396.569

13223.061 1363.842

16042.403 1363.863

**Zone 13**

**TAU(us) Magnitudes**

33.933 2933.742

41.168 2892.659

49.946 2879.943

60.595 2906.698

73.514 2845.423

89.189 2829.018

108.205 2838.560

131.276 2814.888

159.266 2859.608

193.223 2805.932

234.421 2737.546

284.403 2693.111

345.042 2725.029

418.610 2671.820

507.863 2582.560

616.146 2618.262

747.517 2508.071

906.899 2479.306

1100.262 2373.675

1334.854 2286.760

1619.463 2214.610

1964.755 2079.053

2383.669 2014.125

2891.900 1918.689

3508.494 1731.535

4256.554 1630.043

5164.111 1563.309

6265.171 1521.580

7600.994 1466.347

9221.632 1363.650

11187.813 1240.957

13573.212 1304.218

**Zone 14**

**TAU(us) Magnitudes**

30.352 2844.572

36.824 2865.965

44.675 2871.386

54.200 2850.372

65.756 2810.421

79.777 2808.782

96.786 2782.373

117.422 2829.150

142.458 2839.394

172.832 2728.322

209.683 2769.662

254.390 2730.658

308.630 2686.170

374.434 2648.551

454.268 2612.043

551.125 2565.094

668.632 2554.211

811.194 2409.461

984.152 2375.179

1193.987 2294.032

1448.561 2194.283

1757.415 2098.383

2132.120 1998.633

2586.718 1842.020

3138.243 1762.349

3807.360 1672.468

4619.143 1548.874

5604.009 1440.864

6798.862 1418.905

8248.475 1345.910

10007.165 1265.642

12140.833 1244.245

**Zone 15**

**TAU(us) Magnitudes**

27.618 2874.534

33.506 2848.358

40.650 2789.373

49.317 2812.076

59.833 2802.816

72.590 2750.428

88.067 2768.607

106.844 2740.659

129.625 2726.309

157.262 2735.385

190.793 2674.853

231.473 2665.602

280.826 2643.895

340.702 2593.922

413.344 2553.626

501.475 2490.844

608.397 2425.610

738.115 2383.932

895.492 2323.163

1086.423 2234.922

1318.064 2148.636

1599.094 2024.438

1940.043 1908.889

2353.687 1809.345

2855.526 1724.446

3464.364 1554.962

4203.015 1467.588

5099.157 1451.182

6186.369 1293.378

7505.390 1299.222

9105.644 1190.582

11047.095 1088.211

**Zone 16**

**TAU(us) Magnitudes**

24.685 2812.078

29.948 2786.844

36.334 2768.044

44.081 2805.303

53.479 2712.220

64.882 2723.458

78.715 2762.096

95.499 2739.989

115.860 2675.095

140.563 2657.662

170.533 2680.251

206.894 2618.770

251.006 2582.827

304.524 2550.673

369.453 2529.686

448.226 2472.409

543.793 2447.162

659.738 2308.451

800.403 2291.189

971.060 2202.722

1178.104 2104.798

1429.292 1946.800

1734.038 1890.134

2103.759 1770.710

2552.310 1676.069

3096.498 1600.370

3756.715 1421.564

4557.699 1377.278

5529.464 1306.948

6708.423 1253.263

8138.753 1135.863

9874.049 1117.037

**Zone 17**

**TAU(us) Magnitudes**

21.201 2793.902

25.721 2796.317

31.205 2816.822

37.859 2704.918

45.931 2720.710

55.724 2714.923

67.605 2673.961

82.019 2625.053

99.507 2669.783

120.723 2652.997

146.463 2620.522

177.691 2667.539

215.578 2555.532

261.542 2597.841

317.306 2529.379

384.960 2394.060

467.039 2375.264

566.618 2306.067

687.429 2243.222

833.999 2119.405

1011.819 2014.343

1227.553 1942.090

1489.285 1897.979

1806.821 1719.258

2192.061 1621.548

2659.439 1503.564

3226.468 1405.149

3914.397 1326.006

4749.001 1197.644

5761.554 1167.755

6989.998 1150.409

8480.364 1093.049

**Zone 18**

**TAU(us) Magnitudes**

18.139 2696.596

22.006 2697.620

26.698 2732.896

32.391 2697.656

39.297 2710.121

47.675 2702.310

57.840 2649.828

70.173 2633.479

85.135 2634.905

103.286 2638.246

125.309 2629.077

152.026 2603.774

184.440 2535.045

