**Fig.1. left**

**Haribo Color Rado Jelly 298K**

**Zone 1**

**TAU(us) Magnitudes**

80983.074 4215.252

66750.856 4153.389

55019.852 4126.866

45350.492 3989.844

37380.455 3778.140

30811.097 3580.645

25396.259 3310.243

20933.041 3083.709

17254.203 2923.895

14221.896 2674.460

11722.495 2472.363

9662.347 2237.868

7964.256 2084.198

6564.593 1947.449

5410.911 1795.287

4459.981 1689.525

3676.170 1571.951

3030.108 1469.753

2497.588 1443.481

2058.654 1372.292

1696.859 1321.891

1398.648 1212.953

1152.845 1269.525

950.241 1211.555

783.242 1137.046

645.593 1195.553

532.134 1122.283

438.615 1141.662

361.532 1138.753

297.995 1125.025

245.625 1142.339

202.458 1141.917

**Zone 2**

**TAU(us) Magnitudes**

72609.489 3726.331

59848.871 3695.440

49330.844 3700.755

40661.287 3545.445

33515.346 3344.002

27625.254 3240.895

22770.306 3067.678

18768.581 2918.010

15470.132 2658.722

12751.363 2461.344

10510.399 2344.752

8663.268 2153.766

7140.759 1984.492

5885.819 1822.907

4851.427 1679.587

3998.822 1595.278

3296.057 1487.218

2716.797 1395.194

2239.339 1317.645

1845.791 1225.563

1521.406 1209.290

1254.029 1185.817

1033.642 1157.360

851.987 1087.845

702.256 1092.808

578.839 1065.360

477.112 1041.090

393.263 1019.668

324.150 1015.061

267.183 1003.797

220.227 1042.118

181.524 1028.916

**Zone 3**

**TAU(us) Magnitudes**

60659.421 3262.525

49998.945 3208.051

41211.975 3180.906

33969.254 3114.598

27999.391 3026.330

23078.691 2847.999

19022.770 2718.832

15679.649 2568.362

12924.058 2371.473

10652.744 2229.203

8780.598 2100.047

7237.468 1922.032

5965.533 1764.388

4917.131 1667.734

4052.979 1530.434

3340.696 1431.035

2753.592 1406.069

2269.667 1242.246

1870.789 1198.564

1542.010 1138.217

1271.013 1076.741

1047.641 1056.590

863.525 996.169

711.767 1022.070

586.679 987.529

483.574 923.525

398.589 955.322

328.540 930.100

270.801 922.770

223.210 906.835

183.982 901.990

151.649 923.773

**Zone 4**

**TAU(us) Magnitudes**

51959.874 2854.432

42828.284 2815.898

35301.507 2714.269

29097.510 2626.929

23983.823 2633.931

19768.831 2497.847

16294.595 2366.696

13430.932 2203.771

11070.538 2117.684

9124.967 1955.766

7521.317 1889.742

6199.497 1712.372

5109.978 1618.906

4211.935 1478.304

3471.716 1409.872

2861.586 1305.347

2358.682 1285.367

1944.160 1193.626

1602.487 1127.196

1320.861 1095.757

1088.729 1071.262

897.392 985.937

739.682 982.639

609.688 1035.654

502.539 994.962

414.221 938.193

341.425 877.469

281.422 942.033

231.964 925.687

191.198 860.194

157.596 893.034

129.900 926.968

**Zone 5**

**TAU(us) Magnitudes**

46914.678 2465.666

38669.746 2467.619

31873.805 2438.954

26272.203 2358.055

21655.044 2264.281

17849.319 2205.713

14712.424 2141.257

12126.817 1990.740

9995.612 1876.398

8238.952 1735.606

6791.013 1643.127

5597.539 1529.603

4613.810 1484.214

3802.965 1332.978

3134.620 1335.111

2583.732 1233.135

2129.659 1179.198

1755.386 1098.249

1446.889 1105.806

1192.608 1046.551

983.015 1003.197

