

New Mexico Bureau
of
Geology and Mineral Resources

**IMPORTANCE OF GROUNDWATER DEPTH, SOIL TEXTURE AND ROOTING
DEPTH ON ARID RIPARIAN EVAPOTRANSPIRATION**

Volume I

By Behnaum Moayyad

An Independent Study Submitted to the
HYDROLOGY PROGRAM OF THE
EARTH AND ENVIRONMENTAL SCIENCE DEPARTMENT
In Partial Fulfillment of the Requirements
Of the Degree of
MASTER OF SCIENCE
NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

July 2001

TABLE OF CONTENTS

Volume I

| | |
|---------------------------------------------------------------|-----|
| LIST OF MAPS. | vi |
| LIST OF FIGURES. | vii |
| LIST OF TABLES. | ix |
| ABSTRACT. | 0 |
| 1. INTRODUCTION. | 1 |
| 1.1. IMPORTANCE OF EVAPOTRANSPIRATION IN ARID ENVIRONMENTS. | 1 |
| 1.2. QUANTIFYING EVAPOTRANSPIRATION. | 2 |
| 1.3. SCOPE OF PROJECT. | 3 |
| 2. BACKGROUND AND HISTORY. | 5 |
| 2.1. SOUTHWEST VEGETATION AND INVASION OF SALT CEDAR. | 8 |
| 2.2. PREVIOUS STUDIES. | 8 |
| 2.2.1. Major Methods of Study. | 8 |
| 2.2.2. Water Balance Studies. | 10 |
| 2.2.3. Lysimeter Studies. | 12 |
| 2.2.4. Bowen Ratio Studies. | 16 |
| 2.2.5. Eddy-correlation Studies. | 18 |
| 2.2.6. Groundwater Depth and Evapotranspiration Correlation. | 20 |
| 2.2.7. Saltcedar Verses Native Vegetation Evapotranspiration. | 23 |
| 2.2.8. Mowing and Eradication Efforts. | 26 |
| 2.3. OBJECTIVES. | 28 |
| 3. METHODS AND MATERIALS. | 29 |
| 3.1. EXPERIMENTAL SITE. | 29 |

| | |
|---------------------------------------------------------------------------------|----|
| 3.2. FIELD MEASUREMENTS. | 32 |
| 3.2.1. Soil Water Content. | 32 |
| 3.2.2. Groundwater Depth. | 35 |
| 3.2.3. Soil and Water Salinity. | 36 |
| 3.2.4. Evapotranspiration. | 37 |
| 3.2.4.1. <i>Actual evapotranspiration with Eddy-correlation Method.</i> | 38 |
| 3.2.4.2 <i>Reference Evapotranspiration from Weather Station Data.</i> | 39 |
| 3.3. SOIL SAMPLING LABORATORY MEASUREMENTS. | 40 |
| 3.4. HYDRUS 1D MODEL. | 41 |
| 3.4.1. Modeling Evapotranspiration in Virtual Soils. | 42 |
| 3.4.1.1. <i>Groundwater Depth in Virtual Soil Models.</i> | 42 |
| 3.4.1.2. <i>Soil Texture in Virtual Soil Models.</i> | 43 |
| 3.4.1.3. <i>Rooting in Virtual Soils Models.</i> | 44 |
| 3.4.1.4. <i>Weather Virtual Soils Models.</i> | 49 |
| 3.4.1.5. <i>Virtual Soil Model Calibration and Parameterization.</i> | 52 |
| 3.4.2. Modeling Evapotranspiration in Field Soils. | 56 |
| 4. RESULTS AND DISCUSSION. | 66 |
| 4.1. FIELD MEASUREMENTS. | 66 |
| 4.1.1. Groundwater Depths. | 66 |
| 4.1.1.1. <i>Cottonwood Groundwater.</i> | 66 |
| 4.1.1.2. <i>Saltcedar Groundwater.</i> | 68 |
| 4.1.2. Daily Groundwater Depth Fluctuations. | 74 |
| 4.1.3. Soil Water Content. | 78 |
| 4.1.3.1. <i>Saltcedar Soil Water Content.</i> | 78 |
| 4.1.3.2. <i>Cottonwood Soil Water Content.</i> | 86 |
| 4.1.4. Salinity. | 87 |
| 4.1.5. Meteorological Measurements. | 97 |
| 4.1.6. Summary of Field Measurements. | 97 |

| | |
|----------------------------------------------------------------|------------|
| 4.2. VIRTUAL SOIL MODELS. | 98 |
| 4.2.1 Precipitation Events. | 106 |
| 4.2.2. Groundwater Depth. | 107 |
| 4.2.3. Soil Texture. | 107 |
| 4.2.4. Rooting Depth and Pattern. | 110 |
| 4.2.5. Discharge. | 113 |
| 4.3. FIELD SOIL MODELS. | 113 |
| 4.3.1. Seasonal Trends in Measured Evapotranspiration. | 113 |
| 4.3.2. Seasonal Trends in Modeled Evapotranspiration. | 116 |
| 4.3.3. Effect of Groundwater Depth. | 119 |
| 5. SUMMARY AND CONCLUSIONS. | 125 |
| 6. REFERENCES. | 130 |

Volume II

| | |
|-----------------------------------------------------------------------|------------|
| APPENDIX A: DATA FOR VIRTUAL SOIL MODELS. | A-1 |
| A.1. WEATHER INPUT. | A-1 |
| A.2. CLAY SOIL INITIAL CONDITIONS AND PROFILE DISCRITIZATION. | A-17 |
| A.3. LOAM SOIL INITIAL CONDITIONS AND PROFILE DISCRITIZATION. | A-32 |
| A.4. SAND SOIL INITIAL CONDITIONS AND PROFILE DISCRITIZATION. | A-47 |
| A.6. EVAPORATION DATA. | A-62 |
| A.7. TRANPIRATION DATA. | A-83 |
| A.8. GROUNDWATER DISCHARGE DATA. | A-105 |
| A.9. TOTAL EVAPOTRANSPIRATION FLUX DATA. | A-126 |
| APPENDIX B: RESULTS OF FIELD MEASUREMENTS. | B-1 |
| B.1. MEASURED EVAPOTRANSPIRATION. | B-1 |
| B.2. DAILY GROUNDWATER LEVEL DATA. | B-7 |
| B.3. NEUTRON PROBE DATA. | B-28 |
| B.3.1. Water content calibration. | B-28 |

| | |
|---------------------------------------------------------------|------------|
| B.3.2. Soil moisture data. | B-31 |
| B.4. SALINITY DATA. | B-34 |
| B.5. STABLE ISOTOPE DATA. | B-41 |
| APPENDIX C: RESULTS OF BOSQUE DEL APACHE DATA. | C-1 |
| C.1. COTTONWOOD MODEL INPUT. | C-1 |
| C.2. CENTRAL SALTCEDAR MODEL INPUT DATA. | C-10 |
| C.3. SOUTH SALTCEDAR MODEL INPUT. | C-17 |
| C.4. WEATHER INPUT DATA. | C-25 |
| C.5. CENTRAL SALTCEDAR MODEL OUTPUT. | C-43 |
| C.6. SOUTH SALTCEDAR MODEL OUTPUT. | C-82 |
| C.7. SOUTH COTTONWOOD MODEL OUTPUT. | C-126 |

LIST OF MAPS

| | |
|--------------------------------------------------------------|----|
| MAP 1: 1918 Vegetation in the Bosque Del Apache NWR. | 6 |
| MAP 2: Bosque Del Apache Study Site. | 30 |
| MAP 3: Cross-section of Study Area. | 33 |

LIST OF FIGURES

| | |
|-----------------------------------------------------------------|----|
| FIGURE 1: Bare Soil Evaporation. | 22 |
| FIGURE 2: 30 cm Rooting Pattern. | 45 |
| FIGURE 3: 1 m Rooting Pattern. | 46 |
| FIGURE 4: 3 m Rooting Pattern. | 47 |
| FIGURE 5: Anomalous Rooting Pattern. | 48 |
| FIGURE 6: Virtual Soil Model Precipitation. | 53 |
| FIGURE 7: Evapotranspiration Verses Equilibrium Time. | 55 |
| FIGURE 8: South Cottonwood Root Profile. | 58 |
| FIGURE 9: Saltcedar Root Profiles. | 59 |
| FIGURE 10: Bosque Model Precipitation. | 63 |
| FIGURE 11: Central Cottonwood Groundwater Depths. | 67 |
| FIGURE 12: Central Saltcedar Groundwater Depths. | 69 |
| FIGURE 13: North Cottonwood Groundwater Depths. | 70 |
| FIGURE 14: North Saltcedar Groundwater Depths. | 71 |
| FIGURE 15: South Cottonwood Groundwater Depths. | 72 |
| FIGURE 16: South Saltcedar Groundwater Depths. | 73 |
| FIGURE 17: Saltcedar Daily Fluctuations. | 75 |
| FIGURE 18: South Cottonwood 3T Well Daily Fluctuations. | 76 |
| FIGURE 19: SSC2T Average Water Content Profile. | 79 |
| FIGURE 20: SCW2T Average Water Content Profile. | 80 |
| FIGURE 21: CSC2T Soil Water Content. | 81 |
| FIGURE 22: SSC3T Soil Water Content. | 82 |
| FIGURE 23: SCW2T Soil Water Content. | 83 |
| FIGURE 24: SCW2T Soil Water Content. | 84 |
| FIGURE 25: North Cottonwood Groundwater Salinity. | 88 |
| FIGURE 26: South Cottonwood Groundwater Salinity. | 89 |
| FIGURE 27: Central Saltcedar Groundwater Salinity. | 90 |

| | |
|------------------------------------------------------------------------------|-----|
| FIGURE 28: South Saltcedar Groundwater Salinity. | 91 |
| FIGURE 29: Central Saltcedar Average Electrical Conductivity Values. | 93 |
| FIGURE 30: South Saltcedar Average Electrical Conductivity Values. | 94 |
| FIGURE 31: South Cottonwood Average Electrical Conductivity Values. | 95 |
| FIGURE 32: Virtual Soil Models with Constant Reference ET. | 101 |
| FIGURE 33: Virtual Soil Models with Bosque Weather. | 103 |
| FIGURE 34: Average ET for Constant Reference ET Models. | 108 |
| FIGURE 35: Average ET for Bosque Weather Models. | 109 |
| FIGURE 36: Rooting Pattern Effect on ET. | 111 |
| FIGURE 37: Measured Bosque 1999 Evapotranspiration. | 114 |
| FIGURE 38: Model SSCMat 10 Day Evapotranspiration Results. | 115 |
| FIGURE 39: Model CSCMat 10 Day Evapotranspiration Results. | 117 |
| FIGURE 40: Model SCWMat 10 Day Evapotranspiration Results. | 118 |
| FIGURE 41: Effect of Water Depth on ET in CSC Models. | 121 |
| FIGURE 42: Effect of Water Depth on ET in SSC Models. | 122 |
| FIGURE 43: Effect of Water Depth on ET in SCW Models. | 123 |

LIST OF TABLES

| | |
|-------------------------------------------------------------------------------------------------------------------|-----|
| TABLE 1: McDonald and Hughes (1960) Lysimeter Study Data. | 14 |
| TABLE 2: Robinson (1970) Lysimeter Study Data. | 15 |
| TABLE 3: van Hycklama (1974) Lysimeter Study Data. | 17 |
| TABLE 4: Carman (1993) Evapotranspiration Study Data. | 19 |
| TABLE 5: Weaver et al. (1986) Evapotranspiration Data. | 21 |
| TABLE 6: Average Yearly Evapotranspiration for Various Arid Region Phreatophytes Other than Saltcedar. | 24 |
| TABLE 7: Average Yearly Evapotranspiration for Saltcedar in Various Arid Regions. | 25 |
| TABLE 8: Virtual Soil Model Description. | 50 |
| TABLE 9: Virtual Soil Model Profile Discretization. | 54 |
| TABLE 10: Total Evapotranspiration Flux Verses Equilibrium Time. | 57 |
| TABLE 11: Saltcedar Model Feddes Root Uptake Parameters. | 61 |
| TABLE 12: Cottonwood Model Feddes Root Uptake Parameters. | 62 |
| TABLE 13: Bosque Model Organization. | 65 |
| TABLE 14: Table of Total Fluxes for Theoretical Models Using Constant Reference Evapotranspiration. | 99 |
| TABLE 15: Table of Total Fluxes for Theoretical Models Using Bosque Climate Data. | 103 |
| TABLE 16: Table of Total Fluxes for Bosque Models. | 120 |

ABSTRACT

Water resources in the Southwest are very limited for a population that has grown by 24% in the past 10 years. For optimal water resource and wilderness management it is of great importance to quantify evapotranspiration of arid riparian vegetation. Saltcedar and other phreatophytes have been reported to consume large amounts of fresh water. However this study shows that groundwater depth and soil textures are more important in the determination of evapotranspiration rate than is vegetation. The Bosque Del Apache Refuge in Central New Mexico along the Rio Grande is used as an experimental site where evapotranspiration was measured in cottonwood-willow-grass (90.4 cm/y evapotranspiration) and dense saltcedar (132.5 cm/y evapotranspiration) plots. Measurements of soil water content, soil salinity, groundwater salinity and groundwater depths were made in the experimental sites of cottonwood and saltcedar stands. Transpiration rates between the two vegetation communities are comparable if the effects of soil textural differences, groundwater depths and flooding were accounted for. The computer model Hydrus 1D was used to investigate the manner in which actual evapotranspiration depends on soil texture (clay, loam or sand), groundwater level (1, 2, or 5 m depth), rooting depth (0.3 m, 1 m, or 3 m) and reference evapotranspiration (6 mm/day or variably calculated from weather data). Analysis of 75 virtual soil models shows that: (i) groundwater depth is most strongly correlated to evapotranspiration rate, (ii) fine soils hold more water and allow for more evapotranspiration, and (iii) deeper rooted vegetation transpires more than shallow rooted vegetation. Hydrus 1D models were then created for the experimental sites. These models were calibrated to measured evapotranspiration, soil and vegetation parameters, and then groundwater depths were augmented. Groundwater depth was shown to correlate stronger to evapotranspiration than any soil or vegetation parameter.

1. INTRODUCTION

1.1. IMPORTANCE OF EVAPOTRANSPIRATION IN ARID ENVIRONMENTS

Evapotranspiration is a very important part of the water balance and of the fresh water cycle. It is estimated that globally 71,400 km³ or 480 mm of water evaporates from the land surface every year (Baumgartner & Reichel, 1975). Evapotranspiration affects the climate, soils and vegetation as well as streams and groundwater.

Evapotranspiration partially determines the amount of water in the air. This changes atmospheric heat and vapor transport. Thus, evapotranspiration can affect regional climate and weather. Evapotranspiration can also interact with microclimates. For example, a forest grove and clearing will have different air and soil temperatures and water contents partially as a result of differences in evapotranspiration rates.

Soils and vegetation are the medium through which water moves to the atmosphere over land. Plants have various properties that determine how much water they draw from soils. A healthy plant's physiological adaptations to the environment and its growth rate will determine its ability to remove water from soils, and the ease with which a plant will yield water to the atmosphere. Soil water content, texture, and structure will have the most effect on evapotranspiration rates.

Evapotranspiration can remove great amounts of water from streams and lakes in arid regions in particular. It can also be a discharge for shallow groundwater and severely limit groundwater recharge. Thus, the small amounts of freshwater inflow in arid environments are greatly diminished by evapotranspiration. Quantification of evapotranspiration is very important in the determination of other water balance parameters, because of the great effect of evapotranspiration on fresh water systems. Calculations of runoff, and groundwater recharge can be drastically effected by actual evapotranspiration values (Hendrickx & Walker, 1997).

Groundwater recharge in particular is very sensitive to actual evapotranspiration rates. In arid environments this is particularly so, because the values of groundwater recharge are on the order of the error values of precipitation minus evapotranspiration. Therefore, better determination of actual evapotranspiration is critical for determination of groundwater recharge.

In arid regions, fresh water is a rare commodity, and the loss of the water to the atmosphere has a very serious human impact. Human populations in the arid Southwest of the US are growing rapidly. From 1990 to 1999, the population of Arizona, Colorado, New Mexico, Nevada, and Utah grew 24% from 11.451 to 14.513 million (US Census Bureau, 1999). Consequentially the water resources in the Southwest continue to be important as water resources dwindle. Understanding more about evapotranspiration trends may help reduce this loss in the future. A more accurate evaluation of evapotranspiration may also be helpful for water management strategies.

Evapotranspiration is also important for irrigation and agriculture as well as for wilderness management. A good understanding of evapotranspiration is important for crop management as it is tied to plant health and productivity. Knowledge of water loss is important for irrigation schemes and minimization of evapotranspiration with techniques such as drip irrigation may be beneficial. Forest fire prevention and minimization of evapotranspiration losses in wetlands and riparian systems can be very important in the West. Studies of evapotranspiration may also help manage lands and surface waters such that salinization is minimized.

1.2. QUANTIFYING EVAPOTRANSPIRATION

Though the study of evapotranspiration is important, obtaining accurate and reliable data can be very difficult. The measurement of evapotranspiration fluxes can be difficult because of the nature of, and high degree of variability within measurable parameters. Evapotranspiration depends on various factors that vary in time and space such as climate, soil properties and vegetation. Each of these parameters may be highly variable in both time and space. These parameters can be averaged over time, however the hysteretic nature of fluid flow in soils and vegetation would produce inaccurate calculations of evapotranspiration.

Weather parameters such as wind, solar radiation and temperature can change an order of magnitude in less than a day (Allen et al., 1998). Solar radiation and temperature vary in daily and seasonally sinusoidal manner, as opposed to precipitation, which is more sporadic and less predictable. Variations in soil parameters such as texture, structure, stratigraphy, and wetness may induce relatively large differences in evapotranspiration rates. Soil properties as well as vegetation properties have a strong effect on the spatial variability of evapotranspiration. Vegetation species, spatial distributions, density, orientation and leaf area can have an effect on spatial patterns of evapotranspiration. Vegetation parameters such as growth rate, maturity, rooting depth, and health also effect temporal variations in evapotranspiration rates.

Another complication in the measurement of evapotranspiration data is the nature of the data itself. Some properties are physically difficult to measure. Heat fluxes and water vapor fluxes in particular are difficult to physically measure accurately (Jensen et al., 1990). Methods have been devised that measure water vapor density. However, water vapor moves upward mostly through turbulent mixing of air with the help of wind (Jensen et al., 1990). Thus, the net movement of water in air is difficult to ascertain.

1.3. SCOPE OF THIS PROJECT

The objective of this study is to evaluate groundwater depth, soil texture, crop rooting depth and precipitation as factors effecting evapotranspiration in an arid riparian area of New Mexico. These factors will be evaluated to determine their influence on evapotranspiration.

First, measured data reported in the literature is analyzed to determine correlations and patterns involved with the factors affecting evapotranspiration. Groundwater level, salinity and soil moisture data is analyzed to determine seasonal trends, and groundwater level data is used to analyze daily trends. Next, Hydrus 1D was used to create 75 virtual soil models, which can be used to identify, rank and analyze some of the factors effecting evapotranspiration. These 75 evapotranspiration models in virtual soils show the relative importance of and patterns of soil texture, rooting depth, and groundwater level with respect to evapotranspiration. Finally, Hydrus 1D was used to model evapotranspiration from saltcedar and cottonwood stands in the Bosque

del Apache, New Mexico. Climate, vegetation, soil and groundwater data taken at the site are used to simulate evapotranspiration. The model is calibrated to measured evapotranspiration and then the groundwater level is augmented producing 18 models, which will be used to determine the effect on evapotranspiration.

2. BACKGROUND AND HISTORY

2.1. SOUTHWESTERN VEGETATION AND INVASION OF SALT CEDAR

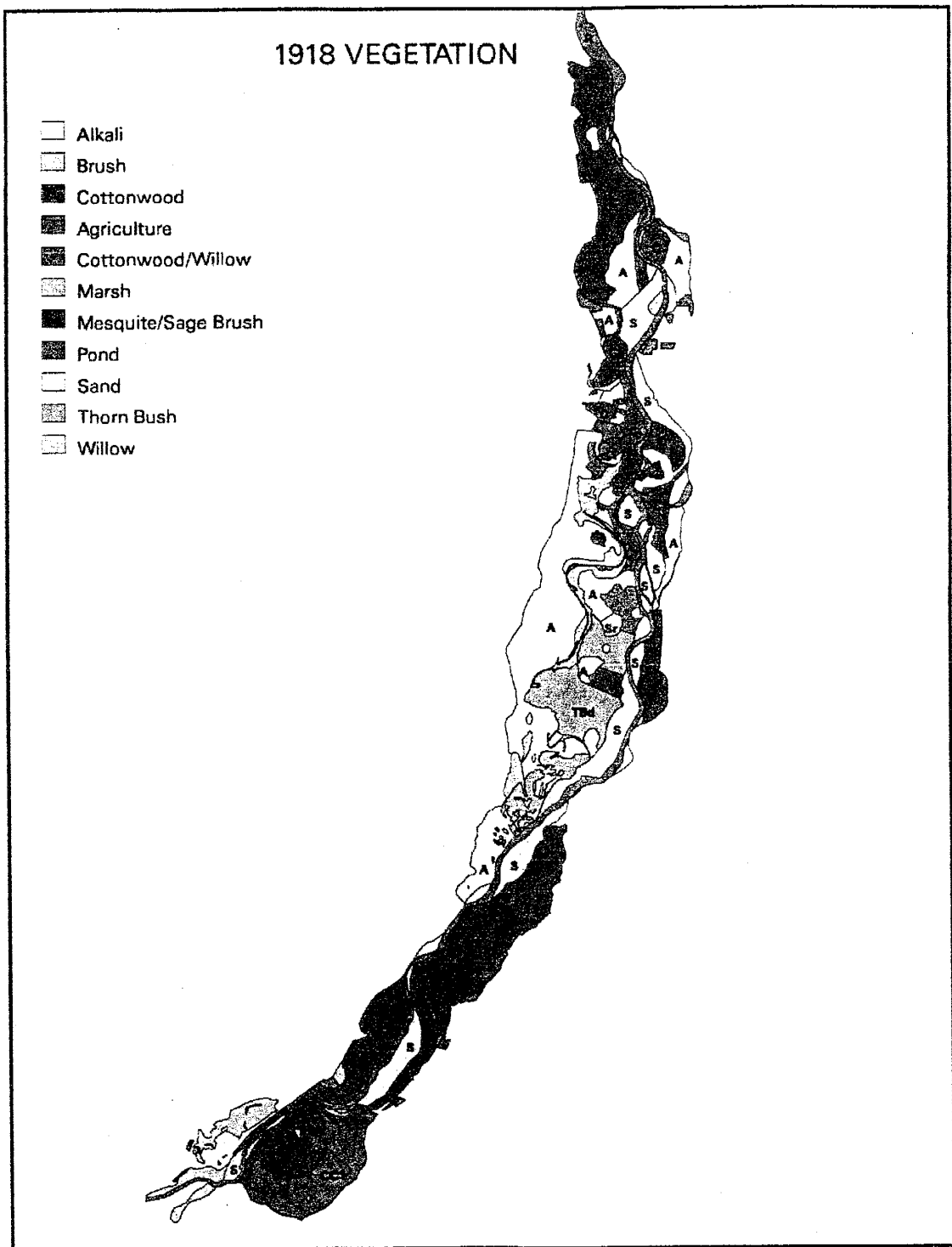
In the arid Southwest, most plants may be classified as phreatophytes, xerophytes and halophytes. Halophyte species are adapted to saline or alkali soils, and are found along playas and other saline soils (Robinson, 1958). Xerophyte species adapted to drought, and survive on scant and infrequent rain, and are common across deserts (Robinson, 1958). Phreatophytes are unlike other classes in that they tap groundwater resources instead of relying only on soil water and precipitation (Robinson, 1958). These plants are found along irrigated lands, water canals, and natural drainage basins (Robinson, 1965).

Phreatophytes can consume large amounts of fresh water because of their ability to use groundwater (White, 1932; Robinson, 1958). This has prompted research interest in phreatophytes in the Southwest. The most common types of phreatophytes in the Southwest are alfalfa, saltcedar, mesquite, willow, cottonwood, greasewood, rabbitbrush, pickleweed and saltgrass (Robinson, 1958).

Previously, a great diversity of phreatophytes and xerophytes existed along desert streams (Map 1). These ecological systems change over time with climatic and stream flow cycles in complex patterns (Turner, 1974; Robinson, 1965). A great many riparian systems in the Southwest have changed. Many streams in the Southwest have thinned and have become more channelized and single-species saltcedar cedar stands have replaced many riparian vegetation systems (Turner, 1974; Robinson, 1965).

Stream channels will narrow naturally when flows decrease. This may happen when precipitation decreases or as water use increases. People have channelized streams to control flow and/or decrease flooding of fertile valley lands. Streams may become more channelized when dense vegetation (saltcedar in particular) holds banks and clogs overflow channels (Turner, 1974). The results of smaller stream channels and clogged overflow channels is a decrease in

Map 1. 1918 Vegetation in the Bosque Del Apache National Wildlife Refuge †



† This map illustrates the diversity in vegetation communities that existed previous to the invasion of saltcedar species.

flood frequency but an increase in the extent and damage of floods (Turner, 1974; Robinson, 1965).

A more dramatic change in the riparian areas of the Southwest is the invasion of saltcedar. There are approximately 75 species of saltcedar (*Tamarix sp.*) however, only a few species are a serious ecological and water consumptive threat (Robinson, 1965; Cuningham et al., 1973; Weeks et al., 1987). The origin of and route to the United States of saltcedar is in question.

Various species of saltcedar may have originally come from the Mediterranean region, the Mid-East and/or Asia (Robinson, 1965). One or more species may have accompanied Spanish explorers in the 16th century (Robinson, 1965). *Tamarix* species seem to have been very rare in the New World before the 20th century; few records of their presence in the United States existed until 1854 (Robinson, 1965). The plants were used as garden ornamentals and for hedges in the later 1800s and early 1900s.

The negative affects of *Tamarix sp.* on surface water and soils were not recognized early on. In fact a *Tamarix* species was planted along the Rio Puerco and Rio Salado (tributaries to the Rio Grande) in the 1920s for erosion control and was also noted along the Pecos River in 1912 in New Mexico (Robinson, 1965). *Tamarix sp.* began to appear lightly dispersed along some streams in a few Southwest states in the 1920s and 1930s. Over the past 40 years, the plants spread dramatically.

Since the 1960s *Tamarix sp.* can be found wild in Arizona, New Mexico, Texas, Oklahoma, Kansas, Colorado, Utah, California, Nevada, Oregon, Idaho, Montana, and Wyoming (Robinson, 1965). The plants have become the dominant species of many stream banks in the Southwest, and have even spreading to cooler and more humid areas.

There are several properties of the widespread *Tamarix* species that allow for their domination of riparian portions of the Southwest. Saltcedar produce prodigious amounts of seed and grow in very dense thickets (Robinson, 1958; Robinson, 1965). This allows the vegetation to seed more soils and choke-off competing vegetation. The speed of saltcedar growth is remarkable when water is not limiting (as observed in the experimental field sites by Darold

Roland, Behnaum Moayyad and Salim Bawazir). This allows saltcedar to out-compete other seedlings. Another important property of these species is their ability to survive in somewhat saline environments (Robinson, 1958). In fact, saltcedar species concentrate salts in soils by dropping leaves with high salt concentrations, and by transpiring large quantities of water (Hem, 1967; Robinson, 1965). These adaptations allow the plants to create environment toxic to some competing species. Some species of saltcedar with these properties are *T. pendandra*, *T. chinensis*, and *T. ramosissima* (Robinson, 1965; Devitt et al., 1998; Weeks et al., 1987)

The adaptations that allow these species to grow and spread rapidly make the plants high water consumers. Evidence of high water consumption by saltcedar and other phreatophytes spurred on research of evapotranspiration in riparian systems in the Southwest. Some of this research prompted policies of phreatophyte control and eradication along southwestern streams. Certainly saltcedar has negative effects on native ecology, flood management and water resources. However, further studies are necessary to aid proper and effective surface water and wilderness management.

2.2. PREVIOUS STUDIES

2.2.1. Methods Most Often Used to Study Evapotranspiration

There are various methods to measure or estimate evapotranspiration. The first measurement strategies that were developed were based on a mass or volume balance on the surface and in the subsurface. Principally, these methods used the water balance approach (van Hylckama, 1980):

$$\text{Evapotranspiration} = \text{Inflow} - \text{Outflow} \pm \Delta\text{Storage} \quad (1)$$

The fluxes in the above equation have units of mm/day. Large-scale studies use the water balance approach to measure evapotranspiration for entire drainage basins or sections of drainages (Jensen et al., 1990). Smaller-scale studies use lysimeter tanks to enclose the system

of study. The tanks can be meters to hundreds of meters squared in aerial dimension. The inflows and outflows of the system of study are systematically monitored and regulated such that the evapotranspiration of the lysimeter tank or basin can be calculated, as a residual (Jensen et al., 1990).

Other traditional methods for estimating evapotranspiration include the salt balance and transpiration well methods. The salt balance method works on the principle that concentrations of dissolved salts (in particular sodium chloride) increase from the concentrations in precipitation due to evapotranspiration, which removes pure water to the atmosphere. Therefore, chemical concentrations of rain and groundwater can be used to calculate both overall recharge and evapotranspiration. The transpiration well is used to measure shallow groundwater levels over daily periods. The amplitude of the daily fluctuation of the groundwater depths in these wells is used to calculate the daily water loss from the groundwater due to evapotranspiration (Gatewood et al., 1950).

More recently, measurement strategies have been developed to calculate evapotranspiration through surface energy budgets. Latent heat is the energy produced from the volatilization of water due to evapotranspiration. The latent heat can be calculated as a residual of the surface energy balance (Jensen et al., 1990):

$$LE = R - H - G \pm A \quad (2)$$

$$ET = LE/(\rho_w \lambda_v) \quad (3)$$

Where LE = latent heat flux [W/m^2], R = net radiation [W/m^2], H = sensible heat flux [W/m^2], G = ground heat flux, A = advected heat flux [W/m^2], ET = evapotranspiration rate [m/s], ρ_w = density of water [kg/m^3] and λ_v = heat of vaporization [J/Kg]. Energy balance calculations may develop relatively large errors, because of the complexity of atmospheric transport (Gay, 1986).

The Bowen Ratio method uses a ratio of sensible heat/latent heat coefficients, in such a way that the transport coefficients cancel out (Jensen et al., 1990). Thus, field measurements are made more simply and accurately. The equations are as follows (Jensen et al., 1990):

$$LE = (R - G \pm A)/(1+B) \quad (4)$$

$$B = H/LE = \gamma^*(\Delta T/\Delta e) \quad (5)$$

Where B = Bowen Ratio [-]; L , R , G and A are in units of W/m^2 ; γ = psychrometric constant [$Pa/^\circ C$]; ΔT = change in temperature from the canopy to 3 m above the canopy [$^\circ C$]; and Δe is the difference in vapor pressure of water from the vegetation level to above in the ambient atmosphere [Pa].

The third major measurement strategy is based on measuring vertical vapor fluxes as a direct measure of evapotranspiration. This is accomplished by: (i) Simultaneous measure of vertical wind and vapor pressure (eddy-correlation), (ii) Sonic measurement of vapor flux (sonic anemometer), and/or (iii) Laser measurement of vapor flux (LIDAR). LIDAR (light detection and ranging) is a system designed to scan the air over a given study area in order to produce a three-dimensional map of water vapor and estimate vapor fluxes over time by refractive indexing (Cooper, 1997). These measurement techniques often involve simultaneous measurements of surface energies as part of the method or to compliment and check the measurements. The eddy-correlation method is the most common and well-tested method of this type.

2.2.2. Water Balance Studies

Water balance studies can be simple calculations or very broad and extensive projects. Evapotranspiration can simply be calculated as the difference between precipitation and net runoff (stream outflow). Alternatively, soil moisture, groundwater flow, and surface flow can be spatially and temporally correlated with atmospheric data to calculate evapotranspiration as a function of time and space.

Bowie and Kam (1968) and Hendricks (1960) studied evapotranspiration from a 6.6 km stretch of Cottonwood Wash in Arizona. The upper 4.2 km reach was less densely populated by cottonwood and willow than was the lower 2.4 km reach. Water balance calculations neglected soil water content and groundwater flow to determine evapotranspiration (Hendricks, 1960; Bowie & Kam, 1968). Evapotranspiration values calculated in this study are relatively low for these species in the arid West yet consistent with values measured in the Bosque del Apache: average April to September daily evapotranspiration is 0.393 cm/day, maximum actual evapotranspiration (from monthly data) is 0.785 cm/day, and average yearly total evapotranspiration is 111.63 cm/y (Hendricks, 1960; Bowie & Kam, 1968).

Culler et al. (1976) used a water balance method to study evapotranspiration from saltcedar and mesquite for the Gila River Phreatophyte Project in Arizona. The study area is 24 km long and involves a tremendous amount of measurements. Their water balance equation involves: precipitation, stream flow and stream storage components, three soil moisture components, and three groundwater flow components (Culler et al., 1982):

$$ET = Q_I - Q_O + Q_T + \Delta C + P_A + \Delta \bar{M}_S + \Delta \bar{M}_I + \Delta \bar{M}_C + G_B + G_I - G_O + \Delta \bar{M}_{TC} \quad (6)$$

Where ET = evapotranspiration [m^3], Q_I = surface inflow of the Gila River [m^3], Q_O = surface outflow of the Gila River [m^3], Q_T = surface inflow of the Gila River tributaries [m^3], ΔC = change in Gila River channel storage [m^3], P_A = average precipitation on the area [m^3], $\Delta \bar{M}_S$ = average change in water content in the uppermost unsaturated zone of soils [m^3], $\Delta \bar{M}_I$ = average change in water content in the middle unsaturated zone [m^3], $\Delta \bar{M}_C$ = average change in water content in the capillary fringe of the unsaturated zone [m^3], G_B = groundwater inflow from depth [m^3], G_I = groundwater inflow from saturated alluvium [m^3], G_O = groundwater outflow from alluvium [m^3], and $\Delta \bar{M}_{TC}$ = lateral groundwater flow through the capillary zone from adjacent terrace.

Compared to other studies of these species, the evapotranspiration values are low (Culler et al., 1982): average April to September daily evapotranspiration is 0.285 cm/day, maximum actual

evapotranspiration (from monthly data) is 0.55 cm/day, and average yearly total evapotranspiration is 72.5 cm/y.

Hanson and Dandy (1976) evaluated the accuracy of the water balance calculations at the Gila River Project. They found that errors are of the same order (40 to 200%) as the evapotranspiration values calculated by Culler et al. (1982). This is due to the culmination of the relatively large sampling errors. However, the trends seem to be more accurate, and one may have more confidence in the average values than error values indicate because the nature of the errors seems to have added noise to the data, which can be somewhat diminished by averaging data (Hanson & Dandy, 1976).

Welder (1988) studied water consumption by saltcedar along a 132 km stretch of the Pecos River in New Mexico. No specific evapotranspiration values were calculated, but changes in stream flow were evaluated to indicate evapotranspiration trends. This project specifically studies the effects of vegetation modification and eradication in attempts to reduce consumptive losses. Gateway et al. (1950) also used various water balance approaches in their studies of evapotranspiration in the 1930s and '40s. Although these researchers use very sound methods available at the time, the results are presented on a volumetric basis are not readily comparable to other results presented here.

Water balance studies are very inaccurate for regional scale studies, and may require a great deal of measurements. These techniques seem to have become out-dated, although the water balance approach still is valid for small-scale work, such as with the lysimeter method.

2.2.3. Lysimeter Studies

Lysimeters provide a very controlled and direct way to measure evapotranspiration. Precipitation is monitored, and groundwater levels can be maintained. All inflows and outflows can be measured so that the residual is evapotranspiration. The drawback is that the natural environment or a segment of that environment must be recreated within the lysimeter. It is often a difficult task to try to recreate soil and vegetation characteristics that mimic a natural environment.

Gateway et al. (1950) use small lysimeters to study evapotranspiration from saltcedar, cottonwood, and willow in Arizona. Some of these early lysimeters were the size of large planting pots, only large enough to accommodate the roots of single plants (Gateway et al., 1950). These researchers used almost every method available to that date and evaluated each method. They found that all the methods contained a large amount of error, yet the results were comparable, and that lysimetry tended to produce the largest evapotranspiration rates (Gateway et al., 1950). These are some of Gateway et al. (1950) lysimeter results: saltcedar average yearly total evapotranspiration is 123 cm/y, cottonwood/willow average yearly total evapotranspiration is 233 cm/y, willow average yearly total evapotranspiration is 138 cm/y, and mesquite average yearly total evapotranspiration is 83 cm/y.

McDonald and Hughes (1960) conducted a lysimeter study of small to mid-sized phreatophytes along the lower Colorado River near Yuma, Arizona. The lysimeters for this time were of relatively large size (2X2m, depth not given), yet these researchers state that the lysimeters are not large enough or designed to study large phreatophytes such as willow, saltcedar or cottonwood (McDonald & Hughes, 1960). Table 1 shows the results of the study (McDonald & Hughes 1960). This study shows that some grasses can consume more water than the phreatophyte quailbrush, and more than twice as much as the xerophyte fourwing saltbrush can.

Robinson (1970) conducted a lysimeter study of woody phreatophytes along the Humboldt River in Nevada. Greasewood, willow, wildrose and rabbitbrush were grown in large (3X3X2 to 9X9X5 m) lysimeters, which allowed for a more accurate study of large brushy vegetation. Table 2 shows some of the results (Robinson, 1970). Water content profiles indicate that greasewood and wildrose draw most of their water from the unsaturated portions of soils. Because willow and rabbitbrush draw water from the groundwater they have the ability to become greater consumers of water.

Van Hylckama (1974) used lysimeters to study evapotranspiration from saltcedar, and the effects of salt cedar control along the Gila River in Arizona. Large (9X9 m) tanks with sandy soils and various groundwater levels were used. The data show some correlation of water level

Table 1. Results of McDonald and Hughes (1960) lysimeter studies on the phreatophytes and grass listed below in Yuma, Arizona, along the lower Colorado River are shown below.

| Vegetation | | Vegetation Height | Ground-water Depth | Average April to Sept. Daily ET † | Max. ET (from Monthly Data)‡ | Avg. Yearly Total ET§ |
|--------------------|-----------------------------|-------------------|--------------------|-----------------------------------|------------------------------|-----------------------|
| Common Name | Scientific Name | | | | | |
| | | m | m | cm/day | cm/day | cm/y |
| Arrowweed brush | <i>Pluchea ser</i> | 1-2.5 | 1.6-1.7 | 1.03 | 2.16 | 242 |
| Quailbrush | <i>Atriplex lentiformis</i> | 0.5-1.6 | 1.6-1.75 | 0.423 | 0.75 | 96.7 |
| Fourwing Saltbrush | <i>Atriplex canescens</i> | Short brush | 1.6-1.75 | 0.315 | 0.51 | 72.4 |
| Bermuda grass | <i>Cynodon dactylon</i> | Short grass | 1.1 | 0.836 | 1.21 | 177 |

† Average evapotranspiration rate during the hottest summer months when evapotranspiration rates are at their peak.

‡ Maximum evapotranspiration rate. Results were reported as monthly rates and were converted to daily rates for ease of comparison. These values should serve as conservative estimates of maximum evapotranspiration rates.

§ Average yearly evapotranspiration rate for all years of study.

Table 2. Robinson (1970) conducted lysimeter studies on the phreatophytes below along the lower Humboldt River, in Nevada.

| Vegetation | | Vegetation height | Ground-water Depth | Average May to Oct. Daily ET† | Avg. Yearly Total ET‡ |
|-------------|--------------------------------|-------------------|--------------------|-------------------------------|-----------------------|
| Name | Scientific Name | cm | m | cm/day | cm/y |
| Greasewood | <i>Sarcobatus vermiculatus</i> | 36-69cm | 1.5-2.3m | 0.316cm/day | 40.1cm/yr |
| Rabbitbrush | <i>Chrysothamnus</i> | 39-72cm | 1.5-1.9m | 0.386cm/day | 50.7cm/yr |
| Willow | <i>Salix</i> | 86-174cm | 1.25-1.8m | 0.694cm/day | 86.5cm/yr |
| Wildrose | <i>Rosa</i> | 36-86cm | 1.3-1.9m | 0.25cm/day | 48.0cm/yr |

† Average evapotranspiration rate during the hottest summer months when evapotranspiration rates are at their peak.

‡ Average yearly evapotranspiration rate for all years of study.

to evapotranspiration. The study also shows how build-up of salts decreased evapotranspiration. Table 3 shows some of the van Hylckama (1974) results.

Lysimeter techniques are accurate and reliable. The method is very useful in studying crop evapotranspiration on the small scale in a very controlled manner. The results from the studies are difficult to extrapolate to large regions because the method does not sample enough of the environment to account for variability, and does not recreate natural soil structure and stratigraphy well.

2.2.4. Bowen Ratio Studies

Instead of attempting to measure actual water flows in a system, one can measure energy fluxes and vapor fluxes to determine evapotranspiration. A great advantage of these methods is that the natural systems need not be disturbed for the measurements. These methods are primarily the Bowen ratio and eddy-correlation methods. There is some flexibility within these methods as to the scale of study, and they are generally implemented at scales intermediate between lysimeter and regional water balance studies.

Gay (1986) conducted a Bowen Ratio evapotranspiration study along the lower Colorado River in Arizona in saltcedar stands from 1980 to 1981. He compared the measured evapotranspiration to potential evapotranspiration as calculated by the Penman equation and found that the saltcedar evapotranspiration never surpassed the potential evapotranspiration (Gay, 1986). The evapotranspiration values are median to high values, for *Tamarix chinensis* in Arizona in the sandy soil, shallow groundwater system (Gay, 1986): average April to September daily evapotranspiration is 0.86 cm/day, maximum actual evapotranspiration (from monthly data) is 1.1 cm/day, and average yearly total evapotranspiration is 173 cm/y.

Devitt et al. (1998) used the Bowen Ratio method to determine evapotranspiration from another variety of saltcedar, *Tamarix ramossisima*. The study was conducted along the Virgin River in southern Nevada from 1994 to 1996. Although previous works had shown that saltcedar evapotranspiration could be as high as twice the potential evapotranspiration, this research shows that saltcedar evapotranspiration never surpassed potential evapotranspiration as

Table 3. van Hylckama (1974) conducted lysimeter studies on the saltcedar along the Gila River, in Arizona, using groundwater depth as a variable.

| Saltcedar Evapotranspiration Rates | | | |
|------------------------------------|--------------------|-------------|------------|
| | Groundwater depth: | | |
| | 1.5m | 2.1m | 2.7m |
| Average Apr-Sept daily ET, cm/day | 0.958cm/day | 0.671cm/day | 0.43cm/day |
| Average yearly total ET, cm/y | 215.6cm/yr | 149.4cm/yr | 96.6cm/yr |

calculated by the Penman equation (Devitt et al., 1998). In fact Devitt et al. (1998) found that saltcedar water usage was similar to watered grass, and that saltcedar removal would not salvage substantial quantities of water. In 1994 the drought lowered evapotranspiration (Devitt et al., 1998): average April to September daily evapotranspiration is 0.34cm/day, maximum actual evapotranspiration (from monthly data) is 0.77 cm/day and yearly total evapotranspiration is 75 cm/y. In 1995 the vegetation began to recover. In 1996 a more open saltcedar canopy caused increased evapotranspiration rates because of increased advection and heat loss (Devitt et al., 1998): average April to September daily evapotranspiration is 0.68 cm/day, maximum actual evapotranspiration (from monthly data) is 1.12 cm/day and yearly total evapotranspiration is 145 cm/y.

2.2.5. Eddy-correlation Studies

Carman (1983) studied evapotranspiration from two phreatophytes in Nevada using eddy-correlation and Bowen ratio methods and compared these to Penman potential evapotranspiration calculations. Evapotranspiration rates of rabbitbrush in Smith Creek Valley, and greasewood in nearby at Soda Lake were studied. The research generally agrees with Robinson's lysimeter work (Carman, 1993). Carman found that eddy-correlation measurements (Table 4) were generally lower than the Bowen ratio measurements, possibly due to the difficulty of accurately measuring very slow and/or very fast wind speeds and turbulent fluctuations in wind (Carman, 1993).

Weaver et al. (1986) used the energy balance, Bowen ratio and eddy-correlation methods to determine evapotranspiration rates from saltcedar and replacement vegetation (grasses and forbs) along the Pecos River in New Mexico. The latent heat determined from the energy balance was used as a maximum or potential evapotranspiration for comparison with values obtained by Bowen ratio and eddy-correlation methods. Eddy-correlation values were significantly and consistently lower than Bowen ratio values (Weaver et al., 1986). However, eddy-correlation measurements were within approximately 10% error (Weaver et al., 1986). This work shows that attempts to reduce evapotranspiration by mowing and burning saltcedar may in

Table 4. Carman (1993) conducted lysimeter studies on Rabbitbrush and Greasewood in Smith Creek Valley and Soda Lake, Nevada. Some results are listed below.

| Rabbitbrush Vegetation | | | |
|-----------------------------------|------------------------------------------------|---------------|--------------|
| | Method Used for Evapotranspiration Measurement | | |
| | Eddy-correlation † | Bowen ratio † | Penman PET ‡ |
| Average Apr-Sept daily ET, cm/d § | 0.18 | 0.21 | 1.11 |
| Maximum daily ET, cm/d ¶ | 0.42 | 0.31 | 1.73 |
| Yearly total ET, cm/y # | 32 | 52 | 200 |
| Greasewood Vegetation | | | |
| | Method Used for Evapotranspiration Measurement | | |
| | Eddy-correlation † | Bowen ratio † | Penman PET ‡ |
| Average Apr-Sept daily ET, cm/d § | 0.12 | 0.14 | 0.89 |
| Maximum daily ET, cm/d ¶ | 0.27 | 0.19 | 1.57 |
| Yearly total ET, cm/y # | 18 | 27 | 178 |

† Methods discussed in section 2.2.1.

‡ Calculation of potential evapotranspiration using the Penman equation used by Carman (1993) to compare other values with.

§ Average evapotranspiration rate during the hottest summer months when evapotranspiration rates are at their peak.

¶ Maximum evapotranspiration rate. Results were reported as monthly rates and were converted to daily rates for ease of comparison. These values should serve as conservative estimates of maximum evapotranspiration rates.

Average yearly evapotranspiration rate for all years of study.

fact eventually increase evapotranspiration. Increased evapotranspiration rates resulted from vigorous regrowth of saltcedar subsequent to eradication efforts (Table 5) (Weaver et al., 1986).

Later results showed that there was little correlation between groundwater level and evapotranspiration in this New Mexico shallow water system of 0.9 to 2.7m groundwater depth (Weeks et al., 1987). These researchers found that as groundwater depth increases saltcedar roots were quickly able to adapt and soon began to transpire at high rates.

Like Bowen ratio methods, eddy-correlation methods are relatively accurate and do not require significant alteration of the field environment. Eddy-correlation measurements may underestimate actual evapotranspiration rates under conditions where wind speeds are difficult to measure and Bowen ratio methods may overestimate evapotranspiration rate under hot and very dry conditions. Both methods may continue to improve with improvements in technology.

2.2.6. Groundwater Depth and Evapotranspiration Correlation

Many researchers realize that the depth to groundwater is an important factor affecting evapotranspiration (White, 1932; McDonald & Hughes, 1968; Robinson, 1970). However, the structure of many projects does not allow for adequate exploration of the topic. Early research that accounted for groundwater depth effects usually focused on bare soil evaporation from lysimeter tanks. Evaporation rates in these studies are correlated to soil texture, and groundwater depth. White (1932) estimated evaporation from a clay loam soil in Escalante Valley, Utah (Figure 1). McDonald and Hughes (1968) measured yearly evaporation from a silt-loam soil near Yuma, Arizona (Figure 1). Robinson (1970) studied a silty sand soil by the Humboldt River in Nevada (Figure 1). These researchers' results show a very good correlation of evaporation to groundwater depth (Figure 1) (White, 1932; McDonald & Hughes, 1968; Robinson, 1970).

Few studies correlate total evapotranspiration with groundwater depth. Some cannot make good correlations because of the influences of seasonal climate changes and because of plant growth cycles overprinting groundwater depth effects. This is particularly true of water

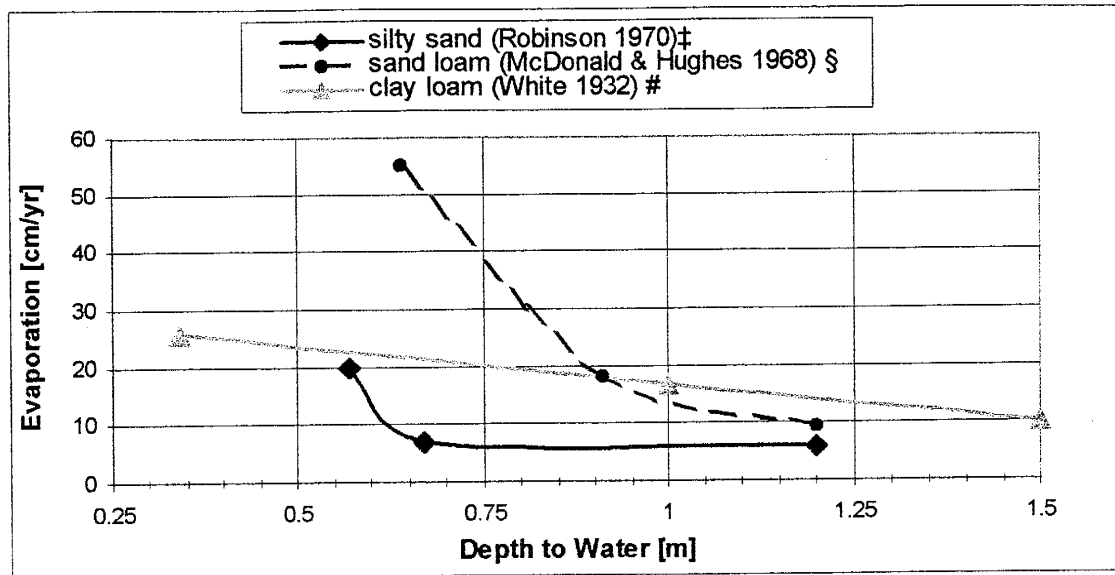
Table 5. Weaver et al. (1993) conducted evapotranspiration studies on saltcedar and grass in New Mexico, along the Pecos River.

| Method of Evapotranspiration Measurement ‡ | Average Daily Evapotranspiration Rates by Method (cm/d) † | | | | | |
|--------------------------------------------|-----------------------------------------------------------|-------------------------|--------------------------|------------------|-----------------|-------|
| | Vegetation | | | | | |
| | Wet (flood) Oldgrowth Saltcedar | Dry Oldgrowth Saltcedar | Mowed Regrowth Saltcedar | Burned Saltcedar | Grass and Forbs | Grass |
| Eddy-correlation | 0.26 | 0.19 | 0.23 | 0.24 | 0.10 | 0.11 |
| Bowen ratio | 0.42 | 0.23 | 0.36 | 0.29 | 0.16 | 0.16 |
| Energy balance | 0.47 | 0.28 | 0.45 | 0.37 | 0.21 | 0.16 |

† Average daily evapotranspiration rate for all years of study.

‡ Methods discussed in section 2.2.1.

Figure 1: Bare Soil Evaporation †



† Evaporation data reported by various authors on soils with no vegetation using lysimetry.

‡ Robinson 1970 show a correlation between groundwater level and evaporation in the coarse textured silty sand soil.

§ McDonald & Hughes 1968 show a strong correlation between groundwater level and evaporation in the medium textured sand loam soil.

White 1932 was the first study to show a consistent trend of groundwater level and evaporation in the fine textured clay loam soil.

balance studies. Weeks et al. (1987) found that evapotranspiration did drop when water levels dropped, however, the effect was temporary and offset by vigorous root adaptation in saltcedar in New Mexico. Vegetation adaptation to groundwater depth fluctuations may be expected in areas where water level fluctuations are common such as along the Pecos River (Weeks et al., 1987).

The most controlled field approach to the study of evapotranspiration is through the use of lysimeters. Van Hylckama (1974) found a strong correlation of evapotranspiration and groundwater depth in lysimeter studies for saltcedar in sandy soil along the Gila River in Arizona: 215 cm/y evapotranspiration rate with groundwater at 1.5 m depth; 150 cm/y evapotranspiration rate with groundwater at 2.1 m depth; and less than 100 cm/y evapotranspiration rate with groundwater at 2.7 m depth.

Groundwater depths are an important factor determining evapotranspiration rates. It is surprising that more research has not been devoted to the study of this factor. Reliable lysimeter studies such as those of van Hylckama (1974) show that groundwater level is very important. The work of Weeks et al. (1987) show complications of field studies with fluctuations in groundwater level, such as salinization effects and vegetation adaptations.

2.2.7. Saltcedar Evapotranspiration Verses Native Vegetation

Evapotranspiration

Evapotranspiration rates vary dramatically for different sites and types of vegetation. An underlying theme to many evapotranspiration projects is that phreatophytes consume large quantities of water (Robinson, 1958). It is evident that some plant species use a great deal of water and others do not. Comparing various values of evapotranspiration from past research will help determine which southwestern species may be particularly water wasteful. Tables 6 and 7 show yearly evapotranspiration rates from various species at various locations.

Table 6. Average Yearly Evapotranspiration for Various Arid Region Phreatophytes Other than Saltcedar.

| Vegetation | Method Used to Measure Evapotranspiration | | | | | | |
|---------------------------------------|-------------------------------------------|------------------------|---------------|---------------------|---------------------|------------------|-------------|
| | Lysimetry | | | Water balance | | Eddy-correlation | |
| | Location | | | | | | |
| | Escalante Valley, UT | Safford Valley, AZ | Yuma, AZ | Humboldt Valley, NV | Cottonwood Wash, AZ | Gila River, AZ | Western, NV |
| White 1932 | Gateway et al. 1950 | McDonald & Hughes 1968 | Robinson 1970 | Bowie 1968 | Culler et al. 1982 | Carman 1993 | |
| Yearly Evapotranspiration Rates, cm/y | | | | | | | |
| Cottonwood | 180 | 233 | - | - | 96-125- | - | - |
| Willow | 140 | 138 | - | 86.5 | 96-125 | - | - |
| Mesquite | 100 | - | - | - | - | 72.5 | - |
| Arrowweed | - | - | 242 | - | - | - | - |
| Quailbrush | - | - | 96.7 | - | - | - | - |
| Fourwing | - | - | 72.4 | - | - | - | - |
| Saltbrush | - | - | - | - | - | - | - |
| Greasewood | - | - | - | 40.1 | - | - | 18-27 |
| Rabbitbrush | - | - | - | 50.7 | - | - | 32-52 |
| Wildrose | - | - | - | 48.0 | - | - | - |
| Bermuda | - | - | 177 | - | - | - | - |

Table 7. Average Yearly Evapotranspiration for Saltcedar in Various Arid Regions

| Method | Researchers | Location | Evapotranspiration Rate, cm/y |
|------------------|----------------------|----------------------|-------------------------------|
| Lysimetry | White 1932 | Escalante Valley, UT | 220cm/yr |
| Lysimetry | Gatewood et al. 1950 | Safford Valley, AZ | 223cm/yr |
| Lysimetry | Van Hylckama 1974 | Gila River, AZ | 87-229cm/yr |
| Water balance | Culler et al. 1982 | Gila River, AZ | 72.5cm/yr |
| Water balance | Welder 1988 | Pecos R, NM | 183cm/yr |
| Bowen ratio | Gay 1986 | Colorado R. NV | 173cm/yr |
| Bowen ratio | Devitt et al. 1998 | Virgin R, NV | 75-145cm/yr |
| Eddy-correlation | Weeks et al. 1987 | Pecos R, NM | 77-107cm/yr |

Lysimeter studies reported higher evapotranspiration rates overall, and those using Bowen ratio and eddy-correlation methods reported the lowest evapotranspiration rates. Average values of evapotranspiration rates for some Southwest phreatophyte vegetation are: 175 cm/y mean cottonwood evapotranspiration (White, 1932; Gateway et al., 1950; Bowie, 1968), 174 cm/y mean saltcedar evapotranspiration (White, 1932; Gateway et al., 1950; van Hylkama, 1974; Gay, 1986; Weeks et al., 1987; Welder, 1988; Devit et al., 1998), 86 cm/y mean willow evapotranspiration (White, 1932; Culler et al., 1982), 46 cm/y mean rabbitbrush evapotranspiration (Robinson, 1970; Carman, 1993) and 31 cm/y mean greasewood evapotranspiration (Robinson, 1970; Carman, 1993).

In general vegetation which draws more water from the saturated zone such as cottonwood, saltcedar and mesquite have the ability to consume more water (Robinson, 1970). Slow growing species, adapted to arid climates and deep groundwater, such as greasewood, wild rose, rabbitbrush and fourwing saltbrush tend to use less water, but can transpire large amounts of water when available. Fast growing phreatophytes that are found near water such as saltcedar, arrowweed, and quailbrush tend to consume large quantities of water particularly when such vegetation is able to grow rapidly. Cottonwood and saltcedar are found to be large consumers of water even when groundwater levels are deeper than 3 m and soils are dry.

2.2.8. Mowing and Eradication Efforts

There have been several attempts to reduce the evapotranspiration loss by phreatophytes in the arid Southwest, because of the scarcity of water. Eradication of certain plants from riverbanks has been proposed as a solution to water loss. Riverbanks of the Colorado River, Rio Grande, Pecos River and other rivers have been cleared of vegetation because of the belief that substantial amounts of water would be saved (Weeks et al., 1987; Bowie and Kam, 1968; Culler et al., 1982).

Whether or not these efforts were of any use is questionable (Bowie and Kam, 1968; Culler et al., 1982). Calculations of water usage have indicated great salvage of water if certain species are removed from a given area. Four reasons why phreatophyte control measures may

not conserve water for human use: (i) rapid regrowth of mowed, plowed, poisoned or burned phreatophytes; (ii) overestimation of evapotranspiration by phreatophytes; (iii) underestimation of evapotranspiration by replacement vegetation; (iv) an increase in soil evaporation when vegetation is removed due to capillary rise.

There have been cases where removal of phreatophytes has saved substantial amounts of water. One case that shows substantial water salvage is in the Escalante Valley in Utah. Alfalfa was substituted for native greasewood, rabbitbrush and saltgrass with seasonal evapotranspiration reductions of 12% to 40% (White, 1932). It is not certain whether or not such efforts would be profitable in other locations.

Evapotranspiration varies from location to location and from species to species. It is very possible that one may overestimate phreatophyte water consumption over large areas. The vegetation that replaces eradicated species may have similar water consumption properties.

There has been some interest in eradicating invasive saltcedar and replacing this with native species. Some assume that native vegetation will transpire much less than saltcedar (White, 1932; Robinson, 1970). However, some native phreatophytes can consume very large quantities of water. For example, replacing saltcedar (mean evapotranspiration rate of 175 cm/y) by cottonwood and willow (evapotranspiration rates between 87 and 233 cm/y) may not save any water (White, 1932; Gateway et al., 1950; Robinson, 1970; Devitt et al., 1978). Culler et al. (1982) show that replacing saltcedar and mesquite by grass could not save any water, and that evapotranspiration rates would remain between 70 and 80 cm/y.

Even if replacement vegetation evapotranspiration rates are significantly less than in-place vegetation, eradication efforts may not be helpful. Eradication of some phreatophytes can be very difficult, and incomplete removal can have little or no effect. Van Hylckama (1974) shows that thinning a stand of saltcedar by 50% only reduces evapotranspiration by approximately 15%. This study also shows how cutting saltcedar to the root will only reduce evapotranspiration for approximately two months. Weeks et al. (1987) show that evapotranspiration rates from saltcedar recovering from a burn (112 cm/y) or mowing (127 cm/y) may increase from those of oldgrowth (92 cm/y) due to vigorous growth and recovery of vegetation. Bowie and Kam (1968)

indicate that there is no truly effective way to remove willow and saltcedar. Mowing, poisoning, and plowing were not completely effective (Bowie & Kam, 1968).

The eradication of saltcedar along the Pecos River in New Mexico did not produce any significant salvage of water (Welder, 1988). Saltcedar was removed, and replacement vegetation was eventually well established and saltcedar removed. Even with an increase in precipitation stream flow increases were not of the order of those calculated for saltcedar removal (Welder, 1988). Therefore, some eradication efforts have not proved to be effective, and eradication may not be the solution to water shortages.

2.3. OBJECTIVES

This work will show that groundwater level, not vegetation, is the most important factor affecting evapotranspiration. The important effects of soil texture will also be evaluated. Modeling is used as an effective tool of comparison and prediction, and is supported by the large measured data sets. Virtual homogeneous soil systems (Section 3.4.1.2) were modeled in order to compare the effects of groundwater level, rooting depth and soil texture. These simulations represent a simplified version of natural environments and are hereafter referred to as virtual soils. The modeling program Hydrus 1D, which was used for these models, will be evaluated as suitable software for the modeling of evapotranspiration by comparing model results to actual measured evapotranspiration. Evapotranspiration was modeled in the Bosque for cottonwood and saltcedar sites and will be shown to have accurate results (Section 4.3). Measurements of soils and groundwater in the experimental site will be summarized, analyzed and correlated to evapotranspiration measurements.

Many previous studies have evaluated the water consumption trends of phreatophyte species, and yet not focused on the effects of soil texture and water levels. Groundwater depth and soil texture are not often considered in the water conservation strategies, therefore these factors are not often addressed in research. This study is like others in that direct field measurements of soil moisture, groundwater level, and evapotranspiration were taken in an arid riparian region.

3. METHODS AND MATERIALS

3.1. EXPERIMENTAL SITE

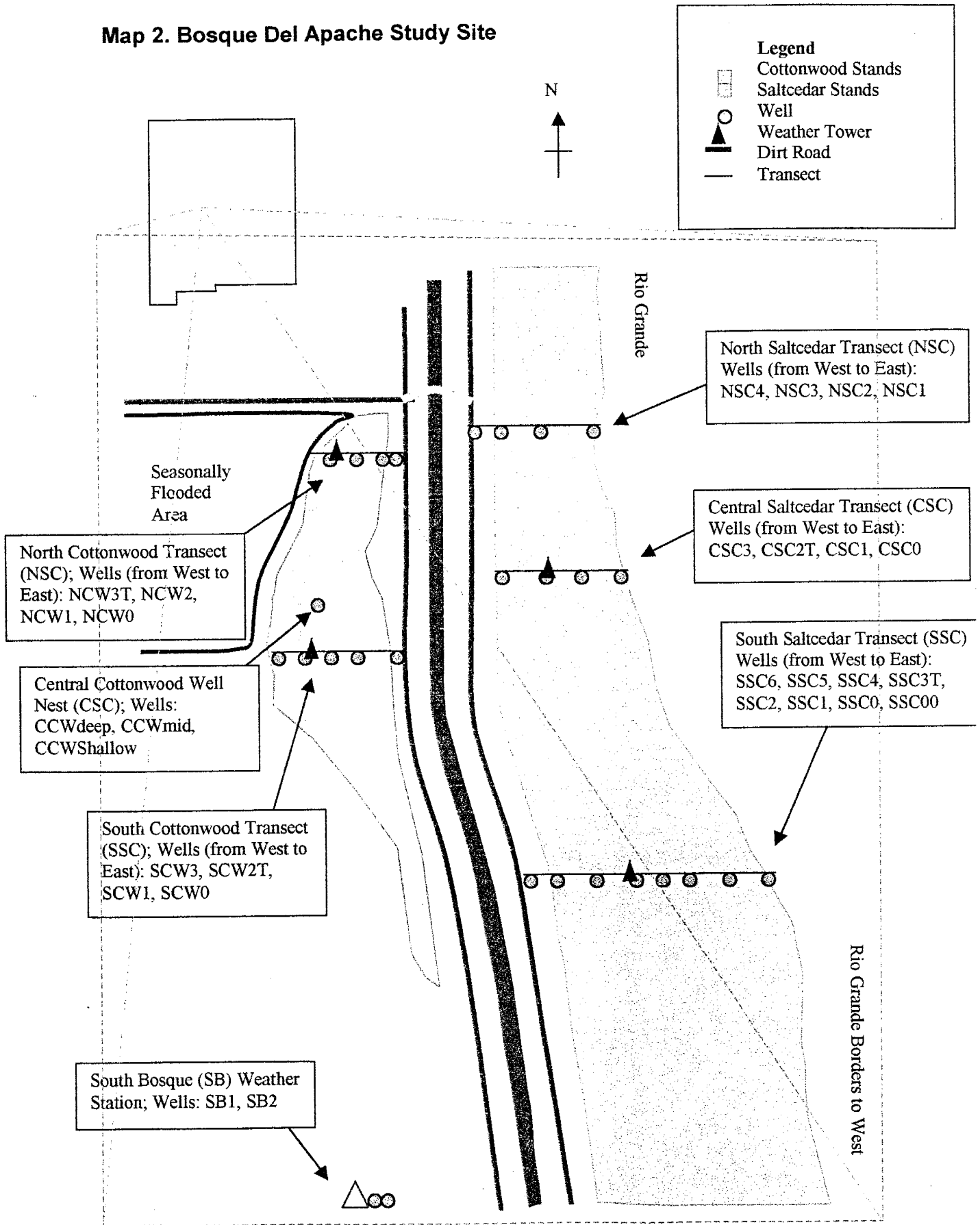
The Bosque del Apache National Wildlife Refuge is located in central New Mexico along the Rio Grande (Map 2). The Refuge encompasses a lush riparian ecosystem in an otherwise relatively barren semi-desert. According to the Bosque Refuge weather data, the region has low precipitation (20 to 30 cm/y, mean of 24 cm/y), high summer maximum temperatures (35 to 40 °C), and a short winter with moderate minimum temperatures (-10 to 0 °C). This makes the region a good study site for research on evapotranspiration in arid riparian environments.

The Refuge is managed primarily for the habitat of wintering waterfowl. Managed flooding is necessary to provide marsh habitat because of channelization, and damming of the Rio Grande. Previous to the implementation of large-scale flow control of the Rio Grande and the construction of large municipal and agricultural drains on the river, the Rio Grande supplied large areas of marshland for waterfowl in an otherwise arid region (Map 1).

According to Refuge vegetation surveys, saltcedar was not present in the Refuge prior to 1918 (Map 1). Found wild throughout the Southwest after the 1940s, *Tamarix* species likely migrated down the Rio Grande after the 1920s when planted upstream in the Rio Puerco and Rio Salado for erosion control (Robinson, 1965). Saltcedar has become a very prominent species in the area after the, occupying long stretches of the riverside in continuous, single-species thickets. The Refuge has begun to restore native vegetation (cottonwood – *Populus sp.*) to some of the regions transformed by saltcedar. Future Refuge plans include large-scale cottonwood reforestation efforts.

The experimental site is composed of an area of native vegetation and an area of invasive species in the central region of the Bosque del Apache National Wildlife Refuge (Map 2). The native vegetation study area is composed of a 0.8 km long plot (155 m wide) of cottonwood-willow-grass vegetation bounded to the East by the low-flow channel and to the West by seasonal

Map 2. Bosque Del Apache Study Site



marsh and willow-brush land (Map 2). These relatively young, and wide spaced vegetation communities were established by the Bosque Refuge. Although the cottonwood trees are mature, the vegetation community was established only seven years prior to the field investigations. The invasive species study area is composed of a 1.6 km long plot (150-500 m wide) of continuous dense saltcedar bounded to the East by the Rio Grande and to the West by the low-flow channel. The mature saltcedar stands were relatively unaltered by Bosque personnel, and are spaced so that branches of one tree interlock with the next. Two weather stations, one in the northern and one in the southern portions of the study area were installed.

Three measurement transects containing two micrometeorology towers and 16 observation wells were established in the saltcedar area. The moist saltcedar soils have complex, greatly varying soil stratigraphies ranging from sand-loam to dense clay textures (Appendix B). The average soil stratigraphy of the North Saltcedar Transect is as follows: clay 0-60 cm, very fine sandy loam 60-105 cm, silty clay loam 105-120 cm, fine sandy loam 120-180 cm, fine sand 180-245 cm, and medium sand 245-340 cm. The average soil stratigraphy of the Central Saltcedar Transect is as follows: silty loam 0-60 cm, sandy clay loam 60-80 cm, sandy loam 80-160 cm, very fine sand 160-200 cm, sandy clay loam 200-300 cm, and loamy sand 300-380 cm. The average soil stratigraphy of the South Saltcedar Transect is as follows: silty clay loam 0-25 cm, sandy clay 25-70 cm, sandy clay loam 70-120 cm, sandy loam 120-215 cm, clay 215-250 cm, fine sand 250-290 cm, silty clay loam 290-350 cm and sand 350-400 cm.

Two measurement transects containing one micrometeorology tower and 11 observation wells were established in the cottonwood area. Two observation wells are located adjacent to the South Bosque weather station South of the cottonwood measurement site. The cottonwood soils have laterally similar soil stratigraphies and are dry with sand and silt textures with a fine silt or silty clay layer near the surface. The average soil stratigraphy of the North Cottonwood Transect is as follows: silt 0-3 cm, silty clay loam 3-30 cm, silty sand 30-120 cm, loamy sand 120-130 cm, fine to medium sand 130-470 cm, and gravely coarse sand 470-580 cm. The average soil stratigraphy of the South Cottonwood Transect is as follows: silt 0-5 cm, silty clay loam 5-30 cm, very fine loamy sand 30-60 cm, very fine sand 60-100 cm, fine sand 100-245 cm, and loamy

medium sand 245-400 cm. Differences in soil texture and stratigraphy and groundwater levels between the two regions complicate the comparison of evapotranspiration between the two sites (Map 3).

3.2. FIELD MEASUREMENTS

3.2.1. Soil Water Content

Soil water content is measured with the CPN503DR neutron probe. Neutron probe measurements were taken at each well along two transects in each of the saltcedar (Central Saltcedar – CSC, and South Saltcedar - SSC) and cottonwood (Central Cottonwood – CCW, and South Cottonwood - SCW) stands. This data produced soil water contents profiles. The measurements were performed once a month and more often during flooding, and as the trees grew and dropped leaves in spring and fall. These measurements were calibrated and checked by taking soil samples, which were later analyzed for soil water content in the lab.

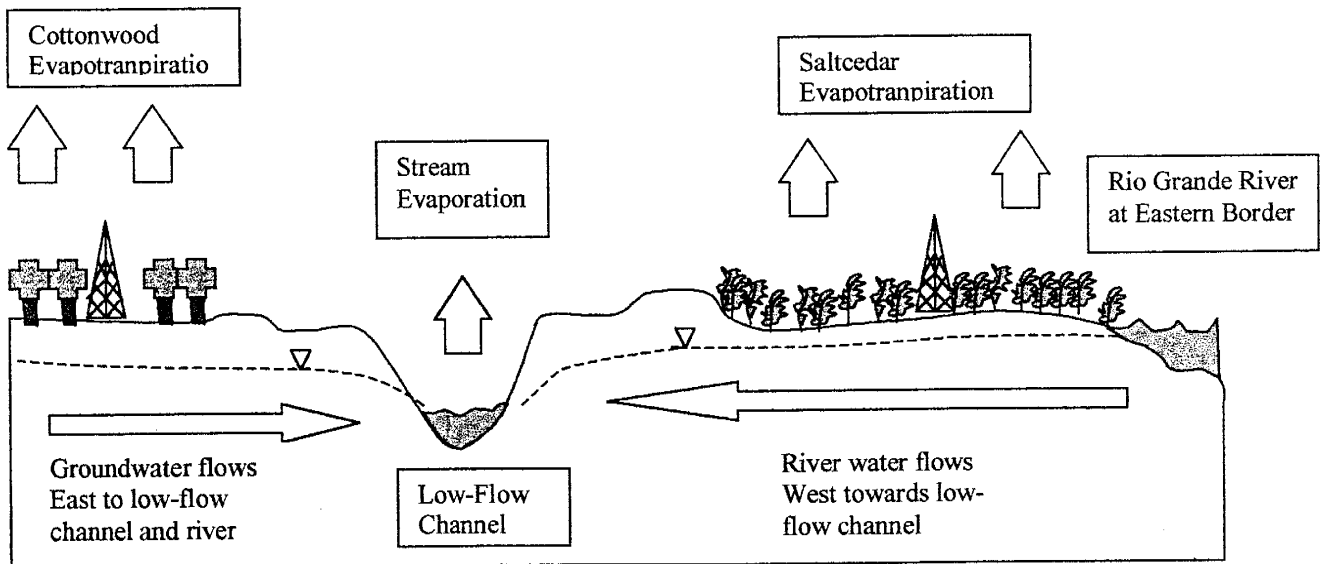
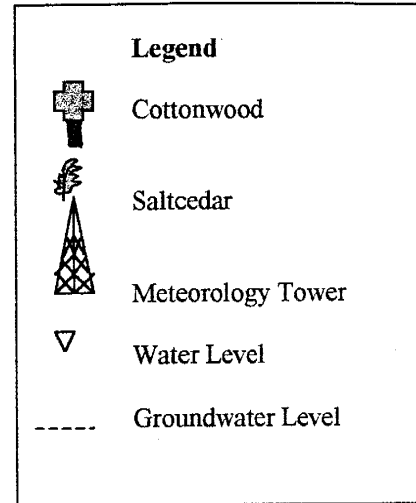
Soil water content is linearly proportional to the soil's ability to reflect neutrons (Goodspeed, 1981):

$$\theta = m*(C_R) + b \tag{7}$$

Where θ = volumetric soil water content [-], C_R = ratio of counts of reflected neutrons to a standard count [-], m and b are parameters determined by calibration of the instrument. The neutron probe consists of a low-level radioactive source that emits neutrons at a relatively constant rate. The americium source is completely enclosed in a steel cylinder along with a sensor that detects the slower moving reflected neutrons (Gardener et al., 1991; CPN, 1985).