223.765 2541.748

271.475 2431.954

329.358 2409.334

399.581 2324.012

484.778 2281.474

588.139 2220.864

713.538 2124.888

865.675 2030.714

1050.249 1895.207

1274.177 1788.636

1545.849 1761.031

1875.446 1641.971

2275.317 1562.037

2760.446 1417.651

3349.012 1401.724

4063.068 1254.831

4929.371 1195.883

5980.383 1165.190

7255.484 1098.951

**Zone 19**

**TAU(us) Magnitudes**

16.654 2663.793

20.204 2685.456

24.512 2684.976

29.739 2686.312

36.079 2652.443

43.772 2729.948

53.105 2674.650

64.428 2576.030

78.164 2618.218

94.830 2576.799

115.049 2588.227

139.580 2527.683

169.340 2532.000

205.445 2513.429

249.249 2460.205

302.393 2374.621

366.867 2307.126

445.088 2277.421

539.987 2236.264

655.120 2140.364

794.801 2044.117

964.264 1957.394

1169.858 1812.024

1419.289 1760.533

1721.901 1652.931

2089.034 1544.322

2534.446 1463.936

3074.825 1350.828

3730.421 1223.504

4525.799 1181.993

5490.762 1184.489

6661.470 1109.989

**Zone 20**

**TAU(us) Magnitudes**

15.503 2631.850

18.809 2686.622

22.819 2671.926

27.684 2653.416

33.587 2665.192

40.748 2633.171

49.436 2603.034

59.976 2580.382

72.764 2581.103

88.278 2525.880

107.100 2561.491

129.936 2558.676

157.640 2518.866

191.251 2453.751

232.028 2429.577

281.500 2342.467

341.520 2277.028

414.337 2299.249

502.679 2186.097

609.857 2085.998

739.887 1953.378

897.642 1892.468

1089.031 1851.753

1321.228 1712.114

1602.932 1608.176

1944.700 1503.729

2359.337 1404.244

2862.381 1318.719

3472.681 1236.884

4213.105 1120.113

5111.398 1082.957

6201.220 1061.593

**Zone 21**

**TAU(us) Magnitudes**

13.797 2600.326

16.739 2599.516

20.308 2632.975

24.637 2604.933

29.890 2610.511

36.264 2635.245

43.995 2556.792

53.376 2616.310

64.756 2543.298

78.563 2522.200

95.314 2513.404

115.636 2504.935

140.292 2457.630

170.204 2456.416

206.494 2367.192

250.521 2369.733

303.936 2280.822

368.739 2227.845

447.359 2188.217

542.743 2070.895

658.463 1935.016

798.856 1875.036

969.184 1777.685

1175.827 1687.438

1426.530 1557.001

1730.686 1475.155

2099.693 1349.365

2547.377 1272.081

3090.513 1194.595

3749.454 1150.760

4548.890 1101.601

5518.778 1064.689

**Zone 22**

**TAU(us) Magnitudes**

12.405 2638.402

15.050 2640.043

18.258 2609.082

22.151 2602.840

26.874 2575.508

32.604 2554.735

39.556 2572.085

47.990 2587.059

58.222 2538.826

70.636 2494.868

85.696 2501.064

103.968 2527.076

126.135 2430.648

153.029 2419.626

185.657 2396.750

225.241 2323.389

273.266 2293.804

331.530 2186.080

402.217 2142.558

487.975 2031.462

592.018 1963.777

718.244 1896.487

871.384 1750.092

1057.176 1694.048

1282.580 1514.731

1556.044 1511.154

1887.815 1368.729

2290.323 1230.734

2778.653 1192.234

3371.100 1131.368

4089.866 1107.079

4961.883 1030.410

**Zone 23**

**TAU(us) Magnitudes**

11.154 2630.183

13.532 2621.564

16.417 2614.727

19.917 2608.200

24.164 2580.296

29.316 2521.351

35.567 2570.695

43.150 2567.720

52.350 2551.752

63.512 2505.752

77.054 2525.057

93.482 2442.486

113.414 2414.917

137.596 2396.109

166.933 2336.665

202.525 2346.856

245.707 2203.226

298.095 2153.657

361.653 2093.351

438.762 2006.378

532.312 1983.052

645.809 1910.366

783.505 1792.283

950.559 1646.751

1153.231 1576.904

1399.116 1481.828

1697.427 1394.703

2059.343 1248.575

2498.423 1181.151

3031.122 1068.226

3677.400 1072.430