810.257 997.745

667.860 943.206

550.488 1008.630

453.744 979.663

374.001 924.251

308.273 912.471

254.096 887.258

209.441 944.143

172.633 904.591

142.294 937.113

117.287 907.701

**Zone 6**

**TAU(us) Magnitudes**

40970.160 2208.085

33769.936 2210.357

27835.102 2129.190

22943.274 2115.262

18911.152 2052.423

15587.647 1949.193

12848.225 1884.683

10590.238 1827.728

8729.077 1719.220

7195.001 1647.912

5930.529 1530.226

4888.280 1469.499

4029.198 1333.231

3321.094 1296.299

2737.435 1201.844

2256.349 1214.360

1859.812 1158.106

1532.963 1078.307

1263.555 1066.596

1041.494 1027.015

858.458 1027.733

707.590 973.846

583.236 977.703

480.736 983.752

396.250 962.911

326.612 936.199

269.212 925.456

221.900 914.533

182.903 904.843

150.759 907.544

124.264 864.712

102.425 917.444

**Zone 7**

**TAU(us) Magnitudes**

88.182 3507.274

106.983 3463.198

129.794 3454.617

157.467 3458.165

191.042 3432.000

231.774 3441.320

281.192 3477.028

341.146 3458.356

413.883 3392.499

502.129 3412.288

609.189 3376.698

739.077 3364.602

896.659 3302.864

1087.839 3292.776

1319.781 3223.694

1601.177 3239.693

1942.571 3154.895

2356.754 3099.270

2859.247 3023.103

3468.878 2907.576

4208.492 2875.211

5105.801 2795.305

6194.430 2625.548

7515.169 2519.294

9117.508 2460.983

11061.489 2375.779

13419.953 2206.893

16281.276 2204.840

19752.672 2103.426

23964.218 2010.810

29073.725 2055.399

35272.651 1996.341

**Zone 8**

**TAU(us) Magnitudes**

71.952 3414.443

87.293 3432.667

105.905 3416.768

128.486 3447.559

155.881 3435.153

189.117 3409.926

229.439 3423.620

278.359 3402.572

337.709 3308.766

409.713 3353.278

497.070 3263.682

603.052 3289.669

731.631 3263.692

887.625 3176.735

1076.879 3157.006

1306.485 3116.584

1585.046 3084.778

1923.000 3040.300

2333.010 2904.433

2830.441 2812.800

3433.930 2744.893

4166.092 2596.150

5054.361 2484.037

6132.022 2421.718

7439.455 2301.047

9025.651 2184.324

10950.047 2050.925

13284.750 1953.162

16117.245 2006.516

19553.668 1836.503

23722.784 1864.409

28780.813 1812.071

**Zone 9**

**TAU(us) Magnitudes**

60.498 3341.424

73.396 3383.469

89.046 3403.952

108.031 3369.042

131.065 3390.881

159.010 3404.406

192.913 3325.555

234.045 3319.402

283.947 3285.421

344.488 3349.274

417.938 3241.847

507.048 3293.974

615.158 3219.349

746.318 3180.931

905.444 3101.348

1098.497 3038.721

1332.712 3072.622

1616.865 2881.413

1961.603 2818.663

2379.845 2797.091

2887.261 2689.019

3502.866 2551.736

4249.726 2384.647

5155.827 2326.451

6255.121 2204.843

7588.801 2032.887

9206.839 1981.195

11169.866 1903.811

13551.438 1816.562

16440.795 1752.397

19946.203 1728.051

24199.013 1655.985

**Zone 10**

**TAU(us) Magnitudes**

53.033 3339.520

64.340 3296.412

78.058 3322.173

94.701 3313.843

114.893 3316.697

139.390 3370.823

169.110 3284.620

205.166 3308.531

248.910 3239.513

301.982 3202.456

366.368 3183.466

444.483 3103.976

539.253 3103.796

654.230 3137.082

793.721 3027.617

962.953 2975.788

1168.268 2922.574