The steel cylinder is lowered down an access tube to various depths and reflected neutrons are counted for a fixed period of time. A standard count is taken at each access tube each time measurements are taken, with the instrument sitting above a steel plate and the cylinder retracted. The ratio of measured counts to a standard count is obtained for various

Map 3. Cross-section of Study Area



depths. Water contents are then calculated from a calibration curve of count ratio to soil water content. Count ratio measurements are more consistent over time than raw count measurements (CPN, 1984). These ratios account for some drift in the neutron emittance rate and any small drift in sensor sensitivity (CPN, 1985).

Neutron probe readings can change up to 20% with large changes in bulk soil density (Williams & Sinclair, 1981). This may not be a great factor in the Bosque site, where almost no soil compaction has occurred, and where soil density changes are primarily due to textural differences. The textural differences are accompanied by soil water content differences that have a stronger effect on neutron probe readings than do bulk density changes, according to a sensitivity analysis done in the calibration process.

Relatively high concentrations of iron oxides and organic compounds will cause the neutron probe readings to rise (Williams & Sinclair, 1981). The mature, well-weathered sediments in this area contain few iron oxides in the vadose zone, and this should not be an important source of error in this area. The soils in this area are low in organic matter (less than 1%) except for pockets of soil containing buried driftwood. The organic matter seems to have little effect on the readings. The most important factor affecting water content results in this area is the effect of chloride on the neutron probe (Abeelee, 1978). The PVC cased piezometers used in this study have a strong dampening effect on the count ratios measured in the Bosque. Therefore, the calibration process accounted for this effect.

Abeelee (1978) at Los Alamos National Laboratories studied the affects of access hole diameter, and casing on neutron probe readings. Neutron counts decreased with access hole diameter increases (Abeelee, 1978). Neutron probe access hole size was not an issue in this study, as all holes are a uniform 2" diameter in the experimental sites. The Los Alamos study showed that PVC has a marked effect on the neutron probe results. Therefore, a factory calibration curve for the Bosque site would prove to be inadequate for the calculation of water content. The CPN factory calibration curve consisted of a line drawn through 2 points of water content verses neutron probe count, in a uniform aggregate with aluminum cased access holes.

To determine more accurate calibrations for the Bosque sites six calibrations were performed at four locations in the Bosque. Each neutron probe measurement in the calibration process was correlated with three volumetric water content measurements obtained from samples at the same depth and time. The soil samples were collected by hand auger, and analyzed for soil texture and gravimetric water content adjacent to the site being calibrated. Soil pits were sampled and analyzed for bulk density and soil texture in order to obtain volumetric water contents for the calibration sites.

The various calibrations did not show significant trends relating to soil texture or stratigraphy. Therefore, the six calibrations were averaged in to one calibration curve in order to minimize errors incurred by local spatial variability in water content and sampling error. Refer to Appendix B on neutron probe calibration to see results of these calibrations.

The averaged calibration curve was found to be within approximately 5% maximum difference of water content on the individual data points within the range of data. In order to determine the accuracy of the average calibration curve two tasks were performed. First, the Bosque average calibration curve and its difference from the CPN calibration curve were correlated to Abeele's 1978 Los Alamos study with different access hole casings. This correlation shows that the Bosque calibration with PVC casing is consistent with the effects of PVC. Then, sensitivity analysis was performed to determine the effects of changes in bulk densities due to spatial variability, stratigraphy changes and sampling error. This shows that neutron probe errors are less than 10% for soil water contents ranging from 2% to 35% water content and less than 5% for soil water contents between approximately 5% and 25% water content.

3.2.2. Groundwater Depth

Groundwater depths were measured by hand in the 29 wells periodically with a measurement tape equipped with a sounding bell at the end. Waterlogger down-hole pressure transducers with data-loggers were installed in 16 wells. These allowed for the collection of water level data every half-hour. These data were downloaded in the field. The pressure data were converted to depth to water, sorted, and checked by hand measurements.

Waterlogger pressure transducers collect data on pressure of overlying water and temperature. Measurements collected every 30min and stored in data-logger. These are downloaded every month. Pressures are converted to cm of water, then to depth to water.

$$h = \rho_w g / p \quad (8)$$

$$Z = D - h \quad (9)$$

Where h = height of water above pressure transducer [cm], ρ_w = density of water [kg/m^3], g = gravity [m/s^2], p = pressure at pressure transducer [Pa], D = length from surface to pressure transducer [cm], and Z = depth to water [cm].

3.2.3. Soil and Water Salinity

Groundwater and river water salinity was measured with a Hach C10150 Conductivity Meter at the Rio Grande and in all wells at least once a month. The EM-38 ground conductivity meter was used to measure soil electrical conductivity along each transect once a month, and more frequently during the intensive measurement period. The electrical conductivities are used as a relative measure of soil salinity.

The EM-38 instrument emits electromagnetic energy into a soil. In response, the soil is induced to emit a secondary electromagnetic signal, which is recorded by the EM-38 instrument. The secondary signal is a function of salinity, soil water content and soil texture. The electromagnetic response of the soil is most sensitive to magnetic and metallic minerals, ionic compounds including salts, polar molecules including water and soil intergranular contact (McNeill, 1980; Hendrickx et al., 1992; Sheets et al., 1994). The EM-38 measures soils to 150cm when placed vertically with a maximum sensitivity at approximately 60cm depth. The EM-38 measures to 75cm when placed horizontally and has a maximum sensitivity at the top few centimeters. Both vertical and horizontal measurements were taken to obtain overall and surface measurements.

A Hach C10150 Conductivity Meter was used to measure electrical conductivity of the groundwater. These conductivities were used to calculate total dissolved solids in water. The electrical conductivity of water is directly proportional to the concentration of dissolved ionic constituents. Because dissolved ionic salts are by far the major constituents of the total dissolved solids, and the Rio Grande waters are calcium/magnesium carbonate dominated waters, the total dissolved solids can be calculated from measured conductivity values (Polemo et al., 1980; Langmuir & Mahoney, 1985):

$$TDS = 0.6786 * EC \quad (10)$$

Where *TDS* = total dissolved solids [ppm] and *EC* = electrical conductivity [dS/m].

3.2.4. Evapotranspiration

Three micro-meteorology towers were set up and maintained by Salim Bawazir, PHD candidate of New Mexico State University (NMSU). Dr. Bawazir also maintained the weather stations in the Bosque del Apache. This data were obtained by NMSU, which then calculated reference and actual evapotranspiration rates, which were shared with New Mexico Institute of Mining and Technology.

An intensive measurement period occurred from July 10th to the 23rd, during which Los Alamos National Laboratories tested their LIDAR system for measuring evapotranspiration and provided a very detailed and robust data set of evapotranspiration fluxes. There was a problem in timing, however as the intensive measurement period occurred when the Rio Grande stage rose above its stream banks. The subsequent flooding of the saltcedar stands tremendously increased evapotranspiration rates in that area, and made this data set unrepresentative of the seasonal trends. An intensive measurement period was also conducted in September of 1998 when the equipment was installed. This period was more representative of evapotranspiration trends in the Bosque del Apache.

3.2.4.1. Actual Evapotranspiration with the Eddy-correlation Method

The eddy-correlation method was used to obtain evapotranspiration values in the Bosque del Apache field site. The method is a combination of the energy balance and mass balance methods. In the energy balance method, latent heats, which are used to calculate evapotranspiration, are calculated as a residual of other energy fluxes at the surface (Jensen et al., 1990):

$$LE = R_n - H - G \pm A \quad (11)$$

$$ET = LE/\rho_w\lambda_v \quad (12)$$

Where L = latent heat flux [W/m^2], R_n = net radiation [W/m^2], H = sensible heat flux [W/m^2], G = ground heat flux [W/m^2], A = advected heat flux [W/m^2], ET = evapotranspiration [m/s], ρ_w = water density [kg/m^3], and λ_v = latent heat of vaporization [J/kg].

Evapotranspiration is calculated by mass balance using humidity and wind data at small time intervals (Jensen et al., 1990):

$$ET = F_u - F_d \quad (13)$$

Where F_u = water flux upward [cm/day], F_d = water flux downward [cm/day] and ET = evapotranspiration [cm/day].

The eddy-correlation method uses measurements of both surface energy fluxes and air humidity and wind speed, which are plugged into the Penman-Monteith equation to calculate evapotranspiration (FAO, 1998; Monteith, 1965):

$$\lambda_v ET = [\Delta(R_n - G) + \rho_a c_p (e_s - e_a) / r_a] / [\Delta + \gamma(1 + r_s/r_a)] \quad (14)$$

Where λ_v = latent heat of vaporization [J/kg], ET = evapotranspiration [m/s], Δ = slope of saturation vapor pressure – temperature curve [N/m°C], $(e_s - e_a)$ = vapor pressure deficit [Pa], ρ_a = air density [kg/m³], c_p = specific heat of air [J/°C], γ = psychrometric constant [Pa/°C], r_s = bulk surface resistance [-], r_a = bulk aerodynamic resistance [-].

Net radiation is measured with a net radiometer. Ground heat flux is measured with ground heat flux plates. A psychrometer measures the psychrometric constant. Sensible and latent heats are measured by measuring vertical wind speed, temperature and humidity at two elevations above the canopy on sub-second intervals. Three-dimensional sonic anemometry was used to measure vapor fluxes for one month.

The large data sets obtained were used to calculate latent heats averaged every 30-sec. These were averaged to calculate daily evapotranspiration fluxes. Any individual 30 sec calculation may be in error of up to approximately 20% (Blanford & Gay, 1992). The large degree of error is due to an accumulation of many measurement errors as well as a tremendous degree of spatial and temporal variability creating poor 30-sec averages. Averaging the data to daily values and then to 10-day values creates much more reliable evapotranspiration data sets with approximately 10 % error from measured data. These data agree favorably with the 3-D sonic anemometry data, which served as a check.

3.2.4.2 Reference Evapotranspiration from Weather Station Data

Two weather stations are maintained by NMSU at the Bosque del Apache site. These weather stations are located approximately 2800 m N and 1200 m S of the field sites. One station is located in a more vegetated area within 200 m of the Rio Grande, and the other is a less vegetated dryer area. Radiation data is collected with a radiometer. Precipitation data is collected with a tipping bucket. Air and soil temperature and wind-speed data are also collected.

Reference evapotranspiration is calculated from the weather station data using the Penman-Montieth Equation. The weather station data is maintained at the NMSU weather

website at <http://weather.nmsu.edu> . These reference evapotranspiration and precipitation data were used in the Hydrus 1D program for all models.

3.3. SOIL SAMPLING AND LABORATORY MEASUREMENTS

Four soil pits dug in the Bosque del Apache were sampled to determine soil hydraulic properties. These properties were used in the modeling of evapotranspiration from the Bosque sites. The soil pit sites were located in areas adjacent to the micrometeorology towers in areas that were representative of the areas sampled by meteorological measurements (Map 3). The sites were chosen by electromagnetic surveys and by reviewing soil properties obtained from well installation.

Fourteen column (25 cm tall, 15 cm diameter) cores were obtained from the soil pits to sample undisturbed representative soil units. Saturated hydraulic conductivities and wetting and drying curves were obtained from each sample in a New Mexico Institute of Mining and Technology laboratory by Sung-Ho Hong, graduate student.

The saturated hydraulic conductivities were determined by constant head and falling head methods depending on response time (Stolte, 1997; Weitz et al., 1997). Drying curves were determined by gravity draining a saturated column to approximately 3 m of suction head, and simultaneously measuring volumetric water content and matric potential. Some columns were then desiccated and rewetted to produce the wetting curves.

Water content and matric potential were measured at three depths within the soil column. Water content was determined by time domain reflectometry (TDR), a very accurate method for the determination of water content by electromagnetic conductance and inductance of soil materials (Ferré, 1998). Matric potentials were measured by minitensiometers. The wetting and drying curves were averaged and van Genuchten parameters were determined by fitting the curves using a Microsoft Excel solver algorithm.

3.4. HYDRUS 1D MODEL

The US Salinity Laboratory Hydrus One-dimensional program is a combination of heat flow, water flow, contaminant flow, root water uptake and plant growth modeling programs for the vadose zone. The program is described by the US Salinity Laboratory as an MS Windows program for used simulating water flow and solute transport in one dimensional variably saturated media with a graphical interface. It has applications primarily for agriculture and shallow contaminant remediation. The water flow and root water uptake portions of this program were used for this study. The flow model uses Richard's Equation solved by a Galinkin type linear finite element/finite difference method. The code has been developed from previous US Salinity Lab codes and is written in FORTRAN.

The root water uptake model is incorporated into the flow model by adding a sink term to the Richard's Equation. Each depth of the soil profile is assigned a different sink term, which is dependent of the amount of water present, root density and the potential or reference transpiration. Thus, flow is calculated at each node by the following form of the Richard's Equation (Simunek et al., 1998):

$$\partial\theta/\partial t = (\partial/\partial x)*[\partial h/\partial x + 1] - S(\theta(h), r, T_r) \quad (15)$$

Where ∂ = partial differential del operator [-], θ = volumetric water content [cm^3/cm^3], t = time [days], h = soil water pressure [cm], x = vertical dimension [cm], r = root density function [-], T_r = reference transpiration rate, S = root uptake sink term [cm/day].

Root uptake is dependent of on the water available at any given node according to the Feddes parameters. Feddes parameters limit uptake to below reference transpiration levels at high and low water contents, where low soil aeration and low soil hydraulic conductivity would prevent plants from obtaining water at their maximum levels.

The Brooks and Correy and the van Genuchten soil hydraulic parameters are curve-fitting parameters developed to fit soil moisture retention curves. These parameters are able to fit a

variety of curves. Van Genuchten parameters are effective in fitting curves that contain elbows such as sand moisture retention curves. Van Genuchten parameters were used preferentially in all models presented in this study. The sharp elbow shape of the van Genuchten curves creates difficulties in mathematics, which can cause instability in modeling calculations. Therefore, the Brooks and Correy parameters were used in some of the theoretical models. Both modeling parameters are widely used and tested (Sejna, 1999)

3.4.1. Modeling Evapotranspiration in Virtual Soils

In order to understand how evapotranspiration is effected by groundwater depth, soil texture and rooting depth 75 virtual soil models were created. Virtual soils are simplified homogenous systems with ideal soil parameters taken from literature (Sejna, 1999). Three rooting depths were chosen (0.3 m, 1 m and 3 m) which pertain to short grass, herbs and annuals, and shrubs or trees. Four rooting patterns were used to cover the maximum range of root density profiles. Root density increased linearly upward, increased linearly downward, and remained constant in three density profiles, and slowly tapered downward, similar to the rooting patterns observed in the field in the other root density profile. Three groundwater depths were chosen (1 m, 2 m and 5 m) which are representative of the shallow groundwater in riparian environments. Three soil types (clay, loam and sand) were chosen to cover the range of soil textures. Combinations of rooting depth and rooting pattern, groundwater depth, and soil texture was modeled in order to determine the relationships amongst the parameters and with evapotranspiration producing 75 models.

3.4.1.1. *Groundwater Depth in Virtual Soil Models*

Three groundwater depths (1 m, 2 m, and 5 m) were chosen to simulate conditions found in flat riparian regions. Models with groundwater depths less than one meter produced larger evaporation and smaller transpiration fluxes, with little change in total evapotranspiration. Models with groundwater depths between five than ten meters produced slightly smaller transpiration fluxes, and were more difficult to run. Groundwater deeper than 10 m is not common in most

riparian regions. The bottom boundary condition is a constant pressure head, which allows groundwater depth to be set at a fixed position in the soil profile.

The groundwater depth on any given model is shown by the first number in the name of the virtual soil model. For example, the model Sand2m1m has a groundwater depth of two meters.

3.4.1.2. *Soil Texture in Virtual Soil Models*

Three soil textures (sand, loam, and clay) were chosen to simulate the widest range of soil textures commonly found in riparian areas. Sand soils transmit water from the groundwater table with little resistance with all but the lowest water contents, yet retain less water for root uptake. Clay soils transmit water from the groundwater table with great resistance, yet retain less water for root uptake than coarse-textured soils. Loam soils are intermediate between sand and clay soils. The soil texture on any given model is shown by the first four letters in the name of the virtual soil model. For example, the model Sand2m1m has a sand textured soil.

The van Genuchten soil hydraulic parameters provided in the Hydrus 1D database are used. However, there was some difficulty in running the model for the sand soils. The soil water retention curve flattens out at low tensions and changes very little over a wide range of soil water pressures. Under dry conditions, as soil water tensions change, water contents may change by a millionth of a percent or less. Thus, large errors result and modeling becomes difficult and inaccurate. For these reasons, the Brooks and Correy soil hydraulic parameters were used for the sand soil models.

Virtual soil models in this work have uniform, homogeneous soil profiles. This was necessary in order to simplify modeling and to be able to compare the effects of soil texture on evapotranspiration directly. Riparian soils are commonly horizontally stratified due to deposition of sediment and soil development. In general, soil stratification hinders flow to the surface. Thus, stratified soils would be expected to produce less soil evaporation than homogeneous soils.

3.4.1.3. *Rooting in Virtual Soil Models*

Rooting depth is another important factor involved in the virtual soil models. The rooting patterns built in to the models were meant to simulate short grasses, herbs and annuals, and shrubs and trees. The root uptake behavior is governed by the Feddes parameters in the Hydrus 1D database. The 0.3 m rooting plants are modeled by Feddes grass parameters (Fig. 2). The 1m rooting plants are modeled by the pasture parameters (Fig. 3). The 3 m rooting plants are modeled by deciduous fruiting tree parameters (Fig. 4).

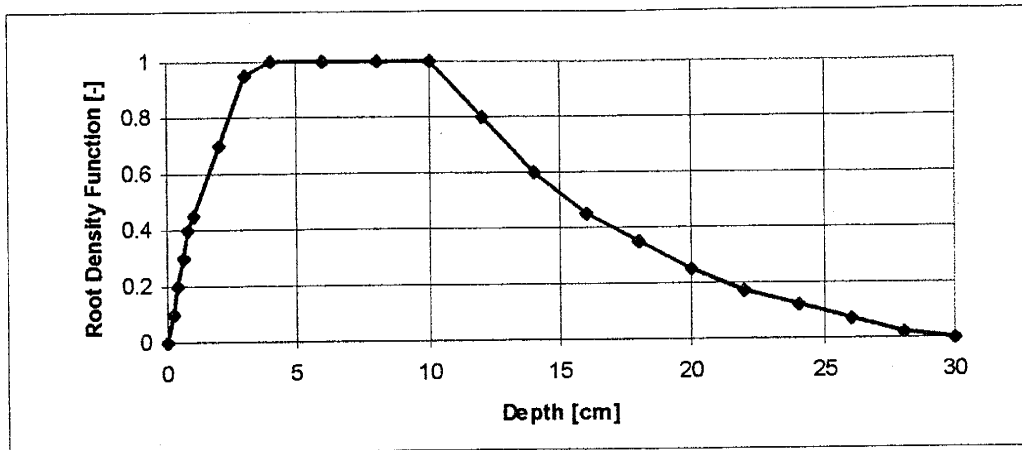
The 0.3 m rooting pattern (Fig. 2) is a very shallow rooting depth that is often assumed for short grasses in the literature (Hendricks et al., 1994; Michael, 1994; Wooton & Standley, 1912). After digging many soil pits in an arid environment, it has been found that grasses tend to have a very dense mass of roots near the surface.

The one meter rooting pattern (Fig. 3) is a general hypothetical rooting pattern meant to simulate herbaceous plants such annuals, forbs and even tall grasses. Root densities increase from 50% at 3cm depth to 100% at 15cm depth. The root density is highest near the surface, and drops off substantially after 60cm depth. This is consistent with reported data (Cannon, 1911; Forseth et al., 1984).

The three-meter rooting pattern (Fig. 4) is meant to simulate woody species. The three-meter depth is a modest estimate for rooting depth of shrubs and trees. This pattern does not readily account for the taproots of hydrophilic species. The root density tails significantly with depth. This simulates the tendency of plants to draw water from near surface before they draw water from deeper in the profile. The rooting patterns and depths of woody shrub and tree species vary tremendously and are functions of groundwater level, climate and physiology (Weaver, 1919; FAO, 1975). In general, tree root density tends to drop below 1 or 2 m (Cannon, 1911; Barbow et al., 1977; Kemp et al., 1997).

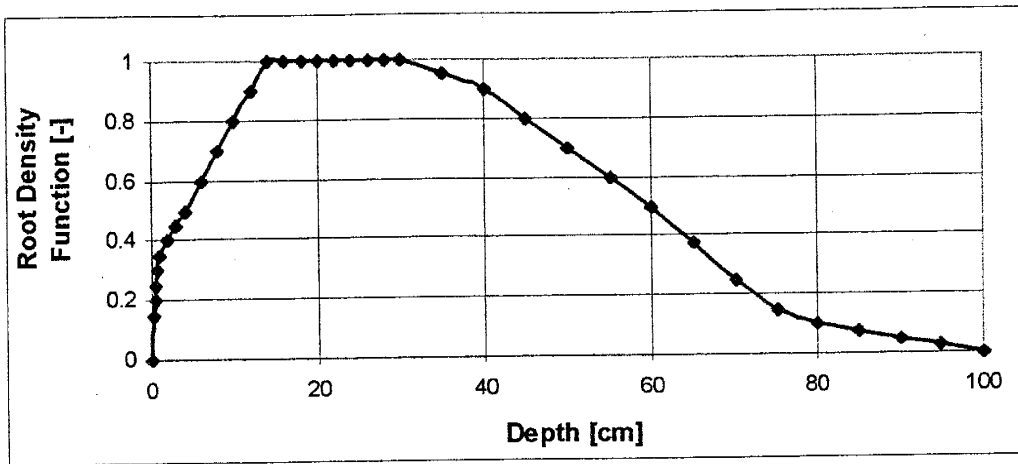
In order to determine how the choice of rooting pattern affected evapotranspiration results, three rooting patterns were created to represent a diverse set of rooting pattern possibilities (Fig. 5). These anomalous rooting patterns (Fig. 5) represent the widest spectrum of rooting pattern possibilities. One pattern has a maximum rooting density at the surface that

Figure 2: 30cm Rooting Pattern †



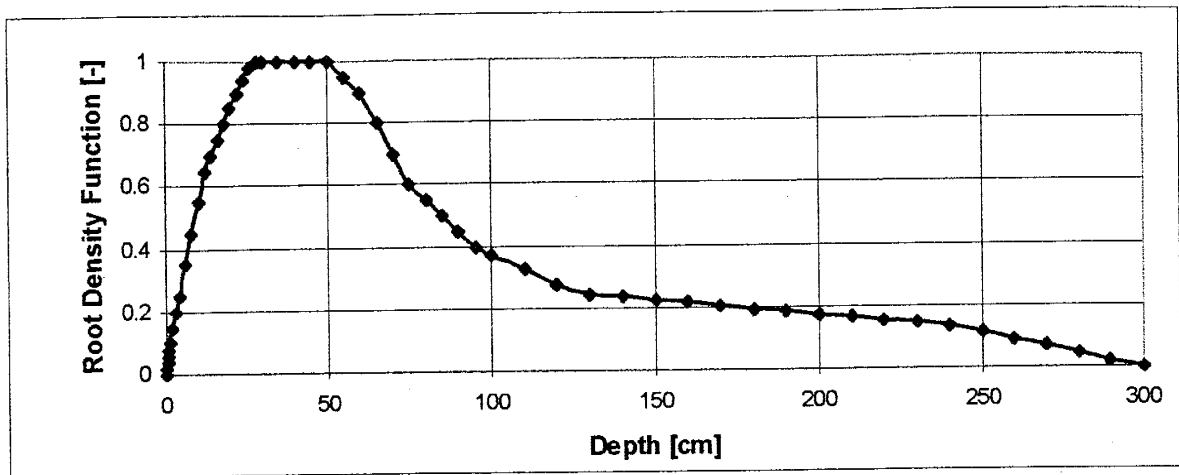
† This shallow rooting pattern is used in virtual soil models. It is an idealized pattern meant to simulate short grasses and small herbs.

Figure 3: 1m Rooting Pattern †



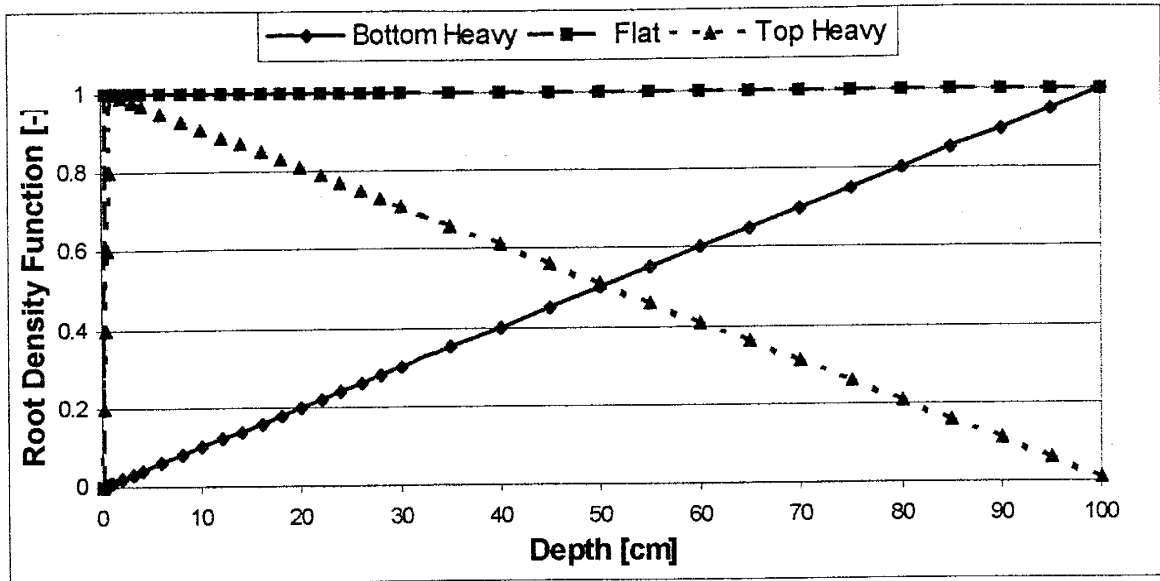
† This mid-depth rooting pattern is used in virtual soil models. It is an idealized pattern meant to simulate tall grasses and various herbs.

Figure 4: 3m Rooting Pattern †



† This deep rooting pattern is used in virtual soil models. It is an idealized pattern meant to simulate woody vegetation.

Figure 5: Anomalous Rooting Patterns †



† The above anomalous rooting patterns are used in virtual soil models. They represent extremes in rooting pattern meant to test the effect of rooting pattern on evapotranspiration.

decreases linearly with depth to a maximum. Another pattern has a maximum rooting pattern at depth, which decreases linearly towards the surface to zero. The third pattern has a constant rooting density with depth. The three anomalous patterns were modeled at each groundwater level and each soil texture to produce 27 models. When the anomalous and representative rooting patterns were modeled with each groundwater level and soil texture, 54 models were produced.

Root growth and adaptation was not considered in this study. In the natural environment, rooting depth and patterns adapt to groundwater level. Rooting was treated as a fixed parameter in this study in order to isolate the affect of rooting on evapotranspiration and to simplify comparisons with groundwater level and soil texture. There was no uniform method of allowing rooting to adapt the groundwater level in each model. Any such attempts would not be supported by any measurements taken in the Bosque sites. Thus, although vegetation rooting and groundwater level are interrelated parameters, they will be treated as independent separate functions.

3.4.1.4. *Weather in Virtual Soil Models*

The top boundary condition was an atmospheric boundary condition without surface runoff. This means that the evapotranspiration demand of the atmosphere is the variable boundary condition that is controlled by potential evaporation and potential transpiration. A boundary condition of atmospheric boundary with surface runoff is very similar except that water is allowed to flow off of the surface of the soil. This is not an issue when the soil surface is perfectly level, as in the case of the models created in this research. All theoretical models ran for half a year (183days). Reference evapotranspiration is held constant at 6 mm/day throughout this period for the first 54 models. This removes the complexity of seasonal cycles and simulates the long hot summer and arid conditions of the region. Then, 21 of the 54 models were run with reference evapotranspiration, calculated from measured Bosque del Apache climate data. Only 21 models using seasonal variability were used, as the results were tremendously consistent with the previous 54 theoretical models (Table 8). Precipitation and reference evapotranspiration data

Table 8. Virtual Soil Model Descriptions

| Virtual Soil Model Name | Rooting Depth, cm | GW Depth, m ‡ | Reference ET, mm/day * | Soil Texture | Hydraulic Parameter Model |
|-------------------------|-------------------|---------------|------------------------|--------------|---------------------------|
| Clay1mF | Flat profile § | 1 | 6 ** | Clay | Van Genuchten |
| Clay1mT | Bottom Heavy † | 1 | 6 | Clay | Van Genuchten |
| Clay1mB | Top Heavy †† | 1 | 6 | Clay | Van Genuchten |
| Clay1m30cm | 30 ¶ | 1 | 6 | Clay | Van Genuchten |
| Clay1m1m | 100 # | 1 | 6 | Clay | Van Genuchten |
| Clay1m3m | 300 ‡‡ | 1 | 6 | Clay | Van Genuchten |
| Clay2mF | Flat profile | 2 | 6 | Clay | Van Genuchten |
| Clay2mT | Bottom Heavy | 2 | 6 | Clay | Van Genuchten |
| Clay2mB | Top Heavy | 2 | 6 | Clay | Van Genuchten |
| Clay2m30cm | 30 | 2 | 6 | Clay | Van Genuchten |
| Clay2m1m | 100 | 2 | 6 | Clay | Van Genuchten |
| Clay2m3m | 300 | 2 | 6 | Clay | Van Genuchten |
| Clay5mF | Flat profile | 5 | 6 | Clay | Van Genuchten |
| Clay5mT | Bottom Heavy | 5 | 6 | Clay | Van Genuchten |
| Clay5mB | Top Heavy | 5 | 6 | Clay | Van Genuchten |
| Clay5m30cm | 30 | 5 | 6 | Clay | Van Genuchten |
| Clay5m1m | 100 | 5 | 6 | Clay | Van Genuchten |
| Clay5m3m | 300 | 5 | 6 | Clay | Van Genuchten |
| Loam1mF | Flat profile | 1 | 6 | Loam | Van Genuchten |
| Loam1mT | Bottom Heavy | 1 | 6 | Loam | Van Genuchten |
| Loam1mB | Top Heavy | 1 | 6 | Loam | Van Genuchten |
| Loam1m30cm | 30 | 1 | 6 | Loam | Van Genuchten |
| Loam1m1m | 100 | 1 | 6 | Loam | Van Genuchten |
| Loam1m3m | 300 | 1 | 6 | Loam | Van Genuchten |
| Loam2mF | Flat profile | 2 | 6 | Loam | Van Genuchten |
| Loam2mT | Bottom Heavy | 2 | 6 | Loam | Van Genuchten |
| Loam2mB | Top Heavy | 2 | 6 | Loam | Van Genuchten |
| Loam2m30cm | 30 | 2 | 6 | Loam | Van Genuchten |
| Loam2m1m | 100 | 2 | 6 | Loam | Van Genuchten |
| Loam2m3m | 300 | 2 | 6 | Loam | Van Genuchten |
| Loam5mF | Flat profile | 5 | 6 | Loam | Van Genuchten |
| Loam5mT | Bottom Heavy | 5 | 6 | Loam | Van Genuchten |
| Loam5mB | Top Heavy | 5 | 6 | Loam | Van Genuchten |
| Loam5m30cm | 30 | 5 | 6 | Loam | Van Genuchten |
| Loam5m1m | 100 | 5 | 6 | Loam | Van Genuchten |
| Loam5m3m | 300 | 5 | 6 | Loam | Van Genuchten |
| Sand1mF | Flat profile | 1 | 6 | Sand | Van Genuchten |
| Sand1mT | Bottom Heavy | 1 | 6 | Sand | Van Genuchten |
| Sand1mB | Top Heavy | 1 | 6 | Sand | Van Genuchten |
| Sand1m30cm | 30 | 1 | 6 | Sand | Van Genuchten |
| Sand1m1m | 100 | 1 | 6 | Sand | Van Genuchten |
| Sand1m3m | 300 | 1 | 6 | Sand | Van Genuchten |
| Sand2mF | Flat profile | 2 | 6 | Sand | Brooks & Correy |
| Sand2mT | Bottom Heavy | 2 | 6 | Sand | Brooks & Correy |
| Sand2mB | Top Heavy | 2 | 6 | Sand | Brooks & Correy |
| Sand2m30cm | 30 | 2 | 6 | Sand | Brooks & Correy |
| Sand2m1m | 100 | 2 | 6 | Sand | Brooks & Correy |

| Virtual Soil Model Name | Rooting Depth | GW Depth | Reference ET | Soil Texture | Hydraulic Parameter Model |
|-------------------------|----------------|----------|--------------|--------------|---------------------------|
| Sand2m3m | 300 | 2 | 6 | Sand | Brooks & Correy |
| Sand5mF | Flat profile § | 5 | 6 | Sand | Brooks & Correy |
| Sand5mT | Bottom Heavy † | 5 | 6 | Sand | Brooks & Correy |
| Sand5mB | Top Heavy †† | 5 | 6 | Sand | Brooks & Correy |
| Sand5m30cm | 30 ¶ | 5 | 6 | Sand | Brooks & Correy |
| Sand5m1m | 100 # | 5 | 6 | Sand | Brooks & Correy |
| Sand5m3m | 300 ‡‡ | 5 | 6 | Sand | Brooks & Correy |
| Clay1m.3mRPET | 30 | 1 | Bosque data | Clay | Van Genuchten |
| Clay1m3mRPET | 300 | 1 | Bosque data | Clay | Van Genuchten |
| Clay2m.3mRPET | 30 | 2 | Bosque data | Clay | Van Genuchten |
| Clay2m3mRPET | 300 | 2 | Bosque data | Clay | Van Genuchten |
| Clay5m.3mRPET | 30 | 5 | Bosque data | Clay | Van Genuchten |
| Clay5m3mRPET | 300 | 5 | Bosque data | Clay | Van Genuchten |
| Loam1m.3mRPET | 30 | 1 | Bosque data | Loam | Van Genuchten |
| Loam1m3mRPET | 300 | 1 | Bosque data | Loam | Van Genuchten |
| Loam2mFRPET | Flat profile | 2 | Bosque data | Loam | Van Genuchten |
| Loam2mTRPET | Bottom Heavy | 2 | Bosque data | Loam | Van Genuchten |
| Loam2mBRPET | Top Heavy | 2 | Bosque data | Loam | Van Genuchten |
| Loam2m.3mRPET | 30 | 2 | Bosque data | Loam | Van Genuchten |
| Loam2m3mRPET | 300 | 2 | Bosque data | Loam | Van Genuchten |
| Loam5m.3mRPET | 30 | 5 | Bosque data | Loam | Van Genuchten |
| Loam5m3mRPET | 300 | 5 | Bosque data | Loam | Van Genuchten |
| Sand1m30cm | 30 | 1 | Bosque data | Sand | Van Genuchten |
| Sand1m3m | 300 | 1 | Bosque data | Sand | Van Genuchten |
| Sand2m30cm | 30 | 2 | Bosque data | Sand | Brooks & Correy |
| Sand2m3m | 300 | 2 | Bosque data | Sand | Brooks & Correy |
| Sand5m30cm | 30 | 5 | Bosque data | Sand | Brooks & Correy |
| Sand5m3m | 300 | 5 | Bosque data | Sand | Brooks & Correy |

‡ Constant groundwater depth used in given model.

§ Anomalous rooting pattern, where rooting density is constant with depth forming a vertical line in a plot of root density profile as discussed in section 3.4.1.3.

† Anomalous rooting pattern, where rooting density is zero at the soil surface and increases linearly with depth as discussed in section 3.4.1.3.

†† Anomalous rooting pattern, where rooting density is at a maximum at the soil surface and decreases linearly with depth as discussed in section 3.4.1.3.

¶ Typical rooting pattern of grasses.

Typical rooting pattern of herbs, annuals and vegetation of moderate rooting depth.

‡‡ Typical rooting pattern of phreatophytes.

* Reference evapotranspiration rate used as model input.

** Model input value used as a typical summer reference evapotranspiration rate for arid regions.

*** Daily reference evapotranspiration calculated from measured Bosque Del Apache climate data using the Penman Montieth Equation.

were taken from the North Bosque weather station for the 21 models using variable reference evapotranspiration (Fig. 6, Appendix A). This was done because this station has humidity and wind data more accurately reflecting conditions at the study sites. The 183day output is taken from the last 183 days of the run, which occurred during March 15 to September 15 of 1999 (peak growing/peak evapotranspiration season).

3.4.1.5. *Virtual Soil Model Calibration and Parameterization*

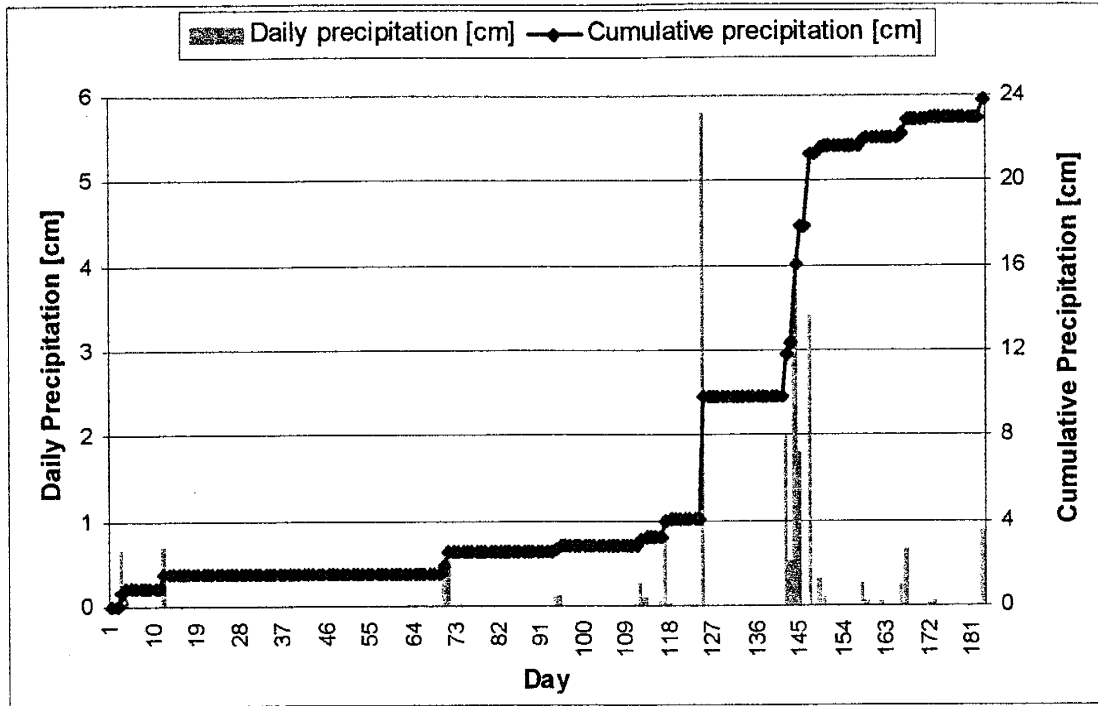
Calculations of water flow made by the Hydrus program have the largest errors in areas where water content is lowest, and at boundaries between soil horizons and at the soil surface (Senja, 1999). Soil profile discretization schemes were created to deal with this effect. The node spacing is the densest at the soil surface and decreases with depth (Table 9, Appendix A). Another source of error was found to be model equilibration time.

Evapotranspiration occurs at high rates during the first phase of evapotranspiration when soil moisture and hydraulic conductivity are high. After some time, during the second and third phases of evapotranspiration, evapotranspiration rates drop-off and then level out somewhat. This study attempts to model the third phase of evapotranspiration which are observed in dry natural systems such as the Bosque field sites.

Modeling experience showed that only by running models for a long calibration period, could phase three evapotranspiration results be produced during the model growing season. A series of theoretical models were run with various lengths of equilibrium time to determine how long the equilibrium period must be in order to obtain accurate and representative evapotranspiration results.

Because clay soils have lower hydraulic conductivities than coarse-textured soils, they require longer periods of modeling time to reach evapotranspiration phase three. These clay models were run with equilibrium periods of 0, 365, 442, 730 and 803 days previous to the 183 days of the evapotranspiration model season (Fig. 7). Evapotranspiration results for all equilibration periods retained the same patterns, in the models with shallow groundwater levels, fine textured soils and deep rooting have higher evapotranspiration rates. The values of

Figure 6: Virtual Soil Model Precipitation †

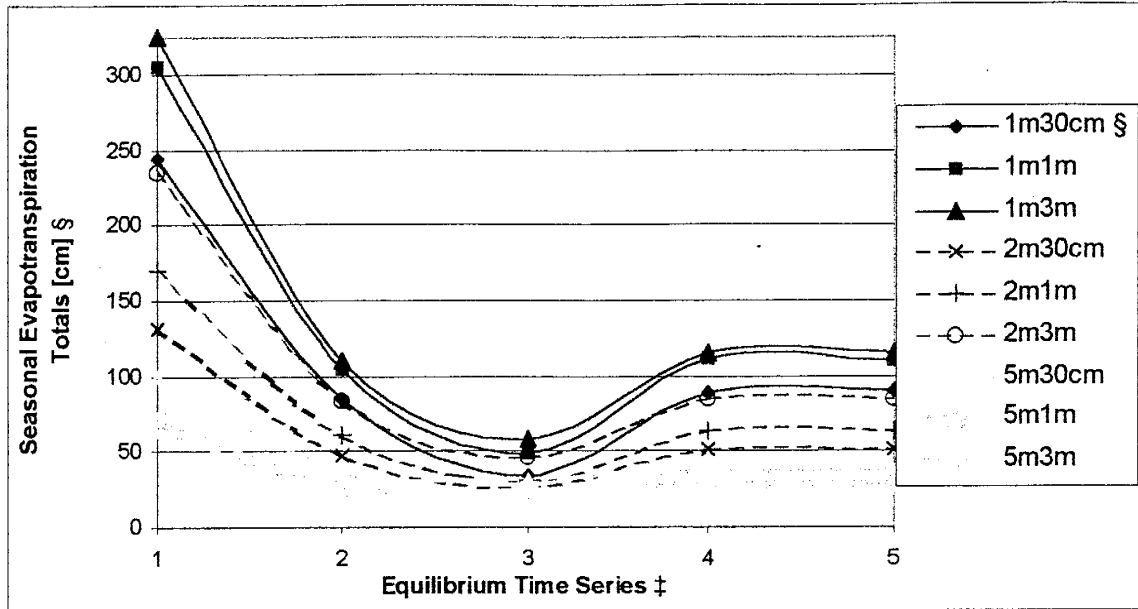


† This precipitation data were collected from the Bosque weather stations and used as model input.

Table 9. Virtual Soil Model Profile Discretization

| Discretization for Clay, Loam and Sands with 1m Water Table | |
|--------------------------------------------------------------|----------------------|
| Depth from Surface, cm | Nodal Spacing |
| Top 0-1 | 1mm discretization |
| 1- 255 | 1cm discretization |
| 255-550 | 5cm discretization |
| Discretization for Sand Soils with Water Tables of 2 and 5 m | |
| Depth from Surface, cm | Nodal Spacing |
| Top 0-2 | 1mm discretization |
| 2- 61 | 1/2cm discretization |
| 61-255 | 1mm discretization |
| 255-550 | 5cm discretization |

Figure 7: Evapotranspiration vs. Equilibrium Times †



† The virtual soil models in clay soils were run for various lengths of time to determine an appropriate equilibration time for phase III evapotranspiration rates. Clay models were used because they require the longest equilibration time.

‡ Equilibrium Time Series Key: (1) = 548 day evapotranspiration totals with no equilibrium period; (2) = 183 day evapotranspiration totals after a 365 day equilibrium period; (3) = 175 day evapotranspiration totals after a 442 day equilibrium period; (4) = 183 day evapotranspiration total after a 730 day equilibrium period; (5) = 183 day evapotranspiration totals after a 803 day equilibrium period

§ Legend Key: 1m30cm is the model with 1m groundwater depth and 30cm rooting depth; 1m1m is the model with 1m groundwater depth and 1m rooting depth; 1m3m is the model with 1m groundwater depth and 3m rooting depth; 2m30cm is the model with 2m groundwater depth and 30cm rooting depth; 2m1m is the model with 2m groundwater depth and 1m rooting depth; 2m3m is the model with 2m groundwater depth and 3m rooting depth; 5m30cm is the model with 5m groundwater depth and 30cm rooting depth; 5m1m is the model with 5m groundwater depth and 1m rooting depth; 5m3m is the model with 5m groundwater depth and 3m rooting depth.

evapotranspiration change substantially, however when the equilibration times are two years or less (Fig. 7). Evapotranspiration results change by a maximum of 1.2% when equilibrium times are two years or more. The equilibrium time of 2.2 years was chosen for all theoretical models according to the results in Table 10, and given that the clay models require the most time for equilibration.

Each model is meant to examine different factors that affect evapotranspiration. Table 10 summarizes the basic differences between the virtual soil evapotranspiration models.

The models were run for 3, 4 and 6 weeks for sand, loam, and clay models respectively from a unit gradient at a 6mm potential evapotranspiration rate, the resulting drier profiles were used as the initial condition for all 75 models (Table 8).

3.4.2. Modeling Evapotranspiration in Field Soils

Three Hydrus 1D models were created to simulate conditions found in the Bosque del Apache field sites. The models were calibrated so that their evapotranspiration results would match those of measured data. One model was used to represent the cottonwood site, which was relatively uniform in soil stratigraphy, and had little lateral variation in rooting pattern overall. Two models were used to represent the saltcedar region, which is highly variable in soil stratigraphy. Two models representing average conditions in the central and southern saltcedar transects were created to account for some of the variability found in this site.

Reference evapotranspiration and precipitation input data was taken from North Bosque weather station data. This data is presented in Appendix A and discussed in the theoretical model, and weather station sections of the methods and materials portion of this paper. The weather data set accounted for each day in 1999. Groundwater level, soil stratigraphy, soil hydraulic properties, and root distribution data were taken from measured data. Cottonwood root density profile shows bulges at the surface, and at two regions at depth (Fig. 8, Appendix A). This allows the vegetation to obtain water from rainfall and the water table, which shifts seasonally. Average soil stratigraphies were determined from soil pits and well installation logs. Saltcedar root distributions are less distinctive (Fig. 9). They taper downward from high root

Table 10. Total Evapotranspiration Fluxes Verses Equilibrium Time

| Equilibrium Time series: | I † | II ‡ | III § | IV ¶ | V # |
|--------------------------------------------|--------|--------|-------|--------|--------|
| Cumulative Seasonal Evapotranspiration, cm | | | | | |
| Model Name | | | | | |
| Clay1m30cm | 244.04 | 84.52 | 34.40 | 88.71 | 89.71 |
| Clay1m1m | 305.53 | 105.21 | 49.66 | 110.91 | 109.91 |
| Clay1m3m | 324.44 | 110.62 | 58.04 | 114.91 | 115.91 |
| Clay2m30cm | 131.63 | 47.99 | 26.90 | 51.52 | 51.53 |
| Clay2m1m | 170.24 | 61.50 | 30.62 | 63.50 | 63.52 |
| Clay2m3m | 234.84 | 82.96 | 46.72 | 84.26 | 85.26 |
| Clay5m30cm | 63.44 | 25.84 | 23.40 | 27.11 | 27.21 |
| Clay5m1m | 71.74 | 28.45 | 24.83 | 28.81 | 28.81 |
| Clay5m30cm | 99.94 | 37.02 | 31.49 | 37.41 | 37.41 |

† 548 day model time run. No equilibration period. Modeled evapotranspiration results used for the entire 548 period of model run time.

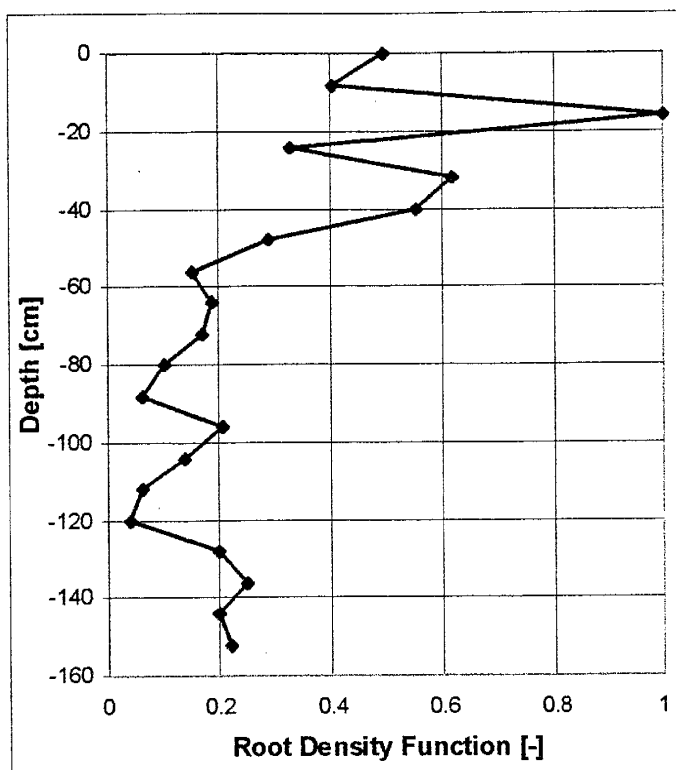
‡ 548 day model time run. 365 day equilibration period. Modeled evapotranspiration results used for the last 183 day period of model run time.

§ 617 day model time run. 442 day equilibration period. Modeled evapotranspiration results used for the last 175 day period of model run time.

¶ 913 day model time run. 730 day equilibration period. Modeled evapotranspiration results used for the last 183 day period of model run time.

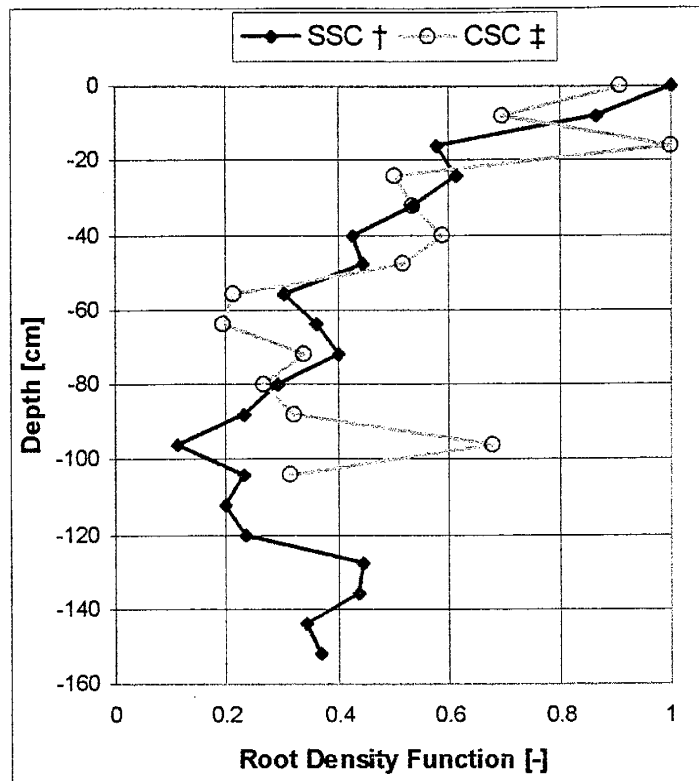
986 day model time run. 803 day equilibration period. Modeled evapotranspiration results used for the last 183 day period of model run time.

Figure 8: South Cottonwood Root Profile †



† Roots counts were made along three walls of a 2m deep soil pit in the center of the south cottonwood transect.

Figure 9: Saltcedar Root Profiles



† Roots counts were made along three walls of a 2m deep soil pit in the center of the south saltcedar transect.

‡ Roots counts were made along three walls of a 1.7m deep soil pit in the center of the central saltcedar transect.

counts near the surface. Saltcedar roots contain many more fine hair roots and fewer taproots than the cottonwood vegetation.

Soil hydraulic properties for these models were determined from sampled soil columns examined in the laboratory as described in the soil analysis methods and materials portion of this paper. The upper boundary condition is atmospheric with surface runoff. This boundary condition was chosen so that daily meteorological data would factor into evapotranspiration calculations. The option of surface runoff allowed the program to run smoothly when floodwaters were introduced. Because the surface of the soil is level, floodwaters and rainwater will not flow laterally off of the soil surface. The lower boundary condition is variable pressure head boundary where the boundary pressure is determined by the groundwater level.

When the saltcedar models were run using only measured climate data, the resulting summer evapotranspiration rates were 5 to 65% lower than measured evapotranspiration rates. Analysis of field notes showed when flooding occurred, the extent of flooding and the approximate depth of the floodwater on the soil surface. When floodwater was introduced on the soil surface, modeled evapotranspiration results became very similar to the measured results. Flood input and Feddes root model parameters were augmented slightly to match modeled evapotranspiration to measured evapotranspiration.

There was no flooding in the cottonwood region. This allows the soils to remain very dry. This leads to mathematical instabilities in the computer calculations of fluid flow, as water flows upward from a fine soil into very dry sand, and from the sand into the atmosphere. In order for the model to run to completion and to match measured evapotranspiration patterns more accurately, Feddes parameters had to be adjusted so that the matric potentials were diminished. The Feddes parameters presented in Tables 11 & 12 create more root uptake from more moist regions yet preserve the overall transpiration trends. Precipitation data from North and South Bosque weather stations vary slightly. An average of the two data sets was used in order to match measured cottonwood evapotranspiration data more accurately. Figure 10 shows the precipitation data used in the cottonwood models.

Table 11. Saltcedar Model Feddes Root Model Uptake Parameters

| Feddes Parameter | Value |
|------------------|-------------|
| P0 † | -20 cm |
| P0pt ‡ | -30 cm |
| P2H § | -300 cm |
| P2L ¶ | -1000 cm |
| P3 # | -8000 cm |
| r2H †† | 0.75 cm/day |
| r2L ‡‡ | 0.3 cm/day |

† Matric potential below which root uptake commences.

‡ Matric potential at which root uptake can reach maximum potential.

§ Matric potential at which root uptake is limited by both maximum potential and the r2H rate of transpiration.

¶ Matric potential at which root uptake is limited by the maximum potential and the r2L rate of transpiration.

Matric potential below which transpiration ceases.

†† Maximum rate of transpiration under normal conditions.

‡‡ Maximum rate of transpiration under water stress conditions.

Table 12. Cottonwood Model Feddes Root Model Uptake Parameters

| Feddes Parameter | Value |
|------------------|-------------|
| P0 † | -1 mm |
| P0pt ‡ | -2 cm |
| P2H § | -80 cm |
| P2L ¶ | -250 cm |
| P3 # | -1500 cm |
| r2H †† | 0.75 cm/day |
| r2L ‡‡ | 0.5 cm/day |

† Matric potential below which root uptake commences.

‡ Matric potential at which root uptake can reach maximum potential.

§ Matric potential at which root uptake is limited by both maximum potential and the r2H rate of transpiration.

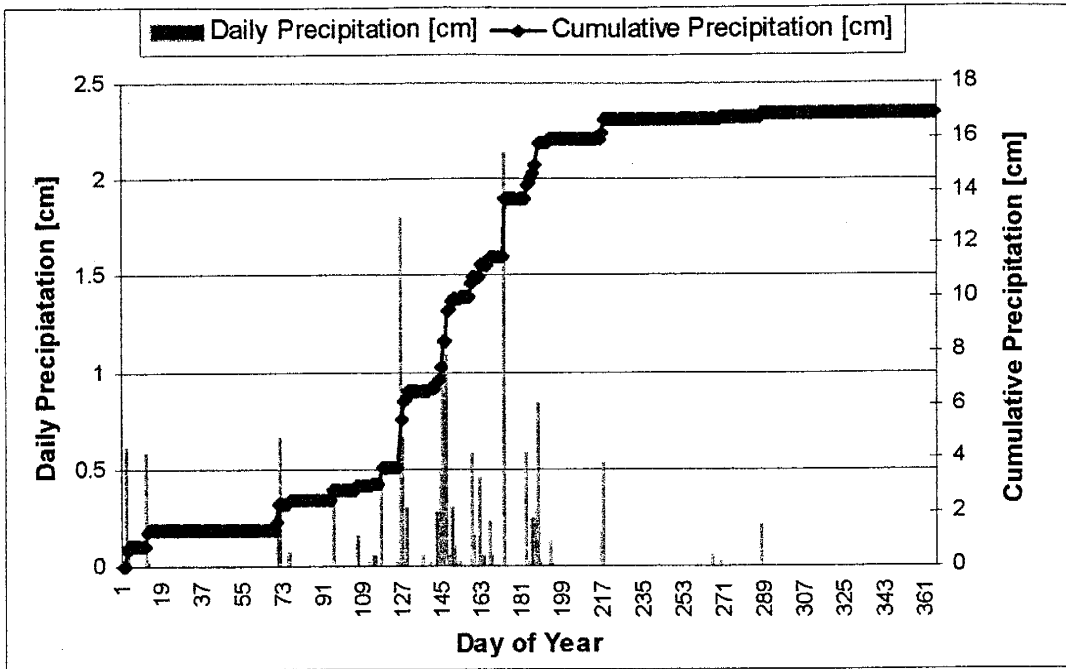
¶ Matric potential at which root uptake is limited by the maximum potential and the r2L rate of transpiration.

Matric potential below which transpiration ceases.

†† Maximum rate of transpiration under normal conditions.

‡‡ Maximum rate of transpiration under water stress conditions.

Figure 10: Bosque Model Precipitation †



† This precipitation data were collected from the Bosque weather stations and used as model input.

The models were run for three years with the last year used for data and the first two used as an equilibration period. Once the models were calibrated to the measured data 15 more models were created with the groundwater levels augmented such that the yearly averages were at depths of 30, 50, 100, 200, 500 and 700 cm for each of the three original models (Table 13). This was done to study the effects of groundwater level on evapotranspiration in more models with more realistic data.

Table 13. Bosque Model Organization

| Model Name | Average Water Level, cm | Region of Study |
|------------|-------------------------|------------------------------|
| CSCMatP193 | -30 | Central saltcedar transect |
| CSCMatP171 | -50 | Central saltcedar transect |
| CSCMatP120 | -100 | Central saltcedar transect |
| CSCMat | -200 | Central saltcedar transect |
| CSCMatM283 | -500 | Central saltcedar transect |
| CSCMatM483 | -700 | Central saltcedar transect |
| SCWMatP246 | -30 | Southern cottonwood transect |
| SCWMatP224 | -50 | Southern cottonwood transect |
| SCWMatP173 | -100 | Southern cottonwood transect |
| SCWMat | -270 | Southern cottonwood transect |
| SCWMatM226 | -500 | Southern cottonwood transect |
| SCWMatM426 | -700 | Southern cottonwood transect |
| SSCMatP182 | -30 | Southern saltcedar transect |
| SSCMatP162 | -50 | Southern saltcedar transect |
| SSCMatP112 | -100 | Southern saltcedar transect |
| SSCMat | -211 | Southern saltcedar transect |
| SSCMatM288 | -500 | Southern saltcedar transect |
| SSCMatM488 | -700 | Southern saltcedar transect |

4. RESULTS AND DISCUSSION

4.1. FIELD MEASUREMENTS

Measurements were taken in the Bosque field sites from September 1998 to May 2000. Groundwater depth measurements were taken for the entire period. Salinity and soil water content measurements were taken to December 1999. These measurements were taken in order to correlate with evapotranspiration data measured by Dr. Bawazir at New Mexico State University, as well as to provide for modeling input.

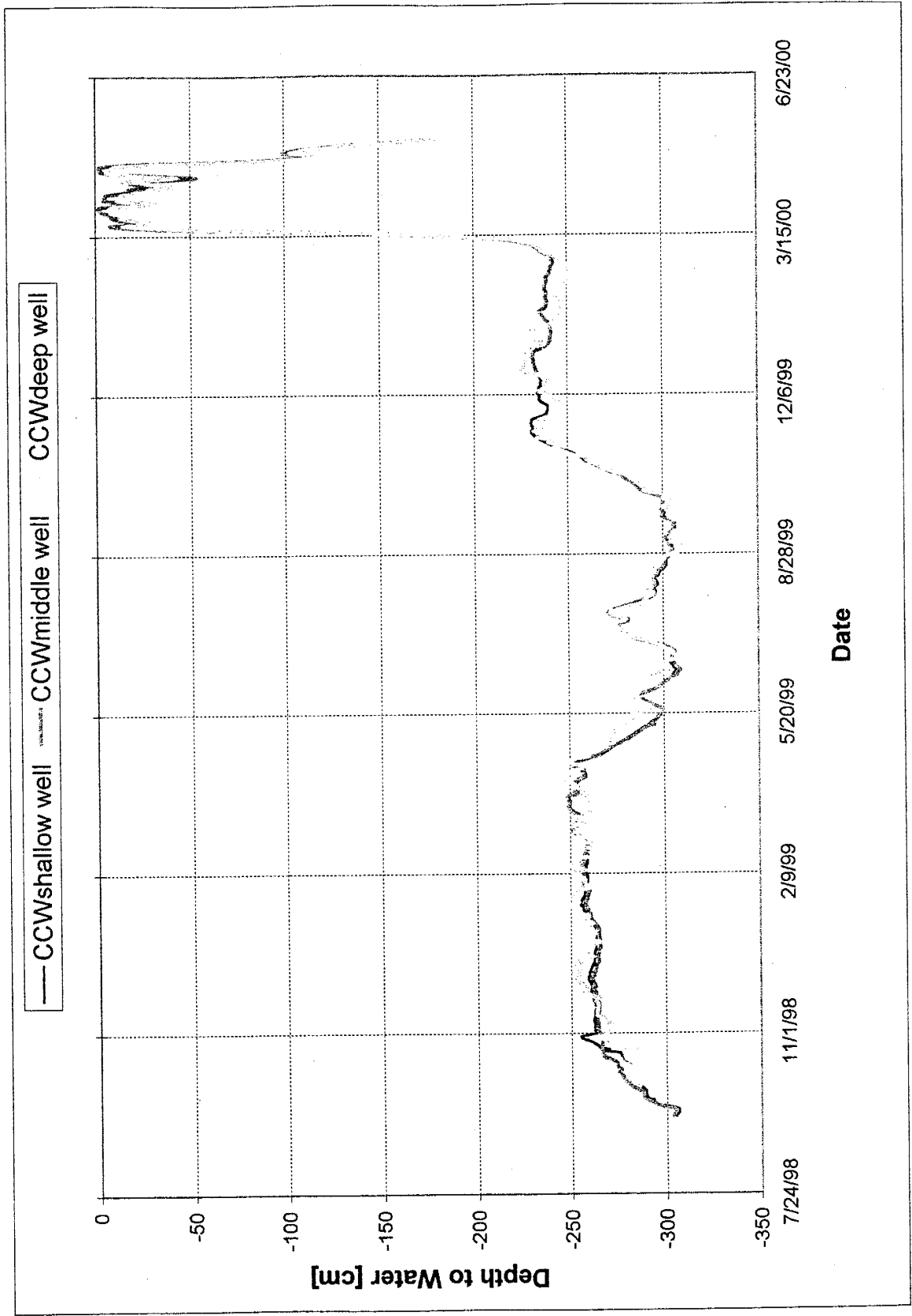
4.1.1. Monthly Averaged Groundwater Depths

Appendix B shows daily averages of groundwater levels for various wells in the Bosque field site. When plotted, these data show several spatial and seasonal trends. In the saltcedar site, water flows from the Rio Grande eastward across the field site to discharge in the low-flow channel. In the cottonwood site, water flows from the West to drain in the low-flow channel with contributions from irrigated lands and flooding ponds to the West and Northwest. According to field data, there is also a deeper (>10 m) flow regime of brackish water flowing westward toward the Rio Grande and low-flow channel (Map 1).

4.1.1.1. *Cottonwood Groundwater*

Figures 11 to 16 show water depths data from the five transects and nested piezometers in the field sites. The nested piezometer (CCW) shows very consistent groundwater depth data indicating that there is very little vertical flow except for some upward flow during May and June of 1999 (Fig. 11). Groundwater depths drop during the summer, and rise during winter. This is due to flooding of areas approximately 700 m to the Northwest of this site. The flooded areas are maintained and managed for waterfowl wintering on the Bosque del Apache Wildlife Refuge. In March, of 2000 a levee, which was built to retain flood pond water, broke and flooded a great

Figure 11: Central Cottonwood Groundwater Depths



portion of the cottonwood region. This accidental flood shows up as a groundwater level spike in all cottonwood groundwater depth data. This does not affect evapotranspiration values, which were recorded for 1999.

The groundwater depths in the South cottonwood transect show trends that are very similar to the central cottonwood data. The groundwater depths shallow to the West, indicating flow to the East. Peaks in groundwater level in mid-summer correspond well with summer monsoon season indicating summer recharge in the local vicinity. In general, the South Cottonwood transect (SCW) data all follow the same trend, indicating a relatively simple groundwater flow regime of West to East flow (Fig. 12). The winter groundwater depth variability is generally accounted for by variations in flood stage to the West. As the flood stage rises or falls in the West, groundwater depth decreases or increases in response. The summer water level variability is generally accounted for by precipitation, evapotranspiration and drainage canal water level.

The water levels in the North cottonwood area are more strongly affected by flooding ponds approximately 300 m to the West (Fig. 13). The well adjacent to the low-flow channel (NCW0) has relatively steady water levels reflecting the relatively constant stage in the low-flow channel (Fig. 13). Flooding in West swells the groundwater table to the West and causes a large gradient to the East. This induces an eastward flow during winter. When flooding ceases and groundwater depth increases in summer, there is little gradient from West to East, and more gradient from North to South. This induces flow parallel to the flow of surface waters, with some eastward flow component towards the low flow channel.