4461.473 1091.738

**Zone 24**

**TAU(us) Magnitudes**

9.753 2599.538

11.833 2571.560

14.355 2609.669

17.416 2564.386

21.130 2560.944

25.635 2545.079

31.101 2558.832

37.732 2531.341

45.777 2562.368

55.537 2510.654

67.378 2476.297

81.744 2444.732

99.173 2422.617

120.318 2379.510

145.971 2382.029

177.094 2279.922

214.853 2218.851

260.663 2138.161

316.240 2092.037

383.667 2002.806

465.470 1897.312

564.715 1834.979

685.120 1773.141

831.197 1701.713

1008.420 1570.320

1223.429 1436.580

1484.281 1369.133

1800.751 1257.999

2184.696 1230.577

2650.504 1135.334

3215.629 1090.874

3901.246 1014.118

**Zone 25**

**TAU(us) Magnitudes**

9.633 2555.676

11.686 2537.201

14.178 2563.832

17.201 2522.641

20.868 2529.574

25.318 2503.699

30.716 2503.118

37.265 2548.455

45.210 2499.653

54.850 2468.556

66.545 2431.078

80.733 2477.123

97.947 2390.556

118.830 2347.653

144.166 2310.328

174.905 2311.659

212.197 2268.690

257.440 2143.527

312.330 2154.863

378.923 2044.098

459.715 1960.953

557.732 1859.829

676.649 1777.429

820.920 1642.106

995.951 1595.551

1208.302 1451.198

1465.929 1399.450

1778.485 1358.559

2157.683 1234.695

2617.732 1149.989

3175.869 1114.320

3853.008 971.967

**Zone 26**

**TAU(us) Magnitudes**

8.772 2514.591

10.643 2528.199

12.912 2492.259

15.665 2592.143

19.005 2534.430

23.057 2489.171

27.973 2504.232

33.938 2443.373

41.174 2441.000

49.952 2437.714

60.603 2438.893

73.524 2391.683

89.201 2440.291

108.220 2380.238

131.294 2319.971

159.287 2304.085

193.250 2175.388

234.453 2161.239

284.442 2097.882

345.089 2038.573

418.666 1856.459

507.932 1838.585

616.230 1728.373

747.619 1628.487

907.022 1558.995

1100.412 1407.934

1335.035 1328.087

1619.683 1263.626

1965.022 1158.451

2383.993 1111.586

2892.293 1033.685

3508.971 1076.322

**Zone 27**

**TAU(us) Magnitudes**

8.080 2560.588

9.802 2497.913

11.892 2536.659

14.428 2553.780

17.504 2550.034

21.236 2480.136

25.764 2453.473

31.257 2493.654

37.922 2467.220

46.007 2443.860

55.817 2437.507

67.717 2402.705

82.156 2374.061

99.673 2370.496

120.924 2323.359

146.707 2237.133

177.987 2247.722

215.936 2166.471

261.977 2053.444

317.834 2033.505

385.600 1918.267

467.816 1881.509

567.561 1664.722

688.573 1675.456

835.386 1537.628

1013.502 1435.283

1229.595 1358.773

1491.762 1241.668

1809.826 1179.227

2195.706 1145.292

2663.862 1079.510

3231.835 1025.379

**Zone 28**

**TAU(us) Magnitudes**

7.560 2514.957

9.172 2473.956

11.128 2536.832

13.501 2507.724

16.379 2523.132

19.871 2508.439

24.108 2477.356

29.248 2482.795

35.485 2503.358

43.050 2421.653

52.229 2422.709

63.365 2421.804

76.876 2376.258

93.267 2296.806

113.152 2281.104

137.278 2226.823

166.547 2185.796

202.058 2130.608

245.139 2083.655

297.406 1991.188

360.818 1939.317

437.749 1803.126

531.083 1780.265

644.318 1650.201

781.695 1512.260

948.363 1453.683

1150.568 1340.165

1395.885 1249.632

1693.507 1154.047

2054.587 1097.618

2492.654 1084.263

3024.122 1023.118

**Zone 29**

**TAU(us) Magnitudes**

6.788 2513.536

8.235 2596.008

9.991 2504.768

12.121 2524.690

14.706 2496.468

17.841 2514.616

21.645 2464.350

26.260 2473.772

31.859 2490.088

38.652 2481.990

46.894 2387.412

56.892 2377.133

69.022 2345.068

83.739 2374.642

101.593 2367.802

123.254 2265.821

149.533 2242.420

181.416 2195.933

220.096 2083.117