1417.359 2801.188

1719.560 2790.867

2086.194 2661.741

2531.000 2569.382

3070.645 2432.449

3725.349 2354.018

4519.646 2219.072

5483.298 2124.636

6652.414 2032.828

8070.802 1880.174

9791.610 1735.637

11879.319 1653.754

14412.156 1655.730

17485.029 1543.481

21213.083 1518.254

**Zone 11**

**TAU(us) Magnitudes**

46.087 3276.015

55.914 3268.177

67.835 3222.836

82.299 3267.892

99.846 3248.776

121.134 3226.051

146.962 3220.245

178.296 3212.776

216.311 3210.793

262.432 3178.692

318.386 3185.740

386.271 3158.192

468.629 3106.027

568.547 3023.566

689.769 3041.879

836.838 2918.298

1015.264 2868.617

1231.732 2774.218

1494.355 2693.551

1812.972 2574.135

2199.523 2528.117

2668.492 2331.669

3237.452 2283.650

3927.722 2135.574

4765.167 2049.109

5781.168 1853.718

7013.794 1744.818

8509.233 1679.969

10323.521 1587.093

12524.640 1504.653

15195.069 1490.818

18434.871 1406.776

**Zone 12**

**TAU(us) Magnitudes**

39.276 3203.932

47.650 3242.276

57.810 3250.155

70.136 3228.410

85.090 3189.484

103.232 3228.843

125.243 3155.051

151.947 3124.048

184.344 3146.542

223.648 3102.330

271.333 3092.971

329.185 3044.484

399.372 3050.308

484.524 3021.867

587.832 2934.634

713.166 2898.415

865.222 2779.637

1049.700 2726.609

1273.511 2641.253

1545.041 2502.176

1874.465 2409.631

2274.128 2329.348

2759.004 2218.424

3347.262 2005.394

4060.945 1940.859

4926.795 1805.947

5977.257 1713.979

7251.692 1594.833

8797.855 1529.836

10673.681 1421.244

12949.459 1338.080

15710.465 1384.541

**Zone 13**

**TAU(us) Magnitudes**

34.324 3169.088

41.642 3187.643

50.521 3181.224

61.292 3183.667

74.361 3184.149

90.216 3162.552

109.451 3114.531

132.787 3128.350

161.100 3064.429

195.448 3102.801

237.120 3034.780

287.678 3025.989

349.015 3001.582

423.430 2907.978

513.711 2873.931

623.241 2831.535

756.125 2801.598

917.341 2683.255

1112.932 2660.391

1350.224 2465.714

1638.111 2355.469

1987.379 2245.165

2411.116 2106.959

2925.200 1985.092

3548.894 1852.177

4305.567 1742.971

5223.575 1601.920

6337.314 1485.629

7688.518 1433.150

9327.818 1303.000

11316.639 1295.866

13729.506 1260.000

**Zone 14**

**TAU(us) Magnitudes**

28.811 3158.536

34.954 3146.474

42.406 3142.762

51.448 3136.222

62.417 3103.257

75.726 3071.752

91.872 3059.555

111.460 3061.768

135.225 3050.454

164.056 3063.129

199.036 2989.616

241.473 2947.170

292.958 2937.072

355.421 2870.135

431.201 2853.060

523.140 2772.639

634.680 2750.370

770.003 2646.903

934.179 2578.868

1133.359 2427.485

1375.006 2296.453

1668.177 2186.830

2023.856 2071.138

2455.370 1888.228

2978.890 1812.670

3614.031 1668.809

4384.593 1547.778

5319.449 1495.090

6453.630 1385.643

7829.635 1283.072

9499.023 1282.085

11524.348 1226.638

**Zone 15**

**TAU(us) Magnitudes**

23.729 3089.886

28.789 3123.629

34.927 3067.335

42.374 3104.401

51.408 3059.600

62.369 3041.457

75.667 3049.823

91.801 3039.559

111.374 3040.292

135.120 3005.417

163.930 2910.919

198.882 2951.945

241.286 2890.702

292.732 2832.758