4.1.1.2. *Saltcedar Groundwater*

In the saltcedar areas, river stage, precipitation and evapotranspiration influence groundwater depths. Wells NSC1 and SSC00 in the North and South transects reflect river stage. The groundwater table slopes downward away from the river indicating Rio Grande discharge. The further the well is from the river, the more dampened the river stage signal becomes. The three distinct flooding episodes in late May, mid-June and August have blurred in the data to two peaks in groundwater (Figs. 14-16). Groundwater levels never reached

Figure 12: Central Saltcedar Groundwater Depths

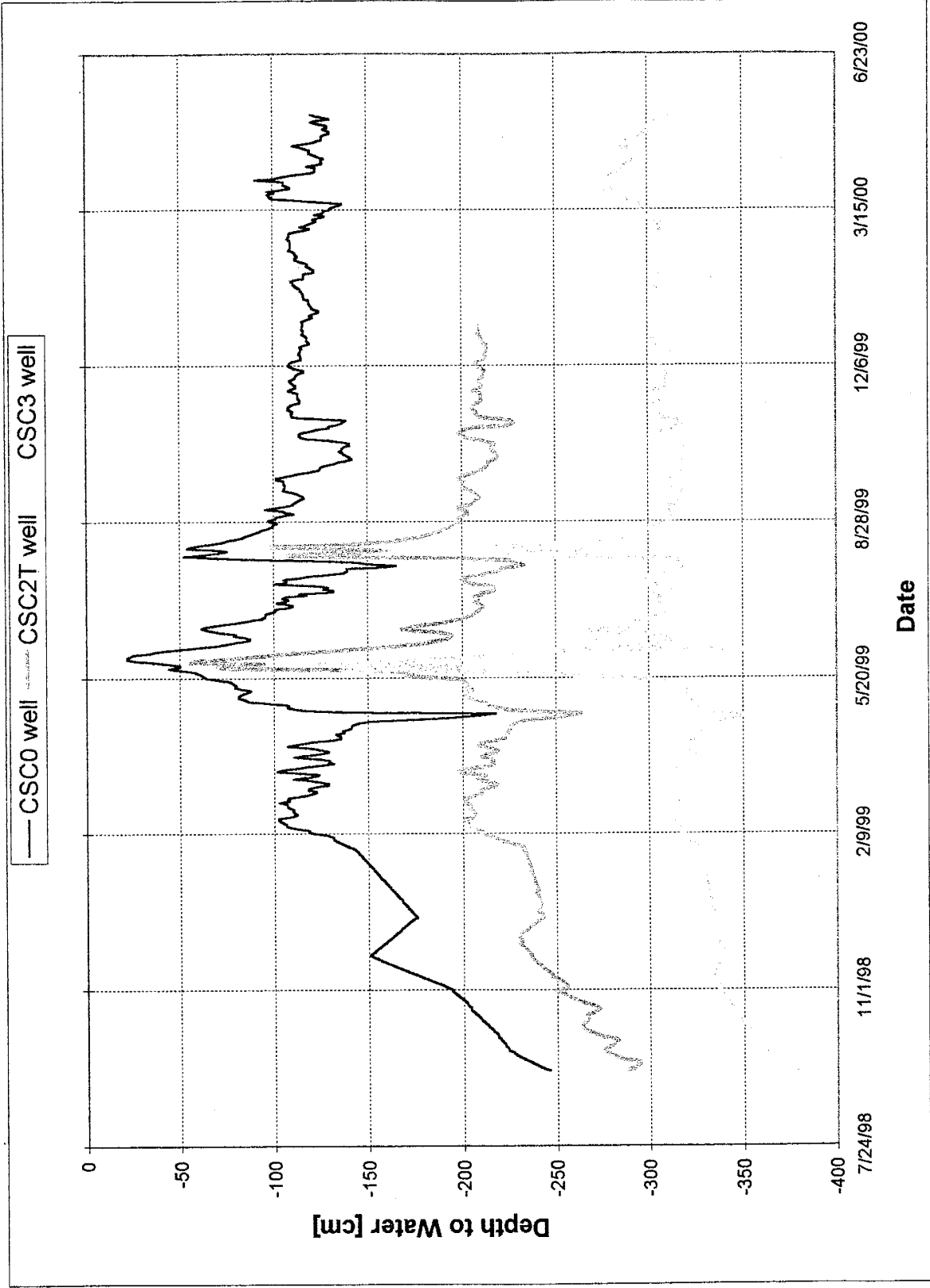


Figure 13: North Cottonwood Groundwater Depths

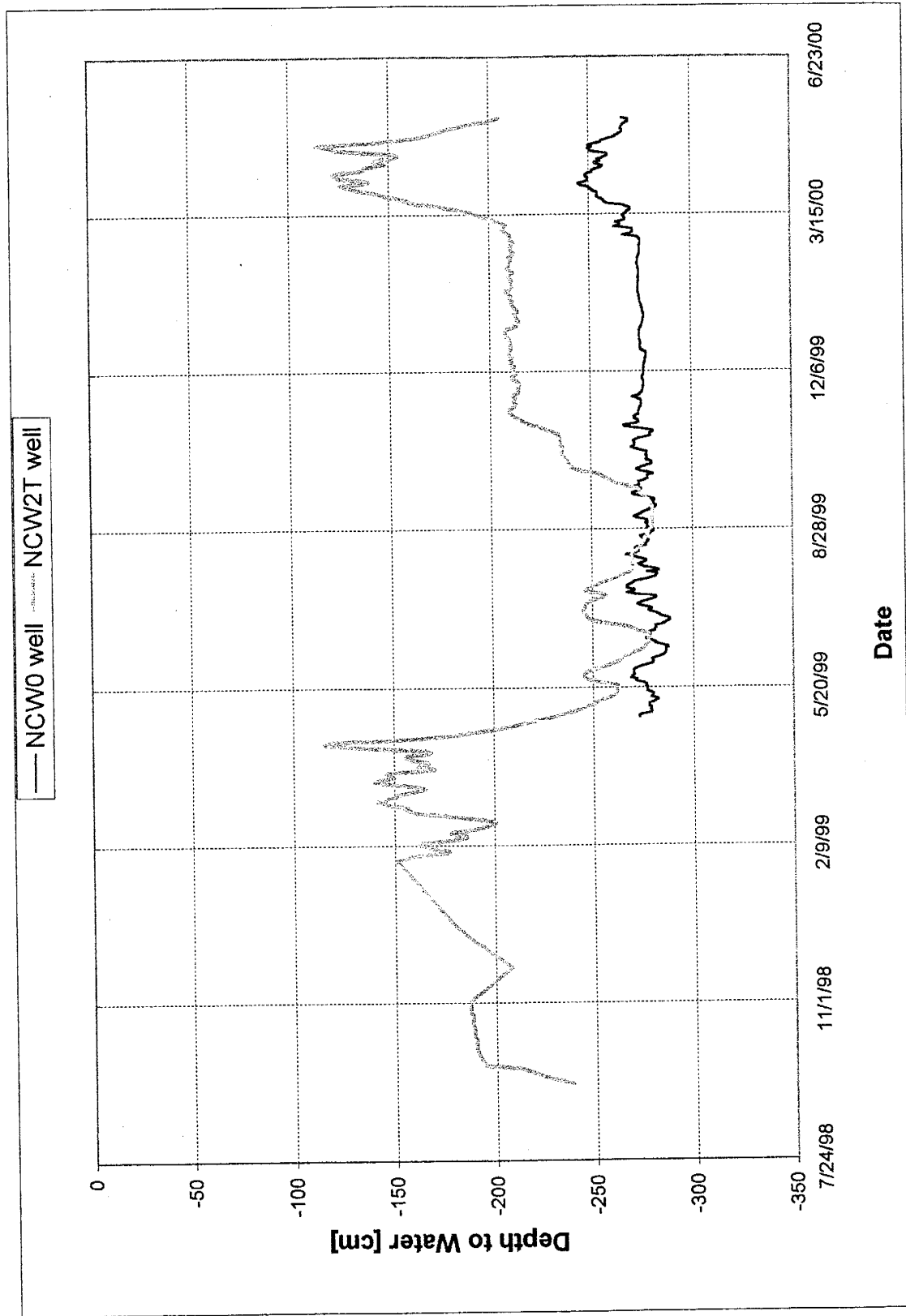


Figure 14: North Salcedar Groundwater Depths

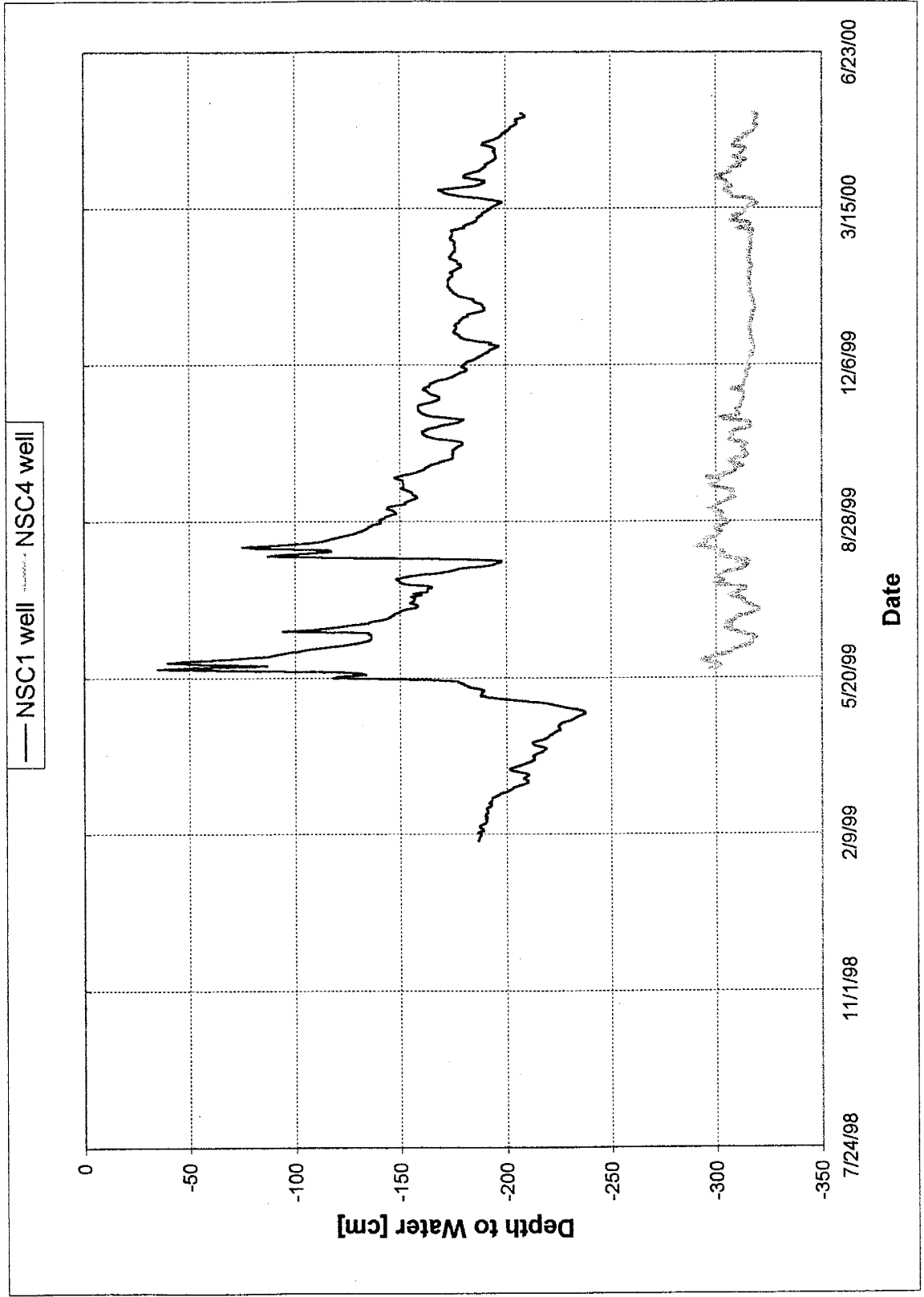
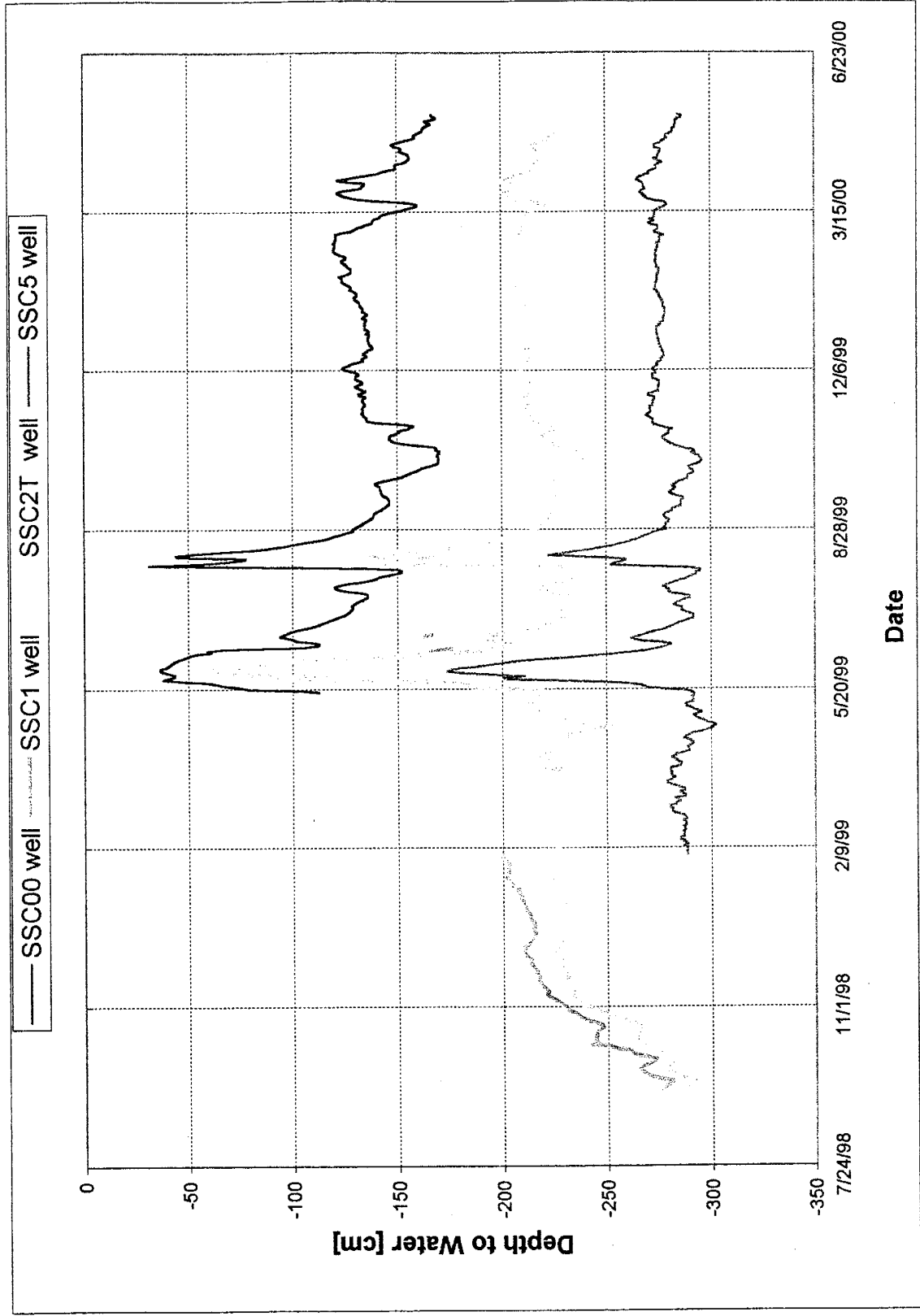


Figure 16: South Saltcedar Groundwater Depths



equilibrium with floodwater, so that an unsaturated soil lay beneath ponding water in a majority of areas during the entire flood period.

The eastern portion of the central transect and central portion of the southern saltcedar transect received the most flood water (35cm to 130cm deep). Therefore, these areas (SSC2T & CSC3) have the largest peaks in groundwater depth (Figs. 15 & 16). A depressed river stage in winter and spring increase groundwater depths across the salt cedar area. The effects of evapotranspiration on groundwater levels are not easily detected in the groundwater data at these time scales.

The water depth data indicate a rather uniform East to West groundwater flow. The complex soil stratigraphy would indicate a more complex flow pattern controlled by hydraulic conductivity heterogeneity. Floodwater flow occurs in a complex pattern controlled by topography and vegetation debris. However, the groundwater data indicate a general East to West flow with little North to South flow except near the river (Figs. 14-16).

4.1.2. Daily Groundwater Depth Fluctuations

Different patterns emerge from the groundwater depth data once the time scale is reduced. The groundwater depth plots from 30 min interval data show a different pattern that shows root uptake as the dominant influence on daily water level fluctuations. In both the cottonwood and saltcedar sites, groundwater depth fluctuations on daily sinusoidal cycle such that groundwater depths are at a minimum during the afternoon, and at a maximum during the pre-dawn morning hours. The vegetation draws water from the soil such that the water levels drop during the hours when photosynthesis occurs and roots take in water. The groundwater levels recover and/or soil moisture returns to the water table at night.

These fluctuations can be distinguished from noise because of the regular patterns and because the daily cycles do not occur in winter when plants are not actively transpiring. Small daily oscillations are observed in April, which in amplitude a peak from July to September in the cottonwoods and in May to July in the saltcedar (Fig. 17). The maximum daily fluctuations are 3 to 6 cm in the saltcedar and 1.5 to 3.5 cm in the cottonwood (Fig. 18).

Figure 17: Saltcedar Daily Fluctuations

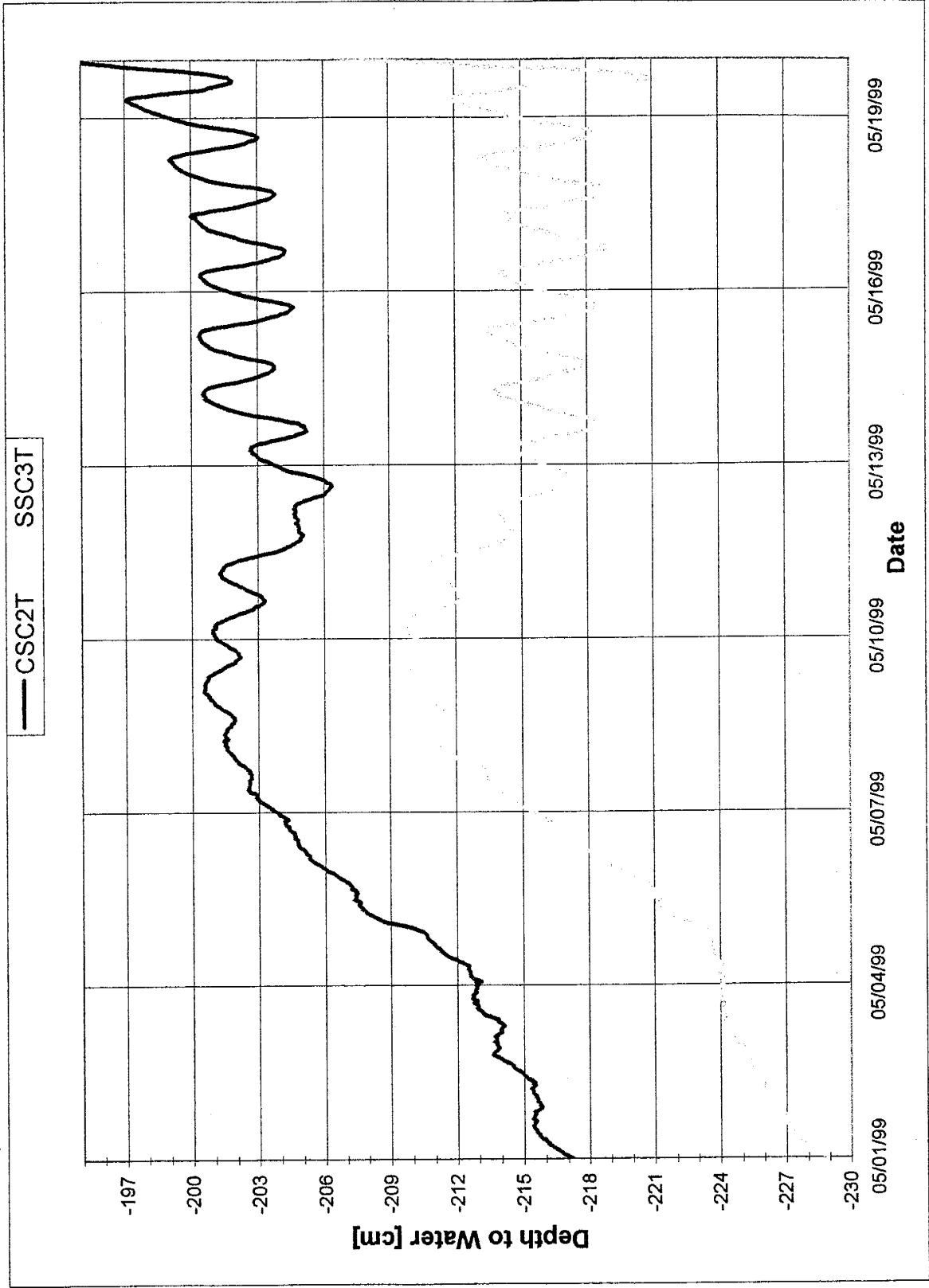
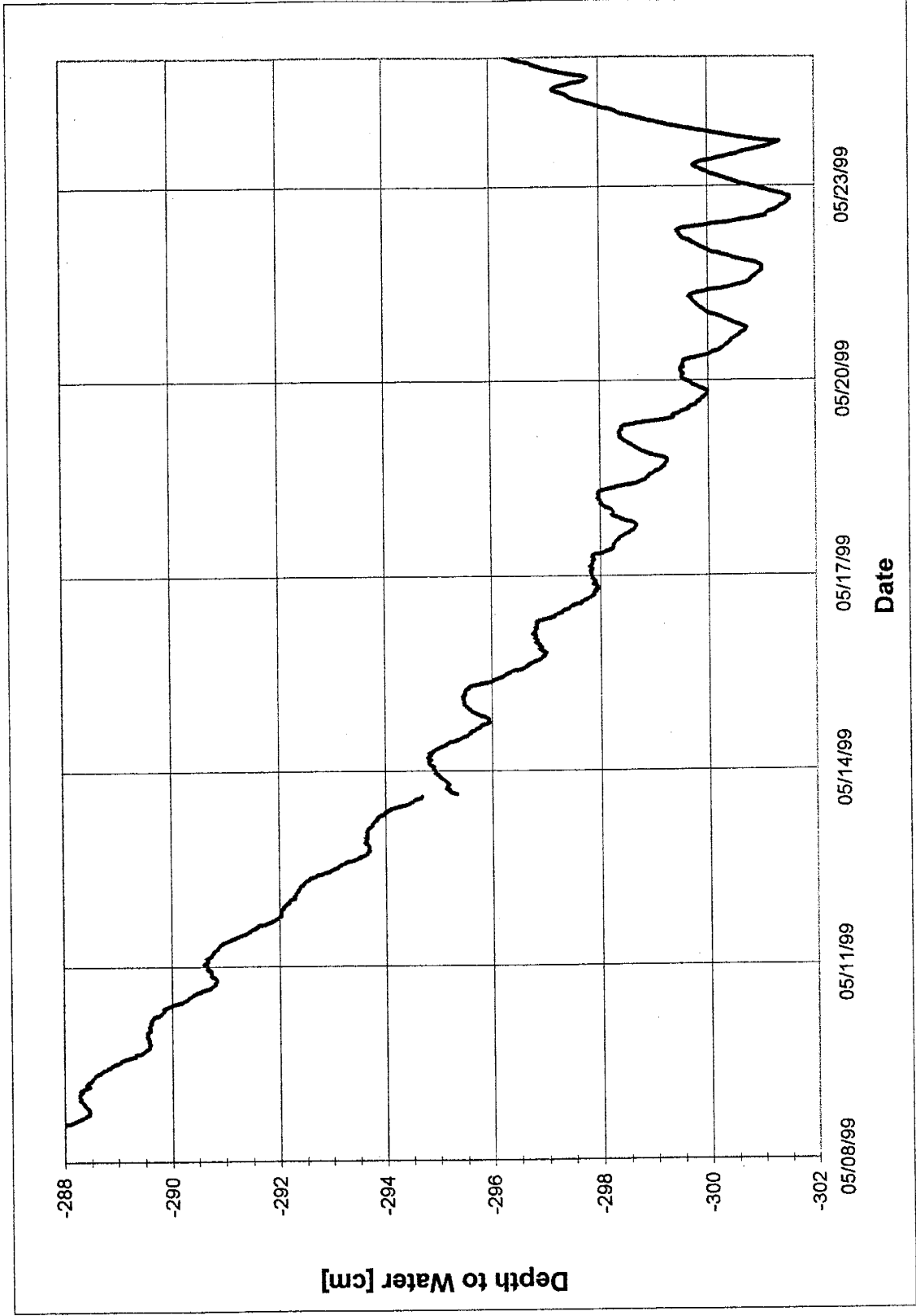


Figure 18: SCW3T Daily Fluctuations



The mature saltcedar trees produce a great deal of new growth in the first months after spring budding. Thereafter growth slowed according to field observations, along with the daily oscillations in groundwater level. It is not certain whether this is a yearly occurrence. After this period of rapid growth flooding occurred, which initially increased transpiration, but may have diminished soil aeration and increased salinity to the point where plant health and root uptake may have suffered. A few wilted plants were noted in August of 1999. It is not certain whether the flooding events increased transpiration in 1999 overall by supplying more soil moisture or decreased transpiration by waterlogging soils. It is likely, however that the tremendous amount of evaporation accompanying the floods in mid and late summer surpassed any diminishment in transpiration.

Because the cottonwood vegetation activity (growth and photosynthesis) is slower and steadier than the activity of saltcedar, daily oscillations are smaller and the peak transpiration season is spread out over a larger season (Fig. 18). The daily oscillations in the saltcedar (4 to 6cm in summer) site are approximately double that of the cottonwood (0.5 to 3 cm in summer) (Figs. 17 & 18). This does not indicate that saltcedar transpiration was double that of the cottonwood. According to field measurements, unsaturated portions of the saltcedar soils contain between 20% and 35% water by volume, and the saturated zone contains approximately 38% water. The unsaturated sands of the cottonwood site contain approximately 7% water, and the saturated zone contains approximately 36% water. According to the soil moisture data and soil retention curve data, 3 and 6 cm amplitude oscillations in the saltcedar may translate to approximate transpiration rates of 3.0 and 6.0 mm/day respectively. Similarly, 0.5 and 3 cm amplitude oscillations in the cottonwood translate approximate transpiration rates of 0.9 and 5.3 mm/day. According to Dr. Bawazir's measurements, average daily July evapotranspiration was 7.43 mm/y in the saltcedar stands, and 4.90 mm/y in the cottonwood stands.

It appears that saltcedar transpiration is somewhat higher than cottonwood transpiration. According to the patterns found in the daily fluctuation data and the fact that saltcedar are more densely populated, there is reason to believe that plant density and physiology do affect

transpiration. Yet, soil water content and texture seem to be more important factors when compared to modeling results and soil measurements. One may not conclude that saltcedar species are significantly greater water consumers than native vegetation even when groundwater level data indicate higher transpiration in the saltcedar than in the cottonwood site. Evapotranspiration differences between the two sites are caused by soil texture and moisture disparities as well as vegetation differences between the two study areas. This study will show that a great deal of the difference in evapotranspiration may result from soil textural, and moisture differences. Plant physiology may play a role in the evapotranspiration differences, but this may be of much less importance.

4.1.3. Soil Water Content

Soil water content data measurements were taken from September 1998 to December 1999 (Appendix B). These data show some seasonal trends and some behavioral differences between the vegetation communities (Figs. 19-24). The soil moisture profiles are heavily influenced by soil stratigraphy.

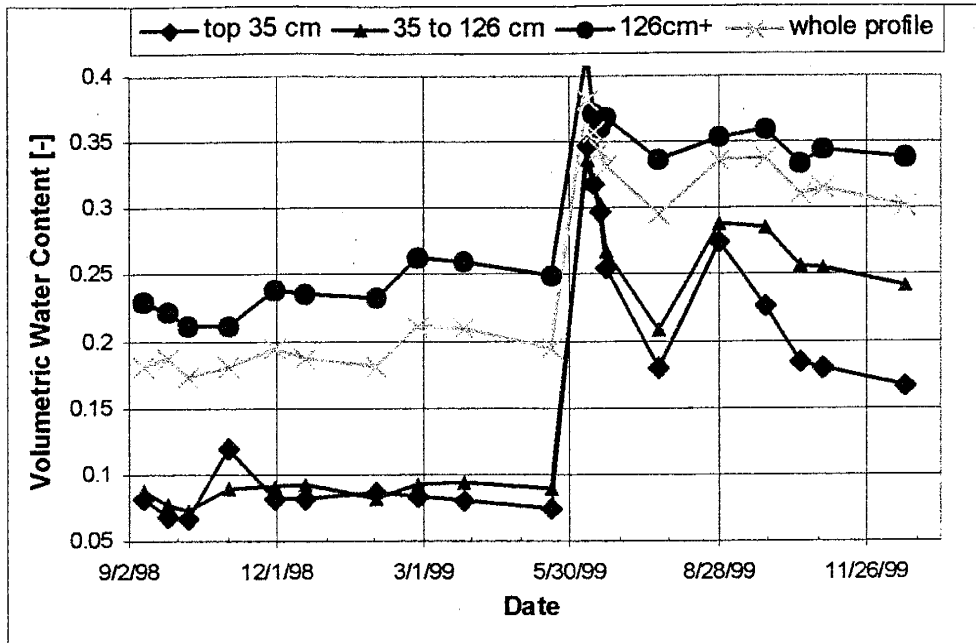
4.1.3.1. *Saltcedar Soil Water Content*

Soil moisture was higher in the salt cedar site due to fine soil texture, and flooding. The flood peaks in June and August were evident (Fig. 19). There is only slight depletion of soil water in the rooting zone, in May, July and late August that can be attributed to vegetation (Fig. 19). Overall, saltcedar area soil water content is highest in the summer (Fig. 19).

Soil water content is very low in the cottonwoods except in the top clay loam layer, and near the water table. The small effect of the rainy season can be seen in June soil water content (Fig. 20). The shallowing of groundwater depth in the cottonwood stands during the winter, which is caused by flooding to the Northwest, increases soil moisture overall to the seasonal maximum (Fig. 20). Overall, soil moisture decreases in the summer except for during the monsoon rain events (Fig. 20).

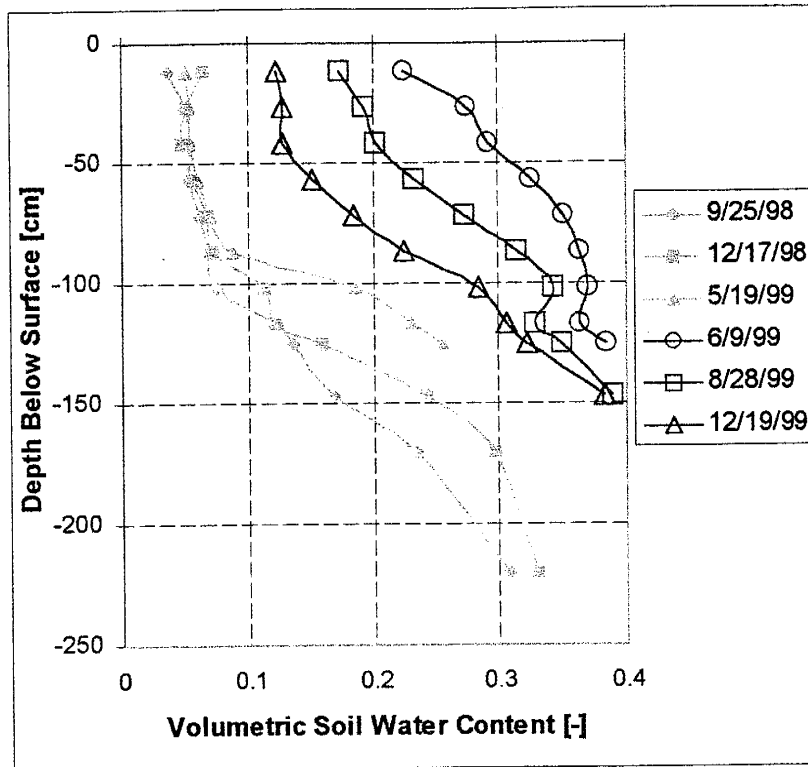
Figures 21-24 and data in Appendix B show discrete soil water content data. The plots were created to show the maximum seasonal shifts in the soil water content profile. The data for

Figure 19: SSC2T Average Water Content Profile †



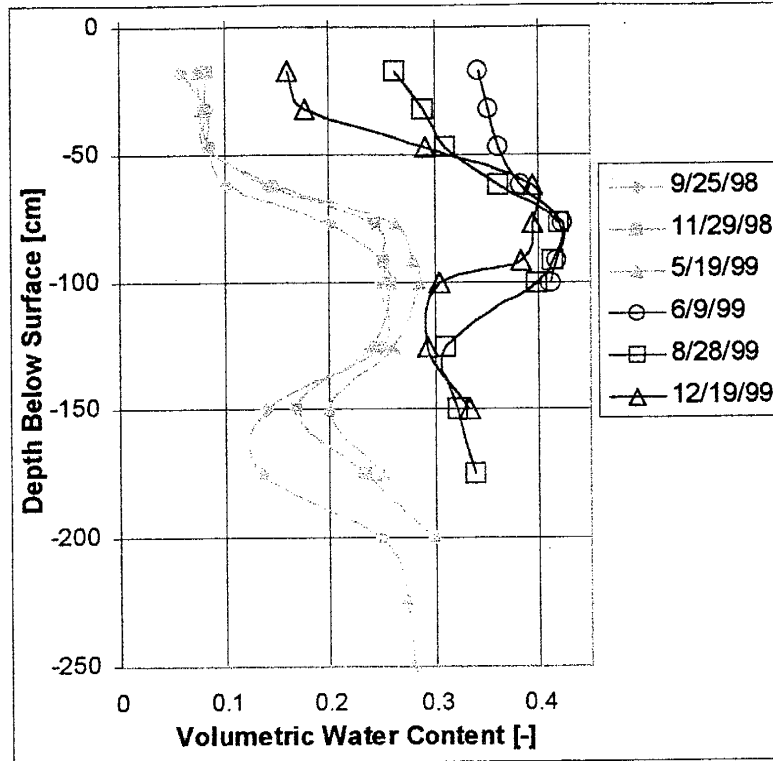
† Soil moisture is measured using the neutron probe method and calibrated by soil sampling. The above measurements were taken at the SSC2T is the well which is located adjacent the micrometeorology tower in the south saltcedar transect. Data were averaged for various portions of the soil profile, which behaved similarly in order to better display results chronologically.

Figure 21: CSC2T Soil Water Content †



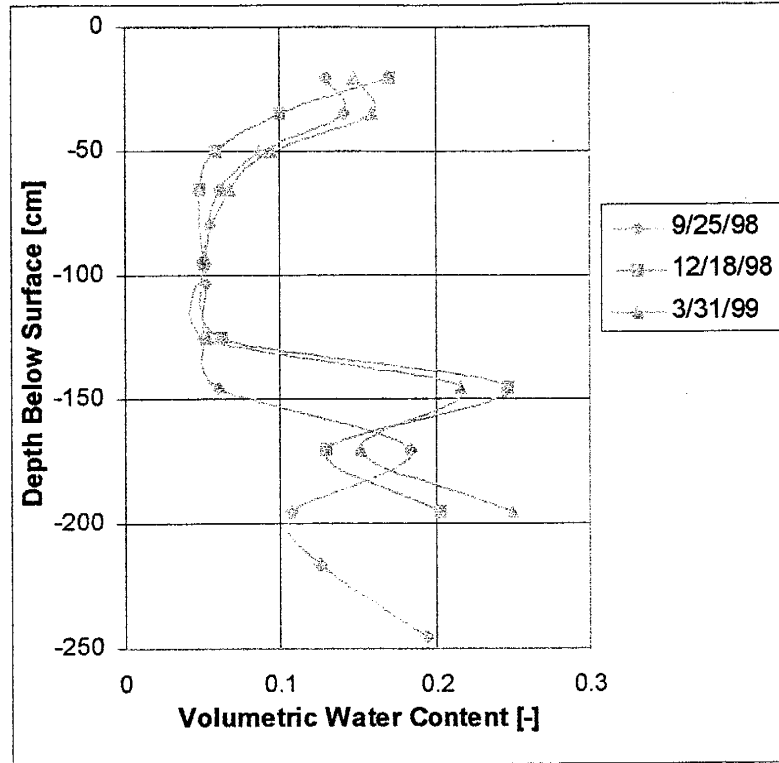
† Soil moisture is measured using the neutron probe method and calibrated by soil sampling. The above measurements were taken at the CSC2T is the well which is located adjacent the micrometeorology tower in the central saltcedar transect.

Figure 22: SSC3T Soil Water Content †



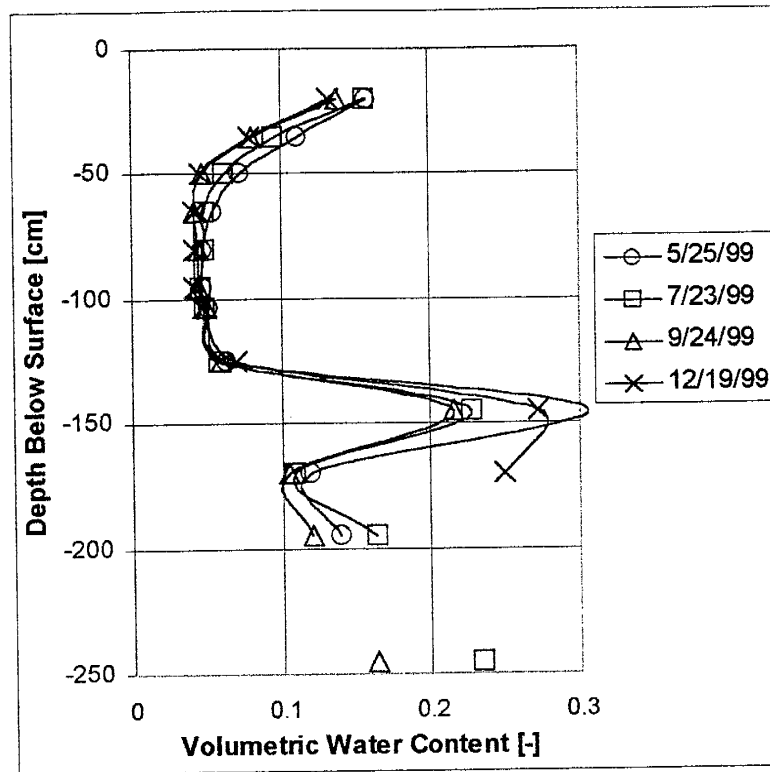
† Soil moisture is measured using the neutron probe method and calibrated by soil sampling. The above measurements were taken at the SSC2T is the well which is located adjacent the micrometeorology tower in the south saltcedar transect.

Figure 23: SCW2T Soil Water Content †



† Soil moisture is measured using the neutron probe method and calibrated by soil sampling. The above measurements were taken at the SCW2T is the well which is located adjacent the micrometeorology tower in the south cottonwood transect.

Figure 24: SCW2T Soil Water Content †



† Soil moisture is measured using the neutron probe method and calibrated by soil sampling. The above measurements were taken at the SCW2T is the well which is located adjacent the micrometeorology tower in the south cottonwood transect.

the CSC2T well (central saltcedar transect) show a seasonal pattern of wetting in mid-summer and drying in the fall (Fig. 21). The central saltcedar transect received less floodwater along most of its length during the 1998 floods than during the 1999 summer floods. The result is that by September 25, 1998 the soil profile has already become dry (Fig.21). The soil water content profile remains very similar from this date to the May 19, 1999 measurements (Fig. 21). In spring, the Rio Grande stage rises, causing some increases in soil moisture and a rise in the water table. Spring also sees a drying in the top 60 cm of the soil profile due to an increase in evapotranspiration. The June 9, 1999 data show a rapid increase in soil water content due to flooding (Fig. 21). The dense surface clays prevent quick infiltration in most areas, thus soil water content actually increases from below when flooding occurs. Subsequent floods insure that the soils remain wet into late summer. Thereafter, evapotranspiration from the top 60 cm and gravity drainage from the lower portions of the soils dry the soils somewhat by the end of the year. Preferential drying seems to occur at 130 cm, possibly due to root extraction.

The South saltcedar transect shows a somewhat different seasonal soil water content pattern (Fig. 22). Flooding which occurred in mid-summer 1998 produced a bulge in soil moisture at approximately 1 m depth under the dense, cracked, surface clays (Fig. 22). The top 60 cm dried considerably after the 1998 flood, due to evapotranspiration. Also drainage from below has dried the lower sections, but not the central portion of the profile at one meter depth. Over the winter, the bulge in soil water content has flattened slightly. There has been very little water flow to this point. In the spring, when field notes indicated that saltcedar begin to grow vigorously and groundwater levels rose, groundwater was drawn up into the soil by capillary action and high matric potentials. The top 60 cm remain relatively dry due to the large evapotranspiration drafts according to tensiometer, and neutron probe data (Fig. 22). In the June 9, 1999 data (Fig. 22), the floodwaters have nearly saturated the entire profile except for the top 60 cm. Subsequent to flooding, river stage and groundwater levels drop causing soil moisture to drain from below. As this drainage occurs, the surface layers dry due to evapotranspiration drafts. The draining and evapotranspiration leave a soil water content bulge at approximately 75 cm depth by August 8, 1999 (Fig. 22). Soil moisture is depleted from the top 50 cm substantially after the flooding, and

pulls the moisture bulge in the center of the profile is pulled upward slowly indicating evapotranspiration drafts are occurring in the top 50 cm and the high matric potentials pulls soil moisture upwards (Fig. 22). At the end of the year a water content bulge remains in the center of the profile similar to the previous year's water content profile. Thus, the excess soil moisture is never allowed to drain from the soil profile because of the slow drainage in heavy soils and because of yearly floods.

4.1.3.2. *Cottonwood Soil Water Content*

The soil water content profiles in the South cottonwood site are very dry, and only vary slightly seasonally (Appendix B). This is primarily due to the coarse well-draining soils. A fine upper unit and lenses of clay at 1.45 m depth retain higher water contents throughout the year. Near the end of the 1998 growing season, a dry profile can be observed (Fig. 23). Soil water content was very low below 1 m depth due to evapotranspiration drying and low groundwater levels. The surface was very dry, yet the near surface was much less dry due to a small retention of summer monsoon rainwater (Fig. 23). Low evaporation drafts and frost deposition of moisture on the soil surface replenished soil moisture near the surface, from January into spring (Fig. 23). After the growing season began, soil moisture diminished all year in the near surface, despite summer monsoons, and a very dry soil from which to draft water (Fig 24). Moisture increased in the top 1.4 m of the soil profile, due to heavy rains in mid-summer, yet the moisture added to the upper soil units was quickly removed (Fig. 24). This removal seemed to occur from above, as there is no evidence of infiltration from neutron probe data, and evapotranspiration rates rise at this time. In fall groundwater depths shallow and capillary action wets the lower portion of the soil particularly at 1.4 m depth.

In general, the seasonal trends for the saltcedar and cottonwood regions are quite different. In the moist saltcedar sites, moisture cycles seem to be controlled by flooding and evapotranspiration drying in the top 60 cm. In the dry cottonwood sites, the soil water content is controlled by soil texture, groundwater level and evapotranspiration drying through the top 1.4 m.

Cottonwood vegetation seems to drain water from the vadose zone even under very dry conditions as evapotranspiration drafts exceed precipitation influxes. These plants utilize precipitation water very quickly and efficiently, not allowing soil water to infiltrate deeply (Fig. 24). Soil moisture, and evapotranspiration data indicate that cottonwood obtained water from the vadose zone and surface water when available, then relied on groundwater when necessary.

Soil moisture data does not show that saltcedar preferentially depleted any soil horizon. This vegetation obtain water from when it is most easily removed (van Hylckama, 1974). During dry periods, the saltcedar drafts water from near the water table, and after the soils had been wetted by floodwater, saltcedar removed water primarily from near surface soils.

4.1.4. Salinity

Salinity measurements were taken with the hopes that groundwater salinity would reflect evapotranspiration fluxes. The patterns observed are complex. In the area of cottonwood stands, winter flood ponds feed more saline water into the groundwater. These more saline waters are flushed through during the summer monsoon season in mid and late summer. This is evident in Figure 25 and Figure 26, which show total dissolved solids drastically decreased during this period.

The saltcedar sites have a reverse trend (Figs. 27 & 28). Fresh river water flushes more saline water in winter and spring. Summertime evapotranspiration, floodwater evaporation, and saline leaf residue increase groundwater salinity in the summer and fall (Robinson, 1958; Hem, 1967). Salinity spikes are most evident in the central portions of the saltcedar transects. River water flushes the saline water more slowly in these regions. There is a larger bulge in salinity in the center of the southern and central saltcedar transects where flooding was more sustained and stagnant (Figs. 27 & 28).

Groundwater salinity increases from that of the Rio Grande water (300 to 600 ppm in total dissolved solids) to more than 2,000 ppm in total dissolved solids in the central portions of the saltcedar transects. A great deal of the increased salinity is due to the characteristics of the heavy soils in the saltcedar sites, which allow high evapotranspiration rates and cause slow

Figure 25: North Cottonwood Groundwater Salinity

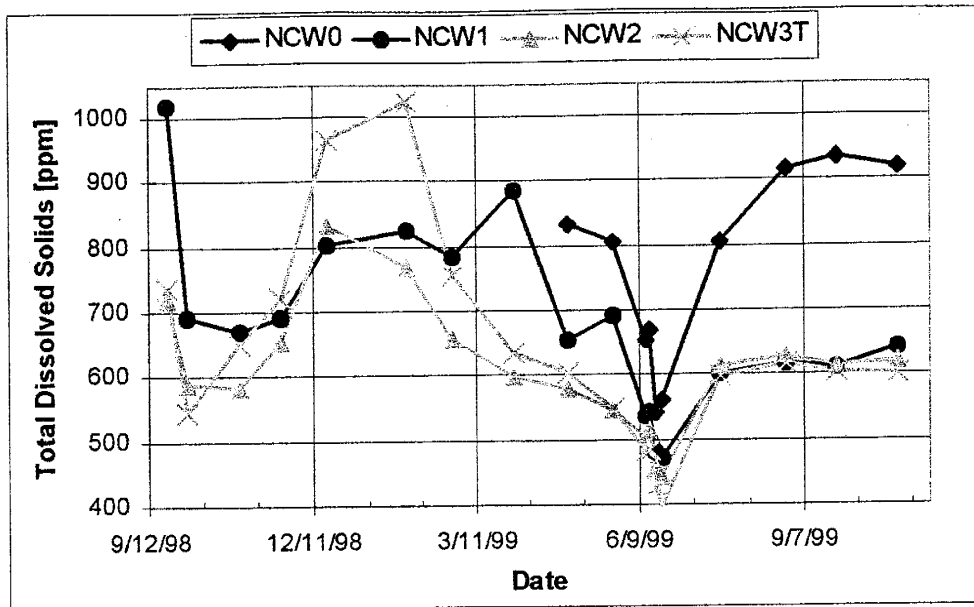


Figure 26: South Cottonwood Groundwater Salinity

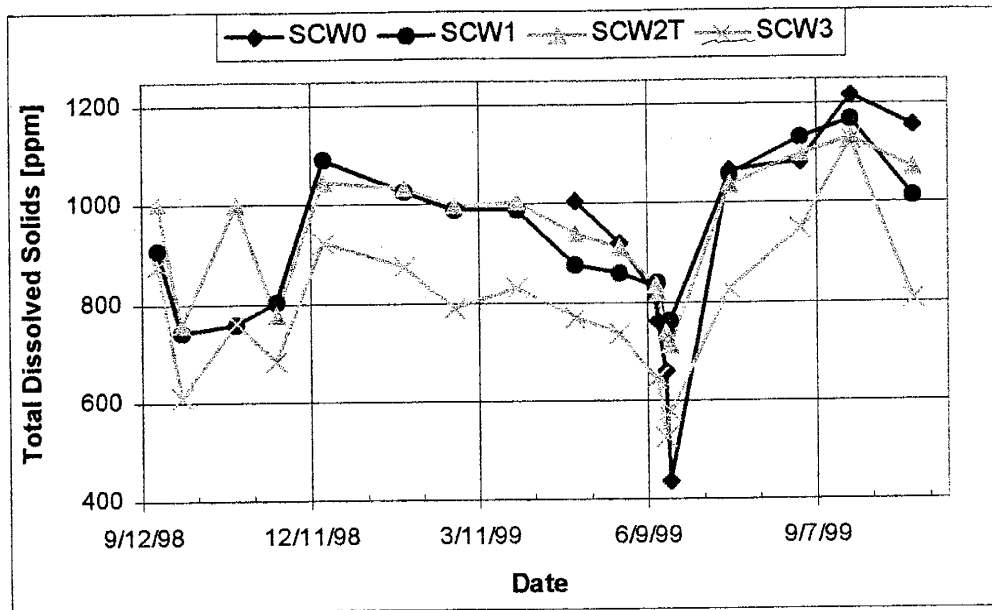


Figure 27: Central Saltcedar Groundwater Salinity

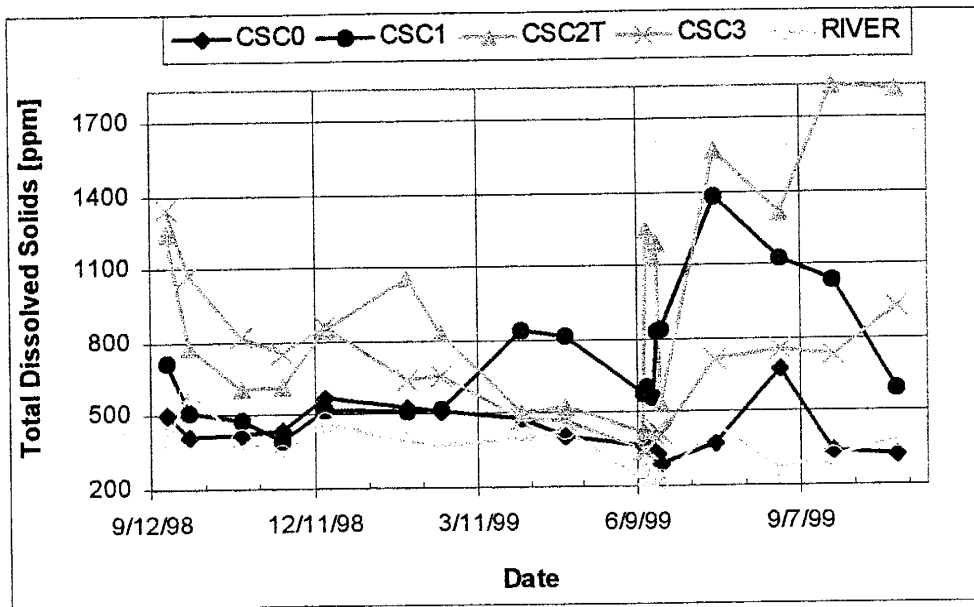
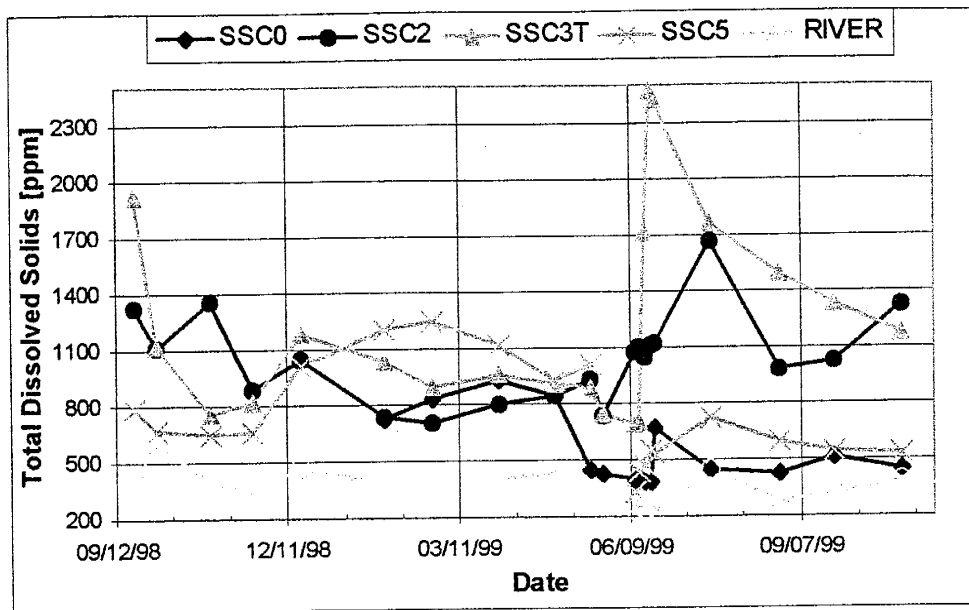


Figure 28: South Saltcedar Groundwater Salinity

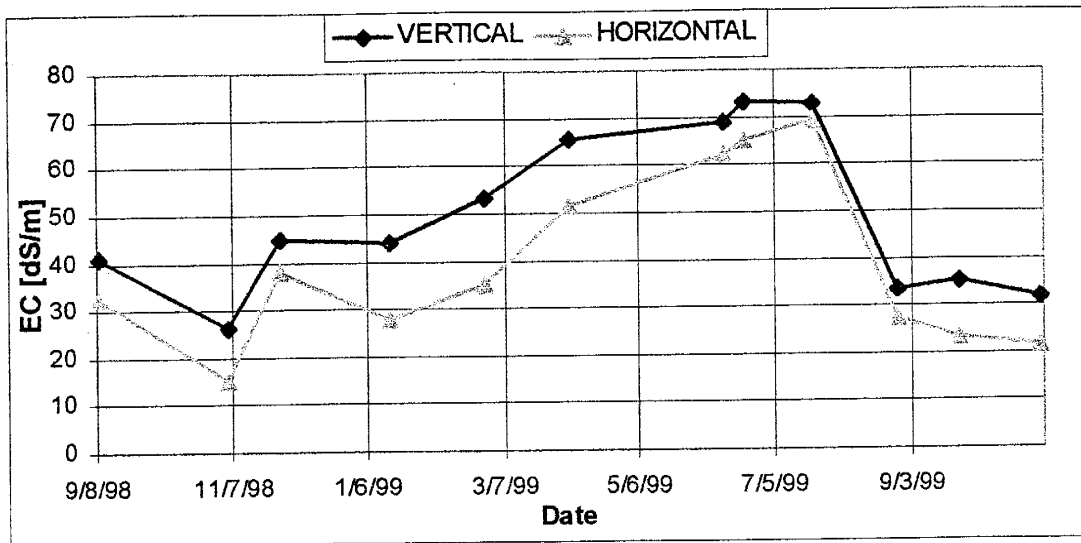


lateral groundwater flow. Cottonwood site soils are sandy, and allow salts to be flushed through more easily. Saltcedar also have a role in increasing salinity. These phreatophytes transpire relatively large quantities of water as well as accumulate saline residues in their leaves (Hem, 1967). Flooding may wash out salts in portions of the saltcedar, and deposit them in other areas where flood pools stagnate, and channels clog.

Figures 29 to 31 and Appendix B show electrical conductivity data measured with the EM-38 instrument. These data correspond to soil salinity values (MacNeill, 1992; Rhoads, 1992). Vertical readings measure overall soil salinity to a depth of 1.5m, and horizontal readings measure surface salinity. The saltcedar transects have similar seasonal soil salinity patterns. The electrical conductivity values are high; they peak during summer floods, and drop during winter (Fig. 29 & 30). The vertical and horizontal readings are close, and follow the same trends. This indicates a more saline surface. Both the central and South saltcedar transects show evidence of increased salinity as the growing season begins (Figs. 29 & 30). During flooding, electrical conductivity values are artificially high due to soil moisture (Gupta & Hanks, 1972). Flooding washes some soil salts down to the groundwater, and into the surface waters. Evidence for this can be seen in a sharp decline in soil conductivity values and a sharp increase in groundwater salinity values after flooding (Figs. 29 & 31). In November, leaf litter salts introduce a small amount of salts as seen by a small increase in electrical conductivity values. Data in Appendix B show small (less than 5m long) topographic high and closed depressions regions in which soil salinity increases dramatically near the surface after flooding has occurred. Data vary tremendously over the transect length, but generally have higher values in the central portions.

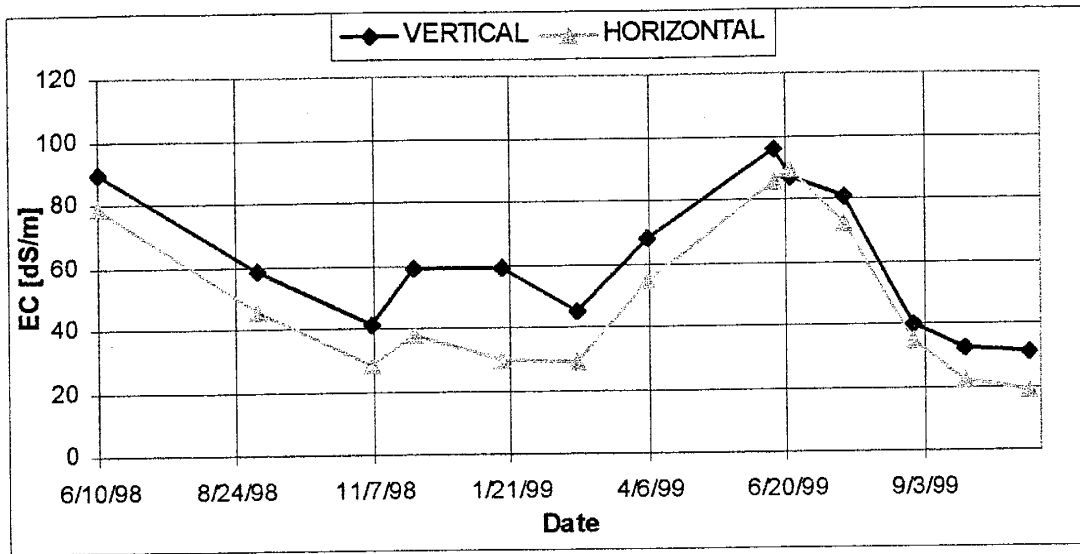
The South cottonwood transect data are more uniform along the length of the transect (Appendix B). The electrical conductivity values are generally much lower and hold constant through much of the year (Fig. 31). Soil salinity tends to be higher near the surface due to evaporation. Salinity values do not seem to follow seasonal trends. Electrical conductivity values spike in one reading in July. This is due to surficial moisture (top 15cm) from a summer monsoon.

Figure 29: Central Saltcedar Average Electrical Conductivity Values †



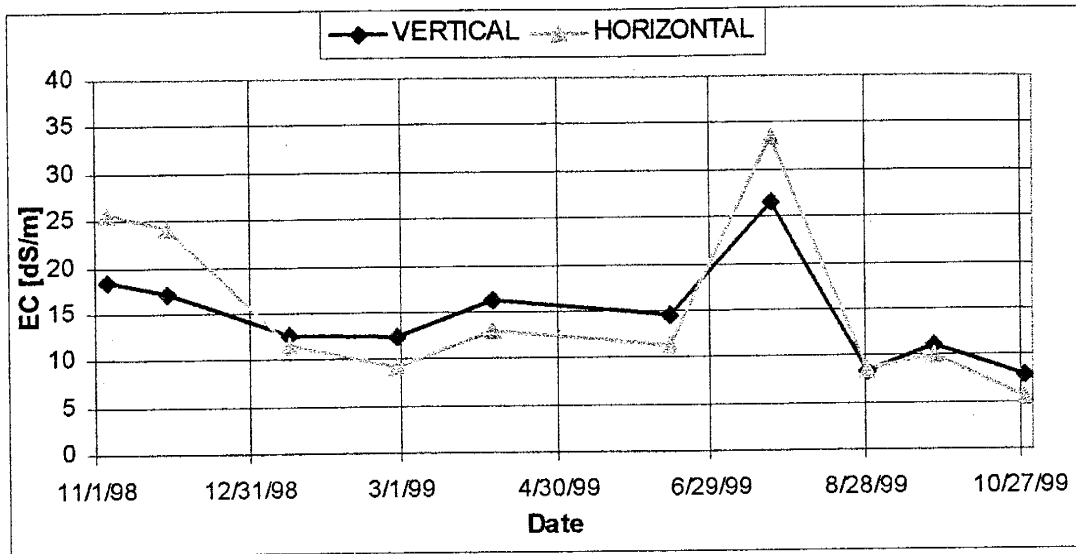
† Soil conductivity is measured using the EM-38 ground conductivity meter. These measurements correspond well with soil salinity. Data were averaged for the entire transect in order to better display results chronologically.

Figure 30: South Saltcedar Averages Electrical Conductivity Values †



† Soil conductivity is measured using the EM-38 ground conductivity meter. These measurements correspond well with soil salinity. Data were averaged for the entire transect in order to better display results chronologically.

Figure 31: South Cottonwood Average Electrical Conductivity Values †



† Soil conductivity is measured using the EM-38 ground conductivity meter. These measurements correspond well with soil salinity. Data were averaged for the entire transect in order to better display results chronologically.

In general, soil salinity in the cottonwood site is low and only slightly increased as a result of evapotranspiration as shown by an increase during late summer (Fig 29). Soil salinity in the saltcedar is high and increased substantially due to evapotranspiration from heavy soils. In the saltcedar sites, flooding removes salts from soils overall, however local accumulations of salts do occur.

4.1.5. Meteorological Measurements

Temperature data in the two meteorological stations (North and South of the field sites) matched. Wind and precipitation data varied slightly between the two because the North Bosque Weather Station was located adjacent to mixed tree stands, and the South Bosque Weather Station was located in grass and brush fields. This caused greater wind speeds and lower precipitation amounts to be measured in the southern station. Summer monsoon season is evident in the data, and only five summer storms account for more than one third of the 1999 precipitation total. Evapotranspiration rates vary tremendously from day to day, and minute to minute. The averaged measurements of evapotranspiration show a simple seasonal pattern discussed in section 4.3.1.

4.1.6. Summary of Field Measurements

Trends in the field data can be correlated to the theoretical modeling results. The higher water levels and finer soils alone may account for an increase of approximately 30% in evapotranspiration from the cottonwood site to the saltcedar site. Flooding of the saltcedar area may have doubled soil evaporation in the saltcedar increasing total evapotranspiration up to approximately 20%. Thus, physiological differences amongst plant communities are not the most important factors effecting evapotranspiration. The most important may be soil texture, stratigraphy, and flooding.

Salinity data does not appear to contribute to variations in evapotranspiration. Although soil and groundwater salinities are associated with evapotranspiration, other factors augment the data such that it is of little use in the determination of evapotranspiration differences between the cottonwood and saltcedar sites. Even so, the data show that saltcedar are responsible for increase the salinity of their environment.

4.2. VIRTUAL SOIL MODELS

The cumulative water fluxes presented are the sums of the fluxes for the last 183 days of the 986-day runs. The other 2.2 years of the model time being used as an equilibration period. The evaporative fluxes exclude any water losses from root uptake, and the transpiration fluxes are due entirely to root uptake. Evapotranspiration is then the sum of evaporation and transpiration. Groundwater discharge is evapotranspiration minus precipitation plus/minus the change in soil moisture storage. Discharge is generally positive for these simulations indicating groundwater discharge. 54 models were run using the reference evapotranspiration of 6mm. The seasonal evapotranspiration and discharge totals for each of these 54 theoretical models are shown in Table 14, and Figure 32.

21 models were run using reference evapotranspiration calculated from Bosque weather data. These models show the effects of seasonal changes during the growing season. The 183 days of modeling time covered the growing season from March 15 to September 13, 1999. A majority of the evapotranspiration that occurs during the year occurs during these 6 months (Table 15, Fig. 33).

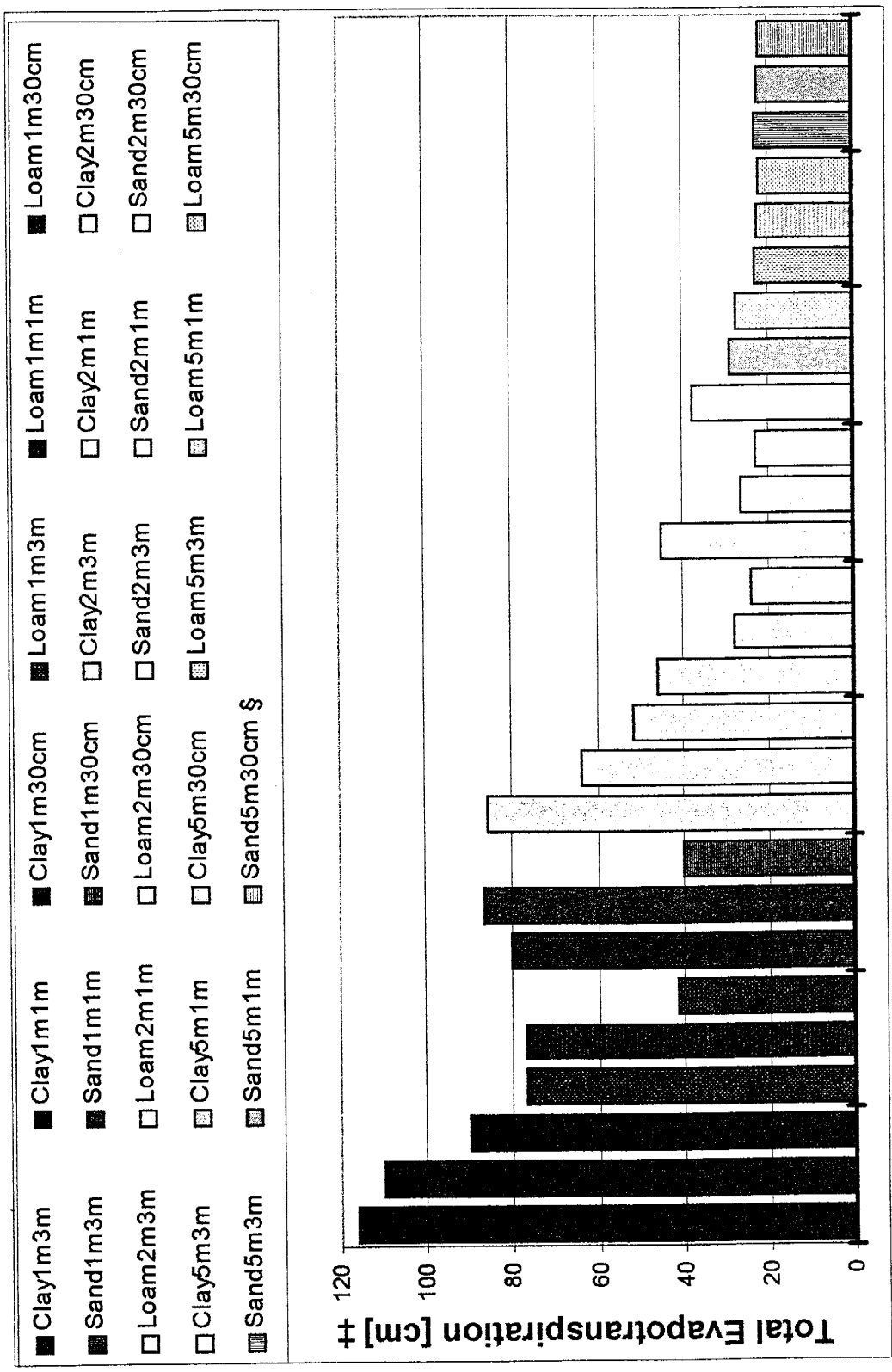
The evaporation totals range from 11.0 cm to 34.9 cm and averaged 16.3 cm. There is much less variation in evaporation than in transpiration, and evaporation is much more dependent on precipitation than transpiration is. Transpiration totals range from 2.80 cm to 105 cm and averaged 33.3 cm. The evapotranspiration totals ranged from 14.3 cm to 134 cm and averaged 49.6 cm, which is significantly higher than the 24 cm of precipitation that occurred over that period. Discharge varies from -0.07 cm to 112 cm and averaged 29.5 cm. In 92% of the modeled cases depletion of groundwater occurs, and when net recharge occurs, it is not statistically significant (less than 1% of precipitation). This is not unexpected for the shallow water tables in this arid region.

Table 14. Results of Virtual Soil Models Using Constant Reference Evapotranspiration

| Model Name | Cumulative Evaporation (cm) | Cumulative Transpiration (cm) | Cumulative Evapotranspiration (cm) | Cumulative Groundwater Discharge (cm) |
|--------------|-----------------------------|-------------------------------|------------------------------------|---------------------------------------|
| Clay1mFlat | 26.42 | 96 | 122.42 | 100 |
| Clay1mTop | 24.62 | 85 | 109.62 | 87 |
| Clay1mBottom | 29.02 | 105 | 134.02 | 112 |
| Clay1m30cm | 25.72 | 64 | 89.72 | 67 |
| Clay1m1m | 22.92 | 87 | 109.92 | 88 |
| Clay1m3m | 34.92 | 81 | 115.92 | 94 |
| Clay2mFlat | 18.68 | 55 | 73.68 | 50 |
| Clay2mTop | 18.33 | 47 | 65.33 | 42 |
| Clay2mBottom | 19.52 | 58 | 77.52 | 56 |
| Clay2m30cm | 19.53 | 32 | 51.53 | 29 |
| Clay2m1m | 18.53 | 45 | 63.53 | 41 |
| Clay2m3m | 19.27 | 66 | 85.27 | 62 |
| Clay5mFlat | 18.42 | 11 | 29.42 | 7.4 |
| Clay5mTop | 17.92 | 11.1 | 29.02 | 6.9 |
| Clay5mBottom | 19.32 | 10.1 | 29.42 | 7.5 |
| Clay5m30cm | 17.62 | 9.6 | 27.22 | 5.3 |
| Clay5m1m | 18.22 | 10.6 | 28.82 | 6.6 |
| Clay5m3m | 18.92 | 18.5 | 37.42 | 14.7 |
| Loam1mFlat | 15.52 | 62 | 77.52 | 68 |
| Loam1mTop | 14.92 | 90 | 104.92 | 54 |
| Loam1mBotm | 18.02 | 91 | 109.02 | 84 |
| Loam1m30cm | 14.22 | 27 | 41.22 | 19.3 |
| Loam1m1m | 15.62 | 61 | 76.62 | 54 |
| Loam1m3m | 16.82 | 60 | 76.82 | 55 |
| Loam2mFlat | 15.42 | 16.1 | 31.52 | 9.2 |
| Loam2mTop | 14.92 | 17.4 | 32.32 | 9.9 |
| Loam2mBotm | 17.72 | 13.9 | 31.62 | 9.8 |
| Loam2m30cm | 14.22 | 9.7 | 23.92 | 1.81 |
| Loam2m1m | 15.62 | 12.3 | 27.92 | 5.6 |
| Loam2m3m | 16.82 | 29 | 45.82 | 23.3 |
| Loam5mFlat | 15.42 | 6.8 | 22.22 | 0.08 |
| Loam5mTop | 14.82 | 7.4 | 22.22 | 0.08 |
| Loam5mBotm | 17.72 | 4 | 21.72 | 0.08 |
| Loam5m30cm | 14.22 | 7.7 | 21.92 | 0.08 |
| Loam5m1m | 15.62 | 6.6 | 22.22 | 0.08 |
| Loam5m3m | 16.82 | 6.2 | 23.02 | 0.873 |

| Model Name | Cumulative Evaporation, cm | Cumulative Transpiration, cm | Cumulative Evapotranspiration, cm | Cumulative Groundwater Discharge, cm |
|-------------|----------------------------|------------------------------|-----------------------------------|--------------------------------------|
| Sand1mFlat | 14.22 | 76 | 90.22 | 69 |
| Sand1mTop | 18.92 | 70 | 88.92 | 61 |
| Sand1mBotm | 14.72 | 75 | 89.72 | 72 |
| Sand1m30cm | 13.62 | 26 | 39.62 | 17.7 |
| Sand1m1m | 14.72 | 72 | 86.72 | 64 |
| Sand1m3m | 16.02 | 64 | 80.02 | 57 |
| Sand2mFlat | 14.62 | 14.7 | 29.32 | 6.8 |
| Sand2mTop | 14.22 | 12.7 | 26.92 | 5.1 |
| Sand2mBotm | 16.52 | 14.9 | 31.42 | 9 |
| Sand2m30cm | 13.62 | 9.2 | 22.82 | 1.12 |
| Sand2m1m | 14.82 | 11.3 | 26.12 | 4 |
| Sand2m3m | 15.72 | 29 | 44.72 | 22.3 |
| Sand5m1Flat | 15.92 | 9.5 | 25.42 | -0.02 |
| Sand5m1Top | 14.22 | 7.4 | 21.62 | -0.07 |
| Sand5m1Botm | 16.52 | 5.6 | 22.12 | -0.06 |
| Sand5m30cm | 13.62 | 8.3 | 21.92 | -0.07 |
| Sand5m1m | 14.82 | 7.4 | 22.22 | -0.07 |
| Sand5m3m | 15.72 | 6.9 | 22.62 | 0.421 |

Figure 32: Virtual Soil Models with Constant Reference ET Results †



† Figure 32 presents the total evapotranspiration results for virtual soil models with reference evapotranspiration set at a constant 0.6 mm/day.

‡ Total evapotranspiration results for the 180 days of the evapotranspiration season.

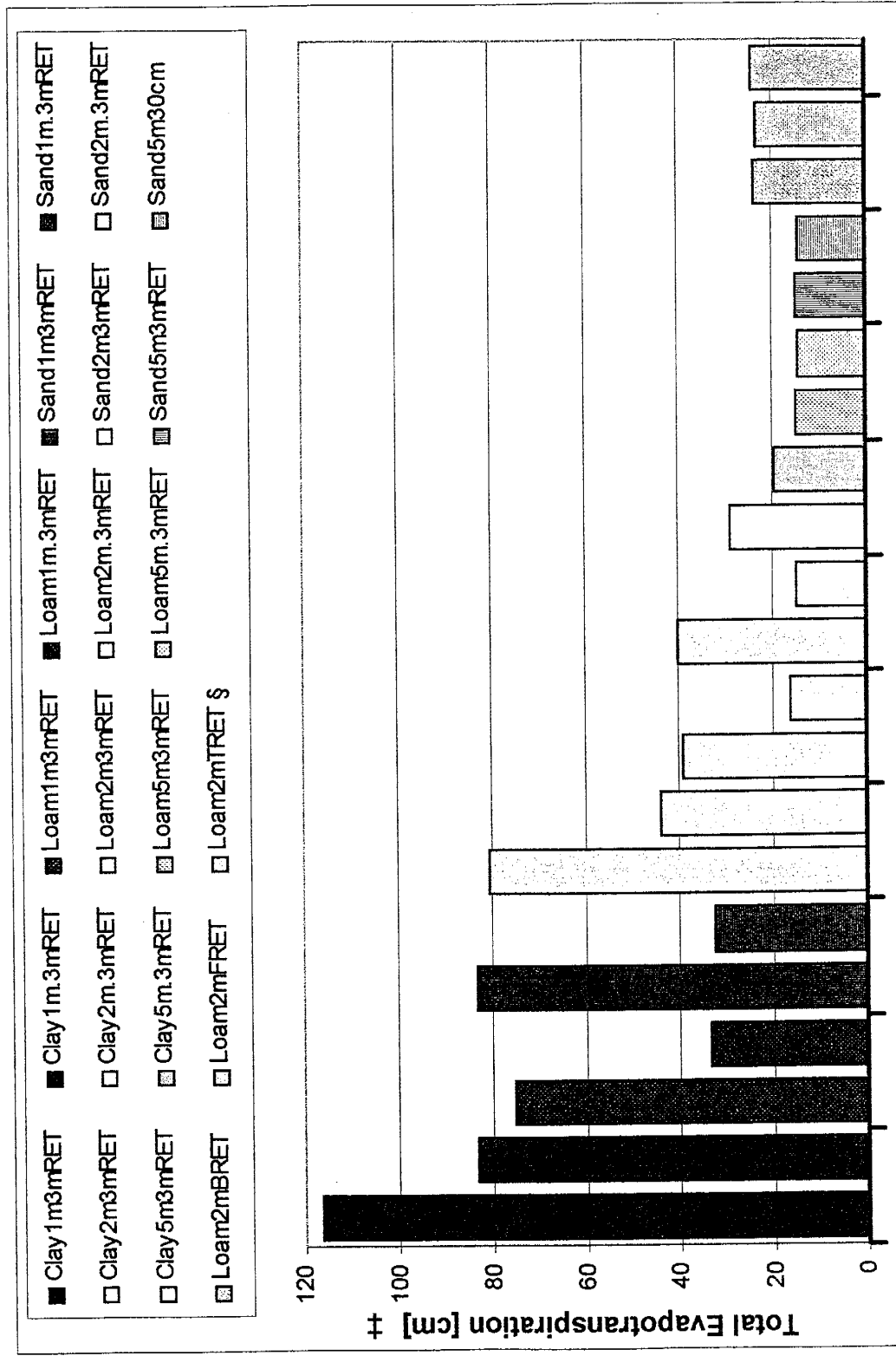
§ Each model is represented by a bar on the above graph. One meter deep, two meter deep, and five meter deep groundwater models are represented by black, gray and white bars. Clay, loam, and sand models are represented by dot, dash and line filled bars, respectively.