267.024 1955.109

323.957 1855.729

393.029 1834.060

476.829 1714.009

578.495 1618.067

701.838 1509.759

851.480 1469.696

1033.028 1402.012

1253.284 1278.544

1520.501 1210.593

1844.693 1133.379

2238.008 1054.145

2715.183 1029.496

**Zone 30**

**TAU(us) Magnitudes**

6.408 2579.967

7.774 2498.935

9.431 2515.498

11.442 2491.922

13.882 2528.343

16.842 2469.739

20.433 2450.255

24.789 2469.100

30.075 2476.840

36.487 2394.392

44.267 2382.014

53.705 2369.574

65.156 2403.611

79.048 2353.243

95.902 2266.981

116.349 2266.919

141.157 2222.633

171.253 2178.736

207.767 2106.563

252.066 1985.228

305.810 1927.745

371.012 1861.603

450.117 1717.727

546.089 1677.760

662.523 1530.603

803.782 1486.891

975.159 1332.723

1183.077 1242.141

1435.325 1227.200

1741.357 1123.282

2112.638 1056.097

2563.083 1081.610

**Zone 31**

**TAU(us) Magnitudes**

6.328 2471.821

7.678 2535.808

9.315 2513.537

11.301 2515.277

13.710 2471.696

16.634 2476.219

20.180 2488.606

24.483 2410.366

29.703 2404.221

36.036 2466.044

43.719 2382.662

53.041 2403.605

64.350 2349.163

78.070 2324.630

94.716 2309.522

114.910 2248.981

139.411 2239.496

169.135 2118.532

205.197 2030.191

248.948 2035.492

302.027 1944.516

366.423 1848.102

444.550 1728.969

539.334 1630.948

654.328 1545.280

793.840 1465.417

963.097 1421.676

1168.443 1285.772

1417.572 1190.803

1719.818 1139.967

2086.507 1082.222

2531.379 998.214

**Zone 32**

**TAU(us) Magnitudes**

6.061 2495.719

7.353 2488.506

8.921 2454.645

10.823 2460.241

13.131 2446.159

15.930 2445.950

19.327 2422.086

23.448 2470.114

28.447 2415.080

34.513 2390.037

41.871 2425.814

50.799 2352.770

61.630 2354.103

74.770 2333.210

90.712 2337.922

110.053 2246.023

133.518 2273.195

161.986 2203.808

196.523 2059.597

238.425 1981.082

289.260 1944.763

350.935 1823.243

425.759 1670.030

516.537 1591.561

626.669 1451.746

760.284 1424.385

922.387 1347.655

1119.053 1216.046

1357.651 1203.873

1647.121 1071.474

1998.311 1088.491

2424.378 997.470

**Zone 33**

**TAU(us) Magnitudes**

5.752 2483.291

6.979 2492.346

8.467 2476.250

10.272 2509.073

12.462 2512.091

15.119 2493.826

18.343 2458.457

22.254 2467.317

26.999 2424.950

32.755 2429.525

39.739 2408.540

48.212 2381.662

58.491 2334.370

70.962 2349.171

86.092 2315.196

104.449 2254.215

126.718 2204.640

153.737 2087.292

186.515 2073.303

226.283 2018.899

274.530 1961.002

333.063 1815.806

404.077 1717.642

490.232 1573.975

594.756 1545.305

721.567 1366.406

875.415 1324.068

1062.065 1274.854

1288.513 1156.685

1563.242 1122.181

1896.547 1070.013

2300.917 967.477

**Zone 34**

**TAU(us) Magnitudes**

5.177 2477.784

6.281 2459.247

7.620 2486.411

9.245 2491.016

11.216 2499.412

13.608 2455.183

16.509 2437.526

20.029 2412.582

24.300 2403.833

29.481 2379.873

35.767 2383.361

43.393 2334.258

52.645 2326.314

63.869 2329.973

77.487 2261.120

94.008 2261.291

114.052 2184.422

138.370 2109.696

167.872 2007.545

203.665 1949.077

247.089 1839.292

299.772 1790.923

363.688 1693.543

441.231 1590.603

535.308 1507.980

649.443 1450.593

787.914 1346.885

955.908 1205.407

1159.721 1200.880

1406.990 1129.715

1706.980 1062.056

2070.932 988.371

**Zone 35**

**TAU(us) Magnitudes**

5.419 2497.093

6.574 2429.074

7.976 2484.556

9.677 2500.032

11.740 2494.854

14.243 2458.524

17.280 2409.125

20.964 2463.154

25.434 2470.874