355.146 2772.467

430.868 2727.744

522.736 2669.482

634.190 2560.524

769.408 2491.072

933.457 2376.758

1132.483 2286.599

1373.944 2099.075

1666.889 1994.320

2022.293 1901.821

2453.474 1739.579

2976.589 1636.774

3611.239 1511.552

4381.206 1438.701

5315.340 1350.125

6448.646 1214.470

7823.587 1232.831

9491.686 1179.533

**Zone 16**

**TAU(us) Magnitudes**

21.748 2991.059

26.384 3104.944

32.010 3002.010

38.835 3031.624

47.115 2963.229

57.161 2985.378

69.348 3003.350

84.134 3005.480

102.073 3023.614

123.836 2943.191

150.240 2934.660

182.273 2882.771

221.137 2839.049

268.286 2801.741

325.488 2735.504

394.887 2707.104

479.082 2688.978

581.229 2535.884

705.156 2434.221

855.505 2315.864

1037.910 2241.479

1259.207 2141.692

1527.688 2034.785

1853.412 1833.417

2248.586 1758.627

2728.016 1656.952

3309.667 1586.533

4015.335 1348.930

4871.460 1288.160

5910.124 1224.927

7170.245 1144.257

8699.042 1105.740

**Zone 17**

**TAU(us) Magnitudes**

18.602 2993.492

22.568 2994.869

27.380 2979.889

33.217 3016.247

40.300 2944.761

48.892 2926.665

59.317 2955.038

71.964 2914.463

87.308 2997.799

105.923 2897.981

128.507 2832.586

155.907 2834.881

189.148 2806.386

229.477 2711.838

278.405 2635.683

337.765 2677.589

409.781 2572.706

497.152 2495.338

603.152 2416.695

731.752 2305.449

887.772 2226.712

1077.057 2085.253

1306.701 1955.380

1585.308 1785.002

1923.318 1704.223

2333.396 1497.483

2830.909 1418.059

3434.498 1330.182

4166.781 1234.601

5055.197 1220.099

6133.036 1129.399

7440.685 1104.625

**Zone 18**

**TAU(us) Magnitudes**

15.733 2986.433

19.087 2942.305

23.157 2981.258

28.094 2959.366

34.084 2850.057

41.352 2926.498

50.169 2869.577

60.865 2898.406

73.843 2851.112

89.587 2880.856

108.688 2831.534

131.862 2804.824

159.976 2716.732

194.086 2741.951

235.467 2660.389

285.672 2602.402

346.582 2517.244

420.478 2440.293

510.130 2409.561

618.897 2287.440

750.854 2117.479

910.947 2007.393

1105.173 1919.113

1340.811 1800.691

1626.691 1686.511

1973.525 1539.682

2394.308 1388.333

2904.808 1250.829

3524.153 1241.955

4275.552 1168.590

5187.160 1161.777

6293.135 1077.128

**Zone 19**

**TAU(us) Magnitudes**

13.502 2913.050

16.381 2917.966

19.874 2873.178

24.111 2863.441

29.252 2908.322

35.489 2941.746

43.056 2949.639

52.236 2864.077

63.373 2819.418

76.885 2812.999

93.278 2789.749

113.166 2824.587

137.295 2726.342

166.568 2679.034

202.083 2609.018

245.170 2629.350

297.443 2489.544

360.862 2430.237

437.803 2326.404

531.149 2210.300

644.398 2129.370

781.792 2006.294

948.481 1935.985

1150.711 1792.897

1396.059 1603.815

1693.718 1553.896

2054.842 1363.420

2492.963 1288.716

3024.498 1185.006

3669.364 1146.089

4451.723 1050.730

5400.893 1118.669

**Zone 20**

**TAU(us) Magnitudes**

11.943 2927.970

14.489 2850.089

17.578 2873.685

21.326 2831.174

25.874 2814.904

31.390 2825.596

38.083 2838.128

46.203 2855.299

56.054 2783.078

68.005 2811.144

82.505 2782.684

100.096 2765.772

121.438 2733.321