The name of each model describes the soil, water and rooting. The first four letters of each model title indicate the soil texture. The following number indicates the depth of groundwater (1m = 1 meter, 2m = 2 meters, 5m = 5 meter deep groundwater). The second number indicates the rooting depth (30cm = 30 centimeter, 1m = 1 meter, 3m = 3 meter deep rooting).

Table 15. Results of Virtual Soil Models

| Model Name | Cumulative Evaporation, cm | Cumulative Transpiration, cm | Cumulative Evapotranspiration, cm | Cumulative Groundwater Discharge, cm |
|---------------|----------------------------|------------------------------|-----------------------------------|--------------------------------------|
| Clay1m.3mRET | 20.1 | 63 | 83.10 | 70 |
| Clay1m3mRET | 21.3 | 95 | 116.3 | 104 |
| Clay2m.3mRET | 15.9 | 28 | 43.9 | 30 |
| Clay2m3mRET | 14.23 | 66 | 80.23 | 68 |
| Clay5m.3mRET | 14.23 | 5.4 | 19.63 | 5.4 |
| Clay5m3mRET | 13.82 | 15 | 28.82 | 15.9 |
| Loam1m.3mRET | 11.33 | 22.3 | 33.63 | 20.1 |
| Loam1m3mRET | 12.37 | 63 | 75.37 | 63 |
| Loam2mFRET | 11.75 | 11.7 | 23.45 | 9.5 |
| Loam2mTRET | 11.58 | 12.7 | 24.28 | 10.7 |
| Loam2mBRET | 12.74 | 11.2 | 23.94 | 10 |
| Loam2m.3mRET | 11.34 | 4.8 | 16.14 | 1.84 |
| Loam2m3mRET | 12.37 | 27.00 | 39.37 | 27 |
| Loam5m.3mRET | 11.39 | 3.01 | 14.40 | 0.09 |
| Loam5m3mRET | 12.37 | 2.80 | 15.17 | 0.889 |
| Sand1m.3mRET | 11.02 | 21.70 | 32.72 | 18.9 |
| Sand1m3mRET | 11.99 | 71.00 | 82.99 | 69 |
| Sand2m.3mRET | 11.34 | 3.60 | 14.94 | 1.12 |
| Sand2m.3mRET | 11.99 | 28.00 | 39.99 | 26 |
| Sand5m30cmRET | 11.06 | 3.26 | 14.32 | -0.07 |
| Sand5m3mRET | 12.20 | 2.80 | 15.00 | 0.427 |

Figure 33: Virtual Soil Models with Bosque Weather Results †



† Figure 33 presents the total evapotranspiration results for virtual soil models with reference evapotranspiration calculated for each day from Bosque weather data using the Penman-Monteith Equation.

‡ Total evapotranspiration results for the 180 days of the evapotranspiration season.

§ Each model is represented by a bar on the above graph. One meter deep, two meter deep, and five meter deep groundwater models are represented by black, gray and white bars. Clay, loam, and sand models are represented by dot, dash and line filled bars, respectively. The last three models have anomalous rooting patterns of Bottom Heavy, Flat and Top Heavy from left to right as described in section 3.4.1.3. The name of each model describes the soil, water and rooting. The first four letters of each model title indicate the soil texture. The following number indicates the depth of groundwater (1m = 1 meter, 2m = 2 meters, 5m = 5 meter deep groundwater). The second number indicates the rooting depth (30cm = 30 centimeter, 1m = 1 meter, 3m = 3 meter deep rooting).

Figure 32 shows a clear pattern in evapotranspiration. The trends are that evapotranspiration rises as groundwater levels shallow, soil textures fine, and rooting depths increase. Figure 33 shows a less clear pattern with the same trends. There are some differences in the results between the theoretical models with constant reference evapotranspiration, and those with reference evapotranspiration calculated from Bosque data. However, the general patterns hold. Each of the major factors affecting evapotranspiration is interrelated with others. This study has modeled these factors such that each one can be examined independently.

4.2.1. Precipitation Events

Evaporation seems to be dependent on precipitation events more than any other factor. There are only minor correlations between evaporation and other factors such as rooting and water table level. Only clay soils have significantly higher evaporation rates. This would indicate that most evaporation occurs as a result of precipitation, and not as a result of capillary rise except in very fine textured clay soils. This conclusion is supported by the fact that daily soil evaporation is close to zero except after precipitation events in all but clay soil models (Appendix A).

Transpiration is also significantly correlated to precipitation events. Transpiration response to precipitation was somewhat different. Root uptake increased sharply in response to precipitation only when transpiration is low. When the water table is close to roots, and water is available to roots, transpiration rates are steady and high. A large proportion of water taken up by roots may have come from groundwater instead of from rain. In coarse soils, which may dry rapidly precipitation is a more important limiting factor to transpiration rate.

Charts in Appendix A show how evaporative trends remain very similar in all the models. Evaporation rates vary more over time than between models. Evaporation is more dependent on weather phenomenon and surface processes than on other factors. The exceptions occur in clay soils. These fine-textured soils retain water even under tremendously dry climatic conditions

such that groundwater is still quite available for root uptake and soil evaporation under the shallow water conditions modeled here.

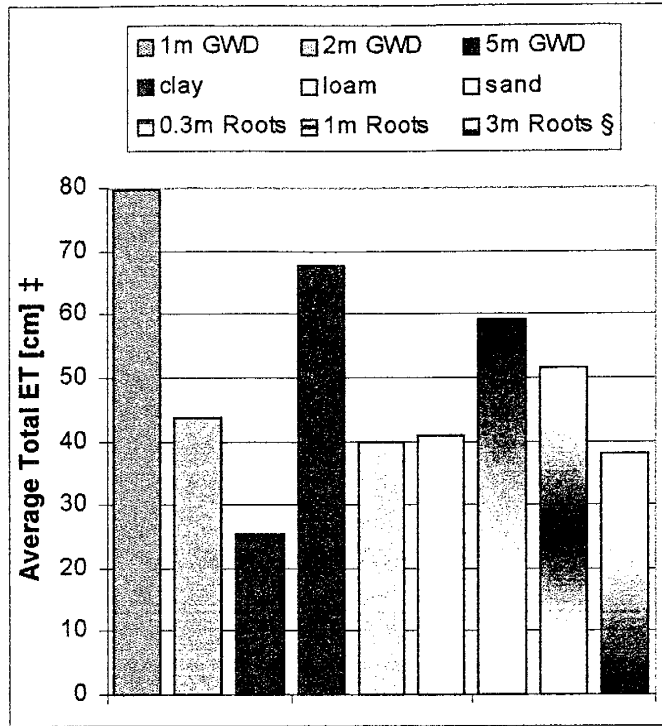
4.2.2. Groundwater Depth

Groundwater depth has a large effect on evapotranspiration (Fig. 34 & 35). Evaporation is strongly correlated to groundwater level only in clay soil models. As groundwater levels rise, capillary rise makes more water available for root uptake and evaporation. Transpiration is very strongly correlated with groundwater depth. Evaporation is only slightly correlated with groundwater level and only in fine textured soils. In models using constant reference evapotranspiration, 1 m groundwater depth produce 59% and 104% higher than 2 m and 5 m groundwater depths (Fig 34). In models using Bosque reference evapotranspiration, 1 m groundwater depth produce 71% and 120% higher than 2 m and 5 m groundwater depths (Fig. 35). Because of this, water level is the factor most affecting overall evapotranspiration given the climatic conditions. The effect of groundwater level can be seen in all soil textures and in all rooting depths and patterns.

4.2.3. Soil Texture

Evaporation is most strongly affected by soil texture (Table 14). Clay soils have high water retention and high capillary rises, thus producing a great deal more evaporation than do loam and sand soils. Clay soil models produce 52% and 50% higher evapotranspiration totals than do loam and sand soils, in models created with constant reference evapotranspiration, and 63% and 62% higher than loam and sand models created with Bosque weather data. Coarser soils retain less water and have low capillary rises. Coarser textures allow infiltration to occur rapidly and remove water from the surface, where evaporation occurs. Transpiration is higher in clay soils because coarser soils can retain less water in the rooting zone therefore transpiration is lower for coarse soils. However, sand transpiration is higher than loam transpiration. This trend is tempered by the fact that finer soils tend to have lower hydraulic conductivities. Overall evapotranspiration increases for coarse soils significantly when rooting is close to the water table.

Figure 34: Average ET for Constant Reference ET Models †

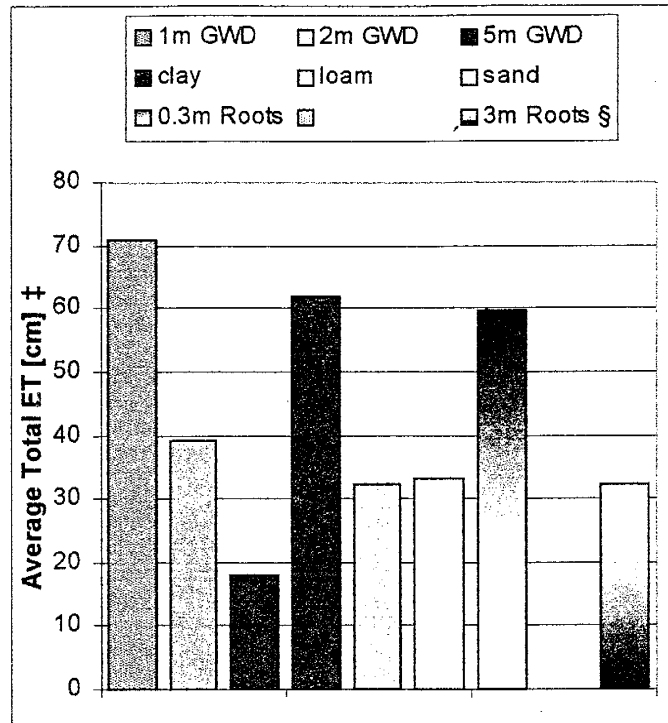


† Table 34 presents the average of the total evapotranspiration results for virtual soil models of the same category. Reference evapotranspiration is set at a constant 0.6 mm/day.

‡ Average total evapotranspiration results for the models of the same category for the 180 days of the evapotranspiration season.

§ Average total evapotranspiration values are represented by a bar on the above graph. The results are averaged for all models that contain each particular trait. For example the 1m GWL bare represents the average total evapotranspiration result of all models with constant reference evapotranspiration with 1 m groundwater depth. Groundwater depth (GWD) bars have wave pattern fills. Soil texture bars have solid colors, and rooting depth bars have graduated fills.

Figure 35: Average ET for Bosque Weather Virtual Models †



† Table 35 presents the total evapotranspiration results for virtual soil models with reference evapotranspiration calculated for each day from Bosque weather data using the Penman-Monteith Equation.

‡ Average total evapotranspiration results for the models of the same category for the 180 days of the evapotranspiration season.

§ Average total evapotranspiration results are represented by a bar on the above graph. The results are averaged for all models that contain each particular trait. For example the 1m GWL bare represents the average total evapotranspiration result of all models with constant reference evapotranspiration with 1 m groundwater depth. Groundwater depth (GWD) bars have wave pattern fills. Soil texture bars have solid colors, and rooting depth bars have graduated fills.

When roots are not close to the saturated zone in arid soils, evapotranspiration depends greatly on precipitation, and varies greatly over time.

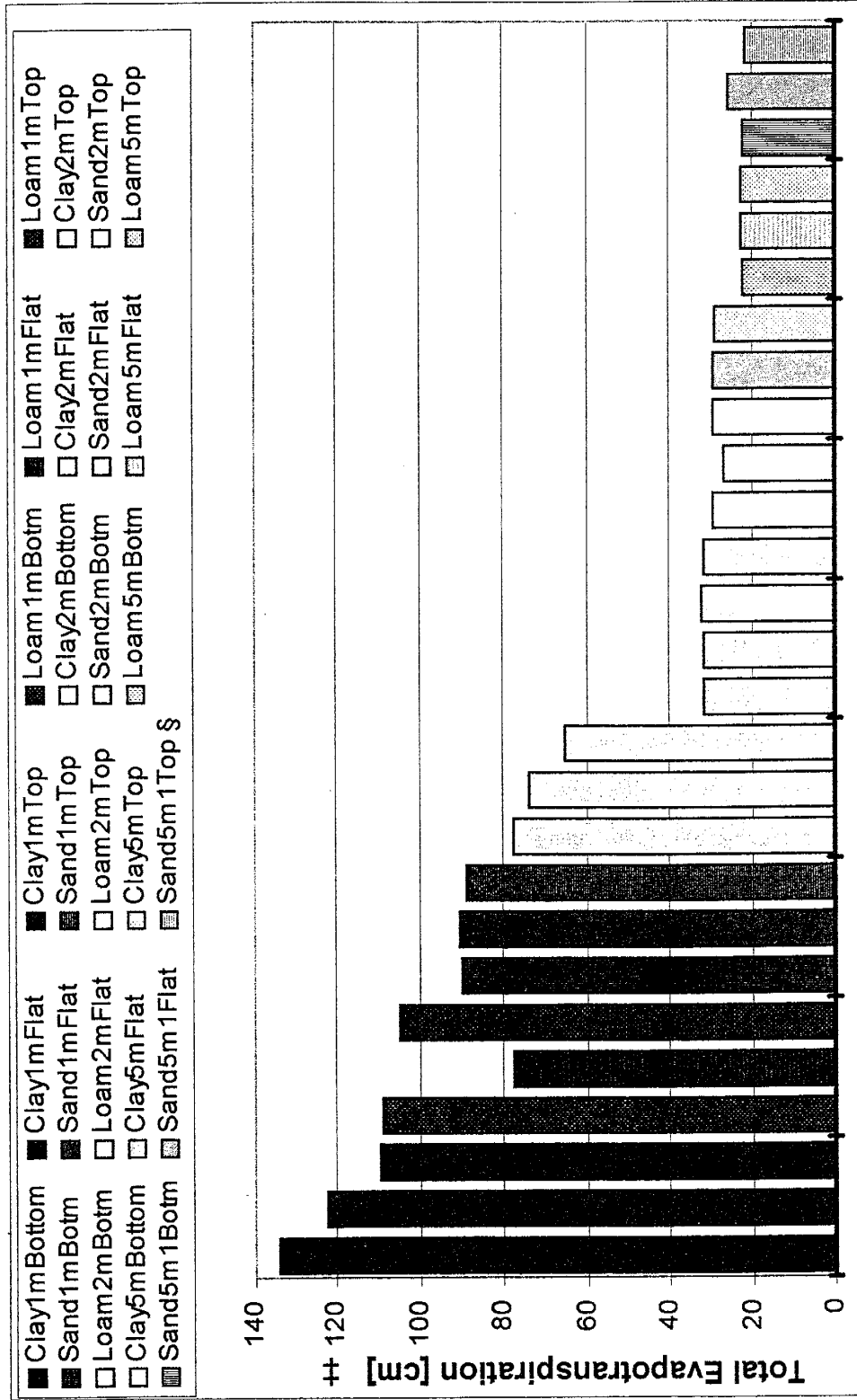
In riparian regions, stratified soils are more commonly found than are homogeneous soil profiles. Soil stratification may drastically alter fluid flow dynamics. For example, in coarse-textured soils, fine layers have two effects. Fine layers slow infiltration from above and slow drainage below them. This may cause evaporation to be limited by precipitation, and soil moisture above this layer. In fine-textured soils, coarse layers different results may occur. When the coarse layers are very dry, they impede vertical water flow, and decrease fluid resistance when moist.

4.2.4. Rooting Depth and Pattern

Evaporation is lower for shallow rooted simulations than for deep-rooted models (Table 14). This is due to shallow roots preferentially drying the surface, and limiting water available for evaporation. Transpiration was higher for deeper rooting plants because a larger region of the soil profile is available for root uptake (Table 14). Some 3 m rooting models have lower transpiration totals for shallow groundwater than do other rooting depths because they have lower root densities near the surface. Overall evapotranspiration is strongly correlated to rooting, particularly when groundwater is shallow. Of the models using constant reference evapotranspiration, 3 m rooting depth models have 14% and 44% higher than the 1 m and 0.3 m root models (Fig. 34). Of the models using Bosque reference evapotranspiration, 3 m rooting depth models have 59% higher than the 0.3 m root models (Fig. 35).

Variations in rooting pattern had an affect on evapotranspiration results. However, these variations were not consistent (Fig. 36). One rooting pattern produced higher evapotranspiration in one soil texture, and lower results in another, and the same with groundwater depth. The effects of rooting patterns on evapotranspiration are strong when the rooting depth is similar to the groundwater level, and when evapotranspiration rates are high (shallow groundwater and fine soil texture). The overall maximum difference in evapotranspiration as a result of rooting pattern is only 7.6%.

Figure 36: Rooting Pattern Effect on ET †



† Table 36 presents the average of the total evapotranspiration results for virtual soil models of the same category. Reference evapotranspiration is set at a constant 0.6 mm/day.

‡ Total evapotranspiration results for the 180 days of the evapotranspiration season.

§ Each model is represented by a bar on the above graph. One meter deep, two meter deep, and five meter deep groundwater models are represented by black, gray and white bars. Clay, loam, and sand models are represented by dot, dash and line filled bars, respectively. The last three models have anomalous rooting patterns of Bottom Heavy, Flat and Top Heavy from left to right as described in section 3.4.1.3. The name of each model describes the soil, water and rooting. The first four letters of each model title indicate the soil texture. The following number indicates the depth of groundwater (1m = 1 meter, 2m = 2 meters, 5m = 5 meter deep groundwater). The last few letters indicate the rooting pattern.

4.2.5. Discharge

Net groundwater discharge is a function of evapotranspiration and precipitation. As precipitation rises, discharge decreases, and as evapotranspiration rises so does groundwater discharge. Net recharge occurs only when water levels are relatively deep, rooting is shallow (30 cm), and the soil texture is coarse. Net recharge can occur when large rain events produce infiltration large enough to compensate for evapotranspiration losses. Recharge occurs in discrete events directly after precipitation events in coarse soils, and when the water table is deeper. Shallow water tables and fine soils supply water to roots at a rate that does not exceed and water that may reach down towards the water table.

4.3. FIELD SOIL MODELS

The saltcedar model results match the seasonal trends found in the measured data very well when the data is smoothed to 10-day averages. The averaging removes noise and allows one to analyze the data more easily (Figs. 35-38). The saltcedar models match the 1999 total evapotranspiration values within 3% error. The cottonwood model matches the seasonal trends well except for a few points (Fig. 39). However, the model results underestimate the measured data by 7.7%. The error may be due to three major sources. Fractures in the upper fine soil material may increase hydraulic conductivity from that measured in the laboratory. The numerical model ignores vapor phase soil moisture transport, and the model under estimates the winter soil evaporation in all models.

4.3.1. Seasonal Trends in Measured Evapotranspiration

Evapotranspiration measured in the Bosque Refuge in 1999 (Fig. 37) shows a relatively simple yearly sinusoidal pattern. Winter evaporation remains between 0.5 mm/day and 1.0 mm/day in both the cottonwood, and saltcedar areas. Winter evaporation is higher in the saltcedar area because the surface soils contain more water. Both cottonwood and saltcedar vegetation begin to put on leaves in April as seen by an evapotranspiration increase on day 120

Figure 37: Measured Bosque 1999 Evapotranspiration

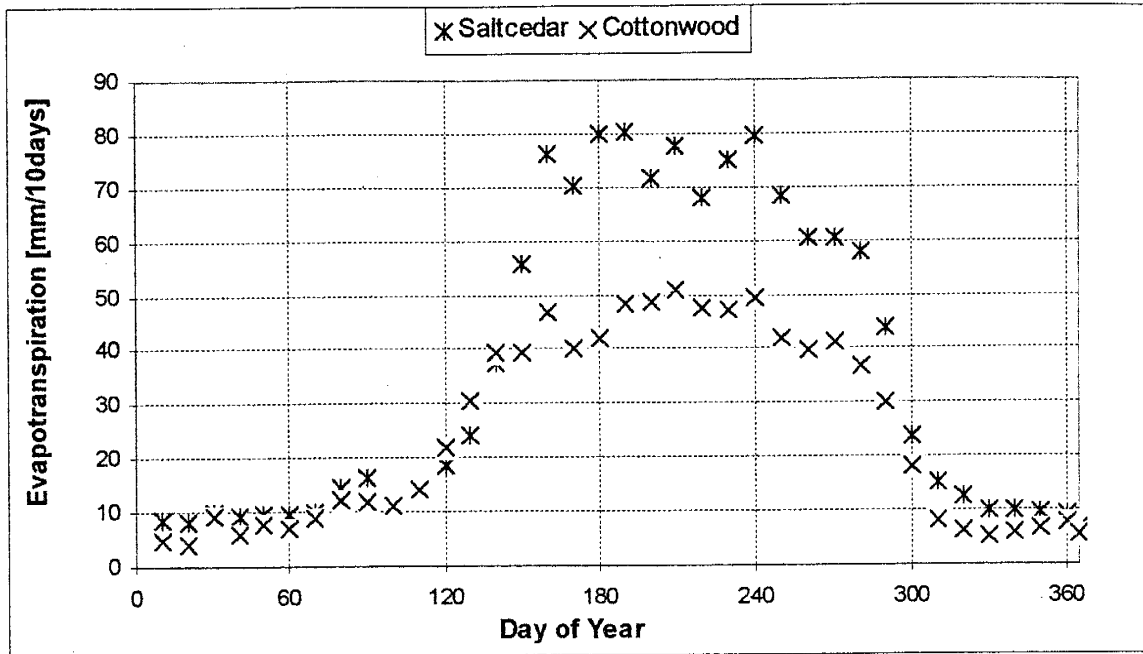
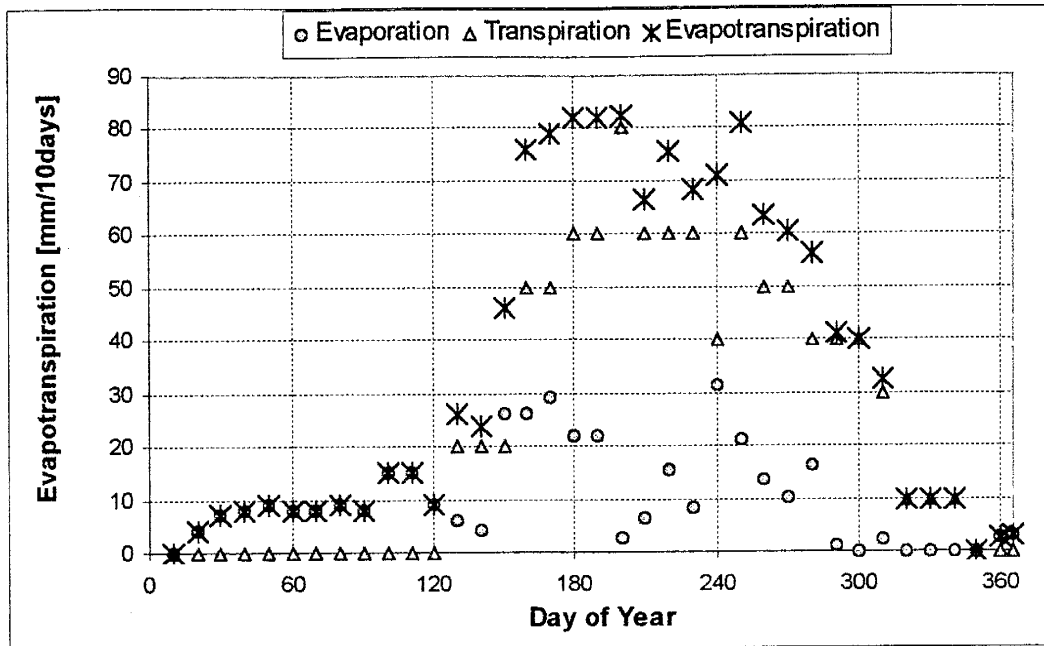


Figure 38: SSCMat 10 Day Data †



† Figure 38 displays the results of the South Saltcedar Bosque Model (SSCMat). The results correlate well with measured values in Figure 37 for the 1999 year. Daily data are summed for 10 day intervals to smooth out the results and discern a seasonal trend.

‡ Soil evaporation is represented by circles, transpiration is represented by triangles, and the sum of the two is the evapotranspiration represented by 'x' symbols.

in Figure 37. Evapotranspiration increases steeply for both vegetation communities for the next month or so.

Cottonwood stands evapotranspire at a rate of between 4 mm/day and 5 mm/day on average into the fall season (Fig. 37). Yellowing of leaves occurs in the end of September when evapotranspiration begins to fall dramatically. The daily evapotranspiration returns to approximately 0.7 mm/day by the end of October (Fig. 37). The pattern of rise and fall in evapotranspiration follows a symmetrical bell shape, with a peak in July.

Saltcedar evapotranspiration rate occurs at a much higher rate of 7 mm/day to 8 mm/day in the beginning of the growing season in April and May, when the most vigorous growth occurs (Fig. 37). This high rate of evapotranspiration continues into the flooding period, then drops slowly and continuously as the growing season continues at a rate of between 6 mm/day and 7 mm/day (Fig. 37). This produces a wedge shape in the center of the evapotranspiration curve. Were it not for flooding, evapotranspiration might have dropped considerably more after the vigorous growth in April and May. The residual moisture from flooding caused evaporation rates to be higher in fall and early winter than they were in the beginning of 1999 (Fig. 37).

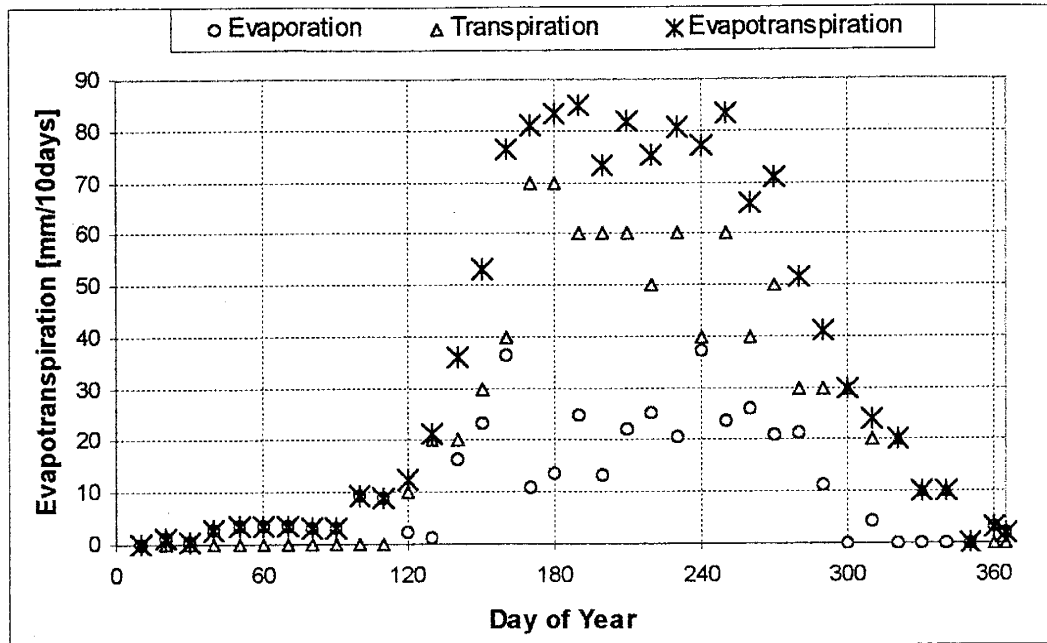
4.3.2. Seasonal Trends in Modeled Evapotranspiration

The central saltcedar model (CSCMat) underestimates winter evaporation somewhat in the beginning of the year, and overestimates fall and winter evaporation at the end of 1999 (Fig. 38). This is likely due to a lack of measured data for the 1998 flood, and small errors incurred in the extrapolation of data taken on floodwaters in 1999.

The South saltcedar model (SSCMat) matched the measured data patterns very well (Fig. 39). The errors occurred mostly during the peak evapotranspiration season, when flooding occurred (Fig. 39). Both saltcedar models match the overall measured evapotranspiration trends very well for the 10-day data. Single day data is very difficult to match considering the tremendous amount of day to day variability.

The cottonwood model (SCWMat) does not match the measured evapotranspiration data in winter for a couple of reasons (Fig. 40). The very dry soils may release water to the

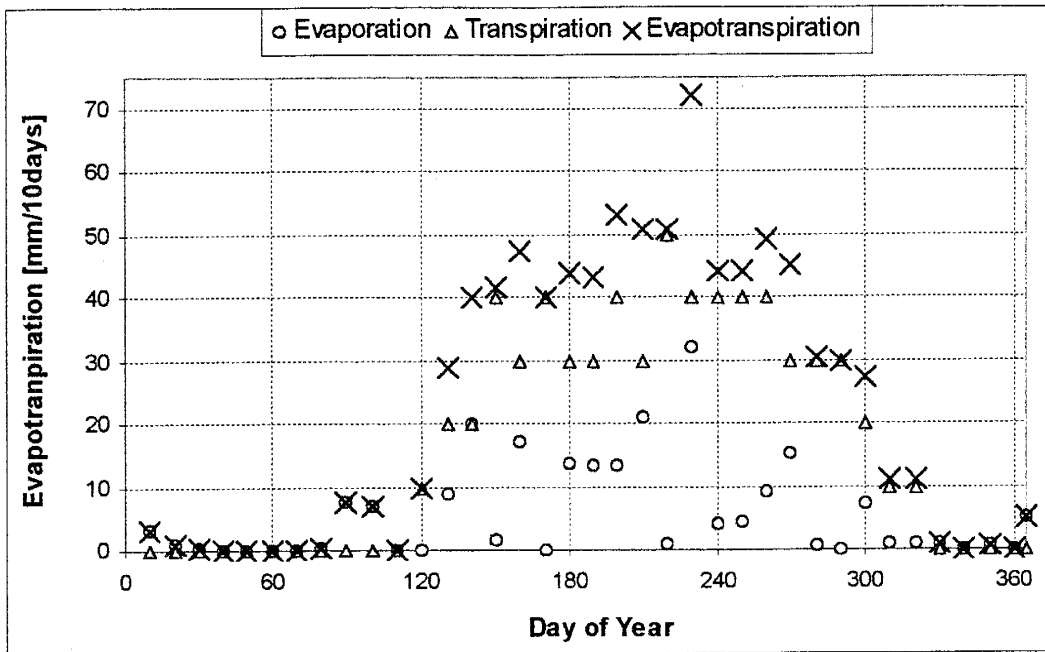
Figure 39: CSCMat 10 Day Data †



† Figure 39 displays the results of the Central Saltcedar Bosque Model (CSCMat). The results correlate well with measured values in Figure 37 for the 1999 year. Daily data are summed for 10 day intervals to smooth out the results and discern a seasonal trend.

‡ Soil evaporation is represented by circles, transpiration is represented by triangles, and the sum of the two is the evapotranspiration represented by 'x' symbols.

Figure 40: SCWMat 10 Day Data †



† Figure 40 displays the results of the South Cottonwood Bosque Model (SCWMat). The results correlate well with measured values in Figure 37 for the 1999 year. Daily data are summed for 10 day intervals to smooth out the results and discern a seasonal trend.

‡ Soil evaporation is represented by circles, transpiration is represented by triangles, and the sum of the two is the evapotranspiration represented by 'x' symbols.

atmosphere by vapor phase transport from the near surface layers. Vapor phase transport is neglected in Hydrus 1D and most other groundwater modeling programs. Also, flow across the surface layers is underestimated because sampled soil material did not contain the large soil fractures observed in the field. Another error occurred on day 230 of the SCWMat model data. Precipitation in this period produced a much greater amount of evapotranspiration in the model, than was measured. This may also be due to soil fractures, which allow for deep infiltration of water from large precipitation events. This model identifies limitations of the Hydrus 1D program, specifically Hydrus 1D cannot account for vapor phase transport, or for fracture flow.

4.3.3. Effect of Groundwater Depth

Evapotranspiration increases dramatically as groundwater levels rise in the Bosque Del Apache models (Table 16). The three series of models have similar trends (Fig. 41-43). As groundwater depth rise transpiration drops somewhat because the root zone is becoming submerged (Table 16). Evaporation rises dramatically, more than compensating for the drop in transpiration (Table 16). This trend is shown in the South saltcedar series of models where the soils have fine textures (Fig. 42). In the cottonwood model, a large bulge in root density is submerged as the water levels rise (Fig. 43). This causes transpiration to drop more dramatically. Evaporation rises more slowly in these models than in the saltcedar models when groundwater levels rise to 1 m average depth. Groundwater levels seem to be a stronger influence on evapotranspiration than soil stratigraphy or rooting patterns (Figs. 41-43).

In the saltcedar models, evapotranspiration increases 113% in the central saltcedar models and 190% in the South saltcedar models as groundwater levels rose from more than 2 m to 30 cm depth (Figs. 41 & 42). The increase to approximately 300 cm/y is due to an increase in evaporation. Transpiration actually drops as the rooting zone becomes submerged. As water levels dropped to 7 m depth, evapotranspiration dropped by 61% in the central saltcedar transect, and 71% in the South saltcedar transect. When water levels drop below 5 m, evaporation levels off and becomes entirely dependent on climate and flooding data. The variability in transpiration is largely a function of soil texture and stratigraphy.

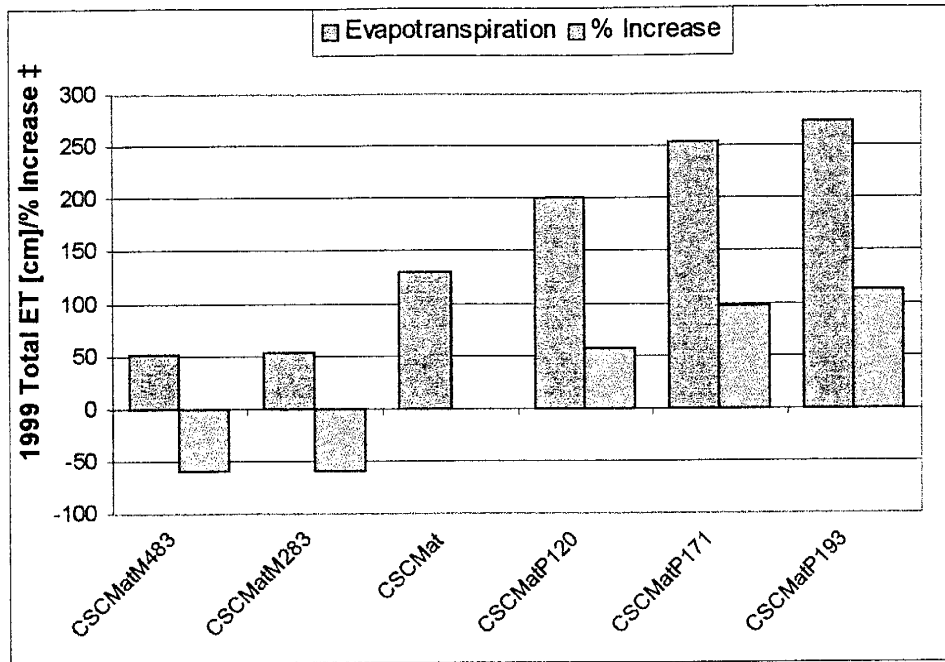
Table 16. Results of Bosque Models

| Model Name | Average Depth to Water | Total ET, cm † | Percent Increase ‡ | Evaporation, cm | Percent Increase ‡ | Transpiration, cm | Percent Increase ‡ |
|------------|------------------------|----------------|--------------------|-----------------|--------------------|-------------------|--------------------|
| CSCMatP193 | 30 cm | 274.0 | 112 | 208 | 422 | 66 | -26 |
| CSCMatP171 | 50 cm | 254.1 | 97.3 | 182 | 142 | 72 | -19 |
| CSCMatP120 | 1 m | 201.0 | 56.1 | 90.2 | 126 | 111 | 24.8 |
| CSCMatM283 | 5 m | 52.6 | -56.2 | 37.9 | -4.78 | 14.7 | -83.5 |
| CSCMatM583 | 7 m | 50.7 | -60.6 | 37.9 | -4.78 | 12.8 | -85.6 |
| SCWMatP246 | 30 cm | 265.8 | 182 | 249.3 | 1102 | 16.5 | -46.5 |
| SCWMatP224 | 50 cm | 260.3 | 177 | 233.3 | 1034 | 25 | -38 |
| SCWMatP173 | 1 m | 77.13 | -6.6 | 48.13 | 13.2 | 29 | -34 |
| SCWMatM226 | 5 m | 27.34 | -56.4 | 20.34 | -1.9 | 7 | 56 |
| SCWMatM426 | 7 m | 29.54 | -54.2 | 23.7 | 14 | 5.8 | -57.2 |
| SSCMatP182 | 30 cm | 318.9 | -190 | 245.9 | 570 | 73 | -19 |
| SSCMatP162 | 50 cm | 306.9 | -178 | 231.9 | 532 | 75 | -17 |
| SSCMatP112 | 1 m | 247.9 | 119 | 163.9 | 346 | 84 | -8 |
| SSCMatM288 | 5 m | 37.63 | -91 | 25.53 | -11.2 | 12.1 | -86.8 |
| SSCMatM488 | 7 m | 37.63 | 91 | 25.53 | -11.2 | 12.1 | -86.8 |

† Total evaporation and transpiration fluxes calculated for the 183 day 1999 growing season for each model.

‡ Percent increase from models run with actual, measured groundwater levels. Decreases are indicated by negative percentage values.

Figure 41: Effect of Water Depth on ET in CSC †

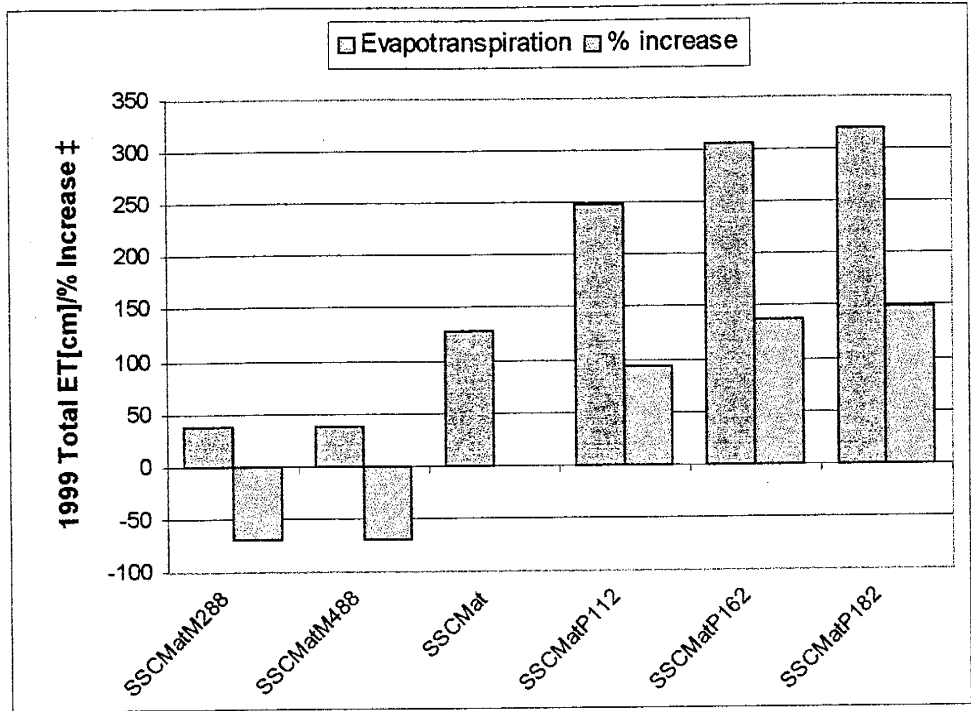


† Figure 41 displays the total 1999 evapotranspiration results of the Central Saltcedar Bosque models. The CSCMat model was created to model measured evapotranspiration. The groundwater depth in this model was then augmented to determine the effect on evapotranspiration.

‡ Total 1999 evapotranspiration is represented by the dark gray bars. The percent increase (negative for decreases) in total evapotranspiration from the CSCMat model is represented by the spotted bars. All data are plotted on the same scale.

Key to Model Names: CSCMatM483 – average annual groundwater depth at 700 cm, CSCMatM283 – average annual groundwater depth at 500 cm, CSCMat – original model, CSCMatP120 – average annual groundwater depth at 100 cm, CSCMatP171 – average annual groundwater depth at 50 cm, and CSCMatP193 – average annual groundwater depth at 30 cm.

Figure 42: Effect of Water Depth on ET in SSC †

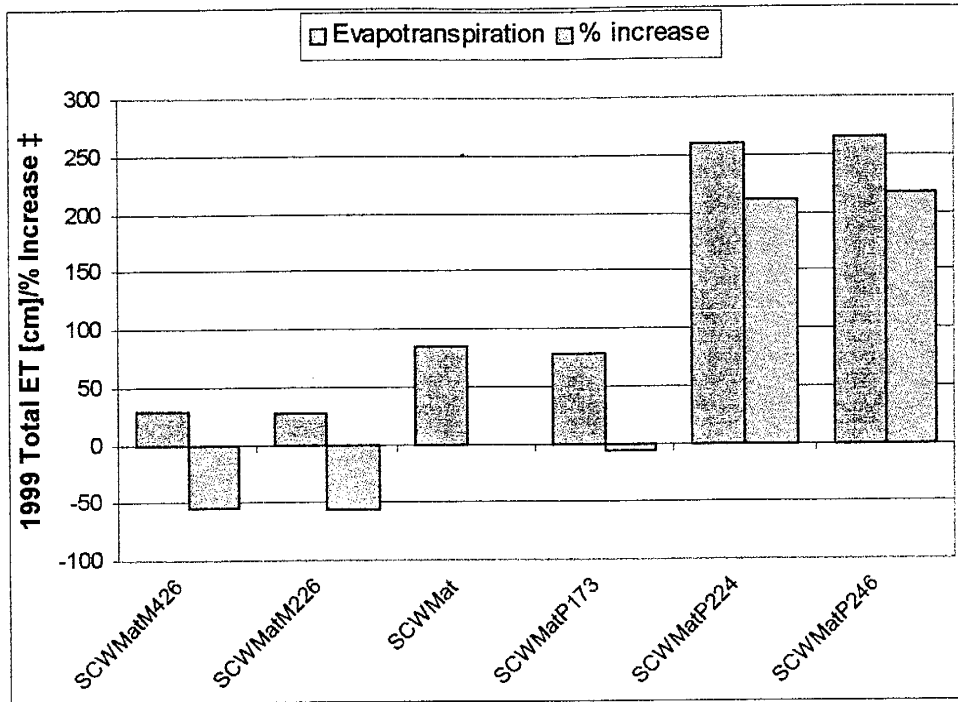


† Figure 42 displays the total 1999 evapotranspiration results of the South Saltcedar Bosque models. The SSCMat model was created to model measured evapotranspiration. The groundwater depth in this model was then augmented to determine the effect on evapotranspiration.

‡ Total 1999 evapotranspiration is represented by the dark gray bars. The percent increase (negative for decreases) in total evapotranspiration from the SSCMat model is represented by the spotted bars. All data are plotted on the same scale.

Key to Model Names: SSCMatM488 – average annual groundwater depth at 700 cm, SSCMatM288 – average annual groundwater depth at 500 cm, SSCMat – original model, SSCMatP112 – average annual groundwater depth at 100 cm, SSCMatP162 – average annual groundwater depth at 50 cm, and SSCMatP182 – average annual groundwater depth at 30 cm.

Figure 43: Effect of Water Depth on ET in SCW †



† Figure 43 displays the total 1999 evapotranspiration results of the South Cottonwood Bosque models. The SCWMat model was created to model measured evapotranspiration. The groundwater depth in this model was then augmented to determine the effect on evapotranspiration.

‡ Total 1999 evapotranspiration is represented by the dark gray bars. The percent increase (negative for decreases) in total evapotranspiration from the SCWMat model is represented by the spotted bars. All data are plotted on the same scale.

Key to Model Names: SCWMatM483 – average annual groundwater depth at 700 cm, SCWMatM283 – average annual groundwater depth at 500 cm, SCWMat – original model, SCWMatP120 – average annual groundwater depth at 100 cm, SCWMatP171 – average annual groundwater depth at 50 cm, and SCWMatP193 – average annual groundwater depth at 30 cm.

In the cottonwood models, evapotranspiration increases by 217% to levels comparable to those in saltcedar models as water levels rise to 30 cm depth (Fig. 43). These evapotranspiration values differ mostly due to floodwaters, introduced in the saltcedar models. Evapotranspiration decreased by 54% as water levels drop to 7 m (Fig. 43). Evaporation values depend completely on weather data, and transpiration is almost completely eliminated with water levels at this depth.

Groundwater levels are the greatest controlling factor on all of the Bosque model evapotranspiration results. When groundwater levels drop below 5 m, transpiration drops to a level that would not support vegetation with the rooting pattern observed in the field. Evaporation is very similar between various models and is largely controlled by weather and flood data rather than soil or vegetation parameters. Soil texture and rooting patterns play smaller roles in evapotranspiration at extremes in groundwater levels.

5. SUMMARY AND CONCLUSION

Although the measured data set is large and a great deal of information can be deduced from it, not all of the deductions can be related to general evapotranspiration trends. The field data show a marked difference in soil texture and stratigraphy between the saltcedar and cottonwood sites, where cottonwood soils are sandy, and saltcedar soils are finer. The field data also show that heavy soils and saltcedar vegetation cause large groundwater salinity increases. The field data show that evapotranspiration is higher in the saltcedar, yet do not show that this is due to the vegetation alone. Soil texture, soil stratigraphy, groundwater depth, and flooding help explain this difference.

The Hydrus 1 D program was able to model evapotranspiration from very different soils and vegetation communities successfully. Modeling of layered sands and fine textured soils in very dry conditions becomes difficult. Also, vapor phase transport is neglected. Overall, the Hydrus 1 D program is quite suited for modeling evapotranspiration.

The 1999 total evapotranspiration was 38% higher in the saltcedar stands than that of the cottonwood site. Vegetation species is not a major factor leading to the differences in yearly evapotranspiration when other factors are involved. According to trends observed in the theoretical modeling, the differences in soil texture alone may account for a majority of the differences in evapotranspiration. According to soil moisture data, the capillary fringe in the sands of the cottonwood site rise only approximately 50 cm, and soil moisture remains less than 10% by volume throughout the unsaturated sand profile. Whereas in the heavy saltcedar soils, the capillary rise is approximately 1 m and the unsaturated soil moisture is generally between 20% and 30% by volume. The groundwater table is 15% to 20% lower in the cottonwood area than in the saltcedar areas during the height of the growing season. Three flooding events, which occurred in the saltcedar site may have a great affect on the evapotranspiration values measured as well.

Water availability to vegetation roots and to the atmosphere is the dominant control of the evapotranspiration rate. Rooting depth and pattern were found to be the most important factors limiting transpiration in modeling. Water availability is greatly controlled by groundwater depth

and soil texture and stratigraphy. Clay soils produce high capillary rises and hold more water within reach of roots. Shallow groundwater depths allow water to flow towards the surface and toward roots faster. Results of the virtual soil models agree with measured data, showing that dense soils and shallow groundwater produce higher evapotranspiration rates.

Models in virtual soils show that evapotranspiration drains groundwater in arid riparian regions. It can be seen that climatic conditions that produce precipitation and control potential evapotranspiration have the greatest effect on evapotranspiration. Within a climatic regime (arid riparian), soil texture, groundwater level, and plant properties are the most important factors affecting evapotranspiration.

For fine textured soils, capillary rise becomes the dominant process controlling evapotranspiration. For coarse and medium textured soils, rain events, and moisture retention are more important processes limiting evapotranspiration rates. The following is a ranking of the overall importance of three factors affecting evapotranspiration obtained upon analysis of virtual soil models.

1st Groundwater Level

2nd Soil Texture

3rd Rooting Depth and Pattern

Although modeling and field measurements were thorough, vegetation adaptations and behavior were not predicted in this work. Vegetation adaptations to soil texture and stratigraphy as well as to groundwater depth cannot be analyzed without additional lysimetry work. Natural systems may not conform to some evapotranspiration rates predicted by these models, yet the trends would hold.

This research was performed in order to evaluate trends and processes that dominate evapotranspiration in arid riparian regions. This work is important because of the scarcity of fresh water in arid regions particularly in the Southwestern United States. The large amount of field data obtained by both New Mexico Institute of Mines and Technology, and New Mexico State University insure that the models produced sound results. This research also shows that the Hydrus 1 D program is a strong tool in evapotranspiration studies. Although many factors have a

large effect on evapotranspiration rate, groundwater depth was found to have the largest impact on evapotranspiration.

REFERENCES

- Abeebe, Willy V. 1978. Informal Report: LA-7241-MS: Influences of Access Hole Parameters on Neutron Moisture Profile Readings. Department of Energy. Los Alamos, NM.
- Allen, Richard G. Luis S. Pereira, Dirk Rues and Martin Smith. 1998. FAO Irrigation and Drainage Paper 56: Crop Evapotranspiration – Guidelines for Computing Crop Water Requirements. Food and Agriculture Organization of the UN. Rome.
- Barbour, M.G., G. Cunningham, W.C. Rechel, and S.A. Bamberg. 1977. Growth and Development, Form and Function. *In* Mabry, T. J. (ed.) Creosote Bush: Biology and Chemistry of *Larrea* in New World Deserts. US/Ibp Synth. Ser. 6. Dowden, Hutchinson, and Ross Publ. Stroudsburg, PA.
- Baumgartner, A., and E. Reichel, 1975. The World Water Balance. Elsevier Scientific Publishing Co. New York, NY.
- Bowie, James E. and William Kam. 1968. Use of Water by Riparian Vegetation, Cottonwash, Arizona. USGS Water-Supply Paper 1858, Washington, DC.
- Cannon, William Austin. 1911. Carnegie Institute Publication 316: The Root Habits of Desert Plants. Carnegie Institute, Washington, DC.

- Carman, R.L. 1993. Measurement of Evapotranspiration in Phreatophyte Areas, Smith Creek Valley and Carson Desert, West-Central Nevada 1983. USGS Water Resources Investigation Report 89-4118, Washington, DC.
- Cleverly, James. March 2000. Plant Root Behaviour. Personal Interview. University of New Mexico, Sevilleta LTER, Albuquerque, NM.
- Cooper, Daniel I. 1997. Estimation of Spatially Distributed Latent Energy Flux Over Complex Terrain Using Scanning Water-Vapor-Raman LIDAR. *In* Evapotranspiration in Southwestern Riparian Ecosystems: Issues and Methods. p. 11-12. University of New Mexico Press. Albuquerque, NM.
- CPN Staff. 1984. 503DR Manual Notice Revision 503A-230. CPN, CA.
- CPN Staff. 1984. 503DR SN5324 Calibration. CPN, CA.
- CPN Staff. 1985. Counting Statistics Manual. CPN, CA.
- Culler, R.C., R.L. Harson, R.M. Myrick, R.M. Turner and F.P. Kipple. 1982. Evapotranspiration Before and After Clearing Phreatophytes, Gila River Flood Plain, Graham County, Arizona. USGS Paper 655-P, Washington, DC.
- Cunningham, G.L., J.G. Fraser, R.E. Grieve, and H.G. Wolfe. 1973. A Comparison of Rates of Water Loss Through Transpiration of Several Southern New Mexico Phreatophyte Species. New Mexico Water Resources Research Institute Report #025, July, 1973, Las Cruces, NM.

- Devitt, D.A., A. Sala, S.D. Smith, J. Cleverly, L.K. Shaulis, and R. Hammett. 1998. Bowen Ratio Estimates of Evapotranspiration for *Tamarix ramosissima* Stands on the Virgin River in Southern Nevada. *Water Resources Research*. 34 (9): 2407-14.
- Dugas, Willam A. and Herman S. Jr. Mayeux. 1991. Evaporation from Rangeland with and without Honey Mesquite. *Journal of Range Management*. 44(2):161-70.
- Dugas, Willam A., R.A. Hicks and P. Wright. 1998. Effects of Removal of *Juniperus ashei* on Evapotranspiration and Runoff in the Seco Creek Watershed. *Water Resources Research*. 34(6):1499-1506.
- Duhn, Chris. 2000. Plant Root Behavior. Personal Interview. May 2, 2000. University of New Mexico, Department of Biology, Albuquerque, NM.
- Feddes, R.A., D. Kabat, P.J.T. vanBakel, J.J.B. Bronswijk, and J. Halbertsma. 1988. Modeling Soil Water Dynamics in the Unsaturated Zone State of the Art. *J. of Hydrology*. 100(1988):69-111.
- Feddes, R.A. and P.E. Rijtema. 1972. Water Withdrawl by Plant Roots. *J. of Hydrology*. 17:33-59.
- Food and Agriculture Organization and International Atomic Energy Agency Staff. 1975. Technical Report 170: Root Activity Patterns of Some Tree Crops. FAO, Vienna.
- Forseth, I.N., J.R. Eweringer, K.S. Werk and C.S. Cook. 1984. Field Water Relations of Sonoran Desert Annuals. *Ecology*. 65(5):1436-44.

- Gardener, Gariona M.K., John P. Bell, J. David Cooper, Tom J. Denn, Martin G. Hodnett and Nigel Gardener. 1991. Chapter 1: Soil Water Content. *In* Smith, K.A. and C.E. Mullins (ed.) *Soil Analysis: Physical Methods*. Marcel Dekker, NY, NY.
- Gardener, W.R. 1964. Relationships of Root Distribution to Water Uptake and Availability. *Agronomy J.* 64(1):41-5.
- Gay, Lloyd W. 1986. Water Use by Saltcedar in an Arid Environment. p.855-862. *In* Karamouz, Mohammad., George R. Baumli, and William J. Brick. *Water Forum '86: World Water Issues in Evolution*. Volume 1. American Society of Civil Engineers, New York, NY.
- Glinski, Jan and Jerzy Lipiec. 1990. *Soil Physical Conditions and Plant Rooting*. CRC Press. Boca Raton, FL.
- Goodspeed, M.J. 1981. Chapter 3: Neutron Moisture Meter Theory. *In* Greacen, E.L. (ed.) *Soil Assessment by Neutron Method*. CSIRO, Australia.
- Gupta, S.C., R.J. Hanks. 1972. Influences of Water Content on Electrical Conductivity of the Soil. *Soil Sci. Soc. of Am. Proc.* 36:855-7.
- Hanson, Ronald L., and David R. Dawdy. 1976. Accuracy of Evapotranspiration Rates Determined by the Water Budget Method, Gila River Flood Plain, Southeastern Arizona. Gila. USGS Paper 655-L, Washington, DC.
- Harbeck, G. Earl Jr. 1955. The Effect of Salinity on Evaporation. USGS Paper 272-A, Washington, DC.

- Hem, J.D. 1967. Composition of Saline Residues on Leaves and Stems of Saltcedar (*Tamarix pentandra* Pallas). USGS Paper 491-C, Washington, DC.
- Hendricks, E.L., William Kam, and James E. Bowie. 1960. Progress Report on Use of Water by Riparian Vegetation, Cottonwood Wash, Arizona. USGS Circular 434.
- Hendricks, Michael G., Paul E. Rieke, Alvin J.M. Smucker and Bruce E. Branham. 1994. Turfgrass Root Systems Evaluated Using Minirhizotom and Video Recording Methods. *Agronomy J.* 86(2):247-50.
- Hendrickx, J. M. H. and G. Walker, Recharge from precipitation. Chapter 2, *In* I. Simmers (ed.), Recharge of phreatic aquifers in (semi)-arid areas. Balkema, Rotterdam, The Netherlands, 1997.
- Jensen, M.E., R.D. Burman, and R. G. Allen. 1990. Evapotranspiration and Irrigation Water Requirements. American Society of Civil Engineers, NY, NY.
- Jury, W.A., W.R. Gardner and W.H. Gardner. 1991. Soil Physics. 5th Edition. John Wiley and Sons, NY, NY.
- Kemp, Paul R., James E. Reynolds, Yakov Pachepsky and Jia-Lin Chen. 1997. A Comparative Modeling Study of Soil Water Dynamics in a Desert Ecosystem. *Water Resources Research.* 33(1):73-90.
- Ketrina, D.L. and J.L. Reid. 1993. Growth of Peanut Roots Under Field Conditions. *Agronomy J.* 85(1):80-5.

- Klepper, E.L. K.A. Gano, and L.L. Cadwell. 1985. Report PNL-5247: Rooting Depth and Distribution of Deep-Rooted Plants in the 200 Areas Control Zone of the Hanford Site. Pacific Northwest Lab. Richmond, WA.
- Laney, R.L. and H.W. Hjalmarson. 1977. Effect of Phreatophyte Removal on Water Quality in the Gila River Phreatophyte Project Area, Graham County, Arizona. USGS Paper 655-M, Washington, DC.
- Langmuir, D. and J. Mahoney. 1985. Chemical Equilibrium and Kinetics of Geochemical Processes in Groundwater Studies. *In* Practical Applications of Groundwater Geochemistry Proceedings. 1st Canadian/American Conference on Hydrology. Toronto.
- Lanlois, C.G., L. Godbout and J.A. Fortin. 1983. Seasonal Variations of Growth and Development of the Roots of Five Second Year Conifer Species in the Nursery. *In* Plant and Soil. 71:55-63.
- Laycock, William A. 1967. Distributions of Roots and Rhizomes in Different Soil Types in the Pine Barrens of New Jersey. USGS Paper 563-C, Washington, DC.
- MacNeil, J.D. 1980. Technical Note TN-5: Electrical Conductivity of Soils and Rocks. Geonics Limited. Ontario.
- MacNeil, J.D. 1992. Chapter 11: Rapid, Accurate Mapping of Soil Salinity by Electromagnetic Ground Conductivity Meters. *In* Advances in Measurements of Soil Physical Properties: Bringing Theory into Practice. Soil Sci. Soc. of Am. Special Pub. # 30.

- Mc Donald, Charles C., and Gilbert H. Hughes. 1968. Studies of Consumptive Use of Water by Phreatophytes and Hydrophytes Near Yuma, Arizona. Water Resources on Lower Colorado River Sulton Sea Area. USGS Paper 486-F, Washington, DC.
- Molz, Fred J. 1971. Interaction of Water Uptake and Root Distribution. *Agronomy J.* 163(4):608-10.
- Polemo, M., S. Bufo and S. Pauleti. 1980. Evaluation of Ionic Strength and Salinity of Groundwaters: Effect of the Ionic Composition. *Geochim Cosmochim Acta.* 44(6):809-14.
- Powell, A Michael. 1994. Grasses of the Tans-Pecos and Adjacent Areas. University of Texas Press. Austin, TX.
- Ritchie, Joe T. 1981. Chapter 4: Water Dynamics in the Soil-Plant-Atmosphere System. *In* Monteith, John and Colin Webb Martinus (ed.) *Plant and Soil.* Nilhof/Dr. Wonk Pulb. Los Angeles, CA.
- Roads, J.D. 1992. Chapter 12: Instrument Field Methods of Salinity Appraisal. *In* *Advances in Measurements of Soil Physical Properties: Bringing Theory into Practice.* Soil Sci. Soc. of Am. Special Pub. # 30.
- Robinson, T.W. 1958. Phreatophytes. USGS Water Supply Paper 1423, Washington, DC.
- Robinson, T.W. 1965. Introduction, Spread and Areal Extent of Saltcedar (*Tamarix*) in the Western States. USGS Paper 491-A, Washington, DC.

Robinson, T.W. and A.O. Waananen. 1970. Evapotranspiration by Woody Phreatophytes in the Humboldt River Valley Near Winnemucca, Nevada. USGS Paper 491-D. Washington, DC.

Stole, J. 1997. Determination of Saturated Hydraulic Conductivity Using Constant Head Method. *In* Stole, J. Technical Document 37: Manual of Physical Measurements. Version 3. Technisch DOL Winand and Staring Centre, Wageningen, 1997.

Taylor, H.M. and Betty Klepper. 1973. Root Density and Water Extraction Patterns for Corn (*Zea mays*). *Agronomy J.* 65(5):965-8.

Turner, M. Raymond. 1974. Quantitative and Historical Evidence of Vegetation Changes Along the Upper Gila River, Arizona. USGS Paper 655-H, Washington, DC.

US Census Bureau Staff. 1999. ST-99-3 State Population Estimate: Annual Survey July 1, 1989 to July 1, 1999. Population Estimate Program, Population Division. US Census Bureau, Washington, DC.

van Hylckama, T.E.A. 1980. Weather and Evapotranspiration Studies in a Saltcedar Thicket, Arizona. USGS Paper 491-F, Washington, DC.

van Hylckama, T.E.A. 1987. Water Use by Saltcedar as Measured by the Water Budget Method. USGS Paper 491-E, Washington, DC.

- Veerman, G.J., and J. Stole. 1997. Determination of Water Retention Characteristic Using the Hanging Water Column. *In* Stole, J. Technical Document 37: Manual of Physical Measurements. Version 3. Technisch DOL Winand and Staring Centre, Wageningen, 1997.
- Weaver, H.L., E.P. Weeks, G. S. Campbell, D.I. Stannard and B.D. Tanner. 1986. Phreatophyte Water Use Estimated by Eddy-Correlation Methods. p. 847-854. *In* Karamouz, Mohammad., George R. Baumli, and William J, Brick. Water Forum '86: World Water Issues in Evolution. Volume 1. American Society of Civil Engineers. New York, NY.
- Weaver, John E. 1919. Carnegie Institute Publication 286: The Ecological Relations of Roots. Carnegie Institute, Washington, DC.
- Weaver, John E., Fank L. Jean, and John W. Crist. 1922. Carnegie Institute Publication 316: Development and Activity of Roots on Crop Plants. Carnegie Institute, Washington DC.
- Weeks, Edwin P., Harold L. Weaver, Gaylon S. Campbell, Bert D. Tanner. 1987. Water Use by Saltcedar and by Replacement Vegetation in Pecos River Floodplain Between Acme and Artesia, New Mexico. p. G1-33, USGS paper 491-G, Washington, DC.
- Weitz, A, J. Stole and G.J. Veerman. 1997. Determination of Saturated Hydraulic Conductivities Using the Falling Head Method. *In* Stole, J. (ed.) Technical Document 37: Manual of Physical Measurements. Version 3. Technisch DOL Winand and Staring Centre, Wageningen, 1997.

- Welder, G.E. 1988. Hydrologic Effects of Phreatophyte Control, Acme-Artesia Reach of the Pecos River, New Mexico, 1967-1982. USGS Water Resources Investigations Report: 87-4148, Albuquerque, NM.
- White, Walter N. 1932. A Method of Estimating Groundwater Supplies Based on Discharge by Plants and Evaporation from Soil. USGS Water Supply Paper 654A:1-106, Washington, DC.
- William, John, and Dennis F. Sinclair. 1981. Chapter 5: Accuracy Bias and Precision. *In* Greacen, E.L. (ed.) Soil Water Assessment by Neutron Method. CSIRO, Australia.
- Wooton, E.C. and Paul C. Standley. 1912. The Grasses and Grass-Like Plants of New Mexico. New Mexico College of Agriculture and Mechanic Arts Bulletin No. 81(Dec).