30.857 2439.092

37.436 2426.764

45.417 2407.638

55.101 2363.078

66.849 2403.177

81.102 2385.221

98.395 2312.159

119.374 2190.168

144.826 2146.257

175.705 2133.646

213.168 1970.335

258.618 1931.516

313.759 1863.550

380.657 1767.985

461.818 1691.305

560.284 1540.981

679.744 1446.241

824.675 1410.603

1000.508 1252.948

1213.830 1173.417

1472.635 1127.460

1786.622 1050.046

2167.555 1027.285

**Zone 36**

**TAU(us) Magnitudes**

5.775 2439.474

7.007 2497.800

8.501 2445.435

10.313 2464.316

12.512 2445.022

15.180 2468.206

18.416 2481.292

22.343 2426.399

27.107 2391.409

32.886 2428.608

39.898 2404.852

48.405 2385.046

58.725 2363.939

71.246 2341.358

86.437 2250.158

104.867 2232.984

127.226 2212.197

154.352 2149.151

187.262 2084.173

227.189 2000.736

275.629 1927.678

334.397 1840.141

405.695 1740.656

492.195 1630.948

597.138 1560.487

724.456 1458.904

878.920 1372.320

1066.319 1236.632

1293.673 1218.025

1569.502 1064.816

1904.142 1074.226

2310.131 960.259

**Zone 37**

**TAU(us) Magnitudes**

4.914 2472.089

5.962 2480.669

7.233 2487.292

8.775 2485.472

10.646 2481.000

12.916 2495.028

15.670 2430.339

19.011 2394.221

23.064 2435.820

27.982 2380.842

33.948 2379.415

41.187 2387.093

49.968 2343.562

60.622 2360.594

73.548 2270.785

89.229 2255.905

108.254 2217.817

131.335 2151.989

159.337 2050.343

193.310 1970.956

234.527 1853.241

284.531 1714.724

345.197 1628.553

418.798 1543.951

508.092 1414.767

616.424 1400.903

747.855 1277.167

907.308 1236.233

1100.759 1157.178

1335.456 1051.557

1620.194 1028.638

1965.642 1021.356

**Zone 38**

**TAU(us) Magnitudes**

4.697 2512.193

5.699 2446.258

6.914 2441.702

8.388 2464.686

10.176 2429.827

12.346 2550.399

14.978 2448.750

18.172 2378.681

22.047 2402.556

26.747 2434.331

32.450 2349.007

39.369 2336.143

47.763 2379.653

57.947 2287.575

70.302 2306.758

85.291 2284.549

103.476 2237.286

125.539 2190.615

152.305 2091.696

184.779 2015.132

224.176 1920.165

271.974 1847.801

329.962 1720.627

400.315 1694.548

485.667 1535.610

589.219 1395.500

714.848 1320.331

867.264 1276.246

1052.177 1255.130

1276.515 1157.974

1548.686 1108.905

1878.888 1079.865

**Zone 39**

**TAU(us) Magnitudes**

4.939 2439.109

5.992 2508.908

7.270 2513.342

8.820 2451.910

10.700 2485.286

12.982 2457.801

15.750 2441.297

19.108 2421.819

23.182 2412.229

28.125 2416.798

34.121 2429.002

41.396 2421.911

50.223 2309.188

60.931 2379.711

73.922 2262.233

89.684 2248.641

108.805 2214.744

132.004 2207.149

160.149 2140.034

194.296 2043.538

235.722 1961.869

285.981 1822.024

346.957 1774.529

420.933 1622.636

510.681 1580.216

619.566 1471.079

751.666 1367.861

911.932 1266.313

1106.368 1152.119

1342.261 1153.427

1628.450 1068.626

1975.659 1031.834

**Zone 40**

**TAU(us) Magnitudes**

4.665 2530.015

5.660 2485.038

6.866 2446.663

8.331 2449.535

10.107 2429.899

12.262 2398.046

14.876 2424.265

18.048 2464.624

21.896 2413.079

26.564 2441.114

32.228 2429.547

39.099 2363.222

47.436 2323.456

57.550 2323.518

69.821 2301.315

84.707 2277.372

102.768 2199.256

124.680 2101.342

151.263 2015.733

183.515 2024.694

222.642 1942.833

270.113 1825.079

327.705 1691.307

397.576 1608.029

482.345 1507.152

585.187 1411.289

709.957 1285.364

861.330 1262.812

1044.978 1234.498

1267.782 1123.574

1538.091 1089.941

1866.033 982.491