147.331 2675.527

178.744 2573.403

216.854 2556.039

263.091 2463.330

319.185 2444.930

387.240 2292.279

469.805 2216.379

569.974 2121.560

691.501 2016.417

838.938 1926.368

1017.812 1771.563

1234.823 1682.358

1498.105 1501.963

1817.522 1421.543

2205.043 1301.815

2675.189 1215.802

3245.577 1168.937

3937.579 1078.551

4777.126 1109.909

**Zone 21**

**TAU(us) Magnitudes**

10.521 2816.109

12.765 2811.028

15.486 2846.120

18.788 2898.666

22.794 2853.080

27.654 2819.119

33.551 2807.464

40.704 2776.231

49.383 2778.909

59.912 2665.502

72.686 2723.159

88.184 2706.774

106.986 2668.140

129.797 2624.279

157.471 2563.976

191.046 2532.567

231.780 2459.423

281.199 2335.579

341.154 2304.687

413.893 2193.947

502.141 2120.027

609.204 2007.177

739.095 1864.976

896.680 1698.459

1087.865 1670.784

1319.813 1468.440

1601.216 1346.057

1942.617 1312.798

2356.810 1207.499

2859.315 1158.243

3468.962 1053.800

4208.593 1057.411

**Zone 22**

**TAU(us) Magnitudes**

8.946 2838.566

10.853 2829.730

13.167 2819.856

15.974 2783.711

19.380 2806.800

23.513 2749.431

28.526 2810.484

34.608 2726.882

41.987 2713.956

50.939 2719.089

61.800 2656.970

74.977 2691.260

90.963 2643.236

110.357 2585.861

133.887 2535.309

162.434 2542.687

197.067 2448.471

239.084 2304.191

290.060 2204.668

351.905 2160.106

426.937 2083.232

517.965 1942.930

628.403 1832.878

762.387 1724.976

924.939 1585.811

1122.149 1488.677

1361.407 1366.539

1651.678 1203.759

2003.838 1169.282

2431.085 1139.572

2949.426 1049.119

3578.285 1080.959

**Zone 23**

**TAU(us) Magnitudes**

7.691 2762.220

9.330 2796.790

11.320 2776.190

13.733 2775.365

16.662 2742.229

20.214 2803.097

24.524 2779.941

29.753 2763.149

36.097 2711.231

43.793 2667.402

53.130 2661.098

64.458 2639.066

78.202 2632.274

94.875 2539.656

115.104 2563.005

139.646 2459.444

169.420 2435.361

205.543 2299.807

249.367 2219.815

302.536 2108.948

367.041 2043.207

445.299 1916.360

540.243 1853.125

655.431 1725.133

795.178 1570.586

964.721 1503.212

1170.413 1383.291

1419.961 1273.974

1722.717 1168.811

2090.025 1102.903

2535.647 1068.310

3076.283 1058.317

**Zone 24**

**TAU(us) Magnitudes**

7.227 2775.146

8.767 2757.007

10.637 2763.154

12.905 2781.289

15.656 2791.928

18.994 2699.887

23.044 2710.659

27.957 2701.146

33.918 2670.336

41.150 2670.041

49.924 2663.886

60.569 2669.156

73.483 2612.137

89.150 2598.969

108.158 2532.993

131.219 2516.765

159.197 2382.241

193.140 2372.050

234.320 2223.161

284.280 2182.363

344.893 2054.996

418.429 1955.353

507.644 1816.042

615.880 1745.477

747.195 1607.504

906.507 1495.274

1099.787 1419.810

1334.277 1336.654

1618.764 1204.658

1963.907 1131.449

2382.640 1058.387

2890.652 1002.693

**Zone 25**

**TAU(us) Magnitudes**

6.231 2723.324

7.560 2724.579

9.172 2716.281

11.127 2712.507

13.500 2716.333

16.378 2711.752

19.870 2723.051

24.107 2656.919

29.247 2656.528

35.482 2689.638

43.048 2674.191

52.226 2633.749

63.362 2631.121

76.871 2495.724

93.261 2486.504