**IMPORTANCE OF GROUNDWATER DEPTH, SOIL TEXTURE AND ROOTING
DEPTH ON ARID RIPARIAN EVAPOTRANSPIRATION**

Volume II

By Behnaum Moayyad

An Independent Study Submitted to the
HYDROLOGY PROGRAM OF THE
EARTH AND ENVIRONMENTAL SCIENCE DEPARTMENT
In Partial Fulfillment of the Requirements
Of the Degree of
MASTER OF SCIENCE
NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

July 2001

TABLE OF CONTENTS

Volume II

| | |
|---------------------------------------------------------------|------------|
| APPENDIX A: DATA FOR VIRTUAL SOIL MODELS. | A-1 |
| A.1. WEATHER INPUT. | A-1 |
| A.2. CLAY SOIL INITIAL CONDITIONS AND PROFILE DISCRITIZATION. | A-17 |
| A.3. LOAM SOIL INITIAL CONDITIONS AND PROFILE DISCRITIZATION. | A-32 |
| A.4. SAND SOIL INITIAL CONDITIONS AND PROFILE DISCRITIZATION. | A-47 |
| A.6. EVAPORATION DATA. | A-62 |
| A.7. TRANPIRATION DATA. | A-83 |
| A.8. GROUNDWATER DISCHARGE DATA. | A-105 |
| A.9. TOTAL EVAPOTRANSPIRATION FLUX DATA. | A-126 |
| APPENDIX B: RESULTS OF FIELD MEASUREMENTS. | B-1 |
| B.1. MEASURED EVAPOTRANSPIRATION. | B-1 |
| B.2. DAILY GROUNDWATER LEVEL DATA. | B-7 |
| B.3. NEUTRON PROBE DATA. | B-28 |
| B.3.1. Water content calibration. | B-28 |
| B.3.2. Soil moisture data. | B-31 |
| B.4. SALINITY DATA. | B-34 |
| B.5. STABLE ISOTOPE DATA. | B-41 |
| APPENDIX C: RESULTS OF BOSQUE DEL APACHE DATA. | C-1 |
| C.1. COTTONWOOD MODEL INPUT. | C-1 |
| C.2. CENTRAL SALTCEDAR MODEL INPUT DATA. | C-10 |
| C.3. SOUTH SALTCEDAR MODEL INPUT. | C-17 |
| C.4. WEATHER INPUT DATA. | C-25 |
| C.5. CENTRAL SALTCEDAR MODEL OUTPUT. | C-43 |
| C.6. SOUTH SALTCEDAR MODEL OUTPUT. | C-82 |
| C.7. SOUTH COTTONWOOD MODEL OUTPUT. | C-126 |

Appendix A.1. Weather Input Data

THEORETICAL RUNS WEATHER INFO

(986days Constant Reference ET)

| Day | P (cm) | Ref. | | Ref. | |
|----------|--------|--------|-------------|--------|-------|
| | | E (cm) | h_crit (cm) | | |
| 01/01/97 | 1 | 0 | 0.234 | 100000 | 0.234 |
| 01/02/97 | 2 | 0 | 0.286 | 100000 | 0.286 |
| 01/03/97 | 3 | 0 | 0.182 | 100000 | 0.182 |
| 01/04/97 | 4 | 0 | 0.208 | 100000 | 0.208 |
| 01/05/97 | 5 | 0.3048 | 0.026 | 100000 | 0.026 |
| 01/06/97 | 6 | 0.1016 | 0.052 | 100000 | 0.052 |
| 01/07/97 | 7 | 0 | 0.13 | 100000 | 0.13 |
| 01/08/97 | 8 | 0 | 0.13 | 100000 | 0.13 |
| 01/09/97 | 9 | 0 | 0.208 | 100000 | 0.208 |
| 01/10/97 | 10 | 0 | 0.208 | 100000 | 0.208 |
| 01/11/97 | 11 | 0 | 0.208 | 100000 | 0.208 |
| 01/12/97 | 12 | 0 | 0.208 | 100000 | 0.208 |
| 01/13/97 | 13 | 0 | 0.104 | 100000 | 0.104 |
| 01/14/97 | 14 | 0 | 0.182 | 100000 | 0.182 |
| 01/15/97 | 15 | 0 | 0.208 | 100000 | 0.208 |
| 01/16/97 | 16 | 0 | 0.104 | 100000 | 0.104 |
| 01/17/97 | 17 | 0 | 0.182 | 100000 | 0.182 |
| 01/18/97 | 18 | 0 | 0.208 | 100000 | 0.208 |
| 01/19/97 | 19 | 0 | 0.208 | 100000 | 0.208 |
| 01/20/97 | 20 | 0 | 0.182 | 100000 | 0.182 |
| 01/21/97 | 21 | 0.1016 | 0.286 | 100000 | 0.286 |
| 01/22/97 | 22 | 0 | 0.208 | 100000 | 0.208 |
| 01/23/97 | 23 | 0 | 0.182 | 100000 | 0.182 |
| 01/24/97 | 24 | 0 | 0.286 | 100000 | 0.286 |
| 01/25/97 | 25 | 0 | 0.26 | 100000 | 0.26 |
| 01/26/97 | 26 | 0.3048 | 0.052 | 100000 | 0.052 |
| 01/27/97 | 27 | 0 | 0.234 | 100000 | 0.234 |
| 01/28/97 | 28 | 0 | 0.26 | 100000 | 0.26 |
| 01/29/97 | 29 | 0 | 0.26 | 100000 | 0.26 |
| 01/30/97 | 30 | 0 | 0.312 | 100000 | 0.312 |
| 01/31/97 | 31 | 0 | 0.286 | 100000 | 0.286 |
| 02/01/97 | 32 | 0 | 0.312 | 100000 | 0.312 |
| 02/02/97 | 33 | 0 | 0.312 | 100000 | 0.312 |
| 02/03/97 | 34 | 0 | 0.39 | 100000 | 0.39 |
| 02/04/97 | 35 | 0 | 0.312 | 100000 | 0.312 |
| 02/05/97 | 36 | 0 | 0.286 | 100000 | 0.286 |
| 02/06/97 | 37 | 0 | 0.26 | 100000 | 0.26 |
| 02/07/97 | 38 | 0 | 0.26 | 100000 | 0.26 |
| 02/08/97 | 39 | 0 | 0.234 | 100000 | 0.234 |
| 02/09/97 | 40 | 0 | 0.364 | 100000 | 0.364 |
| 02/10/97 | 41 | 0 | 0.364 | 100000 | 0.364 |
| 02/11/97 | 42 | 0 | 0.416 | 100000 | 0.416 |
| 02/12/97 | 43 | 0 | 0.39 | 100000 | 0.39 |
| 02/13/97 | 44 | 0 | 0.182 | 100000 | 0.182 |
| 02/14/97 | 45 | 0 | 0.364 | 100000 | 0.364 |
| 02/15/97 | 46 | 0 | 0.39 | 100000 | 0.39 |
| 02/16/97 | 47 | 0 | 0.364 | 100000 | 0.364 |
| 02/17/97 | 48 | 0 | 0.364 | 100000 | 0.364 |
| 02/18/97 | 49 | 0 | 0.312 | 100000 | 0.312 |
| 02/19/97 | 50 | 0.3048 | 0.286 | 100000 | 0.286 |
| 02/20/97 | 51 | 0 | 0.39 | 100000 | 0.39 |
| 02/21/97 | 52 | 0 | 0.338 | 100000 | 0.338 |
| 02/22/97 | 53 | 0 | 0.39 | 100000 | 0.39 |
| 02/23/97 | 54 | 0 | 0.416 | 100000 | 0.416 |
| 02/24/97 | 55 | 0 | 0.338 | 100000 | 0.338 |
| 02/25/97 | 56 | 0 | 0.286 | 100000 | 0.286 |
| 02/26/97 | 57 | 0 | 0.312 | 100000 | 0.312 |
| 02/27/97 | 58 | 0 | 0.312 | 100000 | 0.312 |
| 02/28/97 | 59 | 0 | 0.312 | 100000 | 0.312 |
| 03/01/97 | 60 | 0 | 0.39 | 100000 | 0.39 |

THEORETICAL RUNS WEATHER INFO

(986days Bosque Reference ET)

| Day | P (cm) | Ref. | | Ref. | |
|----------|--------|--------|-------------|--------|-------|
| | | E (cm) | h_crit (cm) | | |
| 01/01/97 | 1 | 0 | 0.588 | 100000 | 0.234 |
| 01/02/97 | 2 | 0 | 0.756 | 100000 | 0.286 |
| 01/03/97 | 3 | 0.6096 | 0.28 | 100000 | 0.182 |
| 01/04/97 | 4 | 0.1016 | 0.252 | 100000 | 0.208 |
| 01/05/97 | 5 | 0 | 0.504 | 100000 | 0.026 |
| 01/06/97 | 6 | 0 | 0.672 | 100000 | 0.052 |
| 01/07/97 | 7 | 0 | 0.812 | 100000 | 0.13 |
| 01/08/97 | 8 | 0 | 0.812 | 100000 | 0.13 |
| 01/09/97 | 9 | 0 | 0.812 | 100000 | 0.208 |
| 01/10/97 | 10 | 0 | 0.756 | 100000 | 0.208 |
| 01/11/97 | 11 | 0 | 0.588 | 100000 | 0.208 |
| 01/12/97 | 12 | 0.5842 | 0.448 | 100000 | 0.208 |
| 01/13/97 | 13 | 0.0254 | 0.672 | 100000 | 0.104 |
| 01/14/97 | 14 | 0 | 0.756 | 100000 | 0.182 |
| 01/15/97 | 15 | 0 | 0.84 | 100000 | 0.208 |
| 01/16/97 | 16 | 0 | 0.812 | 100000 | 0.104 |
| 01/17/97 | 17 | 0 | 1.036 | 100000 | 0.182 |
| 01/18/97 | 18 | 0 | 1.008 | 100000 | 0.208 |
| 01/19/97 | 19 | 0 | 0.476 | 100000 | 0.208 |
| 01/20/97 | 20 | 0 | 0.2286 | 100000 | 0.182 |
| 01/21/97 | 21 | 0 | 0.588 | 100000 | 0.286 |
| 01/22/97 | 22 | 0 | 0.7 | 100000 | 0.208 |
| 01/23/97 | 23 | 0 | 0.868 | 100000 | 0.182 |
| 01/24/97 | 24 | 0 | 0.98 | 100000 | 0.286 |
| 01/25/97 | 25 | 0 | 0.784 | 100000 | 0.26 |
| 01/26/97 | 26 | 0 | 1.064 | 100000 | 0.052 |
| 01/27/97 | 27 | 0 | 0.868 | 100000 | 0.234 |
| 01/28/97 | 28 | 0 | 0.84 | 100000 | 0.26 |
| 01/29/97 | 29 | 0 | 0.98 | 100000 | 0.26 |
| 01/30/97 | 30 | 0 | 0.84 | 100000 | 0.312 |
| 01/31/97 | 31 | 0 | 1.008 | 100000 | 0.286 |
| 02/01/97 | 32 | 0 | 0.84 | 100000 | 0.312 |
| 02/02/97 | 33 | 0 | 0.812 | 100000 | 0.312 |
| 02/03/97 | 34 | 0 | 0.784 | 100000 | 0.39 |
| 02/04/97 | 35 | 0 | 0.812 | 100000 | 0.312 |
| 02/05/97 | 36 | 0 | 0.924 | 100000 | 0.286 |
| 02/06/97 | 37 | 0 | 1.008 | 100000 | 0.26 |
| 02/07/97 | 38 | 0 | 1.008 | 100000 | 0.26 |
| 02/08/97 | 39 | 0 | 1.232 | 100000 | 0.234 |
| 02/09/97 | 40 | 0 | 1.26 | 100000 | 0.364 |
| 02/10/97 | 41 | 0 | 0.616 | 100000 | 0.364 |
| 02/11/97 | 42 | 0 | 0.644 | 100000 | 0.416 |
| 02/12/97 | 43 | 0 | 0.98 | 100000 | 0.39 |
| 02/13/97 | 44 | 0 | 0.868 | 100000 | 0.182 |
| 02/14/97 | 45 | 0 | 0.532 | 100000 | 0.364 |
| 02/15/97 | 46 | 0 | 1.064 | 100000 | 0.39 |
| 02/16/97 | 47 | 0 | 1.008 | 100000 | 0.364 |
| 02/17/97 | 48 | 0 | 0.616 | 100000 | 0.364 |
| 02/18/97 | 49 | 0 | 0.924 | 100000 | 0.312 |
| 02/19/97 | 50 | 0 | 0.924 | 100000 | 0.286 |
| 02/20/97 | 51 | 0 | 1.064 | 100000 | 0.39 |
| 02/21/97 | 52 | 0 | 1.008 | 100000 | 0.338 |
| 02/22/97 | 53 | 0 | 0.952 | 100000 | 0.39 |
| 02/23/97 | 54 | 0 | 0.924 | 100000 | 0.416 |
| 02/24/97 | 55 | 0 | 1.036 | 100000 | 0.338 |
| 02/25/97 | 56 | 0 | 1.008 | 100000 | 0.286 |
| 02/26/97 | 57 | 0 | 1.092 | 100000 | 0.312 |
| 02/27/97 | 58 | 0 | 0.728 | 100000 | 0.312 |
| 02/28/97 | 59 | 0 | 1.036 | 100000 | 0.312 |
| 03/01/97 | 60 | 0 | 1.036 | 100000 | 0.39 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|-------|
| 03/02/97 | 61 | 0 | 0.442 | 100000 | 0.442 | 03/02/97 | 61 | 0 | 1.176 | 100000 | 0.442 |
| 03/03/97 | 62 | 0 | 0.624 | 100000 | 0.624 | 03/03/97 | 62 | 0 | 1.12 | 100000 | 0.624 |
| 03/04/97 | 63 | 0 | 0.572 | 100000 | 0.572 | 03/04/97 | 63 | 0 | 1.064 | 100000 | 0.572 |
| 03/05/97 | 64 | 0 | 0.468 | 100000 | 0.468 | 03/05/97 | 64 | 0 | 1.036 | 100000 | 0.468 |
| 03/06/97 | 65 | 0 | 0.468 | 100000 | 0.468 | 03/06/97 | 65 | 0 | 1.036 | 100000 | 0.468 |
| 03/07/97 | 66 | 0 | 0.52 | 100000 | 0.52 | 03/07/97 | 66 | 0 | 1.204 | 100000 | 0.52 |
| 03/08/97 | 67 | 0 | 0.52 | 100000 | 0.52 | 03/08/97 | 67 | 0 | 1.064 | 100000 | 0.52 |
| 03/09/97 | 68 | 0 | 0.598 | 100000 | 0.598 | 03/09/97 | 68 | 0 | 1.008 | 100000 | 0.598 |
| 03/10/97 | 69 | 0 | 0.624 | 100000 | 0.624 | 03/10/97 | 69 | 0 | 1.12 | 100000 | 0.624 |
| 03/11/97 | 70 | 0 | 0.624 | 100000 | 0.624 | 03/11/97 | 70 | 0.3556 | 0.7 | 100000 | 0.624 |
| 03/12/97 | 71 | 0 | 0.598 | 100000 | 0.598 | 03/12/97 | 71 | 0.6604 | 0.616 | 100000 | 0.598 |
| 03/13/97 | 72 | 0 | 0.676 | 100000 | 0.676 | 03/13/97 | 72 | 0 | 0.952 | 100000 | 0.676 |
| 03/14/97 | 73 | 0 | 0.598 | 100000 | 0.598 | 03/14/97 | 73 | 0 | 0.7 | 100000 | 0.598 |
| 03/15/97 | 74 | 0 | 0.65 | 100000 | 0.65 | 03/15/97 | 74 | 0 | 0.98 | 100000 | 0.65 |
| 03/16/97 | 75 | 0 | 0.676 | 100000 | 0.676 | 03/16/97 | 75 | 0.0508 | 0.728 | 100000 | 0.676 |
| 03/17/97 | 76 | 0 | 0.546 | 100000 | 0.546 | 03/17/97 | 76 | 0.0762 | 0.84 | 100000 | 0.546 |
| 03/18/97 | 77 | 0 | 0.65 | 100000 | 0.65 | 03/18/97 | 77 | 0 | 0.98 | 100000 | 0.65 |
| 03/19/97 | 78 | 0 | 0.65 | 100000 | 0.65 | 03/19/97 | 78 | 0 | 0.812 | 100000 | 0.65 |
| 03/20/97 | 79 | 0 | 0.676 | 100000 | 0.676 | 03/20/97 | 79 | 0 | 1.12 | 100000 | 0.676 |
| 03/21/97 | 80 | 0 | 0.728 | 100000 | 0.728 | 03/21/97 | 80 | 0 | 1.148 | 100000 | 0.728 |
| 03/22/97 | 81 | 0 | 0.676 | 100000 | 0.676 | 03/22/97 | 81 | 0 | 1.148 | 100000 | 0.676 |
| 03/23/97 | 82 | 0 | 0.728 | 100000 | 0.728 | 03/23/97 | 82 | 0 | 1.26 | 100000 | 0.728 |
| 03/24/97 | 83 | 0.1016 | 0.676 | 100000 | 0.676 | 03/24/97 | 83 | 0 | 1.008 | 100000 | 0.676 |
| 03/25/97 | 84 | 0.1016 | 0.312 | 100000 | 0.312 | 03/25/97 | 84 | 0 | 1.008 | 100000 | 0.312 |
| 03/26/97 | 85 | 0 | 0.494 | 100000 | 0.494 | 03/26/97 | 85 | 0 | 1.092 | 100000 | 0.494 |
| 03/27/97 | 86 | 0 | 0.702 | 100000 | 0.702 | 03/27/97 | 86 | 0 | 1.148 | 100000 | 0.702 |
| 03/28/97 | 87 | 0 | 0.728 | 100000 | 0.728 | 03/28/97 | 87 | 0 | 1.064 | 100000 | 0.728 |
| 03/29/97 | 88 | 0 | 0.676 | 100000 | 0.676 | 03/29/97 | 88 | 0 | 1.092 | 100000 | 0.676 |
| 03/30/97 | 89 | 0 | 0.624 | 100000 | 0.624 | 03/30/97 | 89 | 0 | 1.12 | 100000 | 0.624 |
| 03/31/97 | 90 | 0 | 0.624 | 100000 | 0.624 | 03/31/97 | 90 | 0 | 1.092 | 100000 | 0.624 |
| 04/01/97 | 91 | 0 | 0.572 | 100000 | 0.572 | 04/01/97 | 91 | 0 | 0.784 | 100000 | 0.572 |
| 04/02/97 | 92 | 0 | 0.832 | 100000 | 0.832 | 04/02/97 | 92 | 0 | 0.924 | 100000 | 0.832 |
| 04/03/97 | 93 | 1.0922 | 0.494 | 100000 | 0.494 | 04/03/97 | 93 | 0 | 1.008 | 100000 | 0.494 |
| 04/04/97 | 94 | 0.4064 | 0.39 | 100000 | 0.39 | 04/04/97 | 94 | 0 | 0.924 | 100000 | 0.39 |
| 04/05/97 | 95 | 0 | 0.494 | 100000 | 0.494 | 04/05/97 | 95 | 0.3556 | 0.672 | 100000 | 0.494 |
| 04/06/97 | 96 | 0 | 0.442 | 100000 | 0.442 | 04/06/97 | 96 | 0 | 0.784 | 100000 | 0.442 |
| 04/07/97 | 97 | 0 | 0.546 | 100000 | 0.546 | 04/07/97 | 97 | 0 | 0.784 | 100000 | 0.546 |
| 04/08/97 | 98 | 0 | 0.65 | 100000 | 0.65 | 04/08/97 | 98 | 0 | 0.896 | 100000 | 0.65 |
| 04/09/97 | 99 | 0 | 0.754 | 100000 | 0.754 | 04/09/97 | 99 | 0 | 0.756 | 100000 | 0.754 |
| 04/10/97 | 100 | 0 | 0.676 | 100000 | 0.676 | 04/10/97 | 100 | 0 | 1.008 | 100000 | 0.676 |
| 04/11/97 | 101 | 1.1938 | 0.156 | 100000 | 0.156 | 04/11/97 | 101 | 0 | 1.036 | 100000 | 0.156 |
| 04/12/97 | 102 | 0.6096 | 0.286 | 100000 | 0.286 | 04/12/97 | 102 | 0 | 1.092 | 100000 | 0.286 |
| 04/13/97 | 103 | 0 | 0.494 | 100000 | 0.494 | 04/13/97 | 103 | 0 | 0.98 | 100000 | 0.494 |
| 04/14/97 | 104 | 0 | 0.65 | 100000 | 0.65 | 04/14/97 | 104 | 0 | 0.924 | 100000 | 0.65 |
| 04/15/97 | 105 | 0 | 0.702 | 100000 | 0.702 | 04/15/97 | 105 | 0 | 0.84 | 100000 | 0.702 |
| 04/16/97 | 106 | 0 | 0.728 | 100000 | 0.728 | 04/16/97 | 106 | 0.1524 | 1.064 | 100000 | 0.728 |
| 04/17/97 | 107 | 0 | 0.676 | 100000 | 0.676 | 04/17/97 | 107 | 0 | 1.232 | 100000 | 0.676 |
| 04/18/97 | 108 | 0 | 0.728 | 100000 | 0.728 | 04/18/97 | 108 | 0 | 1.204 | 100000 | 0.728 |
| 04/19/97 | 109 | 0 | 0.78 | 100000 | 0.78 | 04/19/97 | 109 | 0 | 1.148 | 100000 | 0.78 |
| 04/20/97 | 110 | 0 | 0.754 | 100000 | 0.754 | 04/20/97 | 110 | 0 | 0.98 | 100000 | 0.754 |
| 04/21/97 | 111 | 0 | 0.754 | 100000 | 0.754 | 04/21/97 | 111 | 0 | 0.924 | 100000 | 0.754 |
| 04/22/97 | 112 | 0 | 0.728 | 100000 | 0.728 | 04/22/97 | 112 | 0.0254 | 0.924 | 100000 | 0.728 |
| 04/23/97 | 113 | 0.2032 | 0.286 | 100000 | 0.286 | 04/23/97 | 113 | 0.0508 | 0.84 | 100000 | 0.286 |
| 04/24/97 | 114 | 0.4064 | 0.234 | 100000 | 0.234 | 04/24/97 | 114 | 0.0508 | 0.7 | 100000 | 0.234 |
| 04/25/97 | 115 | 0 | 0.286 | 100000 | 0.286 | 04/25/97 | 115 | 0 | 0.98 | 100000 | 0.286 |
| 04/26/97 | 116 | 0 | 0.546 | 100000 | 0.546 | 04/26/97 | 116 | 0 | 0.868 | 100000 | 0.546 |
| 04/27/97 | 117 | 0 | 0.676 | 100000 | 0.676 | 04/27/97 | 117 | 0.5334 | 0.924 | 100000 | 0.676 |
| 04/28/97 | 118 | 0 | 0.806 | 100000 | 0.806 | 04/28/97 | 118 | 0 | 0.588 | 100000 | 0.806 |
| 04/29/97 | 119 | 0 | 0.676 | 100000 | 0.676 | 04/29/97 | 119 | 0 | 1.008 | 100000 | 0.676 |
| 04/30/97 | 120 | 0 | 0.806 | 100000 | 0.806 | 04/30/97 | 120 | 0 | 0.952 | 100000 | 0.806 |
| 05/01/97 | 121 | 0 | 0.702 | 100000 | 0.702 | 05/01/97 | 121 | 0 | 0.98 | 100000 | 0.702 |
| 05/02/97 | 122 | 0 | 0.832 | 100000 | 0.832 | 05/02/97 | 122 | 0 | 0.672 | 100000 | 0.832 |
| 05/03/97 | 123 | 0 | 0.806 | 100000 | 0.806 | 05/03/97 | 123 | 0 | 0.56 | 100000 | 0.806 |
| 05/04/97 | 124 | 0 | 0.858 | 100000 | 0.858 | 05/04/97 | 124 | 0.0254 | 0.812 | 100000 | 0.858 |
| 05/05/97 | 125 | 0 | 0.78 | 100000 | 0.78 | 05/05/97 | 125 | 0.0254 | 0.616 | 100000 | 0.78 |
| 05/06/97 | 126 | 0 | 0.832 | 100000 | 0.832 | 05/06/97 | 126 | 1.8034 | 0.84 | 100000 | 0.832 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|-------|
| 05/07/97 | 127 | 0 | 0.702 | 100000 | 0.702 | 05/07/97 | 127 | 0.6604 | 0.84 | 100000 | 0.702 |
| 05/08/97 | 128 | 0 | 0.754 | 100000 | 0.754 | 05/08/97 | 128 | 0.0254 | 0.784 | 100000 | 0.754 |
| 05/09/97 | 129 | 0 | 0.598 | 100000 | 0.598 | 05/09/97 | 129 | 0.3048 | 0.616 | 100000 | 0.598 |
| 05/10/97 | 130 | 0 | 0.702 | 100000 | 0.702 | 05/10/97 | 130 | 0 | 0.868 | 100000 | 0.702 |
| 05/11/97 | 131 | 0 | 0.702 | 100000 | 0.702 | 05/11/97 | 131 | 0 | 0.952 | 100000 | 0.702 |
| 05/12/97 | 132 | 0 | 0.78 | 100000 | 0.78 | 05/12/97 | 132 | 0 | 0.952 | 100000 | 0.78 |
| 05/13/97 | 133 | 0 | 0.91 | 100000 | 0.91 | 05/13/97 | 133 | 0 | 0.98 | 100000 | 0.91 |
| 05/14/97 | 134 | 0 | 0.884 | 100000 | 0.884 | 05/14/97 | 134 | 0 | 0.812 | 100000 | 0.884 |
| 05/15/97 | 135 | 0 | 0.78 | 100000 | 0.78 | 05/15/97 | 135 | 0 | 0.924 | 100000 | 0.78 |
| 05/16/97 | 136 | 0.508 | 0.754 | 100000 | 0.754 | 05/16/97 | 136 | 0.0508 | 0.868 | 100000 | 0.754 |
| 05/17/97 | 137 | 0 | 0.832 | 100000 | 0.832 | 05/17/97 | 137 | 0 | 0.952 | 100000 | 0.832 |
| 05/18/97 | 138 | 0 | 0.78 | 100000 | 0.78 | 05/18/97 | 138 | 0 | 0.896 | 100000 | 0.78 |
| 05/19/97 | 139 | 0.3048 | 0.494 | 100000 | 0.494 | 05/19/97 | 139 | 0.0254 | 0.952 | 100000 | 0.494 |
| 05/20/97 | 140 | 0 | 0.52 | 100000 | 0.52 | 05/20/97 | 140 | 0 | 0.84 | 100000 | 0.52 |
| 05/21/97 | 141 | 0.7112 | 0.312 | 100000 | 0.312 | 05/21/97 | 141 | 0 | 0.756 | 100000 | 0.312 |
| 05/22/97 | 142 | 0 | 0.676 | 100000 | 0.676 | 05/22/97 | 142 | 0.2794 | 0.504 | 100000 | 0.676 |
| 05/23/97 | 143 | 0 | 0.806 | 100000 | 0.806 | 05/23/97 | 143 | 0.0762 | 0.476 | 100000 | 0.806 |
| 05/24/97 | 144 | 0.6096 | 0.494 | 100000 | 0.494 | 05/24/97 | 144 | 0.4826 | 0.588 | 100000 | 0.494 |
| 05/25/97 | 145 | 0 | 0.806 | 100000 | 0.806 | 05/25/97 | 145 | 0.9906 | 0.588 | 100000 | 0.806 |
| 05/26/97 | 146 | 0 | 0.962 | 100000 | 0.962 | 05/26/97 | 146 | 0 | 0.868 | 100000 | 0.962 |
| 05/27/97 | 147 | 0 | 0.806 | 100000 | 0.806 | 05/27/97 | 147 | 1.0922 | 0.896 | 100000 | 0.806 |
| 05/28/97 | 148 | 0 | 0.858 | 100000 | 0.858 | 05/28/97 | 148 | 0.0508 | 0.728 | 100000 | 0.858 |
| 05/29/97 | 149 | 0 | 0.806 | 100000 | 0.806 | 05/29/97 | 149 | 0.3048 | 0.56 | 100000 | 0.806 |
| 05/30/97 | 150 | 0 | 0.936 | 100000 | 0.936 | 05/30/97 | 150 | 0.1016 | 0.588 | 100000 | 0.936 |
| 05/31/97 | 151 | 0 | 0.91 | 100000 | 0.91 | 05/31/97 | 151 | 0.0254 | 0.896 | 100000 | 0.91 |
| 06/01/97 | 152 | 0 | 1.04 | 100000 | 1.04 | 06/01/97 | 152 | 0 | 1.008 | 100000 | 1.04 |
| 06/02/97 | 153 | 0 | 0.754 | 100000 | 0.754 | 06/02/97 | 153 | 0.0254 | 0.84 | 100000 | 0.754 |
| 06/03/97 | 154 | 0 | 1.04 | 100000 | 1.04 | 06/03/97 | 154 | 0 | 0.784 | 100000 | 1.04 |
| 06/04/97 | 155 | 0 | 0.884 | 100000 | 0.884 | 06/04/97 | 155 | 0 | 0.98 | 100000 | 0.884 |
| 06/05/97 | 156 | 0 | 0.754 | 100000 | 0.754 | 06/05/97 | 156 | 0 | 0.952 | 100000 | 0.754 |
| 06/06/97 | 157 | 0.8128 | 0.468 | 100000 | 0.468 | 06/06/97 | 157 | 0 | 0.952 | 100000 | 0.468 |
| 06/07/97 | 158 | 0.8128 | 0.338 | 100000 | 0.338 | 06/07/97 | 158 | 0.5842 | 0.896 | 100000 | 0.338 |
| 06/08/97 | 159 | 0.508 | 0.78 | 100000 | 0.78 | 06/08/97 | 159 | 0.1524 | 0.84 | 100000 | 0.78 |
| 06/09/97 | 160 | 0 | 0.962 | 100000 | 0.962 | 06/09/97 | 160 | 0 | 0.98 | 100000 | 0.962 |
| 06/10/97 | 161 | 0 | 1.04 | 100000 | 1.04 | 06/10/97 | 161 | 0 | 0.896 | 100000 | 1.04 |
| 06/11/97 | 162 | 0 | 1.092 | 100000 | 1.092 | 06/11/97 | 162 | 0.4572 | 1.008 | 100000 | 1.092 |
| 06/12/97 | 163 | 0 | 0.728 | 100000 | 0.728 | 06/12/97 | 163 | 0 | 0.84 | 100000 | 0.728 |
| 06/13/97 | 164 | 0 | 0.988 | 100000 | 0.988 | 06/13/97 | 164 | 0.0508 | 0.784 | 100000 | 0.988 |
| 06/14/97 | 165 | 0 | 0.858 | 100000 | 0.858 | 06/14/97 | 165 | 0 | 0.728 | 100000 | 0.858 |
| 06/15/97 | 166 | 0 | 0.962 | 100000 | 0.962 | 06/15/97 | 166 | 0.2286 | 0.896 | 100000 | 0.962 |
| 06/16/97 | 167 | 0 | 0.91 | 100000 | 0.91 | 06/16/97 | 167 | 0.0508 | 0.896 | 100000 | 0.91 |
| 06/17/97 | 168 | 0 | 0.988 | 100000 | 0.988 | 06/17/97 | 168 | 0 | 0.896 | 100000 | 0.988 |
| 06/18/97 | 169 | 0 | 1.092 | 100000 | 1.092 | 06/18/97 | 169 | 0 | 0.812 | 100000 | 1.092 |
| 06/19/97 | 170 | 0 | 1.014 | 100000 | 1.014 | 06/19/97 | 170 | 0 | 0.84 | 100000 | 1.014 |
| 06/20/97 | 171 | 0 | 1.092 | 100000 | 1.092 | 06/20/97 | 171 | 0 | 0.616 | 100000 | 1.092 |
| 06/21/97 | 172 | 0 | 1.092 | 100000 | 1.092 | 06/21/97 | 172 | 0 | 0.672 | 100000 | 1.092 |
| 06/22/97 | 173 | 0 | 1.144 | 100000 | 1.144 | 06/22/97 | 173 | 2.1336 | 0.476 | 100000 | 1.144 |
| 06/23/97 | 174 | 0 | 1.066 | 100000 | 1.066 | 06/23/97 | 174 | 0 | 0.812 | 100000 | 1.066 |
| 06/24/97 | 175 | 0 | 1.066 | 100000 | 1.066 | 06/24/97 | 175 | 0 | 0.868 | 100000 | 1.066 |
| 06/25/97 | 176 | 0 | 1.092 | 100000 | 1.092 | 06/25/97 | 176 | 0 | 0.588 | 100000 | 1.092 |
| 06/26/97 | 177 | 0 | 0.988 | 100000 | 0.988 | 06/26/97 | 177 | 0 | 0.784 | 100000 | 0.988 |
| 06/27/97 | 178 | 0 | 0.936 | 100000 | 0.936 | 06/27/97 | 178 | 0 | 0.868 | 100000 | 0.936 |
| 06/28/97 | 179 | 0 | 1.014 | 100000 | 1.014 | 06/28/97 | 179 | 0 | 0.616 | 100000 | 1.014 |
| 06/29/97 | 180 | 0 | 0.988 | 100000 | 0.988 | 06/29/97 | 180 | 0 | 0.588 | 100000 | 0.988 |
| 06/30/97 | 181 | 0 | 1.196 | 100000 | 1.196 | 06/30/97 | 181 | 0 | 0.924 | 100000 | 1.196 |
| 07/01/97 | 182 | 0 | 1.144 | 100000 | 1.144 | 07/01/97 | 182 | 0 | 0.896 | 100000 | 1.144 |
| 07/02/97 | 183 | 0 | 1.17 | 100000 | 1.17 | 07/02/97 | 183 | 0.5842 | 0.476 | 100000 | 1.17 |
| 07/03/97 | 184 | 0 | 1.04 | 100000 | 1.04 | 07/03/97 | 184 | 0.0254 | 0.504 | 100000 | 1.04 |
| 07/04/97 | 185 | 0 | 1.066 | 100000 | 1.066 | 07/04/97 | 185 | 0.254 | 0.616 | 100000 | 1.066 |
| 07/05/97 | 186 | 0 | 1.04 | 100000 | 1.04 | 07/05/97 | 186 | 0.127 | 0.616 | 100000 | 1.04 |
| 07/06/97 | 187 | 0 | 0.988 | 100000 | 0.988 | 07/06/97 | 187 | 0.2794 | 0.28 | 100000 | 0.988 |
| 07/07/97 | 188 | 0 | 1.04 | 100000 | 1.04 | 07/07/97 | 188 | 0.8382 | 0.616 | 100000 | 1.04 |
| 07/08/97 | 189 | 0 | 1.04 | 100000 | 1.04 | 07/08/97 | 189 | 0.0254 | 0.532 | 100000 | 1.04 |
| 07/09/97 | 190 | 0 | 1.04 | 100000 | 1.04 | 07/09/97 | 190 | 0 | 0.728 | 100000 | 1.04 |
| 07/10/97 | 191 | 0 | 0.91 | 100000 | 0.91 | 07/10/97 | 191 | 0 | 0.7 | 100000 | 0.91 |
| 07/11/97 | 192 | 0.1016 | 0.832 | 100000 | 0.832 | 07/11/97 | 192 | 0 | 0.644 | 100000 | 0.832 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|-------|
| 07/12/97 | 193 | 0 | 1.04 | 100000 | 1.04 | 07/12/97 | 193 | 0.127 | 0.532 | 100000 | 1.04 |
| 07/13/97 | 194 | 0 | 1.092 | 100000 | 1.092 | 07/13/97 | 194 | 0.0254 | 0.672 | 100000 | 1.092 |
| 07/14/97 | 195 | 0 | 1.118 | 100000 | 1.118 | 07/14/97 | 195 | 0 | 0.728 | 100000 | 1.118 |
| 07/15/97 | 196 | 0 | 1.04 | 100000 | 1.04 | 07/15/97 | 196 | 0 | 0.784 | 100000 | 1.04 |
| 07/16/97 | 197 | 0 | 0.988 | 100000 | 0.988 | 07/16/97 | 197 | 0 | 0.784 | 100000 | 0.988 |
| 07/17/97 | 198 | 0 | 1.092 | 100000 | 1.092 | 07/17/97 | 198 | 0 | 0.924 | 100000 | 1.092 |
| 07/18/97 | 199 | 0 | 1.118 | 100000 | 1.118 | 07/18/97 | 199 | 0 | 0.728 | 100000 | 1.118 |
| 07/19/97 | 200 | 0.3048 | 0.884 | 100000 | 0.884 | 07/19/97 | 200 | 0 | 0.672 | 100000 | 0.884 |
| 07/20/97 | 201 | 0 | 1.066 | 100000 | 1.066 | 07/20/97 | 201 | 0 | 0.756 | 100000 | 1.066 |
| 07/21/97 | 202 | 0.1016 | 1.014 | 100000 | 1.014 | 07/21/97 | 202 | 0 | 0.756 | 100000 | 1.014 |
| 07/22/97 | 203 | 0.4064 | 0.832 | 100000 | 0.832 | 07/22/97 | 203 | 0 | 0.756 | 100000 | 0.832 |
| 07/23/97 | 204 | 0 | 0.832 | 100000 | 0.832 | 07/23/97 | 204 | 0 | 0.784 | 100000 | 0.832 |
| 07/24/97 | 205 | 0 | 0.832 | 100000 | 0.832 | 07/24/97 | 205 | 0 | 0.756 | 100000 | 0.832 |
| 07/25/97 | 206 | 0 | 0.91 | 100000 | 0.91 | 07/25/97 | 206 | 0 | 0.756 | 100000 | 0.91 |
| 07/26/97 | 207 | 0 | 0.78 | 100000 | 0.78 | 07/26/97 | 207 | 0 | 0.644 | 100000 | 0.78 |
| 07/27/97 | 208 | 0.889 | 0.676 | 100000 | 0.676 | 07/27/97 | 208 | 0 | 0.7 | 100000 | 0.676 |
| 07/28/97 | 209 | 0.2032 | 0.312 | 100000 | 0.312 | 07/28/97 | 209 | 0 | 0.644 | 100000 | 0.312 |
| 07/29/97 | 210 | 0.4064 | 0.39 | 100000 | 0.39 | 07/29/97 | 210 | 0 | 0.728 | 100000 | 0.39 |
| 07/30/97 | 211 | 1.905 | 0.494 | 100000 | 0.494 | 07/30/97 | 211 | 0 | 0.7 | 100000 | 0.494 |
| 07/31/97 | 212 | 1.905 | 0.442 | 100000 | 0.442 | 07/31/97 | 212 | 0 | 0.672 | 100000 | 0.442 |
| 08/01/97 | 213 | 0 | 0.78 | 100000 | 0.78 | 08/01/97 | 213 | 0 | 0.756 | 100000 | 0.78 |
| 08/02/97 | 214 | 1.0922 | 0.754 | 100000 | 0.754 | 08/02/97 | 214 | 0 | 0.728 | 100000 | 0.754 |
| 08/03/97 | 215 | 0.508 | 0.728 | 100000 | 0.728 | 08/03/97 | 215 | 0 | 0.7 | 100000 | 0.728 |
| 08/04/97 | 216 | 0 | 0.858 | 100000 | 0.858 | 08/04/97 | 216 | 0.1778 | 0.588 | 100000 | 0.858 |
| 08/05/97 | 217 | 0.8128 | 0.546 | 100000 | 0.546 | 08/05/97 | 217 | 0.5334 | 0.112 | 100000 | 0.546 |
| 08/06/97 | 218 | 0 | 0.754 | 100000 | 0.754 | 08/06/97 | 218 | 0 | 0.392 | 100000 | 0.754 |
| 08/07/97 | 219 | 0 | 0.676 | 100000 | 0.676 | 08/07/97 | 219 | 0 | 0.448 | 100000 | 0.676 |
| 08/08/97 | 220 | 0 | 0.754 | 100000 | 0.754 | 08/08/97 | 220 | 0 | 0.504 | 100000 | 0.754 |
| 08/09/97 | 221 | 0 | 0.728 | 100000 | 0.728 | 08/09/97 | 221 | 0 | 0.616 | 100000 | 0.728 |
| 08/10/97 | 222 | 0.1016 | 0.65 | 100000 | 0.65 | 08/10/97 | 222 | 0 | 0.644 | 100000 | 0.65 |
| 08/11/97 | 223 | 0.1016 | 0.702 | 100000 | 0.702 | 08/11/97 | 223 | 0 | 0.616 | 100000 | 0.702 |
| 08/12/97 | 224 | 0 | 0.676 | 100000 | 0.676 | 08/12/97 | 224 | 0 | 0.588 | 100000 | 0.676 |
| 08/13/97 | 225 | 0 | 0.78 | 100000 | 0.78 | 08/13/97 | 225 | 0 | 0.616 | 100000 | 0.78 |
| 08/14/97 | 226 | 0 | 0.754 | 100000 | 0.754 | 08/14/97 | 226 | 0 | 0.644 | 100000 | 0.754 |
| 08/15/97 | 227 | 0 | 0.806 | 100000 | 0.806 | 08/15/97 | 227 | 0 | 0.476 | 100000 | 0.806 |
| 08/16/97 | 228 | 0 | 0.806 | 100000 | 0.806 | 08/16/97 | 228 | 0 | 0.616 | 100000 | 0.806 |
| 08/17/97 | 229 | 0.2032 | 0.65 | 100000 | 0.65 | 08/17/97 | 229 | 0 | 0.728 | 100000 | 0.65 |
| 08/18/97 | 230 | 0 | 0.624 | 100000 | 0.624 | 08/18/97 | 230 | 0 | 0.476 | 100000 | 0.624 |
| 08/19/97 | 231 | 0 | 0.78 | 100000 | 0.78 | 08/19/97 | 231 | 0 | 0.56 | 100000 | 0.78 |
| 08/20/97 | 232 | 0 | 0.832 | 100000 | 0.832 | 08/20/97 | 232 | 0 | 0.7 | 100000 | 0.832 |
| 08/21/97 | 233 | 0 | 0.728 | 100000 | 0.728 | 08/21/97 | 233 | 0 | 0.504 | 100000 | 0.728 |
| 08/22/97 | 234 | 2.413 | 0.78 | 100000 | 0.78 | 08/22/97 | 234 | 0 | 0.42 | 100000 | 0.78 |
| 08/23/97 | 235 | 0.9906 | 0.728 | 100000 | 0.728 | 08/23/97 | 235 | 0 | 0.56 | 100000 | 0.728 |
| 08/24/97 | 236 | 0 | 0.728 | 100000 | 0.728 | 08/24/97 | 236 | 0 | 0.588 | 100000 | 0.728 |
| 08/25/97 | 237 | 0 | 0.78 | 100000 | 0.78 | 08/25/97 | 237 | 0 | 0.644 | 100000 | 0.78 |
| 08/26/97 | 238 | 0 | 0.754 | 100000 | 0.754 | 08/26/97 | 238 | 0 | 0.532 | 100000 | 0.754 |
| 08/27/97 | 239 | 0 | 0.754 | 100000 | 0.754 | 08/27/97 | 239 | 0 | 0.504 | 100000 | 0.754 |
| 08/28/97 | 240 | 0 | 0.832 | 100000 | 0.832 | 08/28/97 | 240 | 0 | 0.504 | 100000 | 0.832 |
| 08/29/97 | 241 | 0 | 0.754 | 100000 | 0.754 | 08/29/97 | 241 | 0 | 0.616 | 100000 | 0.754 |
| 08/30/97 | 242 | 0 | 0.754 | 100000 | 0.754 | 08/30/97 | 242 | 0 | 0.588 | 100000 | 0.754 |
| 08/31/97 | 243 | 0 | 0.78 | 100000 | 0.78 | 08/31/97 | 243 | 0 | 0.616 | 100000 | 0.78 |
| 09/01/97 | 244 | 0 | 0.78 | 100000 | 0.78 | 09/01/97 | 244 | 0 | 0.56 | 100000 | 0.78 |
| 09/02/97 | 245 | 0 | 0.728 | 100000 | 0.728 | 09/02/97 | 245 | 0 | 0.672 | 100000 | 0.728 |
| 09/03/97 | 246 | 0 | 0.65 | 100000 | 0.65 | 09/03/97 | 246 | 0 | 0.588 | 100000 | 0.65 |
| 09/04/97 | 247 | 0 | 0.728 | 100000 | 0.728 | 09/04/97 | 247 | 0 | 0.532 | 100000 | 0.728 |
| 09/05/97 | 248 | 0 | 0.65 | 100000 | 0.65 | 09/05/97 | 248 | 0 | 0.532 | 100000 | 0.65 |
| 09/06/97 | 249 | 0 | 0.728 | 100000 | 0.728 | 09/06/97 | 249 | 0 | 0.448 | 100000 | 0.728 |
| 09/07/97 | 250 | 0 | 0.702 | 100000 | 0.702 | 09/07/97 | 250 | 0 | 0.476 | 100000 | 0.702 |
| 09/08/97 | 251 | 0 | 0.65 | 100000 | 0.65 | 09/08/97 | 251 | 0 | 0.448 | 100000 | 0.65 |
| 09/09/97 | 252 | 0 | 0.52 | 100000 | 0.52 | 09/09/97 | 252 | 0 | 0.476 | 100000 | 0.52 |
| 09/10/97 | 253 | 0 | 0.65 | 100000 | 0.65 | 09/10/97 | 253 | 0 | 0.42 | 100000 | 0.65 |
| 09/11/97 | 254 | 0.1016 | 0.572 | 100000 | 0.572 | 09/11/97 | 254 | 0 | 0.392 | 100000 | 0.572 |
| 09/12/97 | 255 | 0.1016 | 0.468 | 100000 | 0.468 | 09/12/97 | 255 | 0 | 0.392 | 100000 | 0.468 |
| 09/13/97 | 256 | 0 | 0.598 | 100000 | 0.598 | 09/13/97 | 256 | 0 | 0.364 | 100000 | 0.598 |
| 09/14/97 | 257 | 0 | 0.624 | 100000 | 0.624 | 09/14/97 | 257 | 0 | 0.42 | 100000 | 0.624 |
| 09/15/97 | 258 | 0.1016 | 0.546 | 100000 | 0.546 | 09/15/97 | 258 | 0 | 0.42 | 100000 | 0.546 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|-------|
| 09/16/97 | 259 | 0 | 0.624 | 100000 | 0.624 | 09/16/97 | 259 | 0 | 0.476 | 100000 | 0.624 |
| 09/17/97 | 260 | 0 | 0.65 | 100000 | 0.65 | 09/17/97 | 260 | 0 | 0.448 | 100000 | 0.65 |
| 09/18/97 | 261 | 0 | 0.468 | 100000 | 0.468 | 09/18/97 | 261 | 0 | 0.42 | 100000 | 0.468 |
| 09/19/97 | 262 | 0.4064 | 0.572 | 100000 | 0.572 | 09/19/97 | 262 | 0 | 0.336 | 100000 | 0.572 |
| 09/20/97 | 263 | 1.4986 | 0.156 | 100000 | 0.156 | 09/20/97 | 263 | 0 | 0.476 | 100000 | 0.156 |
| 09/21/97 | 264 | 3.4036 | 0.026 | 100000 | 0.026 | 09/21/97 | 264 | 0 | 0.392 | 100000 | 0.026 |
| 09/22/97 | 265 | 0 | 0.546 | 100000 | 0.546 | 09/22/97 | 265 | 0.0508 | 0.28 | 100000 | 0.546 |
| 09/23/97 | 266 | 0.2032 | 0.702 | 100000 | 0.702 | 09/23/97 | 266 | 0 | 0.28 | 100000 | 0.702 |
| 09/24/97 | 267 | 0 | 0.494 | 100000 | 0.494 | 09/24/97 | 267 | 0 | 0.28 | 100000 | 0.494 |
| 09/25/97 | 268 | 0 | 0.494 | 100000 | 0.494 | 09/25/97 | 268 | 0 | 0.336 | 100000 | 0.494 |
| 09/26/97 | 269 | 0 | 0.572 | 100000 | 0.572 | 09/26/97 | 269 | 0.0254 | 0.392 | 100000 | 0.572 |
| 09/27/97 | 270 | 0 | 0.598 | 100000 | 0.598 | 09/27/97 | 270 | 0 | 0.224 | 100000 | 0.598 |
| 09/28/97 | 271 | 0 | 0.598 | 100000 | 0.598 | 09/28/97 | 271 | 0 | 0.28 | 100000 | 0.598 |
| 09/29/97 | 272 | 0 | 0.624 | 100000 | 0.624 | 09/29/97 | 272 | 0 | 0.336 | 100000 | 0.624 |
| 09/30/97 | 273 | 0 | 0.598 | 100000 | 0.598 | 09/30/97 | 273 | 0 | 0.364 | 100000 | 0.598 |
| 10/01/97 | 274 | 0 | 0.624 | 100000 | 0.624 | 10/01/97 | 274 | 0 | 0.336 | 100000 | 0.624 |
| 10/02/97 | 275 | 0 | 0.572 | 100000 | 0.572 | 10/02/97 | 275 | 0 | 0.448 | 100000 | 0.572 |
| 10/03/97 | 276 | 0.1016 | 0.572 | 100000 | 0.572 | 10/03/97 | 276 | 0 | 0.364 | 100000 | 0.572 |
| 10/04/97 | 277 | 0 | 0.598 | 100000 | 0.598 | 10/04/97 | 277 | 0 | 0.308 | 100000 | 0.598 |
| 10/05/97 | 278 | 0 | 0.624 | 100000 | 0.624 | 10/05/97 | 278 | 0 | 0.364 | 100000 | 0.624 |
| 10/06/97 | 279 | 0 | 0.624 | 100000 | 0.624 | 10/06/97 | 279 | 0 | 0.364 | 100000 | 0.624 |
| 10/07/97 | 280 | 0.4064 | 0.468 | 100000 | 0.468 | 10/07/97 | 280 | 0 | 0.308 | 100000 | 0.468 |
| 10/08/97 | 281 | 0 | 0.572 | 100000 | 0.572 | 10/08/97 | 281 | 0 | 0.28 | 100000 | 0.572 |
| 10/09/97 | 282 | 0 | 0.52 | 100000 | 0.52 | 10/09/97 | 282 | 0 | 0.14 | 100000 | 0.52 |
| 10/10/97 | 283 | 0 | 0.572 | 100000 | 0.572 | 10/10/97 | 283 | 0 | 0.056 | 100000 | 0.572 |
| 10/11/97 | 284 | 0 | 0.65 | 100000 | 0.65 | 10/11/97 | 284 | 0 | 0.196 | 100000 | 0.65 |
| 10/12/97 | 285 | 0 | 0.39 | 100000 | 0.39 | 10/12/97 | 285 | 0 | 0.224 | 100000 | 0.39 |
| 10/13/97 | 286 | 0 | 0.468 | 100000 | 0.468 | 10/13/97 | 286 | 0 | 0.308 | 100000 | 0.468 |
| 10/14/97 | 287 | 0 | 0.494 | 100000 | 0.494 | 10/14/97 | 287 | 0.2032 | 0.056 | 100000 | 0.494 |
| 10/15/97 | 288 | 0 | 0.52 | 100000 | 0.52 | 10/15/97 | 288 | 0 | 0.196 | 100000 | 0.52 |
| 10/16/97 | 289 | 0 | 0.546 | 100000 | 0.546 | 10/16/97 | 289 | 0 | 0.196 | 100000 | 0.546 |
| 10/17/97 | 290 | 0 | 0.494 | 100000 | 0.494 | 10/17/97 | 290 | 0 | 0.14 | 100000 | 0.494 |
| 10/18/97 | 291 | 0 | 0.52 | 100000 | 0.52 | 10/18/97 | 291 | 0 | 0.252 | 100000 | 0.52 |
| 10/19/97 | 292 | 0 | 0.52 | 100000 | 0.52 | 10/19/97 | 292 | 0 | 0.28 | 100000 | 0.52 |
| 10/20/97 | 293 | 0 | 0.416 | 100000 | 0.416 | 10/20/97 | 293 | 0 | 0.392 | 100000 | 0.416 |
| 10/21/97 | 294 | 0 | 0.468 | 100000 | 0.468 | 10/21/97 | 294 | 0 | 0.336 | 100000 | 0.468 |
| 10/22/97 | 295 | 0.1016 | 0.26 | 100000 | 0.26 | 10/22/97 | 295 | 0 | 0.308 | 100000 | 0.26 |
| 10/23/97 | 296 | 0 | 0.442 | 100000 | 0.442 | 10/23/97 | 296 | 0 | 0.308 | 100000 | 0.442 |
| 10/24/97 | 297 | 0.1016 | 0.338 | 100000 | 0.338 | 10/24/97 | 297 | 0 | 0.364 | 100000 | 0.338 |
| 10/25/97 | 298 | 0 | 0.208 | 100000 | 0.208 | 10/25/97 | 298 | 0 | 0.364 | 100000 | 0.208 |
| 10/26/97 | 299 | 0 | 0.364 | 100000 | 0.364 | 10/26/97 | 299 | 0 | 0.336 | 100000 | 0.364 |
| 10/27/97 | 300 | 0 | 0.364 | 100000 | 0.364 | 10/27/97 | 300 | 0 | 0.336 | 100000 | 0.364 |
| 10/28/97 | 301 | 0 | 0.416 | 100000 | 0.416 | 10/28/97 | 301 | 0 | 0.308 | 100000 | 0.416 |
| 10/29/97 | 302 | 0 | 0.39 | 100000 | 0.39 | 10/29/97 | 302 | 0 | 0.392 | 100000 | 0.39 |
| 10/30/97 | 303 | 0 | 0.468 | 100000 | 0.468 | 10/30/97 | 303 | 0 | 0.392 | 100000 | 0.468 |
| 10/31/97 | 304 | 0 | 0.52 | 100000 | 0.52 | 10/31/97 | 304 | 0 | 0.504 | 100000 | 0.52 |
| 11/01/97 | 305 | 0 | 0.52 | 100000 | 0.52 | 11/01/97 | 305 | 0 | 0.336 | 100000 | 0.52 |
| 11/02/97 | 306 | 0 | 0.468 | 100000 | 0.468 | 11/02/97 | 306 | 0 | 0.42 | 100000 | 0.468 |
| 11/03/97 | 307 | 0 | 0.416 | 100000 | 0.416 | 11/03/97 | 307 | 0 | 0.392 | 100000 | 0.416 |
| 11/04/97 | 308 | 0 | 0.468 | 100000 | 0.468 | 11/04/97 | 308 | 0 | 0.364 | 100000 | 0.468 |
| 11/05/97 | 309 | 0 | 0.416 | 100000 | 0.416 | 11/05/97 | 309 | 0 | 0.476 | 100000 | 0.416 |
| 11/06/97 | 310 | 0 | 0.39 | 100000 | 0.39 | 11/06/97 | 310 | 0 | 0.392 | 100000 | 0.39 |
| 11/07/97 | 311 | 0 | 0.416 | 100000 | 0.416 | 11/07/97 | 311 | 0 | 0.476 | 100000 | 0.416 |
| 11/08/97 | 312 | 0 | 0.39 | 100000 | 0.39 | 11/08/97 | 312 | 0 | 0.448 | 100000 | 0.39 |
| 11/09/97 | 313 | 0.1016 | 0.13 | 100000 | 0.13 | 11/09/97 | 313 | 0 | 0.476 | 100000 | 0.13 |
| 11/10/97 | 314 | 0 | 0.182 | 100000 | 0.182 | 11/10/97 | 314 | 0 | 0.588 | 100000 | 0.182 |
| 11/11/97 | 315 | 0.3048 | 0.026 | 100000 | 0.026 | 11/11/97 | 315 | 0 | 0.42 | 100000 | 0.026 |
| 11/12/97 | 316 | 0.3048 | 0.104 | 100000 | 0.104 | 11/12/97 | 316 | 0 | 0.588 | 100000 | 0.104 |
| 11/13/97 | 317 | 0.1016 | 0.182 | 100000 | 0.182 | 11/13/97 | 317 | 0 | 0.42 | 100000 | 0.182 |
| 11/14/97 | 318 | 0 | 0.182 | 100000 | 0.182 | 11/14/97 | 318 | 0 | 0.56 | 100000 | 0.182 |
| 11/15/97 | 319 | 0.2032 | 0.156 | 100000 | 0.156 | 11/15/97 | 319 | 0 | 0.504 | 100000 | 0.156 |
| 11/16/97 | 320 | 0 | 0.234 | 100000 | 0.234 | 11/16/97 | 320 | 0 | 0.476 | 100000 | 0.234 |
| 11/17/97 | 321 | 0.1016 | 0.26 | 100000 | 0.26 | 11/17/97 | 321 | 0 | 0.084 | 100000 | 0.26 |
| 11/18/97 | 322 | 0 | 0.26 | 100000 | 0.26 | 11/18/97 | 322 | 0 | 0.28 | 100000 | 0.26 |
| 11/19/97 | 323 | 0 | 0.286 | 100000 | 0.286 | 11/19/97 | 323 | 0 | 0.392 | 100000 | 0.286 |
| 11/20/97 | 324 | 0 | 0.312 | 100000 | 0.312 | 11/20/97 | 324 | 0 | 0.532 | 100000 | 0.312 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|--------|--------|--------|
| 11/21/97 | 325 | 0 | 0.234 | 100000 | 0.234 | 11/21/97 | 325 | 0 | 0.42 | 100000 | 0.234 |
| 11/22/97 | 326 | 0 | 0.312 | 100000 | 0.312 | 11/22/97 | 326 | 0 | 0.448 | 100000 | 0.312 |
| 11/23/97 | 327 | 0 | 0.286 | 100000 | 0.286 | 11/23/97 | 327 | 0 | 0.364 | 100000 | 0.286 |
| 11/24/97 | 328 | 0 | 0.312 | 100000 | 0.312 | 11/24/97 | 328 | 0 | 0.364 | 100000 | 0.312 |
| 11/25/97 | 329 | 0 | 0.26 | 100000 | 0.26 | 11/25/97 | 329 | 0 | 0.476 | 100000 | 0.26 |
| 11/26/97 | 330 | 0 | 0.078 | 100000 | 0.078 | 11/26/97 | 330 | 0 | 0.448 | 100000 | 0.078 |
| 11/27/97 | 331 | 0 | 0.104 | 100000 | 0.104 | 11/27/97 | 331 | 0 | 0.476 | 100000 | 0.104 |
| 11/28/97 | 332 | 0 | 0.208 | 100000 | 0.208 | 11/28/97 | 332 | 0 | 0.532 | 100000 | 0.208 |
| 11/29/97 | 333 | 0 | 0.234 | 100000 | 0.234 | 11/29/97 | 333 | 0 | 0.952 | 100000 | 0.234 |
| 11/30/97 | 334 | 0 | 0.234 | 100000 | 0.234 | 11/30/97 | 334 | 0 | 0.504 | 100000 | 0.234 |
| 12/01/97 | 335 | 0 | 0.182 | 100000 | 0.182 | 12/01/97 | 335 | 0 | 0.448 | 100000 | 0.182 |
| 12/02/97 | 336 | 0.508 | 0.052 | 100000 | 0.052 | 12/02/97 | 336 | 0 | 0.56 | 100000 | 0.052 |
| 12/03/97 | 337 | 0.1016 | 0.104 | 100000 | 0.104 | 12/03/97 | 337 | 0 | 0.56 | 100000 | 0.104 |
| 12/04/97 | 338 | 0 | 0.182 | 100000 | 0.182 | 12/04/97 | 338 | 0 | 0.644 | 100000 | 0.182 |
| 12/05/97 | 339 | 0 | 0.208 | 100000 | 0.208 | 12/05/97 | 339 | 0 | 0.42 | 100000 | 0.208 |
| 12/06/97 | 340 | 0 | 0.234 | 100000 | 0.234 | 12/06/97 | 340 | 0 | 0.504 | 100000 | 0.234 |
| 12/07/97 | 341 | 0 | 0.156 | 100000 | 0.156 | 12/07/97 | 341 | 0 | 0.616 | 100000 | 0.156 |
| 12/08/97 | 342 | 0.1016 | 0.156 | 100000 | 0.156 | 12/08/97 | 342 | 0 | 0.7 | 100000 | 0.156 |
| 12/09/97 | 343 | 0 | 0.312 | 100000 | 0.312 | 12/09/97 | 343 | 0 | 0.644 | 100000 | 0.312 |
| 12/10/97 | 344 | 0 | 0.104 | 100000 | 0.104 | 12/10/97 | 344 | 0 | 0.616 | 100000 | 0.104 |
| 12/11/97 | 345 | 0.7112 | 0.104 | 100000 | 0.104 | 12/11/97 | 345 | 0 | 0.672 | 100000 | 0.104 |
| 12/12/97 | 346 | 0 | 0.182 | 100000 | 0.182 | 12/12/97 | 346 | 0 | 0.56 | 100000 | 0.182 |
| 12/13/97 | 347 | 0 | 0.208 | 100000 | 0.208 | 12/13/97 | 347 | 0 | 0.56 | 100000 | 0.208 |
| 12/14/97 | 348 | 0 | 0.208 | 100000 | 0.208 | 12/14/97 | 348 | 0 | 0.42 | 100000 | 0.208 |
| 12/15/97 | 349 | 0 | 0.208 | 100000 | 0.208 | 12/15/97 | 349 | 0 | 0.56 | 100000 | 0.208 |
| 12/16/97 | 350 | 0 | 0.234 | 100000 | 0.234 | 12/16/97 | 350 | 0 | 0.616 | 100000 | 0.234 |
| 12/17/97 | 351 | 0.1016 | 0.26 | 100000 | 0.26 | 12/17/97 | 351 | 0 | 0.644 | 100000 | 0.26 |
| 12/18/97 | 352 | 0 | 0.182 | 100000 | 0.182 | 12/18/97 | 352 | 0 | 0.784 | 100000 | 0.182 |
| 12/19/97 | 353 | 0 | 0.234 | 100000 | 0.234 | 12/19/97 | 353 | 0 | 0.756 | 100000 | 0.234 |
| 12/20/97 | 354 | 0.1016 | 0.026 | 100000 | 0.026 | 12/20/97 | 354 | 0 | 0.756 | 100000 | 0.026 |
| 12/21/97 | 355 | 1.0922 | 0 | 100000 | 0 | 12/21/97 | 355 | 0 | 0.7 | 100000 | 0 |
| 12/22/97 | 356 | 0 | 0.052 | 100000 | 0.052 | 12/22/97 | 356 | 0 | 0.7 | 100000 | 0.052 |
| 12/23/97 | 357 | 0.4064 | 0.052 | 100000 | 0.052 | 12/23/97 | 357 | 0 | 0.56 | 100000 | 0.052 |
| 12/24/97 | 358 | 0 | 0.104 | 100000 | 0.104 | 12/24/97 | 358 | 0 | 0.616 | 100000 | 0.104 |
| 12/25/97 | 359 | 0.3048 | 0.104 | 100000 | 0.104 | 12/25/97 | 359 | 0 | 0.616 | 100000 | 0.104 |
| 12/26/97 | 360 | 0 | 0.13 | 100000 | 0.13 | 12/26/97 | 360 | 0 | 0.756 | 100000 | 0.13 |
| 12/27/97 | 361 | 0 | 0.13 | 100000 | 0.13 | 12/27/97 | 361 | 0 | 0.7 | 100000 | 0.13 |
| 12/28/97 | 362 | 0 | 0.182 | 100000 | 0.182 | 12/28/97 | 362 | 0 | 0.84 | 100000 | 0.182 |
| 12/29/97 | 363 | 0 | 0.182 | 100000 | 0.182 | 12/29/97 | 363 | 0 | 0.448 | 100000 | 0.182 |
| 12/30/97 | 364 | 0 | 0.156 | 100000 | 0.156 | 12/30/97 | 364 | 0 | 0.532 | 100000 | 0.156 |
| 12/31/97 | 365 | 0 | 0.234 | 100000 | 0.234 | 12/31/97 | 365 | 0 | 0.672 | 100000 | 0.234 |
| 01/01/98 | 366 | 0 | 0.28 | 100000 | 0.28 | 01/01/98 | 366 | 0 | 0.588 | 100000 | 0.254 |
| 01/02/98 | 367 | 0 | 0.084 | 100000 | 0.084 | 01/02/98 | 367 | 0 | 0.756 | 100000 | 0.0762 |
| 01/03/98 | 368 | 0 | 0.14 | 100000 | 0.14 | 01/03/98 | 368 | 0.6096 | 0.28 | 100000 | 0.127 |
| 01/04/98 | 369 | 0 | 0.14 | 100000 | 0.14 | 01/04/98 | 369 | 0.1016 | 0.252 | 100000 | 0.127 |
| 01/05/98 | 370 | 0 | 0.168 | 100000 | 0.168 | 01/05/98 | 370 | 0 | 0.504 | 100000 | 0.1524 |
| 01/06/98 | 371 | 0 | 0.224 | 100000 | 0.224 | 01/06/98 | 371 | 0 | 0.672 | 100000 | 0.2032 |
| 01/07/98 | 372 | 0 | 0.224 | 100000 | 0.224 | 01/07/98 | 372 | 0 | 0.812 | 100000 | 0.2032 |
| 01/08/98 | 373 | 0 | 0.224 | 100000 | 0.224 | 01/08/98 | 373 | 0 | 0.812 | 100000 | 0.2032 |
| 01/09/98 | 374 | 0 | 0.252 | 100000 | 0.252 | 01/09/98 | 374 | 0 | 0.812 | 100000 | 0.2286 |
| 01/10/98 | 375 | 0.1016 | 0.168 | 100000 | 0.168 | 01/10/98 | 375 | 0 | 0.756 | 100000 | 0.1524 |
| 01/11/98 | 376 | 0 | 0.196 | 100000 | 0.196 | 01/11/98 | 376 | 0 | 0.588 | 100000 | 0.1778 |
| 01/12/98 | 377 | 0 | 0.252 | 100000 | 0.252 | 01/12/98 | 377 | 0.5842 | 0.448 | 100000 | 0.2286 |
| 01/13/98 | 378 | 0 | 0.196 | 100000 | 0.196 | 01/13/98 | 378 | 0.0254 | 0.672 | 100000 | 0.1778 |
| 01/14/98 | 379 | 0 | 0.28 | 100000 | 0.28 | 01/14/98 | 379 | 0 | 0.756 | 100000 | 0.254 |
| 01/15/98 | 380 | 0 | 0.224 | 100000 | 0.224 | 01/15/98 | 380 | 0 | 0.84 | 100000 | 0.2032 |
| 01/16/98 | 381 | 0 | 0.28 | 100000 | 0.28 | 01/16/98 | 381 | 0 | 0.812 | 100000 | 0.254 |
| 01/17/98 | 382 | 0 | 0.224 | 100000 | 0.224 | 01/17/98 | 382 | 0 | 1.036 | 100000 | 0.2032 |
| 01/18/98 | 383 | 0 | 0.28 | 100000 | 0.28 | 01/18/98 | 383 | 0 | 1.008 | 100000 | 0.254 |
| 01/19/98 | 384 | 0 | 0.196 | 100000 | 0.196 | 01/19/98 | 384 | 0 | 0.476 | 100000 | 0.1778 |
| 01/20/98 | 385 | 0 | 0.252 | 100000 | 0.252 | 01/20/98 | 385 | 0 | 0.2286 | 100000 | 0.2286 |
| 01/21/98 | 386 | 0 | 0.112 | 100000 | 0.112 | 01/21/98 | 386 | 0 | 0.588 | 100000 | 0.1016 |
| 01/22/98 | 387 | 0 | 0.252 | 100000 | 0.252 | 01/22/98 | 387 | 0 | 0.7 | 100000 | 0.2286 |
| 01/23/98 | 388 | 0 | 0.308 | 100000 | 0.308 | 01/23/98 | 388 | 0 | 0.868 | 100000 | 0.2794 |
| 01/24/98 | 389 | 0 | 0.308 | 100000 | 0.308 | 01/24/98 | 389 | 0 | 0.98 | 100000 | 0.2794 |
| 01/25/98 | 390 | 0 | 0.392 | 100000 | 0.392 | 01/25/98 | 390 | 0 | 0.784 | 100000 | 0.3556 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|--------|
| 01/26/98 | 391 | 0 | 0.364 | 100000 | 0.364 | 01/26/98 | 391 | 0 | 1.064 | 100000 | 0.3302 |
| 01/27/98 | 392 | 0 | 0.252 | 100000 | 0.252 | 01/27/98 | 392 | 0 | 0.868 | 100000 | 0.2286 |
| 01/28/98 | 393 | 0 | 0.42 | 100000 | 0.42 | 01/28/98 | 393 | 0 | 0.84 | 100000 | 0.381 |
| 01/29/98 | 394 | 0 | 0.336 | 100000 | 0.336 | 01/29/98 | 394 | 0 | 0.98 | 100000 | 0.3048 |
| 01/30/98 | 395 | 0 | 0.336 | 100000 | 0.336 | 01/30/98 | 395 | 0 | 0.84 | 100000 | 0.3048 |
| 01/31/98 | 396 | 0 | 0.308 | 100000 | 0.308 | 01/31/98 | 396 | 0 | 1.008 | 100000 | 0.2794 |
| 02/01/98 | 397 | 0 | 0.336 | 100000 | 0.336 | 02/01/98 | 397 | 0 | 0.84 | 100000 | 0.3048 |
| 02/02/98 | 398 | 0 | 0.336 | 100000 | 0.336 | 02/02/98 | 398 | 0 | 0.812 | 100000 | 0.3048 |
| 02/03/98 | 399 | 0 | 0.336 | 100000 | 0.336 | 02/03/98 | 399 | 0 | 0.784 | 100000 | 0.3048 |
| 02/04/98 | 400 | 0.6096 | 0.14 | 100000 | 0.14 | 02/04/98 | 400 | 0 | 0.812 | 100000 | 0.127 |
| 02/05/98 | 401 | 0.1016 | 0.14 | 100000 | 0.14 | 02/05/98 | 401 | 0 | 0.924 | 100000 | 0.127 |
| 02/06/98 | 402 | 0 | 0.308 | 100000 | 0.308 | 02/06/98 | 402 | 0 | 1.008 | 100000 | 0.2794 |
| 02/07/98 | 403 | 0 | 0.364 | 100000 | 0.364 | 02/07/98 | 403 | 0 | 1.008 | 100000 | 0.3302 |
| 02/08/98 | 404 | 0.2032 | 0.224 | 100000 | 0.224 | 02/08/98 | 404 | 0 | 1.232 | 100000 | 0.2032 |
| 02/09/98 | 405 | 0 | 0.252 | 100000 | 0.252 | 02/09/98 | 405 | 0 | 1.26 | 100000 | 0.2286 |
| 02/10/98 | 406 | 0 | 0.224 | 100000 | 0.224 | 02/10/98 | 406 | 0 | 0.616 | 100000 | 0.2032 |
| 02/11/98 | 407 | 0.1016 | 0.28 | 100000 | 0.28 | 02/11/98 | 407 | 0 | 0.644 | 100000 | 0.254 |
| 02/12/98 | 408 | 0 | 0.364 | 100000 | 0.364 | 02/12/98 | 408 | 0 | 0.98 | 100000 | 0.3302 |
| 02/13/98 | 409 | 0 | 0.364 | 100000 | 0.364 | 02/13/98 | 409 | 0 | 0.868 | 100000 | 0.3302 |
| 02/14/98 | 410 | 0 | 0.392 | 100000 | 0.392 | 02/14/98 | 410 | 0 | 0.532 | 100000 | 0.3556 |
| 02/15/98 | 411 | 0.889 | 0.084 | 100000 | 0.084 | 02/15/98 | 411 | 0 | 1.064 | 100000 | 0.0762 |
| 02/16/98 | 412 | 0 | 0.252 | 100000 | 0.252 | 02/16/98 | 412 | 0 | 1.008 | 100000 | 0.2286 |
| 02/17/98 | 413 | 0 | 0.28 | 100000 | 0.28 | 02/17/98 | 413 | 0 | 0.616 | 100000 | 0.254 |
| 02/18/98 | 414 | 0.2032 | 0.308 | 100000 | 0.308 | 02/18/98 | 414 | 0 | 0.924 | 100000 | 0.2794 |
| 02/19/98 | 415 | 0 | 0.392 | 100000 | 0.392 | 02/19/98 | 415 | 0 | 0.924 | 100000 | 0.3556 |
| 02/20/98 | 416 | 0 | 0.168 | 100000 | 0.168 | 02/20/98 | 416 | 0 | 1.064 | 100000 | 0.1524 |
| 02/21/98 | 417 | 0 | 0.364 | 100000 | 0.364 | 02/21/98 | 417 | 0 | 1.008 | 100000 | 0.3302 |
| 02/22/98 | 418 | 0 | 0.364 | 100000 | 0.364 | 02/22/98 | 418 | 0 | 0.952 | 100000 | 0.3302 |
| 02/23/98 | 419 | 0 | 0.448 | 100000 | 0.448 | 02/23/98 | 419 | 0 | 0.924 | 100000 | 0.4064 |
| 02/24/98 | 420 | 0 | 0.644 | 100000 | 0.644 | 02/24/98 | 420 | 0 | 1.036 | 100000 | 0.5842 |
| 02/25/98 | 421 | 0 | 0.448 | 100000 | 0.448 | 02/25/98 | 421 | 0 | 1.008 | 100000 | 0.4064 |
| 02/26/98 | 422 | 0 | 0.448 | 100000 | 0.448 | 02/26/98 | 422 | 0 | 1.092 | 100000 | 0.4064 |
| 02/27/98 | 423 | 0 | 0.364 | 100000 | 0.364 | 02/27/98 | 423 | 0 | 0.728 | 100000 | 0.3302 |
| 02/28/98 | 424 | 0 | 0.392 | 100000 | 0.392 | 02/28/98 | 424 | 0 | 1.036 | 100000 | 0.3556 |
| 03/01/98 | 425 | 0 | 0.448 | 100000 | 0.448 | 03/01/98 | 425 | 0 | 1.036 | 100000 | 0.4064 |
| 03/02/98 | 426 | 0 | 0.42 | 100000 | 0.42 | 03/02/98 | 426 | 0 | 1.176 | 100000 | 0.381 |
| 03/03/98 | 427 | 0 | 0.56 | 100000 | 0.56 | 03/03/98 | 427 | 0 | 1.12 | 100000 | 0.508 |
| 03/04/98 | 428 | 0 | 0.588 | 100000 | 0.588 | 03/04/98 | 428 | 0 | 1.064 | 100000 | 0.5334 |
| 03/05/98 | 429 | 0 | 0.504 | 100000 | 0.504 | 03/05/98 | 429 | 0 | 1.036 | 100000 | 0.4572 |
| 03/06/98 | 430 | 0 | 0.42 | 100000 | 0.42 | 03/06/98 | 430 | 0 | 1.036 | 100000 | 0.381 |
| 03/07/98 | 431 | 0 | 0.224 | 100000 | 0.224 | 03/07/98 | 431 | 0 | 1.204 | 100000 | 0.2032 |
| 03/08/98 | 432 | 0 | 0.476 | 100000 | 0.476 | 03/08/98 | 432 | 0 | 1.064 | 100000 | 0.4318 |
| 03/09/98 | 433 | 0 | 0.504 | 100000 | 0.504 | 03/09/98 | 433 | 0 | 1.008 | 100000 | 0.4572 |
| 03/10/98 | 434 | 0 | 0.532 | 100000 | 0.532 | 03/10/98 | 434 | 0 | 1.12 | 100000 | 0.4826 |
| 03/11/98 | 435 | 0 | 0.532 | 100000 | 0.532 | 03/11/98 | 435 | 0.3556 | 0.7 | 100000 | 0.4826 |
| 03/12/98 | 436 | 0 | 0.532 | 100000 | 0.532 | 03/12/98 | 436 | 0.6604 | 0.616 | 100000 | 0.4826 |
| 03/13/98 | 437 | 0 | 0.56 | 100000 | 0.56 | 03/13/98 | 437 | 0 | 0.952 | 100000 | 0.508 |
| 03/14/98 | 438 | 0.1016 | 0.392 | 100000 | 0.392 | 03/14/98 | 438 | 0 | 0.7 | 100000 | 0.3556 |
| 03/15/98 | 439 | 4.191 | 0.056 | 100000 | 0.056 | 03/15/98 | 439 | 0 | 0.98 | 100000 | 0.0508 |
| 03/16/98 | 440 | 0.1016 | 0.364 | 100000 | 0.364 | 03/16/98 | 440 | 0.0508 | 0.728 | 100000 | 0.3302 |
| 03/17/98 | 441 | 0.4064 | 0.28 | 100000 | 0.28 | 03/17/98 | 441 | 0.0762 | 0.84 | 100000 | 0.254 |
| 03/18/98 | 442 | 0.1016 | 0.336 | 100000 | 0.336 | 03/18/98 | 442 | 0 | 0.98 | 100000 | 0.3048 |
| 03/19/98 | 443 | 0 | 0.504 | 100000 | 0.504 | 03/19/98 | 443 | 0 | 0.812 | 100000 | 0.4572 |
| 03/20/98 | 444 | 0 | 0.532 | 100000 | 0.532 | 03/20/98 | 444 | 0 | 1.12 | 100000 | 0.4826 |
| 03/21/98 | 445 | 0 | 0.644 | 100000 | 0.644 | 03/21/98 | 445 | 0 | 1.148 | 100000 | 0.5842 |
| 03/22/98 | 446 | 0 | 0.672 | 100000 | 0.672 | 03/22/98 | 446 | 0 | 1.148 | 100000 | 0.6096 |
| 03/23/98 | 447 | 0 | 0.7 | 100000 | 0.7 | 03/23/98 | 447 | 0 | 1.26 | 100000 | 0.635 |
| 03/24/98 | 448 | 0 | 0.756 | 100000 | 0.756 | 03/24/98 | 448 | 0 | 1.008 | 100000 | 0.6858 |
| 03/25/98 | 449 | 0 | 0.812 | 100000 | 0.812 | 03/25/98 | 449 | 0 | 1.008 | 100000 | 0.7366 |
| 03/26/98 | 450 | 0.3048 | 0.448 | 100000 | 0.448 | 03/26/98 | 450 | 0 | 1.092 | 100000 | 0.4064 |
| 03/27/98 | 451 | 0 | 0.588 | 100000 | 0.588 | 03/27/98 | 451 | 0 | 1.148 | 100000 | 0.5334 |
| 03/28/98 | 452 | 0 | 0.756 | 100000 | 0.756 | 03/28/98 | 452 | 0 | 1.064 | 100000 | 0.6858 |
| 03/29/98 | 453 | 0.1016 | 0.252 | 100000 | 0.252 | 03/29/98 | 453 | 0 | 1.092 | 100000 | 0.2286 |
| 03/30/98 | 454 | 0.2032 | 0.28 | 100000 | 0.28 | 03/30/98 | 454 | 0 | 1.12 | 100000 | 0.254 |
| 03/31/98 | 455 | 0 | 0.532 | 100000 | 0.532 | 03/31/98 | 455 | 0 | 1.092 | 100000 | 0.4826 |
| 04/01/98 | 456 | 0 | 0.756 | 100000 | 0.756 | 04/01/98 | 456 | 0 | 0.784 | 100000 | 0.6858 |