113.146 2429.767

137.270 2362.527

166.538 2270.489

202.046 2203.538

245.125 2087.669

297.389 2040.262

360.797 1920.403

437.724 1797.372

531.053 1676.666

644.281 1560.544

781.650 1435.033

948.309 1418.710

1150.502 1267.466

1395.805 1192.363

1693.410 1167.744

2054.469 1080.468

2492.511 988.435

**Zone 26**

**TAU(us) Magnitudes**

5.606 2714.028

6.801 2739.038

8.251 2714.809

10.011 2721.826

12.145 2778.866

14.735 2744.751

17.876 2658.059

21.688 2698.599

26.312 2648.467

31.922 2626.038

38.728 2601.238

46.986 2583.501

57.004 2510.386

69.158 2524.103

83.904 2505.550

101.793 2387.093

123.497 2394.096

149.828 2305.457

181.773 2223.602

220.530 2131.149

267.550 2050.267

324.595 1939.289

393.803 1776.169

477.768 1680.058

579.635 1605.234

703.221 1483.033

853.157 1358.876

1035.063 1295.694

1255.752 1184.897

1523.496 1120.247

1848.327 1081.456

2242.416 1012.559

**Zone 27**

**TAU(us) Magnitudes**

4.881 2704.965

5.922 2699.726

7.185 2681.939

8.716 2676.447

10.575 2706.212

12.830 2670.428

15.565 2698.768

18.884 2658.708

22.910 2597.226

27.795 2677.794

33.721 2647.933

40.911 2575.831

49.634 2623.846

60.216 2560.718

73.055 2516.542

88.631 2446.497

107.529 2327.111

130.456 2235.846

158.270 2259.425

192.016 2082.032

232.956 2003.070

282.626 1931.944

342.886 1785.240

415.994 1705.389

504.690 1560.537

612.297 1525.230

742.847 1365.132

901.232 1279.703

1093.387 1191.837

1326.513 1172.515

1609.344 1116.540

1952.479 1042.026

**Zone 28**

**TAU(us) Magnitudes**

4.642 2732.562

5.632 2715.691

6.833 2687.371

8.289 2712.143

10.057 2658.833

12.201 2716.061

14.802 2637.016

17.959 2667.367

21.788 2637.401

26.433 2615.858

32.069 2598.013

38.906 2566.069

47.202 2600.281

57.266 2547.196

69.476 2495.175

84.289 2460.120

102.261 2406.738

124.064 2309.024

150.516 2231.311

182.608 2115.079

221.543 2036.756

268.779 1948.054

326.087 1810.345

395.613 1705.334

479.963 1538.098

582.298 1481.462

706.452 1427.219

857.077 1278.395

1039.818 1195.314

1261.522 1110.382

1530.496 1057.955

1856.819 1006.343

**Zone 29**

**TAU(us) Magnitudes**

4.353 2703.704

5.281 2666.733

6.407 2697.317

7.773 2648.183

9.430 2674.262

11.441 2642.335

13.880 2580.237

16.839 2617.553

20.430 2599.172

24.786 2591.200

30.070 2561.643

36.482 2517.410

44.260 2515.169

53.697 2522.865

65.146 2473.281

79.036 2392.442

95.888 2343.353

116.333 2257.500

141.136 2202.494

171.229 2102.599

207.737 2006.021

252.029 1915.959

305.766 1798.878

370.959 1687.776

450.053 1536.710

546.010 1498.208

662.427 1349.234

803.666 1271.920

975.019 1176.584

1182.907 1131.846

1435.119 1055.833

1741.106 1004.386

**Zone 30**

**TAU(us) Magnitudes**

3.874 2697.898

4.700 2694.119

5.703 2617.779

6.918 2655.630

8.394 2662.903

10.183 2620.105

12.354 2644.890

14.988 2632.173

18.184 2541.210

22.061 2566.222

26.765 2562.411

32.472 2555.388

39.395 2500.447

47.795 2500.123

57.986 2405.671

70.349 2442.586

85.348 2309.248

103.546 2309.848

125.623 2180.317

152.408 2157.317

184.903 1982.511

224.327 1894.661

272.157 1811.894

330.185 1624.331

400.585 1545.167

485.995 1430.261

589.616 1384.765

715.330 1291.302

867.849 1180.875

1052.886 1082.544

1277.376 1036.320

1549.731 1132.171

**Zone 31**

**TAU(us) Magnitudes**

3.554 2647.479

4.311 2663.605

5.231 2702.832

6.346 2652.339

7.699 2634.442

9.341 2628.109

11.332 2599.381

13.748 2592.159

16.680 2541.327

20.236 2593.788

24.550 2548.250

29.785 2464.306

36.135 2508.447

43.840 2506.680

53.187 2455.427

64.528 2396.976

78.286 2382.953

94.978 2263.080

115.228 2210.537

139.796 2077.846

169.603 1988.672

205.765 1891.303

249.636 1805.365

302.862 1649.725

367.437 1574.909

445.780 1442.040

540.826 1350.837

656.138 1337.575

796.036 1193.745

965.762 1200.932

1171.676 1063.368

1421.493 1004.514

**Zone 32**

**TAU(us) Magnitudes**

3.682 2625.648

4.467 2652.254

5.419 2639.964

6.575 2575.821

7.976 2638.720

9.677 2610.408

11.740 2651.351

14.244 2617.037

17.281 2537.970

20.965 2573.691

25.435 2558.237

30.858 2626.549

37.437 2548.433

45.420 2520.737

55.104 2497.952

66.853 2425.394

81.107 2368.472

98.400 2291.378

119.380 2220.383

144.833 2133.290

175.714 2095.617

213.178 1924.445

258.631 1848.501

313.775 1721.230

380.676 1600.224

461.842 1498.242

560.313 1322.064

679.779 1311.091

824.718 1213.631

1000.559 1149.642

1213.892 1079.190

1472.711 1012.546

**Zone 33**

**TAU(us) Magnitudes**

3.399 2649.220

4.123 2634.309

5.003 2616.219

6.069 2612.903

7.363 2648.517

8.933 2608.442

10.838 2600.513

13.148 2645.443

15.952 2563.488

19.353 2578.980

23.479 2538.764

28.486 2540.274

34.559 2521.671

41.928 2454.298

50.867 2502.614

61.713 2453.656

74.871 2384.548

90.834 2284.313

110.201 2173.813

133.698 2097.096

162.204 2011.693

196.788 1867.598

238.746 1745.345

289.650 1655.257

351.407 1514.334

426.332 1405.942

517.233 1333.401

627.514 1257.930

761.309 1166.328

923.630 1101.162

1120.561 1061.535

1359.480 1005.152

**Zone 34**

**TAU(us) Magnitudes**

3.321 2647.953

4.030 2544.615

4.889 2648.348

5.931 2640.750

7.196 2573.367

8.730 2612.080

10.591 2586.427

12.850 2599.620

15.589 2561.263

18.913 2579.995

22.946 2513.545

27.838 2534.113

33.774 2484.184

40.975 2438.288

49.711 2404.952

60.310 2419.482

73.169 2361.241

88.770 2271.021

107.697 2217.332

130.659 2136.839

158.518 2039.235

192.316 1916.128

233.321 1802.457

283.068 1664.989

343.422 1483.010

416.644 1404.974

505.478 1343.297

613.254 1295.475

744.008 1206.283

902.641 1121.931

1095.096 1088.951

1328.586 974.730

**Zone 35**

**TAU(us) Magnitudes**

3.146 2621.662

3.817 2639.671

4.631 2619.671

5.618 2612.413

6.816 2599.490

8.269 2608.716

10.032 2625.102

12.171 2582.237

14.766 2577.163

17.915 2565.508

21.734 2541.113

26.368 2541.069

31.990 2536.071

38.811 2506.166

47.086 2421.703

57.125 2396.084

69.305 2319.760

84.082 2262.248

102.010 2188.207

123.760 2094.448

150.147 2043.755

182.161 1902.662

221.000 1752.084

268.120 1616.157

325.287 1550.593