| | | | | | | | | | | | |
|-----------------|------------|---------------|--------------|---------------|--------------|-----------------|------------|----------|--------------|---------------|---------------|
| 04/02/98 | 457 | 0 | 0.644 | 100000 | 0.644 | 04/02/98 | 457 | 0 | 0.924 | 100000 | 0.5842 |
| 04/03/98 | 458 | 0 | 0.672 | 100000 | 0.672 | 04/03/98 | 458 | 0 | 1.008 | 100000 | 0.6096 |
| 04/04/98 | 459 | 0 | 0.84 | 100000 | 0.84 | 04/04/98 | 459 | 0 | 0.924 | 100000 | 0.762 |
| 04/05/98 | 460 | 0 | 0.756 | 100000 | 0.756 | 04/05/98 | 460 | 0.3556 | 0.672 | 100000 | 0.6858 |
| 04/06/98 | 461 | 0 | 0.56 | 100000 | 0.56 | 04/06/98 | 461 | 0 | 0.784 | 100000 | 0.508 |
| 04/07/98 | 462 | 0 | 0.588 | 100000 | 0.588 | 04/07/98 | 462 | 0 | 0.784 | 100000 | 0.5334 |
| 04/08/98 | 463 | 0 | 0.616 | 100000 | 0.616 | 04/08/98 | 463 | 0 | 0.896 | 100000 | 0.5588 |
| 04/09/98 | 464 | 0 | 0.728 | 100000 | 0.728 | 04/09/98 | 464 | 0 | 0.756 | 100000 | 0.6604 |
| 04/10/98 | 465 | 0 | 0.84 | 100000 | 0.84 | 04/10/98 | 465 | 0 | 1.008 | 100000 | 0.762 |
| 04/11/98 | 466 | 0 | 1.008 | 100000 | 1.008 | 04/11/98 | 466 | 0 | 1.036 | 100000 | 0.9144 |
| 04/12/98 | 467 | 0 | 0.868 | 100000 | 0.868 | 04/12/98 | 467 | 0 | 1.092 | 100000 | 0.7874 |
| 04/13/98 | 468 | 0 | 0.784 | 100000 | 0.784 | 04/13/98 | 468 | 0 | 0.98 | 100000 | 0.7112 |
| 04/14/98 | 469 | 0.4064 | 0.84 | 100000 | 0.84 | 04/14/98 | 469 | 0 | 0.924 | 100000 | 0.762 |
| 04/15/98 | 470 | 0.1016 | 0.42 | 100000 | 0.42 | 04/15/98 | 470 | 0 | 0.84 | 100000 | 0.381 |
| 04/16/98 | 471 | 0 | 0.532 | 100000 | 0.532 | 04/16/98 | 471 | 0.1524 | 1.064 | 100000 | 0.4826 |
| 04/17/98 | 472 | 0 | 0.532 | 100000 | 0.532 | 04/17/98 | 472 | 0 | 1.232 | 100000 | 0.4826 |
| 04/18/98 | 473 | 0 | 0.532 | 100000 | 0.532 | 04/18/98 | 473 | 0 | 1.204 | 100000 | 0.4826 |
| 04/19/98 | 474 | 0 | 0.7 | 100000 | 0.7 | 04/19/98 | 474 | 0 | 1.148 | 100000 | 0.635 |
| 04/20/98 | 475 | 0 | 0.784 | 100000 | 0.784 | 04/20/98 | 475 | 0 | 0.98 | 100000 | 0.7112 |
| 04/21/98 | 476 | 0 | 0.784 | 100000 | 0.784 | 04/21/98 | 476 | 0 | 0.924 | 100000 | 0.7112 |
| 04/22/98 | 477 | 0 | 0.84 | 100000 | 0.84 | 04/22/98 | 477 | 0.0254 | 0.924 | 100000 | 0.762 |
| 04/23/98 | 478 | 0 | 0.784 | 100000 | 0.784 | 04/23/98 | 478 | 0.0508 | 0.84 | 100000 | 0.7112 |
| 04/24/98 | 479 | 0 | 1.008 | 100000 | 1.008 | 04/24/98 | 479 | 0.0508 | 0.7 | 100000 | 0.9144 |
| 04/25/98 | 480 | 0 | 0.756 | 100000 | 0.756 | 04/25/98 | 480 | 0 | 0.98 | 100000 | 0.6858 |
| 04/26/98 | 481 | 0.6096 | 0.42 | 100000 | 0.42 | 04/26/98 | 481 | 0 | 0.868 | 100000 | 0.381 |
| 04/27/98 | 482 | 0 | 0.7 | 100000 | 0.7 | 04/27/98 | 482 | 0.5334 | 0.924 | 100000 | 0.635 |
| 04/28/98 | 483 | 0 | 0.756 | 100000 | 0.756 | 04/28/98 | 483 | 0 | 0.588 | 100000 | 0.6858 |
| 04/29/98 | 484 | 0 | 0.784 | 100000 | 0.784 | 04/29/98 | 484 | 0 | 1.008 | 100000 | 0.7112 |
| 04/30/98 | 485 | 0 | 0.84 | 100000 | 0.84 | 04/30/98 | 485 | 0 | 0.952 | 100000 | 0.762 |
| 05/01/98 | 486 | 0 | 0.756 | 100000 | 0.756 | 05/01/98 | 486 | 0 | 0.98 | 100000 | 0.6858 |
| 05/02/98 | 487 | 0 | 0.924 | 100000 | 0.924 | 05/02/98 | 487 | 0 | 0.672 | 100000 | 0.8382 |
| 05/03/98 | 488 | 0 | 0.952 | 100000 | 0.952 | 05/03/98 | 488 | 0 | 0.56 | 100000 | 0.8636 |
| 05/04/98 | 489 | 0 | 0.98 | 100000 | 0.98 | 05/04/98 | 489 | 0.0254 | 0.812 | 100000 | 0.889 |
| 05/05/98 | 490 | 0 | 0.98 | 100000 | 0.98 | 05/05/98 | 490 | 0.0254 | 0.616 | 100000 | 0.889 |
| 05/06/98 | 491 | 0 | 0.896 | 100000 | 0.896 | 05/06/98 | 491 | 1.8034 | 0.84 | 100000 | 0.8128 |
| 05/07/98 | 492 | 0 | 0.784 | 100000 | 0.784 | 05/07/98 | 492 | 0.6604 | 0.84 | 100000 | 0.7112 |
| 05/08/98 | 493 | 0 | 0.532 | 100000 | 0.532 | 05/08/98 | 493 | 0.0254 | 0.784 | 100000 | 0.4826 |
| 05/09/98 | 494 | 0 | 0.896 | 100000 | 0.896 | 05/09/98 | 494 | 0.3048 | 0.616 | 100000 | 0.8128 |
| 05/10/98 | 495 | 0 | 1.008 | 100000 | 1.008 | 05/10/98 | 495 | 0 | 0.868 | 100000 | 0.9144 |
| 05/11/98 | 496 | 0 | 0.952 | 100000 | 0.952 | 05/11/98 | 496 | 0 | 0.952 | 100000 | 0.8636 |
| 05/12/98 | 497 | 0 | 0.952 | 100000 | 0.952 | 05/12/98 | 497 | 0 | 0.952 | 100000 | 0.8636 |
| 05/13/98 | 498 | 0 | 0.98 | 100000 | 0.98 | 05/13/98 | 498 | 0 | 0.98 | 100000 | 0.889 |
| 05/14/98 | 499 | 0 | 0.784 | 100000 | 0.784 | 05/14/98 | 499 | 0 | 0.812 | 100000 | 0.7112 |
| 05/15/98 | 500 | 0 | 0.924 | 100000 | 0.924 | 05/15/98 | 500 | 0 | 0.924 | 100000 | 0.8382 |
| 05/16/98 | 501 | 0 | 1.008 | 100000 | 1.008 | 05/16/98 | 501 | 0.0508 | 0.868 | 100000 | 0.9144 |
| 05/17/98 | 502 | 0 | 0.672 | 100000 | 0.672 | 05/17/98 | 502 | 0 | 0.952 | 100000 | 0.6096 |
| 05/18/98 | 503 | 0 | 0.868 | 100000 | 0.868 | 05/18/98 | 503 | 0 | 0.896 | 100000 | 0.7874 |
| 05/19/98 | 504 | 0 | 0.896 | 100000 | 0.896 | 05/19/98 | 504 | 0.0254 | 0.952 | 100000 | 0.8128 |
| 05/20/98 | 505 | 0 | 0.644 | 100000 | 0.644 | 05/20/98 | 505 | 0 | 0.84 | 100000 | 0.5842 |
| 05/21/98 | 506 | 0 | 0.728 | 100000 | 0.728 | 05/21/98 | 506 | 0 | 0.756 | 100000 | 0.6604 |
| 05/22/98 | 507 | 0 | 1.008 | 100000 | 1.008 | 05/22/98 | 507 | 0.2794 | 0.504 | 100000 | 0.9144 |
| 05/23/98 | 508 | 0 | 1.008 | 100000 | 1.008 | 05/23/98 | 508 | 0.0762 | 0.476 | 100000 | 0.9144 |
| 05/24/98 | 509 | 0 | 0.98 | 100000 | 0.98 | 05/24/98 | 509 | 0.4826 | 0.588 | 100000 | 0.889 |
| 05/25/98 | 510 | 0 | 0.868 | 100000 | 0.868 | 05/25/98 | 510 | 0.9906 | 0.588 | 100000 | 0.7874 |
| 05/26/98 | 511 | 0 | 0.98 | 100000 | 0.98 | 05/26/98 | 511 | 0 | 0.868 | 100000 | 0.889 |
| 05/27/98 | 512 | 0 | 1.036 | 100000 | 1.036 | 05/27/98 | 512 | 1.0922 | 0.896 | 100000 | 0.9398 |
| 05/28/98 | 513 | 0 | 1.064 | 100000 | 1.064 | 05/28/98 | 513 | 0.0508 | 0.728 | 100000 | 0.9652 |
| 05/29/98 | 514 | 0 | 1.008 | 100000 | 1.008 | 05/29/98 | 514 | 0.3048 | 0.56 | 100000 | 0.9144 |
| 05/30/98 | 515 | 0 | 1.064 | 100000 | 1.064 | 05/30/98 | 515 | 0.1016 | 0.588 | 100000 | 0.9652 |
| 05/31/98 | 516 | 0 | 1.036 | 100000 | 1.036 | 05/31/98 | 516 | 0.0254 | 0.896 | 100000 | 0.9398 |
| 06/01/98 | 517 | 0 | 1.12 | 100000 | 1.12 | 06/01/98 | 517 | 0 | 1.008 | 100000 | 1.016 |
| 06/02/98 | 518 | 0 | 1.036 | 100000 | 1.036 | 06/02/98 | 518 | 0.0254 | 0.84 | 100000 | 0.9398 |
| 06/03/98 | 519 | 0 | 1.12 | 100000 | 1.12 | 06/03/98 | 519 | 0 | 0.784 | 100000 | 1.016 |
| 06/04/98 | 520 | 0 | 1.12 | 100000 | 1.12 | 06/04/98 | 520 | 0 | 0.98 | 100000 | 1.016 |
| 06/05/98 | 521 | 0 | 1.008 | 100000 | 1.008 | 06/05/98 | 521 | 0 | 0.952 | 100000 | 0.9144 |
| 06/06/98 | 522 | 0 | 1.036 | 100000 | 1.036 | 06/06/98 | 522 | 0 | 0.952 | 100000 | 0.9398 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|--------|
| 06/07/98 | 523 | 0 | 1.176 | 100000 | 1.176 | 06/07/98 | 523 | 0.5842 | 0.896 | 100000 | 1.0668 |
| 06/08/98 | 524 | 0 | 1.008 | 100000 | 1.008 | 06/08/98 | 524 | 0.1524 | 0.84 | 100000 | 0.9144 |
| 06/09/98 | 525 | 0 | 0.896 | 100000 | 0.896 | 06/09/98 | 525 | 0 | 0.98 | 100000 | 0.8128 |
| 06/10/98 | 526 | 0.3048 | 0.476 | 100000 | 0.476 | 06/10/98 | 526 | 0 | 0.896 | 100000 | 0.4318 |
| 06/11/98 | 527 | 0 | 0.896 | 100000 | 0.896 | 06/11/98 | 527 | 0.4572 | 1.008 | 100000 | 0.8128 |
| 06/12/98 | 528 | 0 | 0.98 | 100000 | 0.98 | 06/12/98 | 528 | 0 | 0.84 | 100000 | 0.889 |
| 06/13/98 | 529 | 0 | 1.204 | 100000 | 1.204 | 06/13/98 | 529 | 0.0508 | 0.784 | 100000 | 1.0922 |
| 06/14/98 | 530 | 0 | 1.12 | 100000 | 1.12 | 06/14/98 | 530 | 0 | 0.728 | 100000 | 1.016 |
| 06/15/98 | 531 | 0 | 1.12 | 100000 | 1.12 | 06/15/98 | 531 | 0.2286 | 0.896 | 100000 | 1.016 |
| 06/16/98 | 532 | 0 | 1.176 | 100000 | 1.176 | 06/16/98 | 532 | 0.0508 | 0.896 | 100000 | 1.0668 |
| 06/17/98 | 533 | 0 | 1.008 | 100000 | 1.008 | 06/17/98 | 533 | 0 | 0.896 | 100000 | 0.9144 |
| 06/18/98 | 534 | 0 | 1.092 | 100000 | 1.092 | 06/18/98 | 534 | 0 | 0.812 | 100000 | 0.9906 |
| 06/19/98 | 535 | 0 | 1.148 | 100000 | 1.148 | 06/19/98 | 535 | 0 | 0.84 | 100000 | 1.0414 |
| 06/20/98 | 536 | 0 | 1.148 | 100000 | 1.148 | 06/20/98 | 536 | 0 | 0.616 | 100000 | 1.0414 |
| 06/21/98 | 537 | 0 | 1.176 | 100000 | 1.176 | 06/21/98 | 537 | 0 | 0.672 | 100000 | 1.0668 |
| 06/22/98 | 538 | 0 | 1.176 | 100000 | 1.176 | 06/22/98 | 538 | 2.1336 | 0.476 | 100000 | 1.0668 |
| 06/23/98 | 539 | 0 | 1.176 | 100000 | 1.176 | 06/23/98 | 539 | 0 | 0.812 | 100000 | 1.0668 |
| 06/24/98 | 540 | 0 | 1.036 | 100000 | 1.036 | 06/24/98 | 540 | 0 | 0.868 | 100000 | 0.9398 |
| 06/25/98 | 541 | 0 | 1.148 | 100000 | 1.148 | 06/25/98 | 541 | 0 | 0.588 | 100000 | 1.0414 |
| 06/26/98 | 542 | 0 | 1.204 | 100000 | 1.204 | 06/26/98 | 542 | 0 | 0.784 | 100000 | 1.0922 |
| 06/27/98 | 543 | 0 | 1.176 | 100000 | 1.176 | 06/27/98 | 543 | 0 | 0.868 | 100000 | 1.0668 |
| 06/28/98 | 544 | 0 | 1.176 | 100000 | 1.176 | 06/28/98 | 544 | 0 | 0.616 | 100000 | 1.0668 |
| 06/29/98 | 545 | 0 | 1.176 | 100000 | 1.176 | 06/29/98 | 545 | 0 | 0.588 | 100000 | 1.0668 |
| 06/30/98 | 546 | 0 | 1.148 | 100000 | 1.148 | 06/30/98 | 546 | 0 | 0.924 | 100000 | 1.0414 |
| 07/01/98 | 547 | 0.508 | 0.952 | 100000 | 0.952 | 07/01/98 | 547 | 0 | 0.896 | 100000 | 0.8636 |
| 07/02/98 | 548 | 2.0066 | 0.98 | 100000 | 0.98 | 07/02/98 | 548 | 0.5842 | 0.476 | 100000 | 0.889 |
| 07/03/98 | 549 | 0.4064 | 0.952 | 100000 | 0.952 | 07/03/98 | 549 | 0.0254 | 0.504 | 100000 | 0.8636 |
| 07/04/98 | 550 | 0.889 | 0.476 | 100000 | 0.476 | 07/04/98 | 550 | 0.254 | 0.616 | 100000 | 0.4318 |
| 07/05/98 | 551 | 0 | 0.868 | 100000 | 0.868 | 07/05/98 | 551 | 0.127 | 0.616 | 100000 | 0.7874 |
| 07/06/98 | 552 | 0 | 0.756 | 100000 | 0.756 | 07/06/98 | 552 | 0.2794 | 0.28 | 100000 | 0.6858 |
| 07/07/98 | 553 | 0 | 0.644 | 100000 | 0.644 | 07/07/98 | 553 | 0.8382 | 0.616 | 100000 | 0.5842 |
| 07/08/98 | 554 | 1.2954 | 0.532 | 100000 | 0.532 | 07/08/98 | 554 | 0.0254 | 0.532 | 100000 | 0.4826 |
| 07/09/98 | 555 | 0.3048 | 0.364 | 100000 | 0.364 | 07/09/98 | 555 | 0 | 0.728 | 100000 | 0.3302 |
| 07/10/98 | 556 | 0 | 0.896 | 100000 | 0.896 | 07/10/98 | 556 | 0 | 0.7 | 100000 | 0.8128 |
| 07/11/98 | 557 | 0 | 1.008 | 100000 | 1.008 | 07/11/98 | 557 | 0 | 0.644 | 100000 | 0.9144 |
| 07/12/98 | 558 | 0 | 1.036 | 100000 | 1.036 | 07/12/98 | 558 | 0.127 | 0.532 | 100000 | 0.9398 |
| 07/13/98 | 559 | 0 | 0.98 | 100000 | 0.98 | 07/13/98 | 559 | 0.0254 | 0.672 | 100000 | 0.889 |
| 07/14/98 | 560 | 0 | 1.008 | 100000 | 1.008 | 07/14/98 | 560 | 0 | 0.728 | 100000 | 0.9144 |
| 07/15/98 | 561 | 0 | 1.036 | 100000 | 1.036 | 07/15/98 | 561 | 0 | 0.784 | 100000 | 0.9398 |
| 07/16/98 | 562 | 0.3048 | 0.952 | 100000 | 0.952 | 07/16/98 | 562 | 0 | 0.784 | 100000 | 0.8636 |
| 07/17/98 | 563 | 0 | 0.728 | 100000 | 0.728 | 07/17/98 | 563 | 0 | 0.924 | 100000 | 0.6604 |
| 07/18/98 | 564 | 0 | 0.952 | 100000 | 0.952 | 07/18/98 | 564 | 0 | 0.728 | 100000 | 0.8636 |
| 07/19/98 | 565 | 0 | 1.008 | 100000 | 1.008 | 07/19/98 | 565 | 0 | 0.672 | 100000 | 0.9144 |
| 07/20/98 | 566 | 0 | 1.008 | 100000 | 1.008 | 07/20/98 | 566 | 0 | 0.756 | 100000 | 0.9144 |
| 07/21/98 | 567 | 0 | 1.064 | 100000 | 1.064 | 07/21/98 | 567 | 0 | 0.756 | 100000 | 0.9652 |
| 07/22/98 | 568 | 0.2032 | 0.672 | 100000 | 0.672 | 07/22/98 | 568 | 0 | 0.756 | 100000 | 0.6096 |
| 07/23/98 | 569 | 0 | 0.616 | 100000 | 0.616 | 07/23/98 | 569 | 0 | 0.784 | 100000 | 0.5588 |
| 07/24/98 | 570 | 5.1054 | 0.616 | 100000 | 0.616 | 07/24/98 | 570 | 0 | 0.756 | 100000 | 0.5588 |
| 07/25/98 | 571 | 0.1016 | 0.532 | 100000 | 0.532 | 07/25/98 | 571 | 0 | 0.756 | 100000 | 0.4826 |
| 07/26/98 | 572 | 0.4064 | 0.448 | 100000 | 0.448 | 07/26/98 | 572 | 0 | 0.644 | 100000 | 0.4064 |
| 07/27/98 | 573 | 0.1016 | 0.644 | 100000 | 0.644 | 07/27/98 | 573 | 0 | 0.7 | 100000 | 0.5842 |
| 07/28/98 | 574 | 0 | 0.644 | 100000 | 0.644 | 07/28/98 | 574 | 0 | 0.644 | 100000 | 0.5842 |
| 07/29/98 | 575 | 0 | 0.896 | 100000 | 0.896 | 07/29/98 | 575 | 0 | 0.728 | 100000 | 0.8128 |
| 07/30/98 | 576 | 0.4064 | 0.812 | 100000 | 0.812 | 07/30/98 | 576 | 0 | 0.7 | 100000 | 0.7366 |
| 07/31/98 | 577 | 0 | 0.672 | 100000 | 0.672 | 07/31/98 | 577 | 0 | 0.672 | 100000 | 0.6096 |
| 08/01/98 | 578 | 1.4986 | 0.672 | 100000 | 0.672 | 08/01/98 | 578 | 0 | 0.756 | 100000 | 0.6096 |
| 08/02/98 | 579 | 0 | 0.952 | 100000 | 0.952 | 08/02/98 | 579 | 0 | 0.728 | 100000 | 0.8636 |
| 08/03/98 | 580 | 0 | 0.896 | 100000 | 0.896 | 08/03/98 | 580 | 0 | 0.7 | 100000 | 0.8128 |
| 08/04/98 | 581 | 0 | 0.7 | 100000 | 0.7 | 08/04/98 | 581 | 0.1778 | 0.588 | 100000 | 0.635 |
| 08/05/98 | 582 | 0 | 0.756 | 100000 | 0.756 | 08/05/98 | 582 | 0.5334 | 0.112 | 100000 | 0.6858 |
| 08/06/98 | 583 | 0 | 0.896 | 100000 | 0.896 | 08/06/98 | 583 | 0 | 0.392 | 100000 | 0.8128 |
| 08/07/98 | 584 | 0 | 0.952 | 100000 | 0.952 | 08/07/98 | 584 | 0 | 0.448 | 100000 | 0.8636 |
| 08/08/98 | 585 | 0 | 0.98 | 100000 | 0.98 | 08/08/98 | 585 | 0 | 0.504 | 100000 | 0.889 |
| 08/09/98 | 586 | 0 | 0.924 | 100000 | 0.924 | 08/09/98 | 586 | 0 | 0.616 | 100000 | 0.8382 |
| 08/10/98 | 587 | 0 | 0.812 | 100000 | 0.812 | 08/10/98 | 587 | 0 | 0.644 | 100000 | 0.7366 |
| 08/11/98 | 588 | 0 | 0.672 | 100000 | 0.672 | 08/11/98 | 588 | 0 | 0.616 | 100000 | 0.6096 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|--------|
| 08/12/98 | 589 | 0 | 0.728 | 100000 | 0.728 | 08/12/98 | 589 | 0 | 0.588 | 100000 | 0.6604 |
| 08/13/98 | 590 | 0 | 0.896 | 100000 | 0.896 | 08/13/98 | 590 | 0 | 0.616 | 100000 | 0.8128 |
| 08/14/98 | 591 | 0 | 0.924 | 100000 | 0.924 | 08/14/98 | 591 | 0 | 0.644 | 100000 | 0.8382 |
| 08/15/98 | 592 | 0 | 0.98 | 100000 | 0.98 | 08/15/98 | 592 | 0 | 0.476 | 100000 | 0.889 |
| 08/16/98 | 593 | 0 | 0.896 | 100000 | 0.896 | 08/16/98 | 593 | 0 | 0.616 | 100000 | 0.8128 |
| 08/17/98 | 594 | 0 | 0.98 | 100000 | 0.98 | 08/17/98 | 594 | 0 | 0.728 | 100000 | 0.889 |
| 08/18/98 | 595 | 0 | 0.868 | 100000 | 0.868 | 08/18/98 | 595 | 0 | 0.476 | 100000 | 0.7874 |
| 08/19/98 | 596 | 0 | 0.868 | 100000 | 0.868 | 08/19/98 | 596 | 0 | 0.56 | 100000 | 0.7874 |
| 08/20/98 | 597 | 0 | 0.84 | 100000 | 0.84 | 08/20/98 | 597 | 0 | 0.7 | 100000 | 0.762 |
| 08/21/98 | 598 | 0 | 0.644 | 100000 | 0.644 | 08/21/98 | 598 | 0 | 0.504 | 100000 | 0.5842 |
| 08/22/98 | 599 | 0 | 0.84 | 100000 | 0.84 | 08/22/98 | 599 | 0 | 0.42 | 100000 | 0.762 |
| 08/23/98 | 600 | 0 | 0.868 | 100000 | 0.868 | 08/23/98 | 600 | 0 | 0.56 | 100000 | 0.7874 |
| 08/24/98 | 601 | 0 | 0.924 | 100000 | 0.924 | 08/24/98 | 601 | 0 | 0.588 | 100000 | 0.8382 |
| 08/25/98 | 602 | 0 | 0.784 | 100000 | 0.784 | 08/25/98 | 602 | 0 | 0.644 | 100000 | 0.7112 |
| 08/26/98 | 603 | 0 | 0.756 | 100000 | 0.756 | 08/26/98 | 603 | 0 | 0.532 | 100000 | 0.6858 |
| 08/27/98 | 604 | 0 | 0.784 | 100000 | 0.784 | 08/27/98 | 604 | 0 | 0.504 | 100000 | 0.7112 |
| 08/28/98 | 605 | 0 | 0.784 | 100000 | 0.784 | 08/28/98 | 605 | 0 | 0.504 | 100000 | 0.7112 |
| 08/29/98 | 606 | 0 | 0.784 | 100000 | 0.784 | 08/29/98 | 606 | 0 | 0.616 | 100000 | 0.7112 |
| 08/30/98 | 607 | 0 | 0.784 | 100000 | 0.784 | 08/30/98 | 607 | 0 | 0.588 | 100000 | 0.7112 |
| 08/31/98 | 608 | 0 | 0.784 | 100000 | 0.784 | 08/31/98 | 608 | 0 | 0.616 | 100000 | 0.7112 |
| 09/01/98 | 609 | 0 | 0.756 | 100000 | 0.756 | 09/01/98 | 609 | 0 | 0.56 | 100000 | 0.6858 |
| 09/02/98 | 610 | 0 | 0.784 | 100000 | 0.784 | 09/02/98 | 610 | 0 | 0.672 | 100000 | 0.7112 |
| 09/03/98 | 611 | 0 | 0.812 | 100000 | 0.812 | 09/03/98 | 611 | 0 | 0.588 | 100000 | 0.7366 |
| 09/04/98 | 612 | 0 | 0.728 | 100000 | 0.728 | 09/04/98 | 612 | 0 | 0.532 | 100000 | 0.6604 |
| 09/05/98 | 613 | 0 | 0.756 | 100000 | 0.756 | 09/05/98 | 613 | 0 | 0.532 | 100000 | 0.6858 |
| 09/06/98 | 614 | 0 | 0.784 | 100000 | 0.784 | 09/06/98 | 614 | 0 | 0.448 | 100000 | 0.7112 |
| 09/07/98 | 615 | 0 | 0.42 | 100000 | 0.42 | 09/07/98 | 615 | 0 | 0.476 | 100000 | 0.381 |
| 09/08/98 | 616 | 0 | 0.756 | 100000 | 0.756 | 09/08/98 | 616 | 0 | 0.448 | 100000 | 0.6858 |
| 09/09/98 | 617 | 0 | 0.784 | 100000 | 0.784 | 09/09/98 | 617 | 0 | 0.476 | 100000 | 0.7112 |
| 09/10/98 | 618 | 0 | 0.756 | 100000 | 0.756 | 09/10/98 | 618 | 0 | 0.42 | 100000 | 0.6858 |
| 09/11/98 | 619 | 0 | 0.784 | 100000 | 0.784 | 09/11/98 | 619 | 0 | 0.392 | 100000 | 0.7112 |
| 09/12/98 | 620 | 0 | 0.784 | 100000 | 0.784 | 09/12/98 | 620 | 0 | 0.392 | 100000 | 0.7112 |
| 09/13/98 | 621 | 0 | 0.784 | 100000 | 0.784 | 09/13/98 | 621 | 0 | 0.364 | 100000 | 0.7112 |
| 09/14/98 | 622 | 0 | 0.812 | 100000 | 0.812 | 09/14/98 | 622 | 0 | 0.42 | 100000 | 0.7366 |
| 09/15/98 | 623 | 0.2032 | 0.728 | 100000 | 0.728 | 09/15/98 | 623 | 0 | 0.42 | 100000 | 0.6604 |
| 09/16/98 | 624 | 0 | 0.7 | 100000 | 0.7 | 09/16/98 | 624 | 0 | 0.476 | 100000 | 0.635 |
| 09/17/98 | 625 | 0 | 0.728 | 100000 | 0.728 | 09/17/98 | 625 | 0 | 0.448 | 100000 | 0.6604 |
| 09/18/98 | 626 | 0 | 0.756 | 100000 | 0.756 | 09/18/98 | 626 | 0 | 0.42 | 100000 | 0.6858 |
| 09/19/98 | 627 | 0 | 0.784 | 100000 | 0.784 | 09/19/98 | 627 | 0 | 0.336 | 100000 | 0.7112 |
| 09/20/98 | 628 | 0 | 0.728 | 100000 | 0.728 | 09/20/98 | 628 | 0 | 0.476 | 100000 | 0.6604 |
| 09/21/98 | 629 | 0 | 0.784 | 100000 | 0.784 | 09/21/98 | 629 | 0 | 0.392 | 100000 | 0.7112 |
| 09/22/98 | 630 | 0 | 0.756 | 100000 | 0.756 | 09/22/98 | 630 | 0.0508 | 0.28 | 100000 | 0.6858 |
| 09/23/98 | 631 | 0 | 0.756 | 100000 | 0.756 | 09/23/98 | 631 | 0 | 0.28 | 100000 | 0.6858 |
| 09/24/98 | 632 | 0 | 0.728 | 100000 | 0.728 | 09/24/98 | 632 | 0 | 0.28 | 100000 | 0.6604 |
| 09/25/98 | 633 | 0 | 0.812 | 100000 | 0.812 | 09/25/98 | 633 | 0 | 0.336 | 100000 | 0.7366 |
| 09/26/98 | 634 | 0 | 0.784 | 100000 | 0.784 | 09/26/98 | 634 | 0.0254 | 0.392 | 100000 | 0.7112 |
| 09/27/98 | 635 | 0 | 0.812 | 100000 | 0.812 | 09/27/98 | 635 | 0 | 0.224 | 100000 | 0.7366 |
| 09/28/98 | 636 | 0 | 0.784 | 100000 | 0.784 | 09/28/98 | 636 | 0 | 0.28 | 100000 | 0.7112 |
| 09/29/98 | 637 | 0.3048 | 0.28 | 100000 | 0.28 | 09/29/98 | 637 | 0 | 0.336 | 100000 | 0.254 |
| 09/30/98 | 638 | 1.8034 | 0.476 | 100000 | 0.476 | 09/30/98 | 638 | 0 | 0.364 | 100000 | 0.4318 |
| 10/01/98 | 639 | 0.1016 | 0.532 | 100000 | 0.532 | 10/01/98 | 639 | 0 | 0.336 | 100000 | 0.4826 |
| 10/02/98 | 640 | 0 | 0.672 | 100000 | 0.672 | 10/02/98 | 640 | 0 | 0.448 | 100000 | 0.6096 |
| 10/03/98 | 641 | 0 | 0.7 | 100000 | 0.7 | 10/03/98 | 641 | 0 | 0.364 | 100000 | 0.635 |
| 10/04/98 | 642 | 0 | 0.728 | 100000 | 0.728 | 10/04/98 | 642 | 0 | 0.308 | 100000 | 0.6604 |
| 10/05/98 | 643 | 0 | 0.616 | 100000 | 0.616 | 10/05/98 | 643 | 0 | 0.364 | 100000 | 0.5588 |
| 10/06/98 | 644 | 0 | 0.56 | 100000 | 0.56 | 10/06/98 | 644 | 0 | 0.364 | 100000 | 0.508 |
| 10/07/98 | 645 | 0 | 0.616 | 100000 | 0.616 | 10/07/98 | 645 | 0 | 0.308 | 100000 | 0.5588 |
| 10/08/98 | 646 | 0 | 0.588 | 100000 | 0.588 | 10/08/98 | 646 | 0 | 0.28 | 100000 | 0.5334 |
| 10/09/98 | 647 | 0 | 0.644 | 100000 | 0.644 | 10/09/98 | 647 | 0 | 0.14 | 100000 | 0.5842 |
| 10/10/98 | 648 | 0 | 0.672 | 100000 | 0.672 | 10/10/98 | 648 | 0 | 0.056 | 100000 | 0.6096 |
| 10/11/98 | 649 | 0 | 0.7 | 100000 | 0.7 | 10/11/98 | 649 | 0 | 0.196 | 100000 | 0.635 |
| 10/12/98 | 650 | 0 | 0.644 | 100000 | 0.644 | 10/12/98 | 650 | 0 | 0.224 | 100000 | 0.5842 |
| 10/13/98 | 651 | 0 | 0.588 | 100000 | 0.588 | 10/13/98 | 651 | 0 | 0.308 | 100000 | 0.5334 |
| 10/14/98 | 652 | 0 | 0.644 | 100000 | 0.644 | 10/14/98 | 652 | 0.2032 | 0.056 | 100000 | 0.5842 |
| 10/15/98 | 653 | 0 | 0.7 | 100000 | 0.7 | 10/15/98 | 653 | 0 | 0.196 | 100000 | 0.635 |
| 10/16/98 | 654 | 0 | 0.644 | 100000 | 0.644 | 10/16/98 | 654 | 0 | 0.196 | 100000 | 0.5842 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|---|-------|--------|--------|
| 10/17/98 | 655 | 0 | 0.476 | 100000 | 0.476 | 10/17/98 | 655 | 0 | 0.14 | 100000 | 0.4318 |
| 10/18/98 | 656 | 0 | 0.504 | 100000 | 0.504 | 10/18/98 | 656 | 0 | 0.252 | 100000 | 0.4572 |
| 10/19/98 | 657 | 0.2032 | 0.308 | 100000 | 0.308 | 10/19/98 | 657 | 0 | 0.28 | 100000 | 0.2794 |
| 10/20/98 | 658 | 0.9906 | 0.168 | 100000 | 0.168 | 10/20/98 | 658 | 0 | 0.392 | 100000 | 0.1524 |
| 10/21/98 | 659 | 0 | 0.112 | 100000 | 0.112 | 10/21/98 | 659 | 0 | 0.336 | 100000 | 0.1016 |
| 10/22/98 | 660 | 0 | 0.14 | 100000 | 0.14 | 10/22/98 | 660 | 0 | 0.308 | 100000 | 0.127 |
| 10/23/98 | 661 | 0.1016 | 0.336 | 100000 | 0.336 | 10/23/98 | 661 | 0 | 0.308 | 100000 | 0.3048 |
| 10/24/98 | 662 | 0 | 0.392 | 100000 | 0.392 | 10/24/98 | 662 | 0 | 0.364 | 100000 | 0.3556 |
| 10/25/98 | 663 | 0 | 0.308 | 100000 | 0.308 | 10/25/98 | 663 | 0 | 0.364 | 100000 | 0.2794 |
| 10/26/98 | 664 | 0.6096 | 0.196 | 100000 | 0.196 | 10/26/98 | 664 | 0 | 0.336 | 100000 | 0.1778 |
| 10/27/98 | 665 | 1.4986 | 0.112 | 100000 | 0.112 | 10/27/98 | 665 | 0 | 0.336 | 100000 | 0.1016 |
| 10/28/98 | 666 | 0 | 0.42 | 100000 | 0.42 | 10/28/98 | 666 | 0 | 0.308 | 100000 | 0.381 |
| 10/29/98 | 667 | 0 | 0.42 | 100000 | 0.42 | 10/29/98 | 667 | 0 | 0.392 | 100000 | 0.381 |
| 10/30/98 | 668 | 0.1016 | 0.168 | 100000 | 0.168 | 10/30/98 | 668 | 0 | 0.392 | 100000 | 0.1524 |
| 10/31/98 | 669 | 0.508 | 0.14 | 100000 | 0.14 | 10/31/98 | 669 | 0 | 0.504 | 100000 | 0.127 |
| 11/01/98 | 670 | 0 | 0.224 | 100000 | 0.224 | 11/01/98 | 670 | 0 | 0.336 | 100000 | 0.2032 |
| 11/02/98 | 671 | 0 | 0.364 | 100000 | 0.364 | 11/02/98 | 671 | 0 | 0.42 | 100000 | 0.3302 |
| 11/03/98 | 672 | 0 | 0.364 | 100000 | 0.364 | 11/03/98 | 672 | 0 | 0.392 | 100000 | 0.3302 |
| 11/04/98 | 673 | 0 | 0.336 | 100000 | 0.336 | 11/04/98 | 673 | 0 | 0.364 | 100000 | 0.3048 |
| 11/05/98 | 674 | 0 | 0.252 | 100000 | 0.252 | 11/05/98 | 674 | 0 | 0.476 | 100000 | 0.2286 |
| 11/06/98 | 675 | 0 | 0.392 | 100000 | 0.392 | 11/06/98 | 675 | 0 | 0.392 | 100000 | 0.3556 |
| 11/07/98 | 676 | 0 | 0.392 | 100000 | 0.392 | 11/07/98 | 676 | 0 | 0.476 | 100000 | 0.3556 |
| 11/08/98 | 677 | 0 | 0.392 | 100000 | 0.392 | 11/08/98 | 677 | 0 | 0.448 | 100000 | 0.3556 |
| 11/09/98 | 678 | 0.4064 | 0.224 | 100000 | 0.224 | 11/09/98 | 678 | 0 | 0.476 | 100000 | 0.2032 |
| 11/10/98 | 679 | 0 | 0.308 | 100000 | 0.308 | 11/10/98 | 679 | 0 | 0.588 | 100000 | 0.2794 |
| 11/11/98 | 680 | 0 | 0.252 | 100000 | 0.252 | 11/11/98 | 680 | 0 | 0.42 | 100000 | 0.2286 |
| 11/12/98 | 681 | 0.1016 | 0.084 | 100000 | 0.084 | 11/12/98 | 681 | 0 | 0.588 | 100000 | 0.0762 |
| 11/13/98 | 682 | 0.1016 | 0.336 | 100000 | 0.336 | 11/13/98 | 682 | 0 | 0.42 | 100000 | 0.3048 |
| 11/14/98 | 683 | 0 | 0.364 | 100000 | 0.364 | 11/14/98 | 683 | 0 | 0.56 | 100000 | 0.3302 |
| 11/15/98 | 684 | 0 | 0.364 | 100000 | 0.364 | 11/15/98 | 684 | 0 | 0.504 | 100000 | 0.3302 |
| 11/16/98 | 685 | 0 | 0.392 | 100000 | 0.392 | 11/16/98 | 685 | 0 | 0.476 | 100000 | 0.3556 |
| 11/17/98 | 686 | 0 | 0.336 | 100000 | 0.336 | 11/17/98 | 686 | 0 | 0.084 | 100000 | 0.3048 |
| 11/18/98 | 687 | 0 | 0.336 | 100000 | 0.336 | 11/18/98 | 687 | 0 | 0.28 | 100000 | 0.3048 |
| 11/19/98 | 688 | 0 | 0.308 | 100000 | 0.308 | 11/19/98 | 688 | 0 | 0.392 | 100000 | 0.2794 |
| 11/20/98 | 689 | 0 | 0.252 | 100000 | 0.252 | 11/20/98 | 689 | 0 | 0.532 | 100000 | 0.2286 |
| 11/21/98 | 690 | 0 | 0.336 | 100000 | 0.336 | 11/21/98 | 690 | 0 | 0.42 | 100000 | 0.3048 |
| 11/22/98 | 691 | 0 | 0.364 | 100000 | 0.364 | 11/22/98 | 691 | 0 | 0.448 | 100000 | 0.3302 |
| 11/23/98 | 692 | 0 | 0.392 | 100000 | 0.392 | 11/23/98 | 692 | 0 | 0.364 | 100000 | 0.3556 |
| 11/24/98 | 693 | 0 | 0.392 | 100000 | 0.392 | 11/24/98 | 693 | 0 | 0.364 | 100000 | 0.3556 |
| 11/25/98 | 694 | 0 | 0.392 | 100000 | 0.392 | 11/25/98 | 694 | 0 | 0.476 | 100000 | 0.3556 |
| 11/26/98 | 695 | 0 | 0.364 | 100000 | 0.364 | 11/26/98 | 695 | 0 | 0.448 | 100000 | 0.3302 |
| 11/27/98 | 696 | 0 | 0.364 | 100000 | 0.364 | 11/27/98 | 696 | 0 | 0.476 | 100000 | 0.3302 |
| 11/28/98 | 697 | 0 | 0.28 | 100000 | 0.28 | 11/28/98 | 697 | 0 | 0.532 | 100000 | 0.254 |
| 11/29/98 | 698 | 0.4064 | 0.168 | 100000 | 0.168 | 11/29/98 | 698 | 0 | 0.952 | 100000 | 0.1524 |
| 11/30/98 | 699 | 0 | 0.28 | 100000 | 0.28 | 11/30/98 | 699 | 0 | 0.504 | 100000 | 0.254 |
| 12/01/98 | 700 | 0 | 0.308 | 100000 | 0.308 | 12/01/98 | 700 | 0 | 0.448 | 100000 | 0.2794 |
| 12/02/98 | 701 | 0.1016 | 0.112 | 100000 | 0.112 | 12/02/98 | 701 | 0 | 0.56 | 100000 | 0.1016 |
| 12/03/98 | 702 | 0 | 0.252 | 100000 | 0.252 | 12/03/98 | 702 | 0 | 0.56 | 100000 | 0.2286 |
| 12/04/98 | 703 | 0 | 0.28 | 100000 | 0.28 | 12/04/98 | 703 | 0 | 0.644 | 100000 | 0.254 |
| 12/05/98 | 704 | 0 | 0.392 | 100000 | 0.392 | 12/05/98 | 704 | 0 | 0.42 | 100000 | 0.3556 |
| 12/06/98 | 705 | 0 | 0.14 | 100000 | 0.14 | 12/06/98 | 705 | 0 | 0.504 | 100000 | 0.127 |
| 12/07/98 | 706 | 0.6096 | 0.168 | 100000 | 0.168 | 12/07/98 | 706 | 0 | 0.616 | 100000 | 0.1524 |
| 12/08/98 | 707 | 0 | 0.196 | 100000 | 0.196 | 12/08/98 | 707 | 0 | 0.7 | 100000 | 0.1778 |
| 12/09/98 | 708 | 0 | 0.14 | 100000 | 0.14 | 12/09/98 | 708 | 0 | 0.644 | 100000 | 0.127 |
| 12/10/98 | 709 | 0 | 0.168 | 100000 | 0.168 | 12/10/98 | 709 | 0 | 0.616 | 100000 | 0.1524 |
| 12/11/98 | 710 | 0 | 0.224 | 100000 | 0.224 | 12/11/98 | 710 | 0 | 0.672 | 100000 | 0.2032 |
| 12/12/98 | 711 | 0 | 0.252 | 100000 | 0.252 | 12/12/98 | 711 | 0 | 0.56 | 100000 | 0.2286 |
| 12/13/98 | 712 | 0 | 0.252 | 100000 | 0.252 | 12/13/98 | 712 | 0 | 0.56 | 100000 | 0.2286 |
| 12/14/98 | 713 | 0 | 0.252 | 100000 | 0.252 | 12/14/98 | 713 | 0 | 0.42 | 100000 | 0.2286 |
| 12/15/98 | 714 | 0 | 0.28 | 100000 | 0.28 | 12/15/98 | 714 | 0 | 0.56 | 100000 | 0.254 |
| 12/16/98 | 715 | 0 | 0.308 | 100000 | 0.308 | 12/16/98 | 715 | 0 | 0.616 | 100000 | 0.2794 |
| 12/17/98 | 716 | 0 | 0.28 | 100000 | 0.28 | 12/17/98 | 716 | 0 | 0.644 | 100000 | 0.254 |
| 12/18/98 | 717 | 0 | 0.336 | 100000 | 0.336 | 12/18/98 | 717 | 0 | 0.784 | 100000 | 0.3048 |
| 12/19/98 | 718 | 0 | 0.168 | 100000 | 0.168 | 12/19/98 | 718 | 0 | 0.756 | 100000 | 0.1524 |
| 12/20/98 | 719 | 0 | 0.42 | 100000 | 0.42 | 12/20/98 | 719 | 0 | 0.756 | 100000 | 0.381 |
| 12/21/98 | 720 | 0 | 0.308 | 100000 | 0.308 | 12/21/98 | 720 | 0 | 0.7 | 100000 | 0.2794 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|--------|--------|--------|
| 12/22/98 | 721 | 0 | 0.168 | 100000 | 0.168 | 12/22/98 | 721 | 0 | 0.7 | 100000 | 0.1524 |
| 12/23/98 | 722 | 0 | 0.168 | 100000 | 0.168 | 12/23/98 | 722 | 0 | 0.56 | 100000 | 0.1524 |
| 12/24/98 | 723 | 0 | 0.224 | 100000 | 0.224 | 12/24/98 | 723 | 0 | 0.616 | 100000 | 0.2032 |
| 12/25/98 | 724 | 0 | 0.252 | 100000 | 0.252 | 12/25/98 | 724 | 0 | 0.616 | 100000 | 0.2286 |
| 12/26/98 | 725 | 0 | 0.224 | 100000 | 0.224 | 12/26/98 | 725 | 0 | 0.756 | 100000 | 0.2032 |
| 12/27/98 | 726 | 0 | 0.252 | 100000 | 0.252 | 12/27/98 | 726 | 0 | 0.7 | 100000 | 0.2286 |
| 12/28/98 | 727 | 0 | 0.336 | 100000 | 0.336 | 12/28/98 | 727 | 0 | 0.84 | 100000 | 0.3048 |
| 12/29/98 | 728 | 0 | 0.308 | 100000 | 0.308 | 12/29/98 | 728 | 0 | 0.448 | 100000 | 0.2794 |
| 12/30/98 | 729 | 0 | 0.308 | 100000 | 0.308 | 12/30/98 | 729 | 0 | 0.532 | 100000 | 0.2794 |
| 12/31/98 | 730 | 0 | 0.28 | 100000 | 0.28 | 12/31/98 | 730 | 0 | 0.672 | 100000 | 0.254 |
| 01/01/99 | 731 | 0 | 0.224 | 100000 | 0.224 | 01/01/99 | 731 | 0 | 0.588 | 100000 | 0.392 |
| 01/02/99 | 732 | 0 | 0.252 | 100000 | 0.252 | 01/02/99 | 732 | 0 | 0.756 | 100000 | 0.336 |
| 01/03/99 | 733 | 0 | 0.252 | 100000 | 0.252 | 01/03/99 | 733 | 0.6096 | 0.28 | 100000 | 0.308 |
| 01/04/99 | 734 | 0 | 0.252 | 100000 | 0.252 | 01/04/99 | 734 | 0.1016 | 0.252 | 100000 | 0.308 |
| 01/05/99 | 735 | 0 | 0.308 | 100000 | 0.308 | 01/05/99 | 735 | 0 | 0.504 | 100000 | 0.364 |
| 01/06/99 | 736 | 0 | 0.308 | 100000 | 0.308 | 01/06/99 | 736 | 0 | 0.672 | 100000 | 0.364 |
| 01/07/99 | 737 | 0 | 0.196 | 100000 | 0.196 | 01/07/99 | 737 | 0 | 0.812 | 100000 | 0.336 |
| 01/08/99 | 738 | 0 | 0.308 | 100000 | 0.308 | 01/08/99 | 738 | 0 | 0.812 | 100000 | 0.336 |
| 01/09/99 | 739 | 0 | 0.28 | 100000 | 0.28 | 01/09/99 | 739 | 0 | 0.812 | 100000 | 0.308 |
| 01/10/99 | 740 | 0 | 0.308 | 100000 | 0.308 | 01/10/99 | 740 | 0 | 0.756 | 100000 | 0.392 |
| 01/11/99 | 741 | 0 | 0.308 | 100000 | 0.308 | 01/11/99 | 741 | 0 | 0.588 | 100000 | 0.392 |
| 01/12/99 | 742 | 0 | 0.364 | 100000 | 0.364 | 01/12/99 | 742 | 0.5842 | 0.448 | 100000 | 0.504 |
| 01/13/99 | 743 | 0 | 0.308 | 100000 | 0.308 | 01/13/99 | 743 | 0.0254 | 0.672 | 100000 | 0.336 |
| 01/14/99 | 744 | 0 | 0.308 | 100000 | 0.308 | 01/14/99 | 744 | 0 | 0.756 | 100000 | 0.42 |
| 01/15/99 | 745 | 0 | 0.336 | 100000 | 0.336 | 01/15/99 | 745 | 0 | 0.84 | 100000 | 0.392 |
| 01/16/99 | 746 | 0 | 0.168 | 100000 | 0.168 | 01/16/99 | 746 | 0 | 0.812 | 100000 | 0.364 |
| 01/17/99 | 747 | 0 | 0.392 | 100000 | 0.392 | 01/17/99 | 747 | 0 | 1.036 | 100000 | 0.476 |
| 01/18/99 | 748 | 0 | 0.364 | 100000 | 0.364 | 01/18/99 | 748 | 0 | 1.008 | 100000 | 0.392 |
| 01/19/99 | 749 | 0 | 0.392 | 100000 | 0.392 | 01/19/99 | 749 | 0 | 0.476 | 100000 | 0.476 |
| 01/20/99 | 750 | 0 | 0.308 | 100000 | 0.308 | 01/20/99 | 750 | 0 | 0.2286 | 100000 | 0.448 |
| 01/21/99 | 751 | 0.2032 | 0.196 | 100000 | 0.196 | 01/21/99 | 751 | 0 | 0.588 | 100000 | 0.476 |
| 01/22/99 | 752 | 0 | 0.336 | 100000 | 0.336 | 01/22/99 | 752 | 0 | 0.7 | 100000 | 0.588 |
| 01/23/99 | 753 | 0 | 0.336 | 100000 | 0.336 | 01/23/99 | 753 | 0 | 0.868 | 100000 | 0.42 |
| 01/24/99 | 754 | 0 | 0.28 | 100000 | 0.28 | 01/24/99 | 754 | 0 | 0.98 | 100000 | 0.588 |
| 01/25/99 | 755 | 0 | 0.308 | 100000 | 0.308 | 01/25/99 | 755 | 0 | 0.784 | 100000 | 0.42 |
| 01/26/99 | 756 | 0 | 0.42 | 100000 | 0.42 | 01/26/99 | 756 | 0 | 1.064 | 100000 | 0.56 |
| 01/27/99 | 757 | 0 | 0.308 | 100000 | 0.308 | 01/27/99 | 757 | 0 | 0.868 | 100000 | 0.504 |
| 01/28/99 | 758 | 0 | 0.308 | 100000 | 0.308 | 01/28/99 | 758 | 0 | 0.84 | 100000 | 0.476 |
| 01/29/99 | 759 | 0 | 0.14 | 100000 | 0.14 | 01/29/99 | 759 | 0 | 0.98 | 100000 | 0.084 |
| 01/30/99 | 760 | 0 | 0.308 | 100000 | 0.308 | 01/30/99 | 760 | 0 | 0.84 | 100000 | 0.28 |
| 01/31/99 | 761 | 0 | 0.364 | 100000 | 0.364 | 01/31/99 | 761 | 0 | 1.008 | 100000 | 0.392 |
| 02/01/99 | 762 | 0 | 0.42 | 100000 | 0.42 | 02/01/99 | 762 | 0 | 0.84 | 100000 | 0.532 |
| 02/02/99 | 763 | 0 | 0.336 | 100000 | 0.336 | 02/02/99 | 763 | 0 | 0.812 | 100000 | 0.42 |
| 02/03/99 | 764 | 0 | 0.42 | 100000 | 0.42 | 02/03/99 | 764 | 0 | 0.784 | 100000 | 0.448 |
| 02/04/99 | 765 | 0 | 0.224 | 100000 | 0.224 | 02/04/99 | 765 | 0 | 0.812 | 100000 | 0.364 |
| 02/05/99 | 766 | 0 | 0.224 | 100000 | 0.224 | 02/05/99 | 766 | 0 | 0.924 | 100000 | 0.364 |
| 02/06/99 | 767 | 0 | 0.364 | 100000 | 0.364 | 02/06/99 | 767 | 0 | 1.008 | 100000 | 0.476 |
| 02/07/99 | 768 | 0 | 0.392 | 100000 | 0.392 | 02/07/99 | 768 | 0 | 1.008 | 100000 | 0.448 |
| 02/08/99 | 769 | 0 | 0.42 | 100000 | 0.42 | 02/08/99 | 769 | 0 | 1.232 | 100000 | 0.476 |
| 02/09/99 | 770 | 0 | 0.476 | 100000 | 0.476 | 02/09/99 | 770 | 0 | 1.26 | 100000 | 0.532 |
| 02/10/99 | 771 | 0 | 0.644 | 100000 | 0.644 | 02/10/99 | 771 | 0 | 0.616 | 100000 | 0.952 |
| 02/11/99 | 772 | 0 | 0.364 | 100000 | 0.364 | 02/11/99 | 772 | 0 | 0.644 | 100000 | 0.504 |
| 02/12/99 | 773 | 0 | 0.392 | 100000 | 0.392 | 02/12/99 | 773 | 0 | 0.98 | 100000 | 0.448 |
| 02/13/99 | 774 | 0 | 0.448 | 100000 | 0.448 | 02/13/99 | 774 | 0 | 0.868 | 100000 | 0.56 |
| 02/14/99 | 775 | 0 | 0.448 | 100000 | 0.448 | 02/14/99 | 775 | 0 | 0.532 | 100000 | 0.56 |
| 02/15/99 | 776 | 0 | 0.504 | 100000 | 0.504 | 02/15/99 | 776 | 0 | 1.064 | 100000 | 0.644 |
| 02/16/99 | 777 | 0 | 0.336 | 100000 | 0.336 | 02/16/99 | 777 | 0 | 1.008 | 100000 | 0.42 |
| 02/17/99 | 778 | 0 | 0.448 | 100000 | 0.448 | 02/17/99 | 778 | 0 | 0.616 | 100000 | 0.504 |
| 02/18/99 | 779 | 0 | 0.476 | 100000 | 0.476 | 02/18/99 | 779 | 0 | 0.924 | 100000 | 0.616 |
| 02/19/99 | 780 | 0 | 0.532 | 100000 | 0.532 | 02/19/99 | 780 | 0 | 0.924 | 100000 | 0.7 |
| 02/20/99 | 781 | 0 | 0.448 | 100000 | 0.448 | 02/20/99 | 781 | 0 | 1.064 | 100000 | 0.644 |
| 02/21/99 | 782 | 0 | 0.504 | 100000 | 0.504 | 02/21/99 | 782 | 0 | 1.008 | 100000 | 0.616 |
| 02/22/99 | 783 | 0 | 0.56 | 100000 | 0.56 | 02/22/99 | 783 | 0 | 0.952 | 100000 | 0.672 |
| 02/23/99 | 784 | 0 | 0.476 | 100000 | 0.476 | 02/23/99 | 784 | 0 | 0.924 | 100000 | 0.56 |
| 02/24/99 | 785 | 0 | 0.532 | 100000 | 0.532 | 02/24/99 | 785 | 0 | 1.036 | 100000 | 0.56 |
| 02/25/99 | 786 | 0 | 0.392 | 100000 | 0.392 | 02/25/99 | 786 | 0 | 1.008 | 100000 | 0.42 |

| | | | | | | | | | | | |
|----------|-----|--------|-------|--------|-------|----------|-----|--------|-------|--------|--------|
| 02/26/99 | 787 | 0 | 0.532 | 100000 | 0.532 | 02/26/99 | 787 | 0 | 1.092 | 100000 | 0.56 |
| 02/27/99 | 788 | 0 | 0.532 | 100000 | 0.532 | 02/27/99 | 788 | 0 | 0.728 | 100000 | 0.616 |
| 02/28/99 | 789 | 0 | 0.588 | 100000 | 0.588 | 02/28/99 | 789 | 0 | 1.036 | 100000 | 0.644 |
| 03/01/99 | 790 | 0 | 0.644 | 100000 | 0.644 | 03/01/99 | 790 | 0 | 1.036 | 100000 | 0.784 |
| 03/02/99 | 791 | 0 | 0.588 | 100000 | 0.588 | 03/02/99 | 791 | 0 | 1.176 | 100000 | 0.756 |
| 03/03/99 | 792 | 0 | 0.644 | 100000 | 0.644 | 03/03/99 | 792 | 0 | 1.12 | 100000 | 0.756 |
| 03/04/99 | 793 | 0 | 0.644 | 100000 | 0.644 | 03/04/99 | 793 | 0 | 1.064 | 100000 | 0.7 |
| 03/05/99 | 794 | 0 | 0.672 | 100000 | 0.672 | 03/05/99 | 794 | 0 | 1.036 | 100000 | 0.7 |
| 03/06/99 | 795 | 0 | 0.504 | 100000 | 0.504 | 03/06/99 | 795 | 0 | 1.036 | 100000 | 0.56 |
| 03/07/99 | 796 | 0 | 0.588 | 100000 | 0.588 | 03/07/99 | 796 | 0 | 1.204 | 100000 | 0.616 |
| 03/08/99 | 797 | 0 | 0.56 | 100000 | 0.56 | 03/08/99 | 797 | 0 | 1.064 | 100000 | 0.616 |
| 03/09/99 | 798 | 0 | 0.588 | 100000 | 0.588 | 03/09/99 | 798 | 0 | 1.008 | 100000 | 0.756 |
| 03/10/99 | 799 | 0 | 0.616 | 100000 | 0.616 | 03/10/99 | 799 | 0 | 1.12 | 100000 | 0.7 |
| 03/11/99 | 800 | 0 | 0.56 | 100000 | 0.56 | 03/11/99 | 800 | 0.3556 | 0.7 | 100000 | 0.84 |
| 03/12/99 | 801 | 0.2032 | 0.308 | 100000 | 0.308 | 03/12/99 | 801 | 0.6604 | 0.616 | 100000 | 0.448 |
| 03/13/99 | 802 | 0.8128 | 0.308 | 100000 | 0.308 | 03/13/99 | 802 | 0 | 0.952 | 100000 | 0.532 |
| 03/14/99 | 803 | 0 | 0.56 | 100000 | 0.56 | 03/14/99 | 803 | 0 | 0.7 | 100000 | 0.672 |
| 03/15/99 | 804 | 0 | 0.6 | 100000 | 0.6 | 03/15/99 | 804 | 0 | 0.98 | 100000 | 0.588 |
| 03/16/99 | 805 | 0 | 0.6 | 100000 | 0.6 | 03/16/99 | 805 | 0.0508 | 0.728 | 100000 | 0.756 |
| 03/17/99 | 806 | 0.9906 | 0.6 | 100000 | 0.6 | 03/17/99 | 806 | 0.0762 | 0.84 | 100000 | 0.28 |
| 03/18/99 | 807 | 0.508 | 0.6 | 100000 | 0.6 | 03/18/99 | 807 | 0 | 0.98 | 100000 | 0.252 |
| 03/19/99 | 808 | 0.1016 | 0.6 | 100000 | 0.6 | 03/19/99 | 808 | 0 | 0.812 | 100000 | 0.504 |
| 03/20/99 | 809 | 0 | 0.6 | 100000 | 0.6 | 03/20/99 | 809 | 0 | 1.12 | 100000 | 0.672 |
| 03/21/99 | 810 | 0 | 0.6 | 100000 | 0.6 | 03/21/99 | 810 | 0 | 1.148 | 100000 | 0.812 |
| 03/22/99 | 811 | 0 | 0.6 | 100000 | 0.6 | 03/22/99 | 811 | 0 | 1.148 | 100000 | 0.812 |
| 03/23/99 | 812 | 0 | 0.6 | 100000 | 0.6 | 03/23/99 | 812 | 0 | 1.26 | 100000 | 0.812 |
| 03/24/99 | 813 | 0 | 0.6 | 100000 | 0.6 | 03/24/99 | 813 | 0 | 1.008 | 100000 | 0.756 |
| 03/25/99 | 814 | 0 | 0.6 | 100000 | 0.6 | 03/25/99 | 814 | 0 | 1.008 | 100000 | 0.588 |
| 03/26/99 | 815 | 0.4064 | 0.6 | 100000 | 0.6 | 03/26/99 | 815 | 0 | 1.092 | 100000 | 0.448 |
| 03/27/99 | 816 | 0 | 0.6 | 100000 | 0.6 | 03/27/99 | 816 | 0 | 1.148 | 100000 | 0.672 |
| 03/28/99 | 817 | 0 | 0.6 | 100000 | 0.6 | 03/28/99 | 817 | 0 | 1.064 | 100000 | 0.756 |
| 03/29/99 | 818 | 0 | 0.6 | 100000 | 0.6 | 03/29/99 | 818 | 0 | 1.092 | 100000 | 0.84 |
| 03/30/99 | 819 | 0 | 0.6 | 100000 | 0.6 | 03/30/99 | 819 | 0 | 1.12 | 100000 | 0.812 |
| 03/31/99 | 820 | 0 | 0.6 | 100000 | 0.6 | 03/31/99 | 820 | 0 | 1.092 | 100000 | 1.036 |
| 04/01/99 | 821 | 0 | 0.6 | 100000 | 0.6 | 04/01/99 | 821 | 0 | 0.784 | 100000 | 1.008 |
| 04/02/99 | 822 | 0.2032 | 0.6 | 100000 | 0.6 | 04/02/99 | 822 | 0 | 0.924 | 100000 | 0.476 |
| 04/03/99 | 823 | 0 | 0.6 | 100000 | 0.6 | 04/03/99 | 823 | 0 | 1.008 | 100000 | 0.2286 |
| 04/04/99 | 824 | 0 | 0.6 | 100000 | 0.6 | 04/04/99 | 824 | 0 | 0.924 | 100000 | 0.588 |
| 04/05/99 | 825 | 0 | 0.6 | 100000 | 0.6 | 04/05/99 | 825 | 0.3556 | 0.672 | 100000 | 0.7 |
| 04/06/99 | 826 | 0 | 0.6 | 100000 | 0.6 | 04/06/99 | 826 | 0 | 0.784 | 100000 | 0.868 |
| 04/07/99 | 827 | 0 | 0.6 | 100000 | 0.6 | 04/07/99 | 827 | 0 | 0.784 | 100000 | 0.98 |
| 04/08/99 | 828 | 0 | 0.6 | 100000 | 0.6 | 04/08/99 | 828 | 0 | 0.896 | 100000 | 0.784 |
| 04/09/99 | 829 | 0 | 0.6 | 100000 | 0.6 | 04/09/99 | 829 | 0 | 0.756 | 100000 | 1.064 |
| 04/10/99 | 830 | 0 | 0.6 | 100000 | 0.6 | 04/10/99 | 830 | 0 | 1.008 | 100000 | 0.868 |
| 04/11/99 | 831 | 0 | 0.6 | 100000 | 0.6 | 04/11/99 | 831 | 0 | 1.036 | 100000 | 0.84 |
| 04/12/99 | 832 | 0 | 0.6 | 100000 | 0.6 | 04/12/99 | 832 | 0 | 1.092 | 100000 | 0.98 |
| 04/13/99 | 833 | 0 | 0.6 | 100000 | 0.6 | 04/13/99 | 833 | 0 | 0.98 | 100000 | 0.84 |
| 04/14/99 | 834 | 0 | 0.6 | 100000 | 0.6 | 04/14/99 | 834 | 0 | 0.924 | 100000 | 1.008 |
| 04/15/99 | 835 | 0 | 0.6 | 100000 | 0.6 | 04/15/99 | 835 | 0 | 0.84 | 100000 | 0.84 |
| 04/16/99 | 836 | 0 | 0.6 | 100000 | 0.6 | 04/16/99 | 836 | 0.1524 | 1.064 | 100000 | 0.812 |
| 04/17/99 | 837 | 0 | 0.6 | 100000 | 0.6 | 04/17/99 | 837 | 0 | 1.232 | 100000 | 0.784 |
| 04/18/99 | 838 | 0 | 0.6 | 100000 | 0.6 | 04/18/99 | 838 | 0 | 1.204 | 100000 | 0.812 |
| 04/19/99 | 839 | 0 | 0.6 | 100000 | 0.6 | 04/19/99 | 839 | 0 | 1.148 | 100000 | 0.924 |
| 04/20/99 | 840 | 0 | 0.6 | 100000 | 0.6 | 04/20/99 | 840 | 0 | 0.98 | 100000 | 1.008 |
| 04/21/99 | 841 | 0 | 0.6 | 100000 | 0.6 | 04/21/99 | 841 | 0 | 0.924 | 100000 | 1.008 |
| 04/22/99 | 842 | 0 | 0.6 | 100000 | 0.6 | 04/22/99 | 842 | 0.0254 | 0.924 | 100000 | 1.232 |
| 04/23/99 | 843 | 0 | 0.6 | 100000 | 0.6 | 04/23/99 | 843 | 0.0508 | 0.84 | 100000 | 1.26 |
| 04/24/99 | 844 | 1.2954 | 0.6 | 100000 | 0.6 | 04/24/99 | 844 | 0.0508 | 0.7 | 100000 | 0.616 |
| 04/25/99 | 845 | 0.2032 | 0.6 | 100000 | 0.6 | 04/25/99 | 845 | 0 | 0.98 | 100000 | 0.644 |
| 04/26/99 | 846 | 0 | 0.6 | 100000 | 0.6 | 04/26/99 | 846 | 0 | 0.868 | 100000 | 0.98 |
| 04/27/99 | 847 | 0 | 0.6 | 100000 | 0.6 | 04/27/99 | 847 | 0.5334 | 0.924 | 100000 | 0.868 |
| 04/28/99 | 848 | 0 | 0.6 | 100000 | 0.6 | 04/28/99 | 848 | 0 | 0.588 | 100000 | 0.532 |
| 04/29/99 | 849 | 0.1016 | 0.6 | 100000 | 0.6 | 04/29/99 | 849 | 0 | 1.008 | 100000 | 1.064 |
| 04/30/99 | 850 | 0 | 0.6 | 100000 | 0.6 | 04/30/99 | 850 | 0 | 0.952 | 100000 | 1.008 |
| 05/01/99 | 851 | 0.1016 | 0.6 | 100000 | 0.6 | 05/01/99 | 851 | 0 | 0.98 | 100000 | 0.616 |
| 05/02/99 | 852 | 0 | 0.6 | 100000 | 0.6 | 05/02/99 | 852 | 0 | 0.672 | 100000 | 0.924 |

| | | | | | | | | | | | |
|----------|-----|--------|-----|--------|-----|----------|-----|--------|-------|--------|-------|
| 05/03/99 | 853 | 0 | 0.6 | 100000 | 0.6 | 05/03/99 | 853 | 0 | 0.56 | 100000 | 0.924 |
| 05/04/99 | 854 | 0 | 0.6 | 100000 | 0.6 | 05/04/99 | 854 | 0.0254 | 0.812 | 100000 | 1.064 |
| 05/05/99 | 855 | 0 | 0.6 | 100000 | 0.6 | 05/05/99 | 855 | 0.0254 | 0.616 | 100000 | 1.008 |
| 05/06/99 | 856 | 0 | 0.6 | 100000 | 0.6 | 05/06/99 | 856 | 1.8034 | 0.84 | 100000 | 0.952 |
| 05/07/99 | 857 | 0 | 0.6 | 100000 | 0.6 | 05/07/99 | 857 | 0.6604 | 0.84 | 100000 | 0.924 |
| 05/08/99 | 858 | 0 | 0.6 | 100000 | 0.6 | 05/08/99 | 858 | 0.0254 | 0.784 | 100000 | 1.036 |
| 05/09/99 | 859 | 0 | 0.6 | 100000 | 0.6 | 05/09/99 | 859 | 0.3048 | 0.616 | 100000 | 1.008 |
| 05/10/99 | 860 | 0 | 0.6 | 100000 | 0.6 | 05/10/99 | 860 | 0 | 0.868 | 100000 | 1.092 |
| 05/11/99 | 861 | 0 | 0.6 | 100000 | 0.6 | 05/11/99 | 861 | 0 | 0.952 | 100000 | 0.728 |
| 05/12/99 | 862 | 0 | 0.6 | 100000 | 0.6 | 05/12/99 | 862 | 0 | 0.952 | 100000 | 1.036 |
| 05/13/99 | 863 | 0 | 0.6 | 100000 | 0.6 | 05/13/99 | 863 | 0 | 0.98 | 100000 | 1.036 |
| 05/14/99 | 864 | 0 | 0.6 | 100000 | 0.6 | 05/14/99 | 864 | 0 | 0.812 | 100000 | 1.176 |
| 05/15/99 | 865 | 0 | 0.6 | 100000 | 0.6 | 05/15/99 | 865 | 0 | 0.924 | 100000 | 1.12 |
| 05/16/99 | 866 | 0 | 0.6 | 100000 | 0.6 | 05/16/99 | 866 | 0.0508 | 0.868 | 100000 | 1.064 |
| 05/17/99 | 867 | 0 | 0.6 | 100000 | 0.6 | 05/17/99 | 867 | 0 | 0.952 | 100000 | 1.036 |
| 05/18/99 | 868 | 0 | 0.6 | 100000 | 0.6 | 05/18/99 | 868 | 0 | 0.896 | 100000 | 1.036 |
| 05/19/99 | 869 | 0 | 0.6 | 100000 | 0.6 | 05/19/99 | 869 | 0.0254 | 0.952 | 100000 | 1.204 |
| 05/20/99 | 870 | 0 | 0.6 | 100000 | 0.6 | 05/20/99 | 870 | 0 | 0.84 | 100000 | 1.064 |
| 05/21/99 | 871 | 0 | 0.6 | 100000 | 0.6 | 05/21/99 | 871 | 0 | 0.756 | 100000 | 1.008 |
| 05/22/99 | 872 | 0.1016 | 0.6 | 100000 | 0.6 | 05/22/99 | 872 | 0.2794 | 0.504 | 100000 | 1.12 |
| 05/23/99 | 873 | 0.3048 | 0.6 | 100000 | 0.6 | 05/23/99 | 873 | 0.0762 | 0.476 | 100000 | 0.7 |
| 05/24/99 | 874 | 1.905 | 0.6 | 100000 | 0.6 | 05/24/99 | 874 | 0.4826 | 0.588 | 100000 | 0.616 |
| 05/25/99 | 875 | 0.1016 | 0.6 | 100000 | 0.6 | 05/25/99 | 875 | 0.9906 | 0.588 | 100000 | 0.952 |
| 05/26/99 | 876 | 0 | 0.6 | 100000 | 0.6 | 05/26/99 | 876 | 0 | 0.868 | 100000 | 0.7 |
| 05/27/99 | 877 | 0 | 0.6 | 100000 | 0.6 | 05/27/99 | 877 | 1.0922 | 0.896 | 100000 | 0.98 |
| 05/28/99 | 878 | 0 | 0.6 | 100000 | 0.6 | 05/28/99 | 878 | 0.0508 | 0.728 | 100000 | 0.728 |
| 05/29/99 | 879 | 0 | 0.6 | 100000 | 0.6 | 05/29/99 | 879 | 0.3048 | 0.56 | 100000 | 0.84 |
| 05/30/99 | 880 | 0 | 0.6 | 100000 | 0.6 | 05/30/99 | 880 | 0.1016 | 0.588 | 100000 | 0.98 |
| 05/31/99 | 881 | 0 | 0.6 | 100000 | 0.6 | 05/31/99 | 881 | 0.0254 | 0.896 | 100000 | 0.812 |
| 06/01/99 | 882 | 0 | 0.6 | 100000 | 0.6 | 06/01/99 | 882 | 0 | 1.008 | 100000 | 1.12 |
| 06/02/99 | 883 | 0 | 0.6 | 100000 | 0.6 | 06/02/99 | 883 | 0.0254 | 0.84 | 100000 | 1.148 |
| 06/03/99 | 884 | 0 | 0.6 | 100000 | 0.6 | 06/03/99 | 884 | 0 | 0.784 | 100000 | 1.148 |
| 06/04/99 | 885 | 0 | 0.6 | 100000 | 0.6 | 06/04/99 | 885 | 0 | 0.98 | 100000 | 1.26 |
| 06/05/99 | 886 | 0 | 0.6 | 100000 | 0.6 | 06/05/99 | 886 | 0 | 0.952 | 100000 | 1.008 |
| 06/06/99 | 887 | 0 | 0.6 | 100000 | 0.6 | 06/06/99 | 887 | 0 | 0.952 | 100000 | 1.008 |
| 06/07/99 | 888 | 0 | 0.6 | 100000 | 0.6 | 06/07/99 | 888 | 0.5842 | 0.896 | 100000 | 1.092 |
| 06/08/99 | 889 | 0 | 0.6 | 100000 | 0.6 | 06/08/99 | 889 | 0.1524 | 0.84 | 100000 | 1.148 |
| 06/09/99 | 890 | 0 | 0.6 | 100000 | 0.6 | 06/09/99 | 890 | 0 | 0.98 | 100000 | 1.064 |
| 06/10/99 | 891 | 0 | 0.6 | 100000 | 0.6 | 06/10/99 | 891 | 0 | 0.896 | 100000 | 1.092 |
| 06/11/99 | 892 | 0 | 0.6 | 100000 | 0.6 | 06/11/99 | 892 | 0.4572 | 1.008 | 100000 | 1.12 |
| 06/12/99 | 893 | 0 | 0.6 | 100000 | 0.6 | 06/12/99 | 893 | 0 | 0.84 | 100000 | 1.092 |
| 06/13/99 | 894 | 0 | 0.6 | 100000 | 0.6 | 06/13/99 | 894 | 0.0508 | 0.784 | 100000 | 0.784 |
| 06/14/99 | 895 | 0 | 0.6 | 100000 | 0.6 | 06/14/99 | 895 | 0 | 0.728 | 100000 | 0.924 |
| 06/15/99 | 896 | 0.7112 | 0.6 | 100000 | 0.6 | 06/15/99 | 896 | 0.2286 | 0.896 | 100000 | 1.008 |
| 06/16/99 | 897 | 0.1016 | 0.6 | 100000 | 0.6 | 06/16/99 | 897 | 0.0508 | 0.896 | 100000 | 0.924 |
| 06/17/99 | 898 | 0 | 0.6 | 100000 | 0.6 | 06/17/99 | 898 | 0 | 0.896 | 100000 | 0.672 |
| 06/18/99 | 899 | 0.1016 | 0.6 | 100000 | 0.6 | 06/18/99 | 899 | 0 | 0.812 | 100000 | 0.784 |
| 06/19/99 | 900 | 0 | 0.6 | 100000 | 0.6 | 06/19/99 | 900 | 0 | 0.84 | 100000 | 0.784 |
| 06/20/99 | 901 | 0 | 0.6 | 100000 | 0.6 | 06/20/99 | 901 | 0 | 0.616 | 100000 | 0.896 |
| 06/21/99 | 902 | 1.7018 | 0.6 | 100000 | 0.6 | 06/21/99 | 902 | 0 | 0.672 | 100000 | 0.756 |
| 06/22/99 | 903 | 0 | 0.6 | 100000 | 0.6 | 06/22/99 | 903 | 2.1336 | 0.476 | 100000 | 1.008 |
| 06/23/99 | 904 | 0 | 0.6 | 100000 | 0.6 | 06/23/99 | 904 | 0 | 0.812 | 100000 | 1.036 |
| 06/24/99 | 905 | 0 | 0.6 | 100000 | 0.6 | 06/24/99 | 905 | 0 | 0.868 | 100000 | 1.092 |
| 06/25/99 | 906 | 0 | 0.6 | 100000 | 0.6 | 06/25/99 | 906 | 0 | 0.588 | 100000 | 0.98 |
| 06/26/99 | 907 | 0 | 0.6 | 100000 | 0.6 | 06/26/99 | 907 | 0 | 0.784 | 100000 | 0.924 |
| 06/27/99 | 908 | 0 | 0.6 | 100000 | 0.6 | 06/27/99 | 908 | 0 | 0.868 | 100000 | 0.84 |
| 06/28/99 | 909 | 0 | 0.6 | 100000 | 0.6 | 06/28/99 | 909 | 0 | 0.616 | 100000 | 1.064 |
| 06/29/99 | 910 | 0 | 0.6 | 100000 | 0.6 | 06/29/99 | 910 | 0 | 0.588 | 100000 | 1.232 |
| 06/30/99 | 911 | 0 | 0.6 | 100000 | 0.6 | 06/30/99 | 911 | 0 | 0.924 | 100000 | 1.204 |
| 07/01/99 | 912 | 0 | 0.6 | 100000 | 0.6 | 07/01/99 | 912 | 0 | 0.896 | 100000 | 1.148 |
| 07/02/99 | 913 | 0 | 0.6 | 100000 | 0.6 | 07/02/99 | 913 | 0.5842 | 0.476 | 100000 | 0.98 |
| 07/03/99 | 914 | 0 | 0.6 | 100000 | 0.6 | 07/03/99 | 914 | 0.0254 | 0.504 | 100000 | 0.924 |
| 07/04/99 | 915 | 0 | 0.6 | 100000 | 0.6 | 07/04/99 | 915 | 0.254 | 0.616 | 100000 | 0.924 |
| 07/05/99 | 916 | 1.2954 | 0.6 | 100000 | 0.6 | 07/05/99 | 916 | 0.127 | 0.616 | 100000 | 0.84 |
| 07/06/99 | 917 | 0 | 0.6 | 100000 | 0.6 | 07/06/99 | 917 | 0.2794 | 0.28 | 100000 | 0.7 |
| 07/07/99 | 918 | 0.7112 | 0.6 | 100000 | 0.6 | 07/07/99 | 918 | 0.8382 | 0.616 | 100000 | 0.98 |