394.643 1443.736

478.786 1322.552

580.870 1270.002

704.720 1203.368

854.976 1105.943

1037.269 1031.891

1258.429 1008.054

**Zone 36**

**TAU(us) Magnitudes**

2.866 2604.682

3.477 2630.758

4.219 2591.220

5.118 2654.969

6.210 2620.556

7.534 2615.511

9.140 2617.825

11.089 2599.419

13.453 2572.752

16.322 2597.151

19.802 2554.896

24.024 2478.285

29.146 2538.577

35.360 2506.547

42.900 2464.664

52.046 2399.523

63.143 2361.718

76.606 2298.774

92.940 2206.613

112.756 2122.370

136.797 2022.825

165.964 1854.374

201.350 1757.825

244.281 1650.458

296.365 1519.401

359.554 1459.318

436.216 1295.736

529.223 1262.960

642.061 1211.713

778.958 1100.731

945.042 1103.488

1146.539 1043.621

**Zone 37**

**TAU(us) Magnitudes**

3.070 2553.429

3.725 2570.568

4.519 2592.188

5.483 2612.434

6.652 2579.105

8.070 2620.607

9.790 2557.460

11.878 2556.934

14.410 2574.778

17.483 2541.562

21.210 2536.781

25.733 2503.010

31.219 2495.508

37.876 2482.201

45.952 2462.460

55.749 2428.824

67.636 2410.981

82.056 2276.154

99.552 2234.250

120.778 2120.919

146.529 2042.960

177.771 1955.115

215.675 1862.043

261.660 1702.785

317.449 1559.121

385.134 1480.083

467.250 1341.168

566.874 1256.588

687.739 1230.653

834.375 1117.648

1012.276 1083.247

1228.107 1025.956

**Zone 38**

**TAU(us) Magnitudes**

2.761 2636.770

3.350 2635.788

4.065 2593.698

4.931 2643.495

5.983 2557.985

7.258 2657.151

8.806 2628.367

10.683 2578.578

12.961 2561.316

15.724 2505.122

19.077 2488.560

23.145 2520.909

28.079 2494.129

34.066 2474.536

41.330 2396.697

50.142 2430.669

60.833 2395.999

73.803 2261.175

89.539 2243.871

108.630 2082.988

131.791 2037.715

159.891 1926.868

193.982 1763.030

235.341 1619.008

285.520 1473.185

346.396 1363.333

420.253 1343.766

509.857 1232.387

618.565 1197.869

750.452 1127.751

910.459 1033.478

1104.582 1113.991

**Zone 39**

**TAU(us) Magnitudes**

2.739 2601.948

3.323 2582.765

4.032 2599.158

4.891 2597.325

5.934 2631.818

7.199 2591.537

8.734 2596.737

10.597 2617.860

12.856 2559.213

15.597 2535.752

18.923 2556.904

22.957 2538.133

27.852 2502.318

33.791 2539.491

40.996 2478.293

49.736 2433.226

60.341 2360.809

73.206 2299.105

88.815 2225.192

107.752 2165.574

130.726 2066.382

158.598 1965.969

192.414 1866.628

233.439 1694.210

283.212 1533.725

343.596 1424.230

416.856 1385.531

505.735 1285.863

613.565 1221.097

744.386 1181.009

903.099 1118.141

1095.652 1084.461

**Zone 40**

**TAU(us) Magnitudes**

2.766 2634.099

3.356 2563.973

4.071 2604.131

4.940 2610.561

5.993 2578.004

7.271 2582.945

8.821 2582.744

10.701 2564.590

12.983 2611.806

15.751 2532.784

19.110 2585.997

23.184 2528.818

28.127 2467.700

34.124 2471.152

41.400 2445.310

50.227 2381.213

60.937 2338.052

73.929 2358.373

89.692 2209.765

108.815 2134.420

132.016 2041.285

160.164 1933.139

194.313 1762.371

235.744 1716.910

286.008 1507.625

346.988 1480.784

420.971 1364.797

510.728 1263.600

619.623 1171.453

751.735 1133.408

912.015 1054.895

1106.470 1045.526