| | | | | | | | | | | | |
|----------|-----|--------|-----|--------|-----|----------|-----|--------|-------|--------|-------|
| 07/08/99 | 919 | 0.8128 | 0.6 | 100000 | 0.6 | 07/08/99 | 919 | 0.0254 | 0.532 | 100000 | 0.868 |
| 07/09/99 | 920 | 0 | 0.6 | 100000 | 0.6 | 07/09/99 | 920 | 0 | 0.728 | 100000 | 0.924 |
| 07/10/99 | 921 | 0.1016 | 0.6 | 100000 | 0.6 | 07/10/99 | 921 | 0 | 0.7 | 100000 | 0.588 |
| 07/11/99 | 922 | 0 | 0.6 | 100000 | 0.6 | 07/11/99 | 922 | 0 | 0.644 | 100000 | 1.008 |
| 07/12/99 | 923 | 0 | 0.6 | 100000 | 0.6 | 07/12/99 | 923 | 0.127 | 0.532 | 100000 | 0.952 |
| 07/13/99 | 924 | 0 | 0.6 | 100000 | 0.6 | 07/13/99 | 924 | 0.0254 | 0.672 | 100000 | 0.98 |
| 07/14/99 | 925 | 0 | 0.6 | 100000 | 0.6 | 07/14/99 | 925 | 0 | 0.728 | 100000 | 0.672 |
| 07/15/99 | 926 | 0 | 0.6 | 100000 | 0.6 | 07/15/99 | 926 | 0 | 0.784 | 100000 | 0.56 |
| 07/16/99 | 927 | 0 | 0.6 | 100000 | 0.6 | 07/16/99 | 927 | 0 | 0.784 | 100000 | 0.812 |
| 07/17/99 | 928 | 0.2032 | 0.6 | 100000 | 0.6 | 07/17/99 | 928 | 0 | 0.924 | 100000 | 0.616 |
| 07/18/99 | 929 | 2.1082 | 0.6 | 100000 | 0.6 | 07/18/99 | 929 | 0 | 0.728 | 100000 | 0.84 |
| 07/19/99 | 930 | 0.508 | 0.6 | 100000 | 0.6 | 07/19/99 | 930 | 0 | 0.672 | 100000 | 0.84 |
| 07/20/99 | 931 | 0.1016 | 0.6 | 100000 | 0.6 | 07/20/99 | 931 | 0 | 0.756 | 100000 | 0.784 |
| 07/21/99 | 932 | 0 | 0.6 | 100000 | 0.6 | 07/21/99 | 932 | 0 | 0.756 | 100000 | 0.616 |
| 07/22/99 | 933 | 0 | 0.6 | 100000 | 0.6 | 07/22/99 | 933 | 0 | 0.756 | 100000 | 0.868 |
| 07/23/99 | 934 | 0 | 0.6 | 100000 | 0.6 | 07/23/99 | 934 | 0 | 0.784 | 100000 | 0.952 |
| 07/24/99 | 935 | 0 | 0.6 | 100000 | 0.6 | 07/24/99 | 935 | 0 | 0.756 | 100000 | 0.952 |
| 07/25/99 | 936 | 0 | 0.6 | 100000 | 0.6 | 07/25/99 | 936 | 0 | 0.756 | 100000 | 0.98 |
| 07/26/99 | 937 | 0 | 0.6 | 100000 | 0.6 | 07/26/99 | 937 | 0 | 0.644 | 100000 | 0.812 |
| 07/27/99 | 938 | 0.2032 | 0.6 | 100000 | 0.6 | 07/27/99 | 938 | 0 | 0.7 | 100000 | 0.924 |
| 07/28/99 | 939 | 0 | 0.6 | 100000 | 0.6 | 07/28/99 | 939 | 0 | 0.644 | 100000 | 0.868 |
| 07/29/99 | 940 | 0 | 0.6 | 100000 | 0.6 | 07/29/99 | 940 | 0 | 0.728 | 100000 | 0.952 |
| 07/30/99 | 941 | 0 | 0.6 | 100000 | 0.6 | 07/30/99 | 941 | 0 | 0.7 | 100000 | 0.896 |
| 07/31/99 | 942 | 0.6096 | 0.6 | 100000 | 0.6 | 07/31/99 | 942 | 0 | 0.672 | 100000 | 0.952 |
| 08/01/99 | 943 | 0 | 0.6 | 100000 | 0.6 | 08/01/99 | 943 | 0 | 0.756 | 100000 | 0.84 |
| 08/02/99 | 944 | 1.7018 | 0.6 | 100000 | 0.6 | 08/02/99 | 944 | 0 | 0.728 | 100000 | 0.756 |
| 08/03/99 | 945 | 2.9972 | 0.6 | 100000 | 0.6 | 08/03/99 | 945 | 0 | 0.7 | 100000 | 0.504 |
| 08/04/99 | 946 | 0 | 0.6 | 100000 | 0.6 | 08/04/99 | 946 | 0.1778 | 0.588 | 100000 | 0.476 |
| 08/05/99 | 947 | 0.1016 | 0.6 | 100000 | 0.6 | 08/05/99 | 947 | 0.5334 | 0.112 | 100000 | 0.588 |
| 08/06/99 | 948 | 0 | 0.6 | 100000 | 0.6 | 08/06/99 | 948 | 0 | 0.392 | 100000 | 0.588 |
| 08/07/99 | 949 | 0 | 0.6 | 100000 | 0.6 | 08/07/99 | 949 | 0 | 0.448 | 100000 | 0.868 |
| 08/08/99 | 950 | 0.2032 | 0.6 | 100000 | 0.6 | 08/08/99 | 950 | 0 | 0.504 | 100000 | 0.896 |
| 08/09/99 | 951 | 0 | 0.6 | 100000 | 0.6 | 08/09/99 | 951 | 0 | 0.616 | 100000 | 0.728 |
| 08/10/99 | 952 | 0.3048 | 0.6 | 100000 | 0.6 | 08/10/99 | 952 | 0 | 0.644 | 100000 | 0.56 |
| 08/11/99 | 953 | 0 | 0.6 | 100000 | 0.6 | 08/11/99 | 953 | 0 | 0.616 | 100000 | 0.588 |
| 08/12/99 | 954 | 0 | 0.6 | 100000 | 0.6 | 08/12/99 | 954 | 0 | 0.588 | 100000 | 0.896 |
| 08/13/99 | 955 | 0 | 0.6 | 100000 | 0.6 | 08/13/99 | 955 | 0 | 0.616 | 100000 | 1.008 |
| 08/14/99 | 956 | 0 | 0.6 | 100000 | 0.6 | 08/14/99 | 956 | 0 | 0.644 | 100000 | 0.84 |
| 08/15/99 | 957 | 0.508 | 0.6 | 100000 | 0.6 | 08/15/99 | 957 | 0 | 0.476 | 100000 | 0.784 |
| 08/16/99 | 958 | 0 | 0.6 | 100000 | 0.6 | 08/16/99 | 958 | 0 | 0.616 | 100000 | 0.98 |
| 08/17/99 | 959 | 0 | 0.6 | 100000 | 0.6 | 08/17/99 | 959 | 0 | 0.728 | 100000 | 0.952 |
| 08/18/99 | 960 | 0 | 0.6 | 100000 | 0.6 | 08/18/99 | 960 | 0 | 0.476 | 100000 | 0.952 |
| 08/19/99 | 961 | 0 | 0.6 | 100000 | 0.6 | 08/19/99 | 961 | 0 | 0.56 | 100000 | 0.896 |
| 08/20/99 | 962 | 0.1016 | 0.6 | 100000 | 0.6 | 08/20/99 | 962 | 0 | 0.7 | 100000 | 0.84 |
| 08/21/99 | 963 | 0 | 0.6 | 100000 | 0.6 | 08/21/99 | 963 | 0 | 0.504 | 100000 | 0.98 |
| 08/22/99 | 964 | 0 | 0.6 | 100000 | 0.6 | 08/22/99 | 964 | 0 | 0.42 | 100000 | 0.896 |
| 08/23/99 | 965 | 0 | 0.6 | 100000 | 0.6 | 08/23/99 | 965 | 0 | 0.56 | 100000 | 1.008 |
| 08/24/99 | 966 | 0 | 0.6 | 100000 | 0.6 | 08/24/99 | 966 | 0 | 0.588 | 100000 | 0.84 |
| 08/25/99 | 967 | 0 | 0.6 | 100000 | 0.6 | 08/25/99 | 967 | 0 | 0.644 | 100000 | 0.784 |
| 08/26/99 | 968 | 0 | 0.6 | 100000 | 0.6 | 08/26/99 | 968 | 0 | 0.532 | 100000 | 0.728 |
| 08/27/99 | 969 | 0 | 0.6 | 100000 | 0.6 | 08/27/99 | 969 | 0 | 0.504 | 100000 | 0.896 |
| 08/28/99 | 970 | 0 | 0.6 | 100000 | 0.6 | 08/28/99 | 970 | 0 | 0.504 | 100000 | 0.896 |
| 08/29/99 | 971 | 0 | 0.6 | 100000 | 0.6 | 08/29/99 | 971 | 0 | 0.616 | 100000 | 0.896 |
| 08/30/99 | 972 | 0 | 0.6 | 100000 | 0.6 | 08/30/99 | 972 | 0 | 0.588 | 100000 | 0.812 |
| 08/31/99 | 973 | 0 | 0.6 | 100000 | 0.6 | 08/31/99 | 973 | 0 | 0.616 | 100000 | 0.84 |
| 09/01/99 | 974 | 0.1016 | 0.6 | 100000 | 0.6 | 09/01/99 | 974 | 0 | 0.56 | 100000 | 0.616 |
| 09/02/99 | 975 | 0.2032 | 0.6 | 100000 | 0.6 | 09/02/99 | 975 | 0 | 0.672 | 100000 | 0.672 |
| 09/03/99 | 976 | 0 | 0.6 | 100000 | 0.6 | 09/03/99 | 976 | 0 | 0.588 | 100000 | 0.476 |
| 09/04/99 | 977 | 0 | 0.6 | 100000 | 0.6 | 09/04/99 | 977 | 0 | 0.532 | 100000 | 0.812 |
| 09/05/99 | 978 | 0 | 0.6 | 100000 | 0.6 | 09/05/99 | 978 | 0 | 0.532 | 100000 | 0.868 |
| 09/06/99 | 979 | 0 | 0.6 | 100000 | 0.6 | 09/06/99 | 979 | 0 | 0.448 | 100000 | 0.588 |
| 09/07/99 | 980 | 0 | 0.6 | 100000 | 0.6 | 09/07/99 | 980 | 0 | 0.476 | 100000 | 0.784 |
| 09/08/99 | 981 | 0 | 0.6 | 100000 | 0.6 | 09/08/99 | 981 | 0 | 0.448 | 100000 | 0.868 |
| 09/09/99 | 982 | 0 | 0.6 | 100000 | 0.6 | 09/09/99 | 982 | 0 | 0.476 | 100000 | 0.616 |
| 09/10/99 | 983 | 0 | 0.6 | 100000 | 0.6 | 09/10/99 | 983 | 0 | 0.42 | 100000 | 0.588 |
| 09/11/99 | 984 | 0 | 0.6 | 100000 | 0.6 | 09/11/99 | 984 | 0 | 0.392 | 100000 | 0.924 |

| | | | | | |
|----------|-----|---|-----|--------|-----|
| 09/12/99 | 985 | 0 | 0.6 | 100000 | 0.6 |
| 09/13/99 | 986 | 0 | 0.6 | 100000 | 0.6 |

| | | | | | |
|----------|-----|---|-------|--------|-------|
| 09/12/99 | 985 | 0 | 0.392 | 100000 | 0.896 |
| 09/13/99 | 986 | 0 | 0.364 | 100000 | 0.476 |

Appendix A.2. Clay Model Initial Conditions and Profile Discretization

INITIAL CONDITIONS AND CLAY PROFILES

| CLAY1M1M | | | CLAY1M30CM | | | CLAY1M3M | | | CLAY1MTOP | | | CLAY1MBOTTOM | | | CLAY1MFLAT | | |
|----------|--------|--------|------------|--------|--------|----------|--------|--------|-----------|--------|--------|--------------|--------|--------|------------|--------|--------|
| Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) |
| 0 | -200 | 0.1 | 0 | -250 | 0 | 0 | -200 | 0 | 0 | -350 | 0.5 | 0 | -200 | 0 | 0 | -200 | 0 |
| 0.1 | -200.5 | 0.125 | 0.1 | -251 | 0.05 | 0.1 | -200.3 | 0.01 | 0.1 | -349.5 | 0.75 | 0.1 | -200.3 | 0.001 | 0.1 | -200 | 0.5 |
| 0.2 | -201 | 0.15 | 0.2 | -252 | 0.1 | 0.2 | -200.5 | 0.02 | 0.2 | -349 | 1 | 0.2 | -200.5 | 0.002 | 0.2 | -200 | 0.5 |
| 0.3 | -201.5 | 0.175 | 0.3 | -253 | 0.15 | 0.3 | -200.8 | 0.03 | 0.3 | -348.5 | 1 | 0.3 | -200.8 | 0.003 | 0.3 | -200 | 0.5 |
| 0.4 | -202 | 0.2 | 0.4 | -254 | 0.2 | 0.4 | -201 | 0.04 | 0.4 | -348 | 1 | 0.4 | -201 | 0.004 | 0.4 | -200 | 0.5 |
| 0.5 | -202.5 | 0.225 | 0.5 | -255 | 0.25 | 0.5 | -201.3 | 0.05 | 0.5 | -347.5 | 1 | 0.5 | -201.3 | 0.005 | 0.5 | -200 | 0.5 |
| 0.6 | -203 | 0.25 | 0.6 | -256 | 0.3 | 0.6 | -201.5 | 0.06 | 0.6 | -347 | 1 | 0.6 | -201.5 | 0.006 | 0.6 | -200 | 0.5 |
| 0.7 | -203.5 | 0.275 | 0.7 | -257 | 0.35 | 0.7 | -201.8 | 0.07 | 0.7 | -346.5 | 1 | 0.7 | -201.8 | 0.007 | 0.7 | -200 | 0.5 |
| 0.8 | -204 | 0.3 | 0.8 | -258 | 0.4 | 0.8 | -202 | 0.08 | 0.8 | -346 | 1 | 0.8 | -202 | 0.008 | 0.8 | -200 | 0.5 |
| 0.9 | -204.5 | 0.325 | 0.9 | -259 | 0.425 | 0.9 | -202.3 | 0.09 | 0.9 | -345.5 | 1 | 0.9 | -202.3 | 0.009 | 0.9 | -200 | 0.5 |
| 1 | -205 | 0.35 | 1 | -260 | 0.45 | 1 | -202.5 | 0.1 | 1 | -345 | 0.99 | 1 | -202.5 | 0.01 | 1 | -200 | 0.5 |
| 2 | -210 | 0.4 | 2 | -270 | 0.7 | 2 | -205 | 0.15 | 2 | -342.5 | 0.98 | 2 | -205 | 0.02 | 2 | -199 | 0.5 |
| 3 | -215 | 0.45 | 3 | -280 | 0.95 | 3 | -207.5 | 0.2 | 3 | -340 | 0.97 | 3 | -207.5 | 0.03 | 3 | -198 | 0.5 |
| 4 | -220 | 0.5 | 4 | -290 | 1 | 4 | -210 | 0.25 | 4 | -337.5 | 0.96 | 4 | -210 | 0.04 | 4 | -197 | 0.5 |
| 5 | -225 | 0.55 | 5 | -300 | 1 | 5 | -212.5 | 0.3 | 5 | -335 | 0.95 | 5 | -212.5 | 0.05 | 5 | -196 | 0.5 |
| 6 | -230 | 0.6 | 6 | -310 | 1 | 6 | -215 | 0.35 | 6 | -332.5 | 0.94 | 6 | -215 | 0.06 | 6 | -194 | 0.5 |
| 7 | -235 | 0.65 | 7 | -320 | 1 | 7 | -217.5 | 0.4 | 7 | -330 | 0.93 | 7 | -217.5 | 0.07 | 7 | -192 | 0.5 |
| 8 | -240 | 0.7 | 8 | -330 | 1 | 8 | -220 | 0.45 | 8 | -327.5 | 0.92 | 8 | -220 | 0.08 | 8 | -190 | 0.5 |
| 9 | -245 | 0.75 | 9 | -340 | 1 | 9 | -222.5 | 0.5 | 9 | -325 | 0.91 | 9 | -222.5 | 0.09 | 9 | -188 | 0.5 |
| 10 | -250 | 0.8 | 10 | -350 | 1 | 10 | -225 | 0.55 | 10 | -322.5 | 0.9 | 10 | -225 | 0.1 | 10 | -186 | 0.5 |
| 11 | -255 | 0.85 | 11 | -349 | 0.9 | 11 | -227.5 | 0.6 | 11 | -320 | 0.89 | 11 | -227.5 | 0.11 | 11 | -184 | 0.5 |
| 12 | -260 | 0.9 | 12 | -348 | 0.8 | 12 | -230 | 0.65 | 12 | -317.5 | 0.88 | 12 | -230 | 0.12 | 12 | -182 | 0.5 |
| 13 | -265 | 0.95 | 13 | -347 | 0.7 | 13 | -232.5 | 0.675 | 13 | -315 | 0.87 | 13 | -232.5 | 0.13 | 13 | -180 | 0.5 |
| 14 | -270 | 1 | 14 | -346 | 0.6 | 14 | -235 | 0.7 | 14 | -312.5 | 0.86 | 14 | -235 | 0.14 | 14 | -178 | 0.5 |
| 15 | -275 | 1 | 15 | -345 | 0.5 | 15 | -237.5 | 0.725 | 15 | -310 | 0.85 | 15 | -237.5 | 0.15 | 15 | -176 | 0.5 |
| 16 | -280 | 1 | 16 | -340 | 0.45 | 16 | -240 | 0.75 | 16 | -307.5 | 0.84 | 16 | -240 | 0.16 | 16 | -174 | 0.5 |
| 17 | -285 | 1 | 17 | -335 | 0.4 | 17 | -242.5 | 0.775 | 17 | -305 | 0.83 | 17 | -242.5 | 0.17 | 17 | -172 | 0.5 |
| 18 | -290 | 1 | 18 | -330 | 0.35 | 18 | -245 | 0.8 | 18 | -302.5 | 0.82 | 18 | -245 | 0.18 | 18 | -170 | 0.5 |
| 19 | -295 | 1 | 19 | -325 | 0.3 | 19 | -247.5 | 0.825 | 19 | -300 | 0.81 | 19 | -247.5 | 0.19 | 19 | -165 | 0.5 |
| 20 | -300 | 1 | 20 | -320 | 0.25 | 20 | -250 | 0.85 | 20 | -297.5 | 0.8 | 20 | -250 | 0.2 | 20 | -160 | 0.5 |
| 21 | -305 | 1 | 21 | -315 | 0.2 | 21 | -252.5 | 0.875 | 21 | -295 | 0.79 | 21 | -252.5 | 0.21 | 21 | -155 | 0.5 |
| 22 | -310 | 1 | 22 | -310 | 0.175 | 22 | -255 | 0.9 | 22 | -292.5 | 0.78 | 22 | -255 | 0.22 | 22 | -150 | 0.5 |
| 23 | -315 | 1 | 23 | -305 | 0.15 | 23 | -260 | 0.92 | 23 | -290 | 0.77 | 23 | -260 | 0.23 | 23 | -145 | 0.5 |
| 24 | -320 | 1 | 24 | -300 | 0.125 | 24 | -265 | 0.94 | 24 | -287.5 | 0.76 | 24 | -265 | 0.24 | 24 | -140 | 0.5 |
| 25 | -325 | 1 | 25 | -295 | 0.1 | 25 | -270 | 0.96 | 25 | -285 | 0.75 | 25 | -270 | 0.25 | 25 | -138 | 0.5 |
| 26 | -330 | 1 | 26 | -290 | 0.075 | 26 | -275 | 0.98 | 26 | -282.5 | 0.74 | 26 | -275 | 0.26 | 26 | -136 | 0.5 |
| 27 | -335 | 1 | 27 | -285 | 0.05 | 27 | -280 | 1 | 27 | -280 | 0.73 | 27 | -280 | 0.27 | 27 | -134 | 0.5 |
| 28 | -340 | 1 | 28 | -280 | 0.025 | 28 | -285 | 1 | 28 | -277.5 | 0.72 | 28 | -285 | 0.28 | 28 | -132 | 0.5 |
| 29 | -345 | 1 | 29 | -275 | 0.01 | 29 | -290 | 1 | 29 | -275 | 0.71 | 29 | -290 | 0.29 | 29 | -130 | 0.5 |
| 30 | -350 | 1 | 30 | -270 | 0.001 | 30 | -295 | 1 | 30 | -270 | 0.7 | 30 | -295 | 0.3 | 30 | -128 | 0.5 |
| 31 | -349 | 0.99 | 31 | -265 | 0 | 31 | -300 | 1 | 31 | -265 | 0.69 | 31 | -300 | 0.31 | 31 | -126 | 0.5 |
| 32 | -348 | 0.98 | 32 | -260 | 0 | 32 | -305 | 1 | 32 | -260 | 0.68 | 32 | -305 | 0.32 | 32 | -124 | 0.5 |
| 33 | -347 | 0.97 | 33 | -255 | 0 | 33 | -310 | 1 | 33 | -255 | 0.67 | 33 | -310 | 0.33 | 33 | -122 | 0.5 |
| 34 | -346 | 0.96 | 34 | -250 | 0 | 34 | -312 | 1 | 34 | -250 | 0.66 | 34 | -312 | 0.34 | 34 | -120 | 0.5 |
| 35 | -345 | 0.95 | 35 | -245 | 0 | 35 | -314 | 1 | 35 | -245 | 0.65 | 35 | -314 | 0.35 | 35 | -118 | 0.5 |
| 36 | -344 | 0.94 | 36 | -240 | 0 | 36 | -316 | 1 | 36 | -240 | 0.64 | 36 | -316 | 0.36 | 36 | -116 | 0.5 |
| 37 | -342 | 0.93 | 37 | -235 | 0 | 37 | -318 | 1 | 37 | -235 | 0.63 | 37 | -318 | 0.37 | 37 | -114 | 0.5 |
| 38 | -340 | 0.92 | 38 | -230 | 0 | 38 | -320 | 1 | 38 | -230 | 0.62 | 38 | -320 | 0.38 | 38 | -112 | 0.5 |
| 39 | -338 | 0.91 | 39 | -225 | 0 | 39 | -321 | 1 | 39 | -225 | 0.61 | 39 | -321 | 0.39 | 39 | -110 | 0.5 |
| 40 | -336 | 0.9 | 40 | -220 | 0 | 40 | -322 | 1 | 40 | -220 | 0.6 | 40 | -322 | 0.4 | 40 | -108 | 0.5 |
| 41 | -334 | 0.88 | 41 | -215 | 0 | 41 | -323 | 1 | 41 | -215 | 0.59 | 41 | -323 | 0.41 | 41 | -106 | 0.5 |
| 42 | -332 | 0.86 | 42 | -210 | 0 | 42 | -324 | 1 | 42 | -210 | 0.58 | 42 | -324 | 0.42 | 42 | -104 | 0.5 |
| 43 | -330 | 0.84 | 43 | -205 | 0 | 43 | -325 | 1 | 43 | -205 | 0.57 | 43 | -325 | 0.43 | 43 | -102 | 0.5 |
| 44 | -325 | 0.82 | 44 | -200 | 0 | 44 | -325 | 1 | 44 | -200 | 0.56 | 44 | -325 | 0.44 | 44 | -100 | 0.5 |
| 45 | -320 | 0.8 | 45 | -195 | 0 | 45 | -325 | 1 | 45 | -195 | 0.55 | 45 | -325 | 0.45 | 45 | -98 | 0.5 |
| 46 | -315 | 0.78 | 46 | -190 | 0 | 46 | -325 | 1 | 46 | -190 | 0.54 | 46 | -325 | 0.46 | 46 | -96 | 0.5 |
| 47 | -310 | 0.76 | 47 | -185 | 0 | 47 | -325 | 1 | 47 | -185 | 0.53 | 47 | -325 | 0.47 | 47 | -94 | 0.5 |
| 48 | -305 | 0.74 | 48 | -180 | 0 | 48 | -325 | 1 | 48 | -180 | 0.52 | 48 | -325 | 0.48 | 48 | -92 | 0.5 |
| 49 | -300 | 0.72 | 49 | -175 | 0 | 49 | -325 | 1 | 49 | -175 | 0.51 | 49 | -325 | 0.49 | 49 | -90 | 0.5 |
| 50 | -290 | 0.7 | 50 | -170 | 0 | 50 | -325 | 1 | 50 | -170 | 0.5 | 50 | -325 | 0.5 | 50 | -88 | 0.5 |
| 51 | -280 | 0.68 | 51 | -165 | 0 | 51 | -324 | 0.99 | 51 | -165 | 0.49 | 51 | -324 | 0.51 | 51 | -86 | 0.5 |

| | | | | | | | | | | | | | | | | | | |
|-----|------|-------|-----|------|---|-----|------|-------|-----|------|-------|-----|------|------|-----|------|------|------|
| 52 | -270 | 0.68 | 52 | -180 | 0 | 52 | -323 | 0.98 | 52 | -160 | 0.48 | 52 | -323 | 0.52 | 52 | -84 | 0.5 | A-18 |
| 53 | -260 | 0.64 | 53 | -155 | 0 | 53 | -322 | 0.97 | 53 | -155 | 0.47 | 53 | -322 | 0.53 | 53 | -82 | 0.5 | |
| 54 | -250 | 0.62 | 54 | -150 | 0 | 54 | -321 | 0.96 | 54 | -150 | 0.46 | 54 | -321 | 0.54 | 54 | -80 | 0.5 | |
| 55 | -240 | 0.6 | 55 | -145 | 0 | 55 | -320 | 0.95 | 55 | -145 | 0.45 | 55 | -320 | 0.55 | 55 | -78 | 0.5 | |
| 56 | -230 | 0.58 | 56 | -140 | 0 | 56 | -318 | 0.94 | 56 | -140 | 0.44 | 56 | -318 | 0.56 | 56 | -76 | 0.5 | |
| 57 | -220 | 0.56 | 57 | -135 | 0 | 57 | -316 | 0.93 | 57 | -135 | 0.43 | 57 | -316 | 0.57 | 57 | -74 | 0.5 | |
| 58 | -210 | 0.54 | 58 | -130 | 0 | 58 | -314 | 0.92 | 58 | -130 | 0.42 | 58 | -314 | 0.58 | 58 | -72 | 0.5 | |
| 59 | -200 | 0.52 | 59 | -125 | 0 | 59 | -312 | 0.91 | 59 | -125 | 0.41 | 59 | -312 | 0.59 | 59 | -70 | 0.5 | |
| 60 | -190 | 0.5 | 60 | -120 | 0 | 60 | -310 | 0.9 | 60 | -120 | 0.4 | 60 | -310 | 0.6 | 60 | -68 | 0.5 | |
| 61 | -180 | 0.475 | 61 | -115 | 0 | 61 | -305 | 0.88 | 61 | -115 | 0.39 | 61 | -305 | 0.61 | 61 | -66 | 0.5 | |
| 62 | -170 | 0.45 | 62 | -110 | 0 | 62 | -300 | 0.86 | 62 | -110 | 0.38 | 62 | -300 | 0.62 | 62 | -64 | 0.5 | |
| 63 | -160 | 0.425 | 63 | -105 | 0 | 63 | -295 | 0.84 | 63 | -105 | 0.37 | 63 | -295 | 0.63 | 63 | -62 | 0.5 | |
| 64 | -150 | 0.4 | 64 | -100 | 0 | 64 | -290 | 0.82 | 64 | -100 | 0.36 | 64 | -290 | 0.64 | 64 | -60 | 0.5 | |
| 65 | -140 | 0.375 | 65 | -95 | 0 | 65 | -280 | 0.8 | 65 | -95 | 0.35 | 65 | -280 | 0.65 | 65 | -58 | 0.5 | |
| 66 | -130 | 0.35 | 66 | -90 | 0 | 66 | -270 | 0.78 | 66 | -90 | 0.34 | 66 | -270 | 0.66 | 66 | -56 | 0.5 | |
| 67 | -120 | 0.325 | 67 | -85 | 0 | 67 | -260 | 0.76 | 67 | -85 | 0.33 | 67 | -260 | 0.67 | 67 | -54 | 0.5 | |
| 68 | -110 | 0.3 | 68 | -80 | 0 | 68 | -250 | 0.74 | 68 | -80 | 0.32 | 68 | -250 | 0.68 | 68 | -52 | 0.5 | |
| 69 | -100 | 0.275 | 69 | -75 | 0 | 69 | -240 | 0.72 | 69 | -75 | 0.31 | 69 | -240 | 0.69 | 69 | -50 | 0.5 | |
| 70 | -90 | 0.25 | 70 | -70 | 0 | 70 | -230 | 0.7 | 70 | -70 | 0.3 | 70 | -230 | 0.7 | 70 | -48 | 0.5 | |
| 71 | -80 | 0.23 | 71 | -65 | 0 | 71 | -220 | 0.68 | 71 | -65 | 0.29 | 71 | -220 | 0.71 | 71 | -46 | 0.5 | |
| 72 | -75 | 0.21 | 72 | -60 | 0 | 72 | -210 | 0.66 | 72 | -60 | 0.28 | 72 | -210 | 0.72 | 72 | -44 | 0.5 | |
| 73 | -70 | 0.19 | 73 | -55 | 0 | 73 | -200 | 0.64 | 73 | -55 | 0.27 | 73 | -200 | 0.73 | 73 | -42 | 0.5 | |
| 74 | -65 | 0.17 | 74 | -50 | 0 | 74 | -190 | 0.62 | 74 | -50 | 0.26 | 74 | -190 | 0.74 | 74 | -40 | 0.5 | |
| 75 | -60 | 0.15 | 75 | -45 | 0 | 75 | -180 | 0.6 | 75 | -45 | 0.25 | 75 | -180 | 0.75 | 75 | -38 | 0.5 | |
| 76 | -55 | 0.14 | 76 | -40 | 0 | 76 | -170 | 0.59 | 76 | -40 | 0.24 | 76 | -170 | 0.76 | 76 | -36 | 0.5 | |
| 77 | -50 | 0.13 | 77 | -35 | 0 | 77 | -160 | 0.58 | 77 | -35 | 0.23 | 77 | -160 | 0.77 | 77 | -34 | 0.5 | |
| 78 | -45 | 0.12 | 78 | -33 | 0 | 78 | -150 | 0.57 | 78 | -33 | 0.22 | 78 | -150 | 0.78 | 78 | -32 | 0.5 | |
| 79 | -40 | 0.11 | 79 | -31 | 0 | 79 | -140 | 0.56 | 79 | -31 | 0.21 | 79 | -140 | 0.79 | 79 | -30 | 0.5 | |
| 80 | -35 | 0.1 | 80 | -29 | 0 | 80 | -130 | 0.55 | 80 | -29 | 0.2 | 80 | -130 | 0.8 | 80 | -28 | 0.5 | |
| 81 | -30 | 0.095 | 81 | -27 | 0 | 81 | -120 | 0.54 | 81 | -27 | 0.19 | 81 | -120 | 0.81 | 81 | -26 | 0.5 | |
| 82 | -28 | 0.09 | 82 | -25 | 0 | 82 | -110 | 0.53 | 82 | -25 | 0.18 | 82 | -110 | 0.82 | 82 | -24 | 0.5 | |
| 83 | -26 | 0.085 | 83 | -23 | 0 | 83 | -100 | 0.52 | 83 | -23 | 0.17 | 83 | -100 | 0.83 | 83 | -26 | 0.5 | |
| 84 | -24 | 0.08 | 84 | -21 | 0 | 84 | -90 | 0.51 | 84 | -21 | 0.16 | 84 | -90 | 0.84 | 84 | -24 | 0.5 | |
| 85 | -22 | 0.075 | 85 | -19 | 0 | 85 | -80 | 0.5 | 85 | -19 | 0.15 | 85 | -80 | 0.85 | 85 | -22 | 0.5 | |
| 86 | -20 | 0.07 | 86 | -17 | 0 | 86 | -70 | 0.49 | 86 | -17 | 0.14 | 86 | -70 | 0.86 | 86 | -20 | 0.5 | |
| 87 | -18 | 0.065 | 87 | -15 | 0 | 87 | -60 | 0.48 | 87 | -15 | 0.13 | 87 | -60 | 0.87 | 87 | -18 | 0.5 | |
| 88 | -16 | 0.06 | 88 | -13 | 0 | 88 | -50 | 0.47 | 88 | -13 | 0.12 | 88 | -50 | 0.88 | 88 | -16 | 0.5 | |
| 89 | -14 | 0.055 | 89 | -11 | 0 | 89 | -40 | 0.46 | 89 | -11 | 0.11 | 89 | -40 | 0.89 | 89 | -14 | 0.5 | |
| 90 | -12 | 0.05 | 90 | -9 | 0 | 90 | -35 | 0.45 | 90 | -9 | 0.1 | 90 | -35 | 0.9 | 90 | -12 | 0.5 | |
| 91 | -10 | 0.045 | 91 | -7 | 0 | 91 | -30 | 0.44 | 91 | -7 | 0.09 | 91 | -30 | 0.91 | 91 | -10 | 0.5 | |
| 92 | -8 | 0.04 | 92 | -6 | 0 | 92 | -25 | 0.43 | 92 | -6 | 0.08 | 92 | -25 | 0.92 | 92 | -8 | 0.5 | |
| 93 | -6 | 0.035 | 93 | -5 | 0 | 93 | -20 | 0.42 | 93 | -5 | 0.07 | 93 | -20 | 0.93 | 93 | -6 | 0.5 | |
| 94 | -4 | 0.03 | 94 | -4 | 0 | 94 | -15 | 0.41 | 94 | -4 | 0.06 | 94 | -15 | 0.94 | 94 | -4 | 0.5 | |
| 95 | -3 | 0.025 | 95 | -3 | 0 | 95 | -10 | 0.4 | 95 | -3 | 0.05 | 95 | -10 | 0.95 | 95 | -3 | 0.5 | |
| 96 | -2 | 0.02 | 96 | -2 | 0 | 96 | -5 | 0.395 | 96 | -2 | 0.04 | 96 | -5 | 0.96 | 96 | -2 | 0.5 | |
| 97 | -1 | 0.015 | 97 | -1 | 0 | 97 | -2 | 0.39 | 97 | -1 | 0.03 | 97 | -2 | 0.97 | 97 | -1 | 0.5 | |
| 98 | -0.5 | 0.01 | 98 | -0.5 | 0 | 98 | -1 | 0.385 | 98 | -0.5 | 0.02 | 98 | -1 | 0.98 | 98 | -0.5 | 0.5 | |
| 99 | -0.1 | 0.005 | 99 | -0.1 | 0 | 99 | -0.2 | 0.38 | 99 | -0.1 | 0.01 | 99 | -0.2 | 0.99 | 99 | -0.1 | 0.5 | |
| 100 | 0 | 0 | 100 | 0 | 0 | 100 | 0 | 0.375 | 100 | 0 | 0.001 | 100 | 0 | 1 | 100 | 0 | 0.1 | |
| 101 | 1 | 0 | 101 | 1 | 0 | 101 | 1 | 0.37 | 101 | 1 | 0 | 101 | 1 | 0.9 | 101 | 1 | 0.01 | |
| 102 | 2 | 0 | 102 | 2 | 0 | 102 | 2 | 0.365 | 102 | 2 | 0 | 102 | 2 | 0.7 | 102 | 2 | 0 | |
| 103 | 3 | 0 | 103 | 3 | 0 | 103 | 3 | 0.36 | 103 | 3 | 0 | 103 | 3 | 0.5 | 103 | 3 | 0 | |
| 104 | 4 | 0 | 104 | 4 | 0 | 104 | 4 | 0.355 | 104 | 4 | 0 | 104 | 4 | 0.2 | 104 | 4 | 0 | |
| 105 | 5 | 0 | 105 | 5 | 0 | 105 | 5 | 0.35 | 105 | 5 | 0 | 105 | 5 | 0.1 | 105 | 5 | 0 | |
| 106 | 6 | 0 | 106 | 6 | 0 | 106 | 6 | 0.345 | 106 | 6 | 0 | 106 | 6 | 0.01 | 106 | 6 | 0 | |
| 107 | 7 | 0 | 107 | 7 | 0 | 107 | 7 | 0.34 | 107 | 7 | 0 | 107 | 7 | 0 | 107 | 7 | 0 | |
| 108 | 8 | 0 | 108 | 8 | 0 | 108 | 8 | 0.335 | 108 | 8 | 0 | 108 | 8 | 0 | 108 | 8 | 0 | |
| 109 | 9 | 0 | 109 | 9 | 0 | 109 | 9 | 0.33 | 109 | 9 | 0 | 109 | 9 | 0 | 109 | 9 | 0 | |
| 110 | 10 | 0 | 110 | 10 | 0 | 110 | 10 | 0.325 | 110 | 10 | 0 | 110 | 10 | 0 | 110 | 10 | 0 | |
| 111 | 11 | 0 | 111 | 11 | 0 | 111 | 11 | 0.32 | 111 | 11 | 0 | 111 | 11 | 0 | 111 | 11 | 0 | |
| 112 | 12 | 0 | 112 | 12 | 0 | 112 | 12 | 0.315 | 112 | 12 | 0 | 112 | 12 | 0 | 112 | 12 | 0 | |
| 113 | 13 | 0 | 113 | 13 | 0 | 113 | 13 | 0.31 | 113 | 13 | 0 | 113 | 13 | 0 | 113 | 13 | 0 | |
| 114 | 14 | 0 | 114 | 14 | 0 | 114 | 14 | 0.305 | 114 | 14 | 0 | 114 | 14 | 0 | 114 | 14 | 0 | |
| 115 | 15 | 0 | 115 | 15 | 0 | 115 | 15 | 0.3 | 115 | 15 | 0 | 115 | 15 | 0 | 115 | 15 | 0 | |
| 116 | 16 | 0 | 116 | 16 | 0 | 116 | 16 | 0.295 | 116 | 16 | 0 | 116 | 16 | 0 | 116 | 16 | 0.5 | |
| 117 | 17 | 0 | 117 | 17 | 0 | 117 | 17 | 0.29 | 117 | 17 | 0 | 117 | 17 | 0 | 117 | 17 | 0.5 | |

| | | | | | | | | | | | | | | | | | | |
|-----|----|---|-----|----|---|-----|----|-------|-----|----|---|-----|----|---|-----|----|-----|------|
| 118 | 18 | 0 | 118 | 18 | 0 | 118 | 18 | 0.285 | 118 | 18 | 0 | 118 | 18 | 0 | 118 | 18 | 0.5 | A-19 |
| 119 | 19 | 0 | 119 | 19 | 0 | 119 | 19 | 0.28 | 119 | 19 | 0 | 119 | 19 | 0 | 119 | 19 | 0.5 | |
| 120 | 20 | 0 | 120 | 20 | 0 | 120 | 20 | 0.275 | 120 | 20 | 0 | 120 | 20 | 0 | 120 | 20 | 0.5 | |
| 121 | 21 | 0 | 121 | 21 | 0 | 121 | 21 | 0.27 | 121 | 21 | 0 | 121 | 21 | 0 | 121 | 21 | 0.5 | |
| 122 | 22 | 0 | 122 | 22 | 0 | 122 | 22 | 0.265 | 122 | 22 | 0 | 122 | 22 | 0 | 122 | 22 | 0.5 | |
| 123 | 23 | 0 | 123 | 23 | 0 | 123 | 23 | 0.26 | 123 | 23 | 0 | 123 | 23 | 0 | 123 | 23 | 0.5 | |
| 124 | 24 | 0 | 124 | 24 | 0 | 124 | 24 | 0.255 | 124 | 24 | 0 | 124 | 24 | 0 | 124 | 24 | 0.5 | |
| 125 | 25 | 0 | 125 | 25 | 0 | 125 | 25 | 0.25 | 125 | 25 | 0 | 125 | 25 | 0 | 125 | 25 | 0.5 | |
| 126 | 26 | 0 | 126 | 26 | 0 | 126 | 26 | 0.249 | 126 | 26 | 0 | 126 | 26 | 0 | 126 | 26 | 0.5 | |
| 127 | 27 | 0 | 127 | 27 | 0 | 127 | 27 | 0.248 | 127 | 27 | 0 | 127 | 27 | 0 | 127 | 27 | 0.5 | |
| 128 | 28 | 0 | 128 | 28 | 0 | 128 | 28 | 0.247 | 128 | 28 | 0 | 128 | 28 | 0 | 128 | 28 | 0.5 | |
| 129 | 29 | 0 | 129 | 29 | 0 | 129 | 29 | 0.246 | 129 | 29 | 0 | 129 | 29 | 0 | 129 | 29 | 0.5 | |
| 130 | 30 | 0 | 130 | 30 | 0 | 130 | 30 | 0.245 | 130 | 30 | 0 | 130 | 30 | 0 | 130 | 30 | 0.5 | |
| 131 | 31 | 0 | 131 | 31 | 0 | 131 | 31 | 0.244 | 131 | 31 | 0 | 131 | 31 | 0 | 131 | 31 | 0.5 | |
| 132 | 32 | 0 | 132 | 32 | 0 | 132 | 32 | 0.243 | 132 | 32 | 0 | 132 | 32 | 0 | 132 | 32 | 0.5 | |
| 133 | 33 | 0 | 133 | 33 | 0 | 133 | 33 | 0.242 | 133 | 33 | 0 | 133 | 33 | 0 | 133 | 33 | 0.5 | |
| 134 | 34 | 0 | 134 | 34 | 0 | 134 | 34 | 0.241 | 134 | 34 | 0 | 134 | 34 | 0 | 134 | 34 | 0.5 | |
| 135 | 35 | 0 | 135 | 35 | 0 | 135 | 35 | 0.24 | 135 | 35 | 0 | 135 | 35 | 0 | 135 | 35 | 0.5 | |
| 136 | 36 | 0 | 136 | 36 | 0 | 136 | 36 | 0.239 | 136 | 36 | 0 | 136 | 36 | 0 | 136 | 36 | 0.5 | |
| 137 | 37 | 0 | 137 | 37 | 0 | 137 | 37 | 0.238 | 137 | 37 | 0 | 137 | 37 | 0 | 137 | 37 | 0.5 | |
| 138 | 38 | 0 | 138 | 38 | 0 | 138 | 38 | 0.237 | 138 | 38 | 0 | 138 | 38 | 0 | 138 | 38 | 0.5 | |
| 139 | 39 | 0 | 139 | 39 | 0 | 139 | 39 | 0.236 | 139 | 39 | 0 | 139 | 39 | 0 | 139 | 39 | 0.5 | |
| 140 | 40 | 0 | 140 | 40 | 0 | 140 | 40 | 0.235 | 140 | 40 | 0 | 140 | 40 | 0 | 140 | 40 | 0.5 | |
| 141 | 41 | 0 | 141 | 41 | 0 | 141 | 41 | 0.234 | 141 | 41 | 0 | 141 | 41 | 0 | 141 | 41 | 0.5 | |
| 142 | 42 | 0 | 142 | 42 | 0 | 142 | 42 | 0.233 | 142 | 42 | 0 | 142 | 42 | 0 | 142 | 42 | 0.5 | |
| 143 | 43 | 0 | 143 | 43 | 0 | 143 | 43 | 0.232 | 143 | 43 | 0 | 143 | 43 | 0 | 143 | 43 | 0.5 | |
| 144 | 44 | 0 | 144 | 44 | 0 | 144 | 44 | 0.231 | 144 | 44 | 0 | 144 | 44 | 0 | 144 | 44 | 0.5 | |
| 145 | 45 | 0 | 145 | 45 | 0 | 145 | 45 | 0.23 | 145 | 45 | 0 | 145 | 45 | 0 | 145 | 45 | 0.5 | |
| 146 | 46 | 0 | 146 | 46 | 0 | 146 | 46 | 0.229 | 146 | 46 | 0 | 146 | 46 | 0 | 146 | 46 | 0.5 | |
| 147 | 47 | 0 | 147 | 47 | 0 | 147 | 47 | 0.228 | 147 | 47 | 0 | 147 | 47 | 0 | 147 | 47 | 0.5 | |
| 148 | 48 | 0 | 148 | 48 | 0 | 148 | 48 | 0.227 | 148 | 48 | 0 | 148 | 48 | 0 | 148 | 48 | 0.5 | |
| 149 | 49 | 0 | 149 | 49 | 0 | 149 | 49 | 0.226 | 149 | 49 | 0 | 149 | 49 | 0 | 149 | 49 | 0.5 | |
| 150 | 50 | 0 | 150 | 50 | 0 | 150 | 50 | 0.225 | 150 | 50 | 0 | 150 | 50 | 0 | 150 | 50 | 0.5 | |
| 151 | 51 | 0 | 151 | 51 | 0 | 151 | 51 | 0.224 | 151 | 51 | 0 | 151 | 51 | 0 | 151 | 51 | 0.5 | |
| 152 | 52 | 0 | 152 | 52 | 0 | 152 | 52 | 0.223 | 152 | 52 | 0 | 152 | 52 | 0 | 152 | 52 | 0.5 | |
| 153 | 53 | 0 | 153 | 53 | 0 | 153 | 53 | 0.222 | 153 | 53 | 0 | 153 | 53 | 0 | 153 | 53 | 0.5 | |
| 154 | 54 | 0 | 154 | 54 | 0 | 154 | 54 | 0.221 | 154 | 54 | 0 | 154 | 54 | 0 | 154 | 54 | 0.5 | |
| 155 | 55 | 0 | 155 | 55 | 0 | 155 | 55 | 0.22 | 155 | 55 | 0 | 155 | 55 | 0 | 155 | 55 | 0.5 | |
| 156 | 56 | 0 | 156 | 56 | 0 | 156 | 56 | 0.219 | 156 | 56 | 0 | 156 | 56 | 0 | 156 | 56 | 0.5 | |
| 157 | 57 | 0 | 157 | 57 | 0 | 157 | 57 | 0.218 | 157 | 57 | 0 | 157 | 57 | 0 | 157 | 57 | 0.5 | |
| 158 | 58 | 0 | 158 | 58 | 0 | 158 | 58 | 0.217 | 158 | 58 | 0 | 158 | 58 | 0 | 158 | 58 | 0.5 | |
| 159 | 59 | 0 | 159 | 59 | 0 | 159 | 59 | 0.216 | 159 | 59 | 0 | 159 | 59 | 0 | 159 | 59 | 0.5 | |
| 160 | 60 | 0 | 160 | 60 | 0 | 160 | 60 | 0.215 | 160 | 60 | 0 | 160 | 60 | 0 | 160 | 60 | 0.5 | |
| 161 | 61 | 0 | 161 | 61 | 0 | 161 | 61 | 0.214 | 161 | 61 | 0 | 161 | 61 | 0 | 161 | 61 | 0.5 | |
| 162 | 62 | 0 | 162 | 62 | 0 | 162 | 62 | 0.213 | 162 | 62 | 0 | 162 | 62 | 0 | 162 | 62 | 0.5 | |
| 163 | 63 | 0 | 163 | 63 | 0 | 163 | 63 | 0.212 | 163 | 63 | 0 | 163 | 63 | 0 | 163 | 63 | 0.5 | |
| 164 | 64 | 0 | 164 | 64 | 0 | 164 | 64 | 0.211 | 164 | 64 | 0 | 164 | 64 | 0 | 164 | 64 | 0.5 | |
| 165 | 65 | 0 | 165 | 65 | 0 | 165 | 65 | 0.21 | 165 | 65 | 0 | 165 | 65 | 0 | 165 | 65 | 0.5 | |
| 166 | 66 | 0 | 166 | 66 | 0 | 166 | 66 | 0.209 | 166 | 66 | 0 | 166 | 66 | 0 | 166 | 66 | 0.5 | |
| 167 | 67 | 0 | 167 | 67 | 0 | 167 | 67 | 0.208 | 167 | 67 | 0 | 167 | 67 | 0 | 167 | 67 | 0.5 | |
| 168 | 68 | 0 | 168 | 68 | 0 | 168 | 68 | 0.207 | 168 | 68 | 0 | 168 | 68 | 0 | 168 | 68 | 0.5 | |
| 169 | 69 | 0 | 169 | 69 | 0 | 169 | 69 | 0.206 | 169 | 69 | 0 | 169 | 69 | 0 | 169 | 69 | 0.5 | |
| 170 | 70 | 0 | 170 | 70 | 0 | 170 | 70 | 0.205 | 170 | 70 | 0 | 170 | 70 | 0 | 170 | 70 | 0.5 | |
| 171 | 71 | 0 | 171 | 71 | 0 | 171 | 71 | 0.204 | 171 | 71 | 0 | 171 | 71 | 0 | 171 | 71 | 0.5 | |
| 172 | 72 | 0 | 172 | 72 | 0 | 172 | 72 | 0.203 | 172 | 72 | 0 | 172 | 72 | 0 | 172 | 72 | 0.5 | |
| 173 | 73 | 0 | 173 | 73 | 0 | 173 | 73 | 0.202 | 173 | 73 | 0 | 173 | 73 | 0 | 173 | 73 | 0.5 | |
| 174 | 74 | 0 | 174 | 74 | 0 | 174 | 74 | 0.201 | 174 | 74 | 0 | 174 | 74 | 0 | 174 | 74 | 0.5 | |
| 175 | 75 | 0 | 175 | 75 | 0 | 175 | 75 | 0.2 | 175 | 75 | 0 | 175 | 75 | 0 | 175 | 75 | 0.5 | |
| 176 | 76 | 0 | 176 | 76 | 0 | 176 | 76 | 0.199 | 176 | 76 | 0 | 176 | 76 | 0 | 176 | 76 | 0.5 | |
| 177 | 77 | 0 | 177 | 77 | 0 | 177 | 77 | 0.198 | 177 | 77 | 0 | 177 | 77 | 0 | 177 | 77 | 0.5 | |
| 178 | 78 | 0 | 178 | 78 | 0 | 178 | 78 | 0.197 | 178 | 78 | 0 | 178 | 78 | 0 | 178 | 78 | 0.5 | |
| 179 | 79 | 0 | 179 | 79 | 0 | 179 | 79 | 0.196 | 179 | 79 | 0 | 179 | 79 | 0 | 179 | 79 | 0.5 | |
| 180 | 80 | 0 | 180 | 80 | 0 | 180 | 80 | 0.195 | 180 | 80 | 0 | 180 | 80 | 0 | 180 | 80 | 0.5 | |
| 181 | 81 | 0 | 181 | 81 | 0 | 181 | 81 | 0.194 | 181 | 81 | 0 | 181 | 81 | 0 | 181 | 81 | 0.5 | |
| 182 | 82 | 0 | 182 | 82 | 0 | 182 | 82 | 0.193 | 182 | 82 | 0 | 182 | 82 | 0 | 182 | 82 | 0.5 | |
| 183 | 83 | 0 | 183 | 83 | 0 | 183 | 83 | 0.192 | 183 | 83 | 0 | 183 | 83 | 0 | 183 | 83 | 0.5 | |

| CLAY2M1M | | | CLAY2M30CM | | | CLAY2M3M | | | CLAY2MTOP | | | CLAY2MBOTTOM | | | CLAY2M1FLAT | | |
|----------|--------|--------|------------|--------|--------|----------|--------|--------|-----------|--------|--------|--------------|--------|--------|-------------|--------|--------|
| Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) |
| 0 | -225 | 0 | 0 | -250 | 0 | 0 | -300 | 0 | 0 | -225 | 0.5 | 0 | -225 | 0 | 0 | -225 | 0 |
| 0.1 | -225.5 | 0.125 | 0.1 | -251 | 0.05 | 0.1 | -300.3 | 0.01 | 0.1 | -225.5 | 0.75 | 0.1 | -225.5 | 0.001 | 0.1 | -225.5 | 0.5 |
| 0.2 | -226 | 0.15 | 0.2 | -252 | 0.1 | 0.2 | -300.5 | 0.02 | 0.2 | -226 | 1 | 0.2 | -226 | 0.002 | 0.2 | -226 | 0.5 |
| 0.3 | -226.5 | 0.175 | 0.3 | -253 | 0.15 | 0.3 | -300.8 | 0.03 | 0.3 | -226.5 | 1 | 0.3 | -226.5 | 0.003 | 0.3 | -226.5 | 0.5 |
| 0.4 | -227 | 0.2 | 0.4 | -254 | 0.2 | 0.4 | -301 | 0.04 | 0.4 | -227 | 1 | 0.4 | -227 | 0.004 | 0.4 | -227 | 0.5 |
| 0.5 | -227.5 | 0.225 | 0.5 | -255 | 0.25 | 0.5 | -301.3 | 0.05 | 0.5 | -227.5 | 1 | 0.5 | -227.5 | 0.005 | 0.5 | -227.5 | 0.5 |
| 0.6 | -228 | 0.25 | 0.6 | -256 | 0.3 | 0.6 | -301.5 | 0.06 | 0.6 | -228 | 1 | 0.6 | -228 | 0.006 | 0.6 | -228 | 0.5 |
| 0.7 | -228.5 | 0.275 | 0.7 | -257 | 0.35 | 0.7 | -301.8 | 0.07 | 0.7 | -228.5 | 1 | 0.7 | -228.5 | 0.007 | 0.7 | -228.5 | 0.5 |
| 0.8 | -229 | 0.3 | 0.8 | -258 | 0.4 | 0.8 | -302 | 0.08 | 0.8 | -229 | 1 | 0.8 | -229 | 0.008 | 0.8 | -229 | 0.5 |
| 0.9 | -229.5 | 0.325 | 0.9 | -259 | 0.425 | 0.9 | -302.3 | 0.09 | 0.9 | -229.5 | 1 | 0.9 | -229.5 | 0.009 | 0.9 | -229.5 | 0.5 |
| 1 | -230 | 0.35 | 1 | -260 | 0.45 | 1 | -302.5 | 0.1 | 1 | -230 | 0.99 | 1 | -230 | 0.01 | 1 | -230 | 0.5 |
| 2 | -235 | 0.4 | 2 | -270 | 0.7 | 2 | -305 | 0.15 | 2 | -235 | 0.98 | 2 | -235 | 0.02 | 2 | -235 | 0.5 |
| 3 | -240 | 0.45 | 3 | -280 | 0.95 | 3 | -307.5 | 0.2 | 3 | -240 | 0.97 | 3 | -240 | 0.03 | 3 | -240 | 0.5 |
| 4 | -245 | 0.5 | 4 | -290 | 1 | 4 | -310 | 0.25 | 4 | -245 | 0.96 | 4 | -245 | 0.04 | 4 | -245 | 0.5 |
| 5 | -250 | 0.55 | 5 | -300 | 1 | 5 | -312.5 | 0.3 | 5 | -250 | 0.95 | 5 | -250 | 0.05 | 5 | -250 | 0.5 |
| 6 | -255 | 0.6 | 6 | -310 | 1 | 6 | -315 | 0.35 | 6 | -255 | 0.94 | 6 | -255 | 0.06 | 6 | -255 | 0.5 |
| 7 | -260 | 0.65 | 7 | -320 | 1 | 7 | -317.5 | 0.4 | 7 | -260 | 0.93 | 7 | -260 | 0.07 | 7 | -260 | 0.5 |
| 8 | -265 | 0.7 | 8 | -330 | 1 | 8 | -320 | 0.45 | 8 | -265 | 0.92 | 8 | -265 | 0.08 | 8 | -265 | 0.5 |
| 9 | -270 | 0.75 | 9 | -340 | 1 | 9 | -322.5 | 0.5 | 9 | -270 | 0.91 | 9 | -270 | 0.09 | 9 | -270 | 0.5 |
| 10 | -275 | 0.8 | 10 | -350 | 1 | 10 | -325 | 0.55 | 10 | -275 | 0.9 | 10 | -275 | 0.1 | 10 | -275 | 0.5 |
| 11 | -280 | 0.85 | 11 | -349.5 | 0.9 | 11 | -327.5 | 0.6 | 11 | -280 | 0.89 | 11 | -280 | 0.11 | 11 | -280 | 0.5 |
| 12 | -285 | 0.9 | 12 | -349 | 0.8 | 12 | -330 | 0.65 | 12 | -285 | 0.88 | 12 | -285 | 0.12 | 12 | -285 | 0.5 |
| 13 | -290 | 0.95 | 13 | -348 | 0.7 | 13 | -332.5 | 0.675 | 13 | -290 | 0.87 | 13 | -290 | 0.13 | 13 | -290 | 0.5 |
| 14 | -295 | 1 | 14 | -347 | 0.6 | 14 | -335 | 0.7 | 14 | -295 | 0.86 | 14 | -295 | 0.14 | 14 | -295 | 0.5 |
| 15 | -300 | 1 | 15 | -346 | 0.5 | 15 | -337.5 | 0.725 | 15 | -300 | 0.85 | 15 | -300 | 0.15 | 15 | -300 | 0.5 |
| 16 | -305 | 1 | 16 | -345 | 0.45 | 16 | -340 | 0.75 | 16 | -305 | 0.84 | 16 | -305 | 0.16 | 16 | -305 | 0.5 |
| 17 | -310 | 1 | 17 | -344 | 0.4 | 17 | -342.5 | 0.775 | 17 | -310 | 0.83 | 17 | -310 | 0.17 | 17 | -310 | 0.5 |
| 18 | -315 | 1 | 18 | -343 | 0.35 | 18 | -345 | 0.8 | 18 | -315 | 0.82 | 18 | -315 | 0.18 | 18 | -315 | 0.5 |
| 19 | -320 | 1 | 19 | -342 | 0.3 | 19 | -347.5 | 0.825 | 19 | -320 | 0.81 | 19 | -320 | 0.19 | 19 | -320 | 0.5 |
| 20 | -325 | 1 | 20 | -340 | 0.25 | 20 | -350 | 0.85 | 20 | -325 | 0.8 | 20 | -325 | 0.2 | 20 | -325 | 0.5 |
| 21 | -330 | 1 | 21 | -338 | 0.2 | 21 | -352.5 | 0.875 | 21 | -330 | 0.79 | 21 | -330 | 0.21 | 21 | -330 | 0.5 |
| 22 | -335 | 1 | 22 | -336 | 0.175 | 22 | -355 | 0.9 | 22 | -335 | 0.78 | 22 | -335 | 0.22 | 22 | -335 | 0.5 |
| 23 | -340 | 1 | 23 | -334 | 0.15 | 23 | -360 | 0.92 | 23 | -340 | 0.77 | 23 | -340 | 0.23 | 23 | -340 | 0.5 |
| 24 | -345 | 1 | 24 | -332 | 0.125 | 24 | -365 | 0.94 | 24 | -345 | 0.76 | 24 | -345 | 0.24 | 24 | -345 | 0.5 |
| 25 | -350 | 1 | 25 | -330 | 0.1 | 25 | -370 | 0.96 | 25 | -350 | 0.75 | 25 | -350 | 0.25 | 25 | -350 | 0.5 |
| 26 | -355 | 1 | 26 | -328 | 0.075 | 26 | -375 | 0.98 | 26 | -355 | 0.74 | 26 | -355 | 0.26 | 26 | -355 | 0.5 |
| 27 | -360 | 1 | 27 | -326 | 0.05 | 27 | -380 | 1 | 27 | -360 | 0.73 | 27 | -360 | 0.27 | 27 | -360 | 0.5 |
| 28 | -365 | 1 | 28 | -324 | 0.025 | 28 | -385 | 1 | 28 | -365 | 0.72 | 28 | -365 | 0.28 | 28 | -365 | 0.5 |
| 29 | -370 | 1 | 29 | -322 | 0.01 | 29 | -390 | 1 | 29 | -370 | 0.71 | 29 | -370 | 0.29 | 29 | -370 | 0.5 |
| 30 | -375 | 1 | 30 | -320 | 0.001 | 30 | -395 | 1 | 30 | -375 | 0.7 | 30 | -375 | 0.3 | 30 | -375 | 0.5 |
| 31 | -380 | 0.99 | 31 | -315 | 0 | 31 | -400 | 1 | 31 | -380 | 0.69 | 31 | -380 | 0.31 | 31 | -380 | 0.5 |
| 32 | -382 | 0.98 | 32 | -310 | 0 | 32 | -405 | 1 | 32 | -382 | 0.68 | 32 | -382 | 0.32 | 32 | -382 | 0.5 |
| 33 | -384 | 0.97 | 33 | -305 | 0 | 33 | -410 | 1 | 33 | -384 | 0.67 | 33 | -384 | 0.33 | 33 | -384 | 0.5 |
| 34 | -386 | 0.96 | 34 | -300 | 0 | 34 | -415 | 1 | 34 | -386 | 0.66 | 34 | -386 | 0.34 | 34 | -386 | 0.5 |
| 35 | -388 | 0.95 | 35 | -295 | 0 | 35 | -420 | 1 | 35 | -388 | 0.65 | 35 | -388 | 0.35 | 35 | -388 | 0.5 |
| 36 | -390 | 0.94 | 36 | -290 | 0 | 36 | -425 | 1 | 36 | -390 | 0.64 | 36 | -390 | 0.36 | 36 | -390 | 0.5 |
| 37 | -391 | 0.93 | 37 | -285 | 0 | 37 | -430 | 1 | 37 | -391 | 0.63 | 37 | -391 | 0.37 | 37 | -391 | 0.5 |
| 38 | -392 | 0.92 | 38 | -280 | 0 | 38 | -435 | 1 | 38 | -392 | 0.62 | 38 | -392 | 0.38 | 38 | -392 | 0.5 |
| 39 | -393 | 0.91 | 39 | -275 | 0 | 39 | -440 | 1 | 39 | -393 | 0.61 | 39 | -393 | 0.39 | 39 | -393 | 0.5 |
| 40 | -394 | 0.9 | 40 | -270 | 0 | 40 | -445 | 1 | 40 | -394 | 0.6 | 40 | -394 | 0.4 | 40 | -394 | 0.5 |
| 41 | -395 | 0.88 | 41 | -265 | 0 | 41 | -450 | 1 | 41 | -395 | 0.59 | 41 | -395 | 0.41 | 41 | -395 | 0.5 |
| 42 | -396 | 0.86 | 42 | -260 | 0 | 42 | -455 | 1 | 42 | -396 | 0.58 | 42 | -396 | 0.42 | 42 | -396 | 0.5 |
| 43 | -397 | 0.84 | 43 | -255 | 0 | 43 | -460 | 1 | 43 | -397 | 0.57 | 43 | -397 | 0.43 | 43 | -397 | 0.5 |
| 44 | -398 | 0.82 | 44 | -250 | 0 | 44 | -465 | 1 | 44 | -398 | 0.56 | 44 | -398 | 0.44 | 44 | -398 | 0.5 |
| 45 | -399 | 0.8 | 45 | -245 | 0 | 45 | -470 | 1 | 45 | -399 | 0.55 | 45 | -399 | 0.45 | 45 | -399 | 0.5 |
| 46 | -400 | 0.78 | 46 | -240 | 0 | 46 | -475 | 1 | 46 | -400 | 0.54 | 46 | -400 | 0.46 | 46 | -400 | 0.5 |
| 47 | -400 | 0.76 | 47 | -235 | 0 | 47 | -480 | 1 | 47 | -400 | 0.53 | 47 | -400 | 0.47 | 47 | -400 | 0.5 |
| 48 | -399 | 0.74 | 48 | -230 | 0 | 48 | -485 | 1 | 48 | -399 | 0.52 | 48 | -399 | 0.48 | 48 | -399 | 0.5 |
| 49 | -398 | 0.72 | 49 | -225 | 0 | 49 | -490 | 1 | 49 | -398 | 0.51 | 49 | -398 | 0.49 | 49 | -398 | 0.5 |
| 50 | -397 | 0.7 | 50 | -223 | 0 | 50 | -495 | 1 | 50 | -397 | 0.5 | 50 | -397 | 0.5 | 50 | -397 | 0.5 |
| 51 | -396 | 0.68 | 51 | -221 | 0 | 51 | -500 | 0.99 | 51 | -396 | 0.49 | 51 | -396 | 0.51 | 51 | -396 | 0.5 |

Appendix A.3. Loam Model Initial Conditions and Profile Discretization

INITIAL CONDITIONS AND LOAM PROFILES

| LOAM1M1M | | | LOAM1M30CM | | | LOAM1M3M | | | LOAM1MTOP | | | LOAM1MBOTTOM | | | LOAM1MFLAT | | |
|----------|--------|--------|------------|--------|--------|----------|--------|--------|-----------|--------|--------|--------------|--------|--------|------------|--------|--------|
| Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) |
| 0 | -200 | 0.1 | 0 | -250 | 0 | 0 | -220 | 0 | 0 | -200 | 0.5 | 0 | -200 | 0 | 0 | -200 | 0 |
| 0.1 | -200.5 | 0.125 | 0.1 | -251 | 0.05 | 0.1 | -220.3 | 0.01 | 0.1 | -200.5 | 0.75 | 0.1 | -200.5 | 0.001 | 0.1 | -200.5 | 0.5 |
| 0.2 | -201 | 0.15 | 0.2 | -252 | 0.1 | 0.2 | -220.5 | 0.02 | 0.2 | -201 | 1 | 0.2 | -201 | 0.002 | 0.2 | -201 | 0.5 |
| 0.3 | -201.5 | 0.175 | 0.3 | -253 | 0.15 | 0.3 | -220.8 | 0.03 | 0.3 | -201.5 | 1 | 0.3 | -201.5 | 0.003 | 0.3 | -201.5 | 0.5 |
| 0.4 | -202 | 0.2 | 0.4 | -254 | 0.2 | 0.4 | -221 | 0.04 | 0.4 | -202 | 1 | 0.4 | -202 | 0.004 | 0.4 | -202 | 0.5 |
| 0.5 | -202.5 | 0.225 | 0.5 | -255 | 0.25 | 0.5 | -221.3 | 0.05 | 0.5 | -202.5 | 1 | 0.5 | -202.5 | 0.005 | 0.5 | -202.5 | 0.5 |
| 0.6 | -203 | 0.25 | 0.6 | -256 | 0.3 | 0.6 | -221.5 | 0.06 | 0.6 | -203 | 1 | 0.6 | -203 | 0.006 | 0.6 | -203 | 0.5 |
| 0.7 | -203.5 | 0.275 | 0.7 | -257 | 0.35 | 0.7 | -221.8 | 0.07 | 0.7 | -203.5 | 1 | 0.7 | -203.5 | 0.007 | 0.7 | -203.5 | 0.5 |
| 0.8 | -204 | 0.3 | 0.8 | -258 | 0.4 | 0.8 | -222 | 0.08 | 0.8 | -204 | 1 | 0.8 | -204 | 0.008 | 0.8 | -204 | 0.5 |
| 0.9 | -204.5 | 0.325 | 0.9 | -259 | 0.425 | 0.9 | -222.3 | 0.09 | 0.9 | -204.5 | 1 | 0.9 | -204.5 | 0.009 | 0.9 | -204.5 | 0.5 |
| 1 | -205 | 0.35 | 1 | -260 | 0.45 | 1 | -222.5 | 0.1 | 1 | -205 | 0.99 | 1 | -205 | 0.01 | 1 | -205 | 0.5 |
| 2 | -210 | 0.4 | 2 | -270 | 0.7 | 2 | -225 | 0.15 | 2 | -210 | 0.98 | 2 | -210 | 0.02 | 2 | -210 | 0.5 |
| 3 | -210 | 0.45 | 3 | -280 | 0.95 | 3 | -227.5 | 0.2 | 3 | -210 | 0.97 | 3 | -210 | 0.03 | 3 | -210 | 0.5 |
| 4 | -210 | 0.5 | 4 | -290 | 1 | 4 | -230 | 0.25 | 4 | -210 | 0.96 | 4 | -210 | 0.04 | 4 | -210 | 0.5 |
| 5 | -210 | 0.55 | 5 | -300 | 1 | 5 | -232.5 | 0.3 | 5 | -210 | 0.95 | 5 | -210 | 0.05 | 5 | -210 | 0.5 |
| 6 | -210 | 0.6 | 6 | -310 | 1 | 6 | -235 | 0.35 | 6 | -210 | 0.94 | 6 | -210 | 0.06 | 6 | -210 | 0.5 |
| 7 | -211 | 0.65 | 7 | -320 | 1 | 7 | -237.5 | 0.4 | 7 | -211 | 0.93 | 7 | -211 | 0.07 | 7 | -211 | 0.5 |
| 8 | -212 | 0.7 | 8 | -330 | 1 | 8 | -240 | 0.45 | 8 | -212 | 0.92 | 8 | -212 | 0.08 | 8 | -212 | 0.5 |
| 9 | -213 | 0.75 | 9 | -340 | 1 | 9 | -242.5 | 0.5 | 9 | -213 | 0.91 | 9 | -213 | 0.09 | 9 | -213 | 0.5 |
| 10 | -214 | 0.8 | 10 | -350 | 1 | 10 | -245 | 0.55 | 10 | -214 | 0.9 | 10 | -214 | 0.1 | 10 | -214 | 0.5 |
| 11 | -216 | 0.85 | 11 | -355 | 0.9 | 11 | -247.5 | 0.6 | 11 | -216 | 0.89 | 11 | -216 | 0.11 | 11 | -216 | 0.5 |
| 12 | -218 | 0.9 | 12 | -356 | 0.8 | 12 | -250 | 0.65 | 12 | -218 | 0.88 | 12 | -218 | 0.12 | 12 | -218 | 0.5 |
| 13 | -220 | 0.95 | 13 | -355 | 0.7 | 13 | -252.5 | 0.675 | 13 | -220 | 0.87 | 13 | -220 | 0.13 | 13 | -220 | 0.5 |
| 14 | -222 | 1 | 14 | -350 | 0.6 | 14 | -255 | 0.7 | 14 | -222 | 0.86 | 14 | -222 | 0.14 | 14 | -222 | 0.5 |
| 15 | -224 | 1 | 15 | -345 | 0.5 | 15 | -257.5 | 0.725 | 15 | -224 | 0.85 | 15 | -224 | 0.15 | 15 | -224 | 0.5 |
| 16 | -226 | 1 | 16 | -340 | 0.45 | 16 | -260 | 0.75 | 16 | -226 | 0.84 | 16 | -226 | 0.16 | 16 | -226 | 0.5 |
| 17 | -228 | 1 | 17 | -335 | 0.4 | 17 | -262.5 | 0.775 | 17 | -228 | 0.83 | 17 | -228 | 0.17 | 17 | -228 | 0.5 |
| 18 | -230 | 1 | 18 | -330 | 0.35 | 18 | -265 | 0.8 | 18 | -230 | 0.82 | 18 | -230 | 0.18 | 18 | -230 | 0.5 |
| 19 | -235 | 1 | 19 | -325 | 0.3 | 19 | -267.5 | 0.825 | 19 | -235 | 0.81 | 19 | -235 | 0.19 | 19 | -235 | 0.5 |
| 20 | -240 | 1 | 20 | -320 | 0.25 | 20 | -270 | 0.85 | 20 | -240 | 0.8 | 20 | -240 | 0.2 | 20 | -240 | 0.5 |
| 21 | -245 | 1 | 21 | -315 | 0.2 | 21 | -272.5 | 0.875 | 21 | -245 | 0.79 | 21 | -245 | 0.21 | 21 | -245 | 0.5 |
| 22 | -250 | 1 | 22 | -310 | 0.175 | 22 | -275 | 0.9 | 22 | -250 | 0.78 | 22 | -250 | 0.22 | 22 | -250 | 0.5 |
| 23 | -255 | 1 | 23 | -305 | 0.15 | 23 | -280 | 0.92 | 23 | -255 | 0.77 | 23 | -255 | 0.23 | 23 | -255 | 0.5 |
| 24 | -260 | 1 | 24 | -300 | 0.125 | 24 | -285 | 0.94 | 24 | -260 | 0.76 | 24 | -260 | 0.24 | 24 | -260 | 0.5 |
| 25 | -265 | 1 | 25 | -295 | 0.1 | 25 | -290 | 0.96 | 25 | -265 | 0.75 | 25 | -265 | 0.25 | 25 | -265 | 0.5 |
| 26 | -270 | 1 | 26 | -290 | 0.075 | 26 | -295 | 0.98 | 26 | -270 | 0.74 | 26 | -270 | 0.26 | 26 | -270 | 0.5 |
| 27 | -275 | 1 | 27 | -280 | 0.05 | 27 | -300 | 1 | 27 | -275 | 0.73 | 27 | -275 | 0.27 | 27 | -275 | 0.5 |
| 28 | -280 | 1 | 28 | -270 | 0.025 | 28 | -305 | 1 | 28 | -280 | 0.72 | 28 | -280 | 0.28 | 28 | -280 | 0.5 |
| 29 | -282 | 1 | 29 | -260 | 0.01 | 29 | -310 | 1 | 29 | -282 | 0.71 | 29 | -282 | 0.29 | 29 | -282 | 0.5 |
| 30 | -284 | 1 | 30 | -250 | 0.001 | 30 | -315 | 1 | 30 | -284 | 0.7 | 30 | -284 | 0.3 | 30 | -284 | 0.5 |
| 31 | -285 | 0.99 | 31 | -240 | 0 | 31 | -320 | 1 | 31 | -285 | 0.69 | 31 | -285 | 0.31 | 31 | -285 | 0.5 |
| 32 | -286 | 0.98 | 32 | -230 | 0 | 32 | -325 | 1 | 32 | -286 | 0.68 | 32 | -286 | 0.32 | 32 | -286 | 0.5 |
| 33 | -287 | 0.97 | 33 | -220 | 0 | 33 | -330 | 1 | 33 | -287 | 0.67 | 33 | -287 | 0.33 | 33 | -287 | 0.5 |
| 34 | -288 | 0.96 | 34 | -210 | 0 | 34 | -332 | 1 | 34 | -288 | 0.66 | 34 | -288 | 0.34 | 34 | -288 | 0.5 |
| 35 | -289 | 0.95 | 35 | -200 | 0 | 35 | -334 | 1 | 35 | -289 | 0.65 | 35 | -289 | 0.35 | 35 | -289 | 0.5 |
| 36 | -290 | 0.94 | 36 | -190 | 0 | 36 | -336 | 1 | 36 | -290 | 0.64 | 36 | -290 | 0.36 | 36 | -290 | 0.5 |
| 37 | -290 | 0.93 | 37 | -180 | 0 | 37 | -338 | 1 | 37 | -290 | 0.63 | 37 | -290 | 0.37 | 37 | -290 | 0.5 |
| 38 | -290 | 0.92 | 38 | -170 | 0 | 38 | -340 | 1 | 38 | -290 | 0.62 | 38 | -290 | 0.38 | 38 | -290 | 0.5 |
| 39 | -289 | 0.91 | 39 | -160 | 0 | 39 | -341 | 1 | 39 | -289 | 0.61 | 39 | -289 | 0.39 | 39 | -289 | 0.5 |
| 40 | -288 | 0.9 | 40 | -155 | 0 | 40 | -342 | 1 | 40 | -288 | 0.6 | 40 | -288 | 0.4 | 40 | -288 | 0.5 |
| 41 | -287 | 0.89 | 41 | -150 | 0 | 41 | -343 | 1 | 41 | -287 | 0.59 | 41 | -287 | 0.41 | 41 | -287 | 0.5 |
| 42 | -286 | 0.88 | 42 | -145 | 0 | 42 | -344 | 1 | 42 | -286 | 0.58 | 42 | -286 | 0.42 | 42 | -286 | 0.5 |
| 43 | -285 | 0.84 | 43 | -140 | 0 | 43 | -345 | 1 | 43 | -285 | 0.57 | 43 | -285 | 0.43 | 43 | -285 | 0.5 |
| 44 | -284 | 0.82 | 44 | -135 | 0 | 44 | -325 | 1 | 44 | -284 | 0.56 | 44 | -284 | 0.44 | 44 | -284 | 0.5 |
| 45 | -283 | 0.8 | 45 | -130 | 0 | 45 | -325 | 1 | 45 | -283 | 0.55 | 45 | -283 | 0.45 | 45 | -283 | 0.5 |
| 46 | -282 | 0.78 | 46 | -125 | 0 | 46 | -325 | 1 | 46 | -282 | 0.54 | 46 | -282 | 0.46 | 46 | -282 | 0.5 |
| 47 | -280 | 0.76 | 47 | -120 | 0 | 47 | -325 | 1 | 47 | -280 | 0.53 | 47 | -280 | 0.47 | 47 | -280 | 0.5 |
| 48 | -278 | 0.74 | 48 | -115 | 0 | 48 | -325 | 1 | 48 | -278 | 0.52 | 48 | -278 | 0.48 | 48 | -278 | 0.5 |
| 49 | -276 | 0.72 | 49 | -110 | 0 | 49 | -325 | 1 | 49 | -276 | 0.51 | 49 | -276 | 0.49 | 49 | -276 | 0.5 |
| 50 | -274 | 0.7 | 50 | -105 | 0 | 50 | -325 | 1 | 50 | -274 | 0.5 | 50 | -274 | 0.5 | 50 | -274 | 0.5 |
| 51 | -272 | 0.68 | 51 | -100 | 0 | 51 | -324 | 0.99 | 51 | -272 | 0.49 | 51 | -272 | 0.51 | 51 | -272 | 0.5 |

| | | | | | | | | | | | | | | | | | | |
|-----|------|-------|-----|------|---|-----|------|-------|-----|------|-------|-----|------|------|-----|------|------|------|
| 52 | -270 | 0.66 | 52 | -95 | 0 | 52 | -323 | 0.98 | 52 | -270 | 0.48 | 52 | -270 | 0.52 | 52 | -270 | 0.5 | A-33 |
| 53 | -268 | 0.64 | 53 | -90 | 0 | 53 | -322 | 0.97 | 53 | -268 | 0.47 | 53 | -268 | 0.53 | 53 | -268 | 0.5 | |
| 54 | -266 | 0.62 | 54 | -85 | 0 | 54 | -321 | 0.96 | 54 | -266 | 0.46 | 54 | -266 | 0.54 | 54 | -266 | 0.5 | |
| 55 | -261 | 0.6 | 55 | -80 | 0 | 55 | -320 | 0.95 | 55 | -261 | 0.45 | 55 | -261 | 0.55 | 55 | -261 | 0.5 | |
| 56 | -256 | 0.58 | 56 | -75 | 0 | 56 | -318 | 0.94 | 56 | -256 | 0.44 | 56 | -256 | 0.56 | 56 | -256 | 0.5 | |
| 57 | -251 | 0.56 | 57 | -70 | 0 | 57 | -316 | 0.93 | 57 | -251 | 0.43 | 57 | -251 | 0.57 | 57 | -251 | 0.5 | |
| 58 | -246 | 0.54 | 58 | -65 | 0 | 58 | -314 | 0.92 | 58 | -246 | 0.42 | 58 | -246 | 0.58 | 58 | -246 | 0.5 | |
| 59 | -241 | 0.52 | 59 | -60 | 0 | 59 | -312 | 0.91 | 59 | -241 | 0.41 | 59 | -241 | 0.59 | 59 | -241 | 0.5 | |
| 60 | -236 | 0.5 | 60 | -58 | 0 | 60 | -310 | 0.9 | 60 | -236 | 0.4 | 60 | -236 | 0.6 | 60 | -236 | 0.5 | |
| 61 | -231 | 0.475 | 61 | -56 | 0 | 61 | -305 | 0.88 | 61 | -231 | 0.39 | 61 | -231 | 0.61 | 61 | -231 | 0.5 | |
| 62 | -226 | 0.45 | 62 | -54 | 0 | 62 | -300 | 0.86 | 62 | -226 | 0.38 | 62 | -226 | 0.62 | 62 | -226 | 0.5 | |
| 63 | -221 | 0.425 | 63 | -52 | 0 | 63 | -290 | 0.84 | 63 | -221 | 0.37 | 63 | -221 | 0.63 | 63 | -221 | 0.5 | |
| 64 | -216 | 0.4 | 64 | -50 | 0 | 64 | -280 | 0.82 | 64 | -216 | 0.36 | 64 | -216 | 0.64 | 64 | -216 | 0.5 | |
| 65 | -211 | 0.375 | 65 | -48 | 0 | 65 | -270 | 0.8 | 65 | -211 | 0.35 | 65 | -211 | 0.65 | 65 | -211 | 0.5 | |
| 66 | -206 | 0.35 | 66 | -46 | 0 | 66 | -260 | 0.78 | 66 | -206 | 0.34 | 66 | -206 | 0.66 | 66 | -206 | 0.5 | |
| 67 | -196 | 0.325 | 67 | -44 | 0 | 67 | -250 | 0.76 | 67 | -196 | 0.33 | 67 | -196 | 0.67 | 67 | -196 | 0.5 | |
| 68 | -186 | 0.3 | 68 | -42 | 0 | 68 | -240 | 0.74 | 68 | -186 | 0.32 | 68 | -186 | 0.68 | 68 | -186 | 0.5 | |
| 69 | -176 | 0.275 | 69 | -40 | 0 | 69 | -230 | 0.72 | 69 | -176 | 0.31 | 69 | -176 | 0.69 | 69 | -176 | 0.5 | |
| 70 | -166 | 0.25 | 70 | -38 | 0 | 70 | -220 | 0.7 | 70 | -166 | 0.3 | 70 | -166 | 0.7 | 70 | -166 | 0.5 | |
| 71 | -156 | 0.23 | 71 | -36 | 0 | 71 | -210 | 0.68 | 71 | -156 | 0.29 | 71 | -156 | 0.71 | 71 | -156 | 0.5 | |
| 72 | -146 | 0.21 | 72 | -34 | 0 | 72 | -200 | 0.66 | 72 | -146 | 0.28 | 72 | -146 | 0.72 | 72 | -146 | 0.5 | |
| 73 | -136 | 0.19 | 73 | -32 | 0 | 73 | -190 | 0.64 | 73 | -136 | 0.27 | 73 | -136 | 0.73 | 73 | -136 | 0.5 | |
| 74 | -126 | 0.17 | 74 | -30 | 0 | 74 | -180 | 0.62 | 74 | -126 | 0.26 | 74 | -126 | 0.74 | 74 | -126 | 0.5 | |
| 75 | -116 | 0.15 | 75 | -28 | 0 | 75 | -170 | 0.6 | 75 | -116 | 0.25 | 75 | -116 | 0.75 | 75 | -116 | 0.5 | |
| 76 | -106 | 0.14 | 76 | -26 | 0 | 76 | -160 | 0.59 | 76 | -106 | 0.24 | 76 | -106 | 0.76 | 76 | -106 | 0.5 | |
| 77 | -96 | 0.13 | 77 | -24 | 0 | 77 | -150 | 0.58 | 77 | -96 | 0.23 | 77 | -96 | 0.77 | 77 | -96 | 0.5 | |
| 78 | -86 | 0.12 | 78 | -22 | 0 | 78 | -140 | 0.57 | 78 | -86 | 0.22 | 78 | -86 | 0.78 | 78 | -86 | 0.5 | |
| 79 | -76 | 0.11 | 79 | -20 | 0 | 79 | -130 | 0.56 | 79 | -76 | 0.21 | 79 | -76 | 0.79 | 79 | -76 | 0.5 | |
| 80 | -66 | 0.1 | 80 | -18 | 0 | 80 | -120 | 0.55 | 80 | -66 | 0.2 | 80 | -66 | 0.8 | 80 | -66 | 0.5 | |
| 81 | -56 | 0.095 | 81 | -17 | 0 | 81 | -110 | 0.54 | 81 | -56 | 0.19 | 81 | -56 | 0.81 | 81 | -56 | 0.5 | |
| 82 | -46 | 0.09 | 82 | -16 | 0 | 82 | -100 | 0.53 | 82 | -46 | 0.18 | 82 | -46 | 0.82 | 82 | -46 | 0.5 | |
| 83 | -41 | 0.085 | 83 | -15 | 0 | 83 | -90 | 0.52 | 83 | -41 | 0.17 | 83 | -41 | 0.83 | 83 | -41 | 0.5 | |
| 84 | -36 | 0.08 | 84 | -14 | 0 | 84 | -80 | 0.51 | 84 | -36 | 0.16 | 84 | -36 | 0.84 | 84 | -36 | 0.5 | |
| 85 | -31 | 0.075 | 85 | -13 | 0 | 85 | -70 | 0.5 | 85 | -31 | 0.15 | 85 | -31 | 0.85 | 85 | -31 | 0.5 | |
| 86 | -26 | 0.07 | 86 | -12 | 0 | 86 | -60 | 0.49 | 86 | -26 | 0.14 | 86 | -26 | 0.86 | 86 | -26 | 0.5 | |
| 87 | -21 | 0.065 | 87 | -11 | 0 | 87 | -50 | 0.48 | 87 | -21 | 0.13 | 87 | -21 | 0.87 | 87 | -21 | 0.5 | |
| 88 | -16 | 0.06 | 88 | -10 | 0 | 88 | -40 | 0.47 | 88 | -16 | 0.12 | 88 | -16 | 0.88 | 88 | -16 | 0.5 | |
| 89 | -14 | 0.055 | 89 | -9 | 0 | 89 | -30 | 0.46 | 89 | -14 | 0.11 | 89 | -14 | 0.89 | 89 | -14 | 0.5 | |
| 90 | -12 | 0.05 | 90 | -8 | 0 | 90 | -25 | 0.45 | 90 | -12 | 0.1 | 90 | -12 | 0.9 | 90 | -12 | 0.5 | |
| 91 | -10 | 0.046 | 91 | -7 | 0 | 91 | -20 | 0.44 | 91 | -10 | 0.09 | 91 | -10 | 0.91 | 91 | -10 | 0.5 | |
| 92 | -8 | 0.04 | 92 | -6 | 0 | 92 | -15 | 0.43 | 92 | -8 | 0.08 | 92 | -8 | 0.92 | 92 | -8 | 0.5 | |
| 93 | -6 | 0.035 | 93 | -5 | 0 | 93 | -10 | 0.42 | 93 | -6 | 0.07 | 93 | -6 | 0.93 | 93 | -6 | 0.5 | |
| 94 | -4 | 0.03 | 94 | -4 | 0 | 94 | -8 | 0.41 | 94 | -4 | 0.06 | 94 | -4 | 0.94 | 94 | -4 | 0.5 | |
| 95 | -3 | 0.025 | 95 | -3 | 0 | 95 | -6 | 0.4 | 95 | -3 | 0.05 | 95 | -3 | 0.95 | 95 | -3 | 0.5 | |
| 96 | -2 | 0.02 | 96 | -2 | 0 | 96 | -4 | 0.395 | 96 | -2 | 0.04 | 96 | -2 | 0.96 | 96 | -2 | 0.5 | |
| 97 | -1 | 0.015 | 97 | -1 | 0 | 97 | -2 | 0.39 | 97 | -1 | 0.03 | 97 | -1 | 0.97 | 97 | -1 | 0.5 | |
| 98 | -0.5 | 0.01 | 98 | -0.5 | 0 | 98 | -1 | 0.385 | 98 | -0.5 | 0.02 | 98 | -0.5 | 0.98 | 98 | -0.5 | 0.5 | |
| 99 | -0.1 | 0.005 | 99 | -0.1 | 0 | 99 | -0.2 | 0.38 | 99 | -0.1 | 0.01 | 99 | -0.1 | 0.99 | 99 | -0.1 | 0.5 | |
| 100 | 0 | 0.001 | 100 | 0 | 0 | 100 | 0 | 0.375 | 100 | 0 | 0.001 | 100 | 0 | 1 | 100 | 0 | 0.1 | |
| 101 | 1 | 0 | 101 | 1 | 0 | 101 | 1 | 0.37 | 101 | 1 | 0 | 101 | 1 | 0.9 | 101 | 1 | 0.01 | |
| 102 | 2 | 0 | 102 | 2 | 0 | 102 | 2 | 0.365 | 102 | 2 | 0 | 102 | 2 | 0.7 | 102 | 2 | 0 | |
| 103 | 3 | 0 | 103 | 3 | 0 | 103 | 3 | 0.36 | 103 | 3 | 0 | 103 | 3 | 0.5 | 103 | 3 | 0 | |
| 104 | 4 | 0 | 104 | 4 | 0 | 104 | 4 | 0.355 | 104 | 4 | 0 | 104 | 4 | 0.2 | 104 | 4 | 0 | |
| 105 | 5 | 0 | 105 | 5 | 0 | 105 | 5 | 0.35 | 105 | 5 | 0 | 105 | 5 | 0.1 | 105 | 5 | 0 | |
| 106 | 6 | 0 | 106 | 6 | 0 | 106 | 6 | 0.345 | 106 | 6 | 0 | 106 | 6 | 0.01 | 106 | 6 | 0 | |
| 107 | 7 | 0 | 107 | 7 | 0 | 107 | 7 | 0.34 | 107 | 7 | 0 | 107 | 7 | 0 | 107 | 7 | 0 | |
| 108 | 8 | 0 | 108 | 8 | 0 | 108 | 8 | 0.335 | 108 | 8 | 0 | 108 | 8 | 0 | 108 | 8 | 0 | |
| 109 | 9 | 0 | 109 | 9 | 0 | 109 | 9 | 0.33 | 109 | 9 | 0 | 109 | 9 | 0 | 109 | 9 | 0 | |
| 110 | 10 | 0 | 110 | 10 | 0 | 110 | 10 | 0.325 | 110 | 10 | 0 | 110 | 10 | 0 | 110 | 10 | 0 | |
| 111 | 11 | 0 | 111 | 11 | 0 | 111 | 11 | 0.32 | 111 | 11 | 0 | 111 | 11 | 0 | 111 | 11 | 0 | |
| 112 | 12 | 0 | 112 | 12 | 0 | 112 | 12 | 0.315 | 112 | 12 | 0 | 112 | 12 | 0 | 112 | 12 | 0 | |
| 113 | 13 | 0 | 113 | 13 | 0 | 113 | 13 | 0.31 | 113 | 13 | 0 | 113 | 13 | 0 | 113 | 13 | 0 | |
| 114 | 14 | 0 | 114 | 14 | 0 | 114 | 14 | 0.305 | 114 | 14 | 0 | 114 | 14 | 0 | 114 | 14 | 0 | |
| 115 | 15 | 0 | 115 | 15 | 0 | 115 | 15 | 0.3 | 115 | 15 | 0 | 115 | 15 | 0 | 115 | 15 | 0 | |
| 116 | 16 | 0 | 116 | 16 | 0 | 116 | 16 | 0.295 | 116 | 16 | 0 | 116 | 16 | 0 | 116 | 16 | 0 | |
| 117 | 17 | 0 | 117 | 17 | 0 | 117 | 17 | 0.29 | 117 | 17 | 0 | 117 | 17 | 0 | 117 | 17 | 0 | |

| | | | | | | | | | | | | | | | | | | |
|-----|----|---|-----|----|---|-----|----|-------|-----|----|---|-----|----|---|-----|----|---|------|
| 118 | 18 | 0 | 118 | 18 | 0 | 118 | 18 | 0.285 | 118 | 18 | 0 | 118 | 18 | 0 | 118 | 18 | 0 | A-34 |
| 119 | 19 | 0 | 119 | 19 | 0 | 119 | 19 | 0.28 | 119 | 19 | 0 | 119 | 19 | 0 | 119 | 19 | 0 | |
| 120 | 20 | 0 | 120 | 20 | 0 | 120 | 20 | 0.275 | 120 | 20 | 0 | 120 | 20 | 0 | 120 | 20 | 0 | |
| 121 | 21 | 0 | 121 | 21 | 0 | 121 | 21 | 0.27 | 121 | 21 | 0 | 121 | 21 | 0 | 121 | 21 | 0 | |
| 122 | 22 | 0 | 122 | 22 | 0 | 122 | 22 | 0.265 | 122 | 22 | 0 | 122 | 22 | 0 | 122 | 22 | 0 | |
| 123 | 23 | 0 | 123 | 23 | 0 | 123 | 23 | 0.26 | 123 | 23 | 0 | 123 | 23 | 0 | 123 | 23 | 0 | |
| 124 | 24 | 0 | 124 | 24 | 0 | 124 | 24 | 0.255 | 124 | 24 | 0 | 124 | 24 | 0 | 124 | 24 | 0 | |
| 125 | 25 | 0 | 125 | 25 | 0 | 125 | 25 | 0.25 | 125 | 25 | 0 | 125 | 25 | 0 | 125 | 25 | 0 | |
| 126 | 26 | 0 | 126 | 26 | 0 | 126 | 26 | 0.249 | 126 | 26 | 0 | 126 | 26 | 0 | 126 | 26 | 0 | |
| 127 | 27 | 0 | 127 | 27 | 0 | 127 | 27 | 0.248 | 127 | 27 | 0 | 127 | 27 | 0 | 127 | 27 | 0 | |
| 128 | 28 | 0 | 128 | 28 | 0 | 128 | 28 | 0.247 | 128 | 28 | 0 | 128 | 28 | 0 | 128 | 28 | 0 | |
| 129 | 29 | 0 | 129 | 29 | 0 | 129 | 29 | 0.246 | 129 | 29 | 0 | 129 | 29 | 0 | 129 | 29 | 0 | |
| 130 | 30 | 0 | 130 | 30 | 0 | 130 | 30 | 0.245 | 130 | 30 | 0 | 130 | 30 | 0 | 130 | 30 | 0 | |
| 131 | 31 | 0 | 131 | 31 | 0 | 131 | 31 | 0.244 | 131 | 31 | 0 | 131 | 31 | 0 | 131 | 31 | 0 | |
| 132 | 32 | 0 | 132 | 32 | 0 | 132 | 32 | 0.243 | 132 | 32 | 0 | 132 | 32 | 0 | 132 | 32 | 0 | |
| 133 | 33 | 0 | 133 | 33 | 0 | 133 | 33 | 0.242 | 133 | 33 | 0 | 133 | 33 | 0 | 133 | 33 | 0 | |
| 134 | 34 | 0 | 134 | 34 | 0 | 134 | 34 | 0.241 | 134 | 34 | 0 | 134 | 34 | 0 | 134 | 34 | 0 | |
| 135 | 35 | 0 | 135 | 35 | 0 | 135 | 35 | 0.24 | 135 | 35 | 0 | 135 | 35 | 0 | 135 | 35 | 0 | |
| 136 | 36 | 0 | 136 | 36 | 0 | 136 | 36 | 0.239 | 136 | 36 | 0 | 136 | 36 | 0 | 136 | 36 | 0 | |
| 137 | 37 | 0 | 137 | 37 | 0 | 137 | 37 | 0.238 | 137 | 37 | 0 | 137 | 37 | 0 | 137 | 37 | 0 | |
| 138 | 38 | 0 | 138 | 38 | 0 | 138 | 38 | 0.237 | 138 | 38 | 0 | 138 | 38 | 0 | 138 | 38 | 0 | |
| 139 | 39 | 0 | 139 | 39 | 0 | 139 | 39 | 0.236 | 139 | 39 | 0 | 139 | 39 | 0 | 139 | 39 | 0 | |
| 140 | 40 | 0 | 140 | 40 | 0 | 140 | 40 | 0.235 | 140 | 40 | 0 | 140 | 40 | 0 | 140 | 40 | 0 | |
| 141 | 41 | 0 | 141 | 41 | 0 | 141 | 41 | 0.234 | 141 | 41 | 0 | 141 | 41 | 0 | 141 | 41 | 0 | |
| 142 | 42 | 0 | 142 | 42 | 0 | 142 | 42 | 0.233 | 142 | 42 | 0 | 142 | 42 | 0 | 142 | 42 | 0 | |
| 143 | 43 | 0 | 143 | 43 | 0 | 143 | 43 | 0.232 | 143 | 43 | 0 | 143 | 43 | 0 | 143 | 43 | 0 | |
| 144 | 44 | 0 | 144 | 44 | 0 | 144 | 44 | 0.231 | 144 | 44 | 0 | 144 | 44 | 0 | 144 | 44 | 0 | |
| 145 | 45 | 0 | 145 | 45 | 0 | 145 | 45 | 0.23 | 145 | 45 | 0 | 145 | 45 | 0 | 145 | 45 | 0 | |
| 146 | 46 | 0 | 146 | 46 | 0 | 146 | 46 | 0.229 | 146 | 46 | 0 | 146 | 46 | 0 | 146 | 46 | 0 | |
| 147 | 47 | 0 | 147 | 47 | 0 | 147 | 47 | 0.228 | 147 | 47 | 0 | 147 | 47 | 0 | 147 | 47 | 0 | |
| 148 | 48 | 0 | 148 | 48 | 0 | 148 | 48 | 0.227 | 148 | 48 | 0 | 148 | 48 | 0 | 148 | 48 | 0 | |
| 149 | 49 | 0 | 149 | 49 | 0 | 149 | 49 | 0.226 | 149 | 49 | 0 | 149 | 49 | 0 | 149 | 49 | 0 | |
| 150 | 50 | 0 | 150 | 50 | 0 | 150 | 50 | 0.225 | 150 | 50 | 0 | 150 | 50 | 0 | 150 | 50 | 0 | |
| 151 | 51 | 0 | 151 | 51 | 0 | 151 | 51 | 0.224 | 151 | 51 | 0 | 151 | 51 | 0 | 151 | 51 | 0 | |
| 152 | 52 | 0 | 152 | 52 | 0 | 152 | 52 | 0.223 | 152 | 52 | 0 | 152 | 52 | 0 | 152 | 52 | 0 | |
| 153 | 53 | 0 | 153 | 53 | 0 | 153 | 53 | 0.222 | 153 | 53 | 0 | 153 | 53 | 0 | 153 | 53 | 0 | |
| 154 | 54 | 0 | 154 | 54 | 0 | 154 | 54 | 0.221 | 154 | 54 | 0 | 154 | 54 | 0 | 154 | 54 | 0 | |
| 155 | 55 | 0 | 155 | 55 | 0 | 155 | 55 | 0.22 | 155 | 55 | 0 | 155 | 55 | 0 | 155 | 55 | 0 | |
| 156 | 56 | 0 | 156 | 56 | 0 | 156 | 56 | 0.219 | 156 | 56 | 0 | 156 | 56 | 0 | 156 | 56 | 0 | |
| 157 | 57 | 0 | 157 | 57 | 0 | 157 | 57 | 0.218 | 157 | 57 | 0 | 157 | 57 | 0 | 157 | 57 | 0 | |
| 158 | 58 | 0 | 158 | 58 | 0 | 158 | 58 | 0.217 | 158 | 58 | 0 | 158 | 58 | 0 | 158 | 58 | 0 | |
| 159 | 59 | 0 | 159 | 59 | 0 | 159 | 59 | 0.216 | 159 | 59 | 0 | 159 | 59 | 0 | 159 | 59 | 0 | |
| 160 | 60 | 0 | 160 | 60 | 0 | 160 | 60 | 0.215 | 160 | 60 | 0 | 160 | 60 | 0 | 160 | 60 | 0 | |
| 161 | 61 | 0 | 161 | 61 | 0 | 161 | 61 | 0.214 | 161 | 61 | 0 | 161 | 61 | 0 | 161 | 61 | 0 | |
| 162 | 62 | 0 | 162 | 62 | 0 | 162 | 62 | 0.213 | 162 | 62 | 0 | 162 | 62 | 0 | 162 | 62 | 0 | |
| 163 | 63 | 0 | 163 | 63 | 0 | 163 | 63 | 0.212 | 163 | 63 | 0 | 163 | 63 | 0 | 163 | 63 | 0 | |
| 164 | 64 | 0 | 164 | 64 | 0 | 164 | 64 | 0.211 | 164 | 64 | 0 | 164 | 64 | 0 | 164 | 64 | 0 | |
| 165 | 65 | 0 | 165 | 65 | 0 | 165 | 65 | 0.21 | 165 | 65 | 0 | 165 | 65 | 0 | 165 | 65 | 0 | |
| 166 | 66 | 0 | 166 | 66 | 0 | 166 | 66 | 0.209 | 166 | 66 | 0 | 166 | 66 | 0 | 166 | 66 | 0 | |
| 167 | 67 | 0 | 167 | 67 | 0 | 167 | 67 | 0.208 | 167 | 67 | 0 | 167 | 67 | 0 | 167 | 67 | 0 | |
| 168 | 68 | 0 | 168 | 68 | 0 | 168 | 68 | 0.207 | 168 | 68 | 0 | 168 | 68 | 0 | 168 | 68 | 0 | |
| 169 | 69 | 0 | 169 | 69 | 0 | 169 | 69 | 0.206 | 169 | 69 | 0 | 169 | 69 | 0 | 169 | 69 | 0 | |
| 170 | 70 | 0 | 170 | 70 | 0 | 170 | 70 | 0.205 | 170 | 70 | 0 | 170 | 70 | 0 | 170 | 70 | 0 | |
| 171 | 71 | 0 | 171 | 71 | 0 | 171 | 71 | 0.204 | 171 | 71 | 0 | 171 | 71 | 0 | 171 | 71 | 0 | |
| 172 | 72 | 0 | 172 | 72 | 0 | 172 | 72 | 0.203 | 172 | 72 | 0 | 172 | 72 | 0 | 172 | 72 | 0 | |
| 173 | 73 | 0 | 173 | 73 | 0 | 173 | 73 | 0.202 | 173 | 73 | 0 | 173 | 73 | 0 | 173 | 73 | 0 | |
| 174 | 74 | 0 | 174 | 74 | 0 | 174 | 74 | 0.201 | 174 | 74 | 0 | 174 | 74 | 0 | 174 | 74 | 0 | |
| 175 | 75 | 0 | 175 | 75 | 0 | 175 | 75 | 0.2 | 175 | 75 | 0 | 175 | 75 | 0 | 175 | 75 | 0 | |
| 176 | 76 | 0 | 176 | 76 | 0 | 176 | 76 | 0.199 | 176 | 76 | 0 | 176 | 76 | 0 | 176 | 76 | 0 | |
| 177 | 77 | 0 | 177 | 77 | 0 | 177 | 77 | 0.198 | 177 | 77 | 0 | 177 | 77 | 0 | 177 | 77 | 0 | |
| 178 | 78 | 0 | 178 | 78 | 0 | 178 | 78 | 0.197 | 178 | 78 | 0 | 178 | 78 | 0 | 178 | 78 | 0 | |
| 179 | 79 | 0 | 179 | 79 | 0 | 179 | 79 | 0.196 | 179 | 79 | 0 | 179 | 79 | 0 | 179 | 79 | 0 | |
| 180 | 80 | 0 | 180 | 80 | 0 | 180 | 80 | 0.195 | 180 | 80 | 0 | 180 | 80 | 0 | 180 | 80 | 0 | |
| 181 | 81 | 0 | 181 | 81 | 0 | 181 | 81 | 0.194 | 181 | 81 | 0 | 181 | 81 | 0 | 181 | 81 | 0 | |
| 182 | 82 | 0 | 182 | 82 | 0 | 182 | 82 | 0.193 | 182 | 82 | 0 | 182 | 82 | 0 | 182 | 82 | 0 | |
| 183 | 83 | 0 | 183 | 83 | 0 | 183 | 83 | 0.192 | 183 | 83 | 0 | 183 | 83 | 0 | 183 | 83 | 0 | |

| LOAM2M1M | | | LOAM2M30CM | | | LOAM2M3M | | | LOAM2MTOP | | | LOAM2MBOTTOM | | | LOAM2MFLAT | | |
|----------|--------|--------|------------|--------|--------|----------|--------|--------|-----------|--------|--------|--------------|--------|--------|------------|--------|--------|
| Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) |
| 0 | -300 | 0.1 | 0 | -350 | 0 | 0 | -650 | 0 | 0 | -300 | 0.5 | 0 | -300 | 0.1 | 0 | -300 | 0 |
| 0.1 | -302 | 0.125 | 0.1 | -352 | 0.05 | 0.1 | -650.3 | 0.01 | 0.1 | -302 | 0.75 | 0.1 | -302 | 0.125 | 0.1 | -302 | 0.5 |
| 0.2 | -304 | 0.15 | 0.2 | -354 | 0.1 | 0.2 | -650.5 | 0.02 | 0.2 | -304 | 1 | 0.2 | -304 | 0.15 | 0.2 | -304 | 0.5 |
| 0.3 | -306 | 0.175 | 0.3 | -356 | 0.15 | 0.3 | -650.8 | 0.03 | 0.3 | -306 | 1 | 0.3 | -306 | 0.175 | 0.3 | -306 | 0.5 |
| 0.4 | -308 | 0.2 | 0.4 | -358 | 0.2 | 0.4 | -651 | 0.04 | 0.4 | -308 | 1 | 0.4 | -308 | 0.2 | 0.4 | -308 | 0.5 |
| 0.5 | -310 | 0.225 | 0.5 | -360 | 0.25 | 0.5 | -651.3 | 0.05 | 0.5 | -310 | 1 | 0.5 | -310 | 0.225 | 0.5 | -310 | 0.5 |
| 0.6 | -312 | 0.25 | 0.6 | -362 | 0.3 | 0.6 | -651.5 | 0.06 | 0.6 | -312 | 1 | 0.6 | -312 | 0.25 | 0.6 | -312 | 0.5 |
| 0.7 | -314 | 0.275 | 0.7 | -364 | 0.35 | 0.7 | -651.8 | 0.07 | 0.7 | -314 | 1 | 0.7 | -314 | 0.275 | 0.7 | -314 | 0.5 |
| 0.8 | -316 | 0.3 | 0.8 | -366 | 0.4 | 0.8 | -652 | 0.08 | 0.8 | -316 | 1 | 0.8 | -316 | 0.3 | 0.8 | -316 | 0.5 |
| 0.9 | -318 | 0.325 | 0.9 | -368 | 0.425 | 0.9 | -652.3 | 0.09 | 0.9 | -318 | 1 | 0.9 | -318 | 0.325 | 0.9 | -318 | 0.5 |
| 1 | -320 | 0.35 | 1 | -370 | 0.45 | 1 | -652.5 | 0.1 | 1 | -320 | 0.99 | 1 | -320 | 0.35 | 1 | -320 | 0.5 |
| 2 | -325 | 0.4 | 2 | -390 | 0.7 | 2 | -655 | 0.15 | 2 | -325 | 0.98 | 2 | -325 | 0.4 | 2 | -325 | 0.5 |
| 3 | -330 | 0.45 | 3 | -410 | 0.95 | 3 | -657.5 | 0.2 | 3 | -330 | 0.97 | 3 | -330 | 0.45 | 3 | -330 | 0.5 |
| 4 | -335 | 0.5 | 4 | -430 | 1 | 4 | -660 | 0.25 | 4 | -335 | 0.96 | 4 | -335 | 0.5 | 4 | -335 | 0.5 |
| 5 | -340 | 0.55 | 5 | -450 | 1 | 5 | -662.5 | 0.3 | 5 | -340 | 0.95 | 5 | -340 | 0.55 | 5 | -340 | 0.5 |
| 6 | -345 | 0.6 | 6 | -470 | 1 | 6 | -665 | 0.35 | 6 | -345 | 0.94 | 6 | -345 | 0.6 | 6 | -345 | 0.5 |
| 7 | -350 | 0.65 | 7 | -490 | 1 | 7 | -667.5 | 0.4 | 7 | -350 | 0.93 | 7 | -350 | 0.65 | 7 | -350 | 0.5 |
| 8 | -355 | 0.7 | 8 | -510 | 1 | 8 | -670 | 0.45 | 8 | -355 | 0.92 | 8 | -355 | 0.7 | 8 | -355 | 0.5 |
| 9 | -360 | 0.75 | 9 | -530 | 1 | 9 | -672.5 | 0.5 | 9 | -360 | 0.91 | 9 | -360 | 0.75 | 9 | -360 | 0.5 |
| 10 | -365 | 0.8 | 10 | -550 | 1 | 10 | -675 | 0.55 | 10 | -365 | 0.9 | 10 | -365 | 0.8 | 10 | -365 | 0.5 |
| 11 | -370 | 0.85 | 11 | -550 | 0.9 | 11 | -677.5 | 0.6 | 11 | -370 | 0.89 | 11 | -370 | 0.85 | 11 | -370 | 0.5 |
| 12 | -380 | 0.9 | 12 | -549 | 0.8 | 12 | -680 | 0.65 | 12 | -380 | 0.88 | 12 | -380 | 0.9 | 12 | -380 | 0.5 |
| 13 | -390 | 0.95 | 13 | -548 | 0.7 | 13 | -682.5 | 0.675 | 13 | -390 | 0.87 | 13 | -390 | 0.95 | 13 | -390 | 0.5 |
| 14 | -400 | 1 | 14 | -546 | 0.6 | 14 | -685 | 0.7 | 14 | -400 | 0.86 | 14 | -400 | 1 | 14 | -400 | 0.5 |
| 15 | -410 | 1 | 15 | -544 | 0.5 | 15 | -687.5 | 0.725 | 15 | -410 | 0.85 | 15 | -410 | 1 | 15 | -410 | 0.5 |
| 16 | -420 | 1 | 16 | -542 | 0.45 | 16 | -690 | 0.75 | 16 | -420 | 0.84 | 16 | -420 | 1 | 16 | -420 | 0.5 |
| 17 | -430 | 1 | 17 | -540 | 0.4 | 17 | -692.5 | 0.775 | 17 | -430 | 0.83 | 17 | -430 | 1 | 17 | -430 | 0.5 |
| 18 | -440 | 1 | 18 | -535 | 0.35 | 18 | -695 | 0.8 | 18 | -440 | 0.82 | 18 | -440 | 1 | 18 | -440 | 0.5 |
| 19 | -450 | 1 | 19 | -530 | 0.3 | 19 | -697.5 | 0.825 | 19 | -450 | 0.81 | 19 | -450 | 1 | 19 | -450 | 0.5 |
| 20 | -460 | 1 | 20 | -525 | 0.25 | 20 | -700 | 0.85 | 20 | -460 | 0.8 | 20 | -460 | 1 | 20 | -460 | 0.5 |
| 21 | -470 | 1 | 21 | -520 | 0.2 | 21 | -702.5 | 0.875 | 21 | -470 | 0.79 | 21 | -470 | 1 | 21 | -470 | 0.5 |
| 22 | -480 | 1 | 22 | -510 | 0.175 | 22 | -705 | 0.9 | 22 | -480 | 0.78 | 22 | -480 | 1 | 22 | -480 | 0.5 |
| 23 | -485 | 1 | 23 | -500 | 0.15 | 23 | -710 | 0.92 | 23 | -485 | 0.77 | 23 | -485 | 1 | 23 | -485 | 0.5 |
| 24 | -490 | 1 | 24 | -490 | 0.125 | 24 | -715 | 0.94 | 24 | -490 | 0.76 | 24 | -490 | 1 | 24 | -490 | 0.5 |
| 25 | -495 | 1 | 25 | -475 | 0.1 | 25 | -720 | 0.96 | 25 | -495 | 0.75 | 25 | -495 | 1 | 25 | -495 | 0.5 |
| 26 | -500 | 1 | 26 | -460 | 0.075 | 26 | -725 | 0.98 | 26 | -500 | 0.74 | 26 | -500 | 1 | 26 | -500 | 0.5 |
| 27 | -505 | 1 | 27 | -445 | 0.05 | 27 | -730 | 1 | 27 | -505 | 0.73 | 27 | -505 | 1 | 27 | -505 | 0.5 |
| 28 | -510 | 1 | 28 | -430 | 0.025 | 28 | -735 | 1 | 28 | -510 | 0.72 | 28 | -510 | 1 | 28 | -510 | 0.5 |
| 29 | -515 | 1 | 29 | -415 | 0.01 | 29 | -740 | 1 | 29 | -515 | 0.71 | 29 | -515 | 1 | 29 | -515 | 0.5 |
| 30 | -520 | 1 | 30 | -400 | 0.001 | 30 | -745 | 1 | 30 | -520 | 0.7 | 30 | -520 | 1 | 30 | -520 | 0.5 |
| 31 | -525 | 0.99 | 31 | -385 | 0 | 31 | -750 | 1 | 31 | -525 | 0.69 | 31 | -525 | 0.99 | 31 | -525 | 0.5 |
| 32 | -527 | 0.98 | 32 | -370 | 0 | 32 | -755 | 1 | 32 | -527 | 0.68 | 32 | -527 | 0.98 | 32 | -527 | 0.5 |
| 33 | -529 | 0.97 | 33 | -355 | 0 | 33 | -760 | 1 | 33 | -529 | 0.67 | 33 | -529 | 0.97 | 33 | -529 | 0.5 |
| 34 | -531 | 0.96 | 34 | -340 | 0 | 34 | -765 | 1 | 34 | -531 | 0.66 | 34 | -531 | 0.96 | 34 | -531 | 0.5 |
| 35 | -533 | 0.95 | 35 | -330 | 0 | 35 | -770 | 1 | 35 | -533 | 0.65 | 35 | -533 | 0.95 | 35 | -533 | 0.5 |
| 36 | -535 | 0.94 | 36 | -320 | 0 | 36 | -775 | 1 | 36 | -535 | 0.64 | 36 | -535 | 0.94 | 36 | -535 | 0.5 |
| 37 | -536 | 0.93 | 37 | -310 | 0 | 37 | -780 | 1 | 37 | -536 | 0.63 | 37 | -536 | 0.93 | 37 | -536 | 0.5 |
| 38 | -537 | 0.92 | 38 | -300 | 0 | 38 | -785 | 1 | 38 | -537 | 0.62 | 38 | -537 | 0.92 | 38 | -537 | 0.5 |
| 39 | -538 | 0.91 | 39 | -290 | 0 | 39 | -790 | 1 | 39 | -538 | 0.61 | 39 | -538 | 0.91 | 39 | -538 | 0.5 |
| 40 | -539 | 0.9 | 40 | -280 | 0 | 40 | -795 | 1 | 40 | -539 | 0.6 | 40 | -539 | 0.9 | 40 | -539 | 0.5 |
| 41 | -540 | 0.88 | 41 | -270 | 0 | 41 | -800 | 1 | 41 | -540 | 0.59 | 41 | -540 | 0.88 | 41 | -540 | 0.5 |
| 42 | -540 | 0.86 | 42 | -260 | 0 | 42 | -805 | 1 | 42 | -540 | 0.58 | 42 | -540 | 0.86 | 42 | -540 | 0.5 |
| 43 | -540 | 0.84 | 43 | -250 | 0 | 43 | -810 | 1 | 43 | -540 | 0.57 | 43 | -540 | 0.84 | 43 | -540 | 0.5 |
| 44 | -540 | 0.82 | 44 | -240 | 0 | 44 | -815 | 1 | 44 | -540 | 0.56 | 44 | -540 | 0.82 | 44 | -540 | 0.5 |
| 45 | -540 | 0.8 | 45 | -230 | 0 | 45 | -820 | 1 | 45 | -540 | 0.55 | 45 | -540 | 0.8 | 45 | -540 | 0.5 |
| 46 | -539 | 0.78 | 46 | -220 | 0 | 46 | -825 | 1 | 46 | -539 | 0.54 | 46 | -539 | 0.78 | 46 | -539 | 0.5 |
| 47 | -538 | 0.76 | 47 | -215 | 0 | 47 | -830 | 1 | 47 | -538 | 0.53 | 47 | -538 | 0.76 | 47 | -538 | 0.5 |
| 48 | -537 | 0.74 | 48 | -210 | 0 | 48 | -835 | 1 | 48 | -537 | 0.52 | 48 | -537 | 0.74 | 48 | -537 | 0.5 |
| 49 | -536 | 0.72 | 49 | -205 | 0 | 49 | -840 | 1 | 49 | -536 | 0.51 | 49 | -536 | 0.72 | 49 | -536 | 0.5 |
| 50 | -535 | 0.7 | 50 | -200 | 0 | 50 | -845 | 1 | 50 | -535 | 0.5 | 50 | -535 | 0.7 | 50 | -535 | 0.5 |
| 51 | -534 | 0.68 | 51 | -195 | 0 | 51 | -850 | 0.99 | 51 | -534 | 0.49 | 51 | -534 | 0.68 | 51 | -534 | 0.5 |

| | | | | | | | | | | | | | | | | | | |
|-----|------|---|-----|------|---|-----|------|-------|-----|------|---|-----|------|---|-----|------|---|------|
| 184 | -13 | 0 | 184 | -14 | 0 | 184 | -16 | 0.191 | 184 | -13 | 0 | 184 | -13 | 0 | 184 | -13 | 0 | A-40 |
| 185 | -12 | 0 | 185 | -13 | 0 | 185 | -14 | 0.19 | 185 | -12 | 0 | 185 | -12 | 0 | 185 | -12 | 0 | |
| 186 | -11 | 0 | 186 | -12 | 0 | 186 | -12 | 0.189 | 186 | -11 | 0 | 186 | -11 | 0 | 186 | -11 | 0 | |
| 187 | -10 | 0 | 187 | -11 | 0 | 187 | -11 | 0.188 | 187 | -10 | 0 | 187 | -10 | 0 | 187 | -10 | 0 | |
| 188 | -9 | 0 | 188 | -10 | 0 | 188 | -10 | 0.187 | 188 | -9 | 0 | 188 | -9 | 0 | 188 | -9 | 0 | |
| 189 | -8 | 0 | 189 | -9 | 0 | 189 | -9 | 0.186 | 189 | -8 | 0 | 189 | -8 | 0 | 189 | -8 | 0 | |
| 190 | -7 | 0 | 190 | -8 | 0 | 190 | -8 | 0.185 | 190 | -7 | 0 | 190 | -7 | 0 | 190 | -7 | 0 | |
| 191 | -6 | 0 | 191 | -7 | 0 | 191 | -7 | 0.184 | 191 | -6 | 0 | 191 | -6 | 0 | 191 | -6 | 0 | |
| 192 | -5 | 0 | 192 | -6 | 0 | 192 | -6 | 0.183 | 192 | -5 | 0 | 192 | -5 | 0 | 192 | -5 | 0 | |
| 193 | -4 | 0 | 193 | -5 | 0 | 193 | -5 | 0.182 | 193 | -4 | 0 | 193 | -4 | 0 | 193 | -4 | 0 | |
| 194 | -3 | 0 | 194 | -4 | 0 | 194 | -4 | 0.181 | 194 | -3 | 0 | 194 | -3 | 0 | 194 | -3 | 0 | |
| 195 | -2 | 0 | 195 | -3 | 0 | 195 | -3 | 0.18 | 195 | -2 | 0 | 195 | -2 | 0 | 195 | -2 | 0 | |
| 196 | -1 | 0 | 196 | -2 | 0 | 196 | -2 | 0.179 | 196 | -1 | 0 | 196 | -1 | 0 | 196 | -1 | 0 | |
| 197 | -1 | 0 | 197 | -1 | 0 | 197 | -1 | 0.178 | 197 | -1 | 0 | 197 | -1 | 0 | 197 | -1 | 0 | |
| 198 | -0.5 | 0 | 198 | -0.5 | 0 | 198 | -0.5 | 0.177 | 198 | -0.5 | 0 | 198 | -0.5 | 0 | 198 | -0.5 | 0 | |
| 199 | -0.1 | 0 | 199 | -0.1 | 0 | 199 | -0.1 | 0.176 | 199 | -0.1 | 0 | 199 | -0.1 | 0 | 199 | -0.1 | 0 | |
| 200 | 0 | 0 | 200 | 0 | 0 | 200 | 0 | 0.175 | 200 | 0 | 0 | 200 | 0 | 0 | 200 | 0 | 0 | |
| 201 | 1 | 0 | 201 | 1 | 0 | 201 | 1 | 0.174 | 201 | 1 | 0 | 201 | 1 | 0 | 201 | 1 | 0 | |
| 202 | 2 | 0 | 202 | 2 | 0 | 202 | 2 | 0.173 | 202 | 2 | 0 | 202 | 2 | 0 | 202 | 2 | 0 | |
| 203 | 3 | 0 | 203 | 3 | 0 | 203 | 3 | 0.172 | 203 | 3 | 0 | 203 | 3 | 0 | 203 | 3 | 0 | |
| 204 | 4 | 0 | 204 | 4 | 0 | 204 | 4 | 0.171 | 204 | 4 | 0 | 204 | 4 | 0 | 204 | 4 | 0 | |
| 205 | 5 | 0 | 205 | 5 | 0 | 205 | 5 | 0.17 | 205 | 5 | 0 | 205 | 5 | 0 | 205 | 5 | 0 | |
| 206 | 6 | 0 | 206 | 6 | 0 | 206 | 6 | 0.169 | 206 | 6 | 0 | 206 | 6 | 0 | 206 | 6 | 0 | |
| 207 | 7 | 0 | 207 | 7 | 0 | 207 | 7 | 0.168 | 207 | 7 | 0 | 207 | 7 | 0 | 207 | 7 | 0 | |
| 208 | 8 | 0 | 208 | 8 | 0 | 208 | 8 | 0.167 | 208 | 8 | 0 | 208 | 8 | 0 | 208 | 8 | 0 | |
| 209 | 9 | 0 | 209 | 9 | 0 | 209 | 9 | 0.166 | 209 | 9 | 0 | 209 | 9 | 0 | 209 | 9 | 0 | |
| 210 | 10 | 0 | 210 | 10 | 0 | 210 | 10 | 0.165 | 210 | 10 | 0 | 210 | 10 | 0 | 210 | 10 | 0 | |
| 211 | 11 | 0 | 211 | 11 | 0 | 211 | 11 | 0.164 | 211 | 11 | 0 | 211 | 11 | 0 | 211 | 11 | 0 | |
| 212 | 12 | 0 | 212 | 12 | 0 | 212 | 12 | 0.163 | 212 | 12 | 0 | 212 | 12 | 0 | 212 | 12 | 0 | |
| 213 | 13 | 0 | 213 | 13 | 0 | 213 | 13 | 0.162 | 213 | 13 | 0 | 213 | 13 | 0 | 213 | 13 | 0 | |
| 214 | 14 | 0 | 214 | 14 | 0 | 214 | 14 | 0.161 | 214 | 14 | 0 | 214 | 14 | 0 | 214 | 14 | 0 | |
| 215 | 15 | 0 | 215 | 15 | 0 | 215 | 15 | 0.16 | 215 | 15 | 0 | 215 | 15 | 0 | 215 | 15 | 0 | |
| 216 | 16 | 0 | 216 | 16 | 0 | 216 | 16 | 0.159 | 216 | 16 | 0 | 216 | 16 | 0 | 216 | 16 | 0 | |
| 217 | 17 | 0 | 217 | 17 | 0 | 217 | 17 | 0.158 | 217 | 17 | 0 | 217 | 17 | 0 | 217 | 17 | 0 | |
| 218 | 18 | 0 | 218 | 18 | 0 | 218 | 18 | 0.157 | 218 | 18 | 0 | 218 | 18 | 0 | 218 | 18 | 0 | |
| 219 | 19 | 0 | 219 | 19 | 0 | 219 | 19 | 0.156 | 219 | 19 | 0 | 219 | 19 | 0 | 219 | 19 | 0 | |
| 220 | 20 | 0 | 220 | 20 | 0 | 220 | 20 | 0.155 | 220 | 20 | 0 | 220 | 20 | 0 | 220 | 20 | 0 | |
| 221 | 21 | 0 | 221 | 21 | 0 | 221 | 21 | 0.154 | 221 | 21 | 0 | 221 | 21 | 0 | 221 | 21 | 0 | |
| 222 | 22 | 0 | 222 | 22 | 0 | 222 | 22 | 0.153 | 222 | 22 | 0 | 222 | 22 | 0 | 222 | 22 | 0 | |
| 223 | 23 | 0 | 223 | 23 | 0 | 223 | 23 | 0.152 | 223 | 23 | 0 | 223 | 23 | 0 | 223 | 23 | 0 | |
| 224 | 24 | 0 | 224 | 24 | 0 | 224 | 24 | 0.151 | 224 | 24 | 0 | 224 | 24 | 0 | 224 | 24 | 0 | |
| 225 | 25 | 0 | 225 | 25 | 0 | 225 | 25 | 0.15 | 225 | 25 | 0 | 225 | 25 | 0 | 225 | 25 | 0 | |
| 226 | 26 | 0 | 226 | 26 | 0 | 226 | 26 | 0.149 | 226 | 26 | 0 | 226 | 26 | 0 | 226 | 26 | 0 | |
| 227 | 27 | 0 | 227 | 27 | 0 | 227 | 27 | 0.148 | 227 | 27 | 0 | 227 | 27 | 0 | 227 | 27 | 0 | |
| 228 | 28 | 0 | 228 | 28 | 0 | 228 | 28 | 0.147 | 228 | 28 | 0 | 228 | 28 | 0 | 228 | 28 | 0 | |
| 229 | 29 | 0 | 229 | 29 | 0 | 229 | 29 | 0.146 | 229 | 29 | 0 | 229 | 29 | 0 | 229 | 29 | 0 | |
| 230 | 30 | 0 | 230 | 30 | 0 | 230 | 30 | 0.145 | 230 | 30 | 0 | 230 | 30 | 0 | 230 | 30 | 0 | |
| 231 | 31 | 0 | 231 | 31 | 0 | 231 | 31 | 0.144 | 231 | 31 | 0 | 231 | 31 | 0 | 231 | 31 | 0 | |
| 232 | 32 | 0 | 232 | 32 | 0 | 232 | 32 | 0.143 | 232 | 32 | 0 | 232 | 32 | 0 | 232 | 32 | 0 | |
| 233 | 33 | 0 | 233 | 33 | 0 | 233 | 33 | 0.142 | 233 | 33 | 0 | 233 | 33 | 0 | 233 | 33 | 0 | |
| 234 | 34 | 0 | 234 | 34 | 0 | 234 | 34 | 0.141 | 234 | 34 | 0 | 234 | 34 | 0 | 234 | 34 | 0 | |
| 235 | 35 | 0 | 235 | 35 | 0 | 235 | 35 | 0.14 | 235 | 35 | 0 | 235 | 35 | 0 | 235 | 35 | 0 | |
| 236 | 36 | 0 | 236 | 36 | 0 | 236 | 36 | 0.139 | 236 | 36 | 0 | 236 | 36 | 0 | 236 | 36 | 0 | |
| 237 | 37 | 0 | 237 | 37 | 0 | 237 | 37 | 0.138 | 237 | 37 | 0 | 237 | 37 | 0 | 237 | 37 | 0 | |
| 238 | 38 | 0 | 238 | 38 | 0 | 238 | 38 | 0.137 | 238 | 38 | 0 | 238 | 38 | 0 | 238 | 38 | 0 | |
| 239 | 39 | 0 | 239 | 39 | 0 | 239 | 39 | 0.136 | 239 | 39 | 0 | 239 | 39 | 0 | 239 | 39 | 0 | |
| 240 | 40 | 0 | 240 | 40 | 0 | 240 | 40 | 0.135 | 240 | 40 | 0 | 240 | 40 | 0 | 240 | 40 | 0 | |
| 241 | 41 | 0 | 241 | 41 | 0 | 241 | 41 | 0.134 | 241 | 41 | 0 | 241 | 41 | 0 | 241 | 41 | 0 | |
| 242 | 42 | 0 | 242 | 42 | 0 | 242 | 42 | 0.133 | 242 | 42 | 0 | 242 | 42 | 0 | 242 | 42 | 0 | |
| 243 | 43 | 0 | 243 | 43 | 0 | 243 | 43 | 0.132 | 243 | 43 | 0 | 243 | 43 | 0 | 243 | 43 | 0 | |
| 244 | 44 | 0 | 244 | 44 | 0 | 244 | 44 | 0.131 | 244 | 44 | 0 | 244 | 44 | 0 | 244 | 44 | 0 | |
| 245 | 45 | 0 | 245 | 45 | 0 | 245 | 45 | 0.13 | 245 | 45 | 0 | 245 | 45 | 0 | 245 | 45 | 0 | |
| 246 | 46 | 0 | 246 | 46 | 0 | 246 | 46 | 0.128 | 246 | 46 | 0 | 246 | 46 | 0 | 246 | 46 | 0 | |
| 247 | 47 | 0 | 247 | 47 | 0 | 247 | 47 | 0.125 | 247 | 47 | 0 | 247 | 47 | 0 | 247 | 47 | 0 | |
| 248 | 48 | 0 | 248 | 48 | 0 | 248 | 48 | 0.123 | 248 | 48 | 0 | 248 | 48 | 0 | 248 | 48 | 0 | |
| 249 | 49 | 0 | 249 | 49 | 0 | 249 | 49 | 0.12 | 249 | 49 | 0 | 249 | 49 | 0 | 249 | 49 | 0 | |

| LOAM5M1M | | | LOAM5M30CM | | | LOAM5M3M | | | LOAM5MTOP | | | LOAM5MBOTTOM | | | LOAM5MFLAT | | |
|----------|--------|--------|------------|--------|--------|----------|--------|--------|-----------|--------|--------|--------------|--------|--------|------------|--------|--------|
| Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) |
| 0 | -500 | 0 | 0 | -1575 | 0 | 0 | -975 | 0 | 0 | -500 | 0.5 | 0 | -500 | 0 | 0 | -500 | 0 |
| 0.1 | -502 | 0.125 | 0.1 | -1573 | 0.05 | 0.1 | -975.5 | 0.01 | 0.1 | -502 | 0.75 | 0.1 | -502 | 0.001 | 0.1 | -502 | 0.5 |
| 0.2 | -504 | 0.15 | 0.2 | -1571 | 0.1 | 0.2 | -976 | 0.02 | 0.2 | -504 | 1 | 0.2 | -504 | 0.002 | 0.2 | -504 | 0.5 |
| 0.3 | -506 | 0.175 | 0.3 | -1569 | 0.15 | 0.3 | -976.5 | 0.03 | 0.3 | -506 | 1 | 0.3 | -506 | 0.003 | 0.3 | -506 | 0.5 |
| 0.4 | -508 | 0.2 | 0.4 | -1567 | 0.2 | 0.4 | -977 | 0.04 | 0.4 | -508 | 1 | 0.4 | -508 | 0.004 | 0.4 | -508 | 0.5 |
| 0.5 | -510 | 0.225 | 0.5 | -1565 | 0.25 | 0.5 | -977.5 | 0.05 | 0.5 | -510 | 1 | 0.5 | -510 | 0.005 | 0.5 | -510 | 0.5 |
| 0.6 | -512 | 0.25 | 0.6 | -1563 | 0.3 | 0.6 | -978 | 0.06 | 0.6 | -512 | 1 | 0.6 | -512 | 0.006 | 0.6 | -512 | 0.5 |
| 0.7 | -514 | 0.275 | 0.7 | -1561 | 0.35 | 0.7 | -978.5 | 0.07 | 0.7 | -514 | 1 | 0.7 | -514 | 0.007 | 0.7 | -514 | 0.5 |
| 0.8 | -516 | 0.3 | 0.8 | -1559 | 0.4 | 0.8 | -979 | 0.08 | 0.8 | -516 | 1 | 0.8 | -516 | 0.008 | 0.8 | -516 | 0.5 |
| 0.9 | -518 | 0.325 | 0.9 | -1557 | 0.425 | 0.9 | -979.5 | 0.09 | 0.9 | -518 | 1 | 0.9 | -518 | 0.009 | 0.9 | -518 | 0.5 |
| 1 | -520 | 0.35 | 1 | -1555 | 0.45 | 1 | -980 | 0.1 | 1 | -520 | 0.99 | 1 | -520 | 0.01 | 1 | -520 | 0.5 |
| 2 | -540 | 0.4 | 2 | -1560 | 0.7 | 2 | -985 | 0.15 | 2 | -540 | 0.98 | 2 | -540 | 0.02 | 2 | -540 | 0.5 |
| 3 | -560 | 0.45 | 3 | -1570 | 0.95 | 3 | -990 | 0.2 | 3 | -560 | 0.97 | 3 | -560 | 0.03 | 3 | -560 | 0.5 |
| 4 | -580 | 0.5 | 4 | -1580 | 1 | 4 | -995 | 0.25 | 4 | -580 | 0.96 | 4 | -580 | 0.04 | 4 | -580 | 0.5 |
| 5 | -600 | 0.55 | 5 | -1590 | 1 | 5 | -1000 | 0.3 | 5 | -600 | 0.95 | 5 | -600 | 0.05 | 5 | -600 | 0.5 |
| 6 | -620 | 0.6 | 6 | -1600 | 1 | 6 | -1005 | 0.35 | 6 | -620 | 0.94 | 6 | -620 | 0.06 | 6 | -620 | 0.5 |
| 7 | -640 | 0.65 | 7 | -1610 | 1 | 7 | -1010 | 0.4 | 7 | -640 | 0.93 | 7 | -640 | 0.07 | 7 | -640 | 0.5 |
| 8 | -660 | 0.7 | 8 | -1620 | 1 | 8 | -1015 | 0.45 | 8 | -660 | 0.92 | 8 | -660 | 0.08 | 8 | -660 | 0.5 |
| 9 | -680 | 0.75 | 9 | -1625 | 1 | 9 | -1020 | 0.5 | 9 | -680 | 0.91 | 9 | -680 | 0.09 | 9 | -680 | 0.5 |
| 10 | -700 | 0.8 | 10 | -1630 | 1 | 10 | -1025 | 0.55 | 10 | -700 | 0.9 | 10 | -700 | 0.1 | 10 | -700 | 0.5 |
| 11 | -720 | 0.85 | 11 | -1635 | 0.9 | 11 | -1030 | 0.6 | 11 | -720 | 0.89 | 11 | -720 | 0.11 | 11 | -720 | 0.5 |
| 12 | -740 | 0.9 | 12 | -1640 | 0.8 | 12 | -1035 | 0.65 | 12 | -740 | 0.88 | 12 | -740 | 0.12 | 12 | -740 | 0.5 |
| 13 | -760 | 0.95 | 13 | -1642 | 0.7 | 13 | -1040 | 0.675 | 13 | -760 | 0.87 | 13 | -760 | 0.13 | 13 | -760 | 0.5 |
| 14 | -780 | 1 | 14 | -1643 | 0.6 | 14 | -1045 | 0.7 | 14 | -780 | 0.86 | 14 | -780 | 0.14 | 14 | -780 | 0.5 |
| 15 | -800 | 1 | 15 | -1644 | 0.5 | 15 | -1050 | 0.725 | 15 | -800 | 0.85 | 15 | -800 | 0.15 | 15 | -800 | 0.5 |
| 16 | -820 | 1 | 16 | -1645 | 0.45 | 16 | -1055 | 0.75 | 16 | -820 | 0.84 | 16 | -820 | 0.16 | 16 | -820 | 0.5 |
| 17 | -840 | 1 | 17 | -1645 | 0.4 | 17 | -1060 | 0.775 | 17 | -840 | 0.83 | 17 | -840 | 0.17 | 17 | -840 | 0.5 |
| 18 | -860 | 1 | 18 | -1645 | 0.35 | 18 | -1065 | 0.8 | 18 | -860 | 0.82 | 18 | -860 | 0.18 | 18 | -860 | 0.5 |
| 19 | -880 | 1 | 19 | -1645 | 0.3 | 19 | -1070 | 0.825 | 19 | -880 | 0.81 | 19 | -880 | 0.19 | 19 | -880 | 0.5 |
| 20 | -900 | 1 | 20 | -1645 | 0.25 | 20 | -1075 | 0.85 | 20 | -900 | 0.8 | 20 | -900 | 0.2 | 20 | -900 | 0.5 |
| 21 | -920 | 1 | 21 | -1645 | 0.2 | 21 | -1080 | 0.875 | 21 | -920 | 0.79 | 21 | -920 | 0.21 | 21 | -920 | 0.5 |
| 22 | -940 | 1 | 22 | -1644 | 0.175 | 22 | -1085 | 0.9 | 22 | -940 | 0.78 | 22 | -940 | 0.22 | 22 | -940 | 0.5 |
| 23 | -960 | 1 | 23 | -1643 | 0.15 | 23 | -1090 | 0.92 | 23 | -960 | 0.77 | 23 | -960 | 0.23 | 23 | -960 | 0.5 |
| 24 | -980 | 1 | 24 | -1642 | 0.125 | 24 | -1095 | 0.94 | 24 | -980 | 0.76 | 24 | -980 | 0.24 | 24 | -980 | 0.5 |
| 25 | -1000 | 1 | 25 | -1640 | 0.1 | 25 | -1100 | 0.96 | 25 | -1000 | 0.75 | 25 | -1000 | 0.25 | 25 | -1000 | 0.5 |
| 26 | -1020 | 1 | 26 | -1638 | 0.075 | 26 | -1110 | 0.98 | 26 | -1020 | 0.74 | 26 | -1020 | 0.26 | 26 | -1020 | 0.5 |
| 27 | -1040 | 1 | 27 | -1636 | 0.05 | 27 | -1120 | 1 | 27 | -1040 | 0.73 | 27 | -1040 | 0.27 | 27 | -1040 | 0.5 |
| 28 | -1050 | 1 | 28 | -1631 | 0.025 | 28 | -1130 | 1 | 28 | -1050 | 0.72 | 28 | -1050 | 0.28 | 28 | -1050 | 0.5 |
| 29 | -1060 | 1 | 29 | -1626 | 0.01 | 29 | -1140 | 1 | 29 | -1060 | 0.71 | 29 | -1060 | 0.29 | 29 | -1060 | 0.5 |
| 30 | -1070 | 1 | 30 | -1620 | 0.001 | 30 | -1150 | 1 | 30 | -1070 | 0.7 | 30 | -1070 | 0.3 | 30 | -1070 | 0.5 |
| 31 | -1075 | 0.99 | 31 | -1610 | 0 | 31 | -1160 | 1 | 31 | -1075 | 0.69 | 31 | -1075 | 0.31 | 31 | -1075 | 0.5 |
| 32 | -1080 | 0.98 | 32 | -1600 | 0 | 32 | -1170 | 1 | 32 | -1080 | 0.68 | 32 | -1080 | 0.32 | 32 | -1080 | 0.5 |
| 33 | -1085 | 0.97 | 33 | -1590 | 0 | 33 | -1180 | 1 | 33 | -1085 | 0.67 | 33 | -1085 | 0.33 | 33 | -1085 | 0.5 |
| 34 | -1090 | 0.96 | 34 | -1580 | 0 | 34 | -1190 | 1 | 34 | -1090 | 0.66 | 34 | -1090 | 0.34 | 34 | -1090 | 0.5 |
| 35 | -1095 | 0.95 | 35 | -1570 | 0 | 35 | -1200 | 1 | 35 | -1095 | 0.65 | 35 | -1095 | 0.35 | 35 | -1095 | 0.5 |
| 36 | -1100 | 0.94 | 36 | -1560 | 0 | 36 | -1210 | 1 | 36 | -1100 | 0.64 | 36 | -1100 | 0.36 | 36 | -1100 | 0.5 |
| 37 | -1102 | 0.93 | 37 | -1550 | 0 | 37 | -1220 | 1 | 37 | -1102 | 0.63 | 37 | -1102 | 0.37 | 37 | -1102 | 0.5 |
| 38 | -1104 | 0.92 | 38 | -1540 | 0 | 38 | -1230 | 1 | 38 | -1104 | 0.62 | 38 | -1104 | 0.38 | 38 | -1104 | 0.5 |
| 39 | -1106 | 0.91 | 39 | -1530 | 0 | 39 | -1240 | 1 | 39 | -1106 | 0.61 | 39 | -1106 | 0.39 | 39 | -1106 | 0.5 |
| 40 | -1108 | 0.9 | 40 | -1520 | 0 | 40 | -1250 | 1 | 40 | -1108 | 0.6 | 40 | -1108 | 0.4 | 40 | -1108 | 0.5 |
| 41 | -1110 | 0.88 | 41 | -1510 | 0 | 41 | -1260 | 1 | 41 | -1110 | 0.59 | 41 | -1110 | 0.41 | 41 | -1110 | 0.5 |
| 42 | -1112 | 0.86 | 42 | -1500 | 0 | 42 | -1270 | 1 | 42 | -1112 | 0.58 | 42 | -1112 | 0.42 | 42 | -1112 | 0.5 |
| 43 | -1114 | 0.84 | 43 | -1490 | 0 | 43 | -1280 | 1 | 43 | -1114 | 0.57 | 43 | -1114 | 0.43 | 43 | -1114 | 0.5 |
| 44 | -1116 | 0.82 | 44 | -1480 | 0 | 44 | -1290 | 1 | 44 | -1116 | 0.56 | 44 | -1116 | 0.44 | 44 | -1116 | 0.5 |
| 45 | -1118 | 0.8 | 45 | -1470 | 0 | 45 | -1300 | 1 | 45 | -1118 | 0.55 | 45 | -1118 | 0.45 | 45 | -1118 | 0.5 |
| 46 | -1119 | 0.78 | 46 | -1460 | 0 | 46 | -1310 | 1 | 46 | -1119 | 0.54 | 46 | -1119 | 0.46 | 46 | -1119 | 0.5 |
| 47 | -1120 | 0.76 | 47 | -1450 | 0 | 47 | -1320 | 1 | 47 | -1120 | 0.53 | 47 | -1120 | 0.47 | 47 | -1120 | 0.5 |
| 48 | -1121 | 0.74 | 48 | -1440 | 0 | 48 | -1330 | 1 | 48 | -1121 | 0.52 | 48 | -1121 | 0.48 | 48 | -1121 | 0.5 |
| 49 | -1122 | 0.72 | 49 | -1430 | 0 | 49 | -1340 | 1 | 49 | -1122 | 0.51 | 49 | -1122 | 0.49 | 49 | -1122 | 0.5 |
| 50 | -1123 | 0.7 | 50 | -1420 | 0 | 50 | -1350 | 1 | 50 | -1123 | 0.5 | 50 | -1123 | 0.5 | 50 | -1123 | 0.5 |
| 51 | -1124 | 0.68 | 51 | -1410 | 0 | 51 | -1360 | 0.99 | 51 | -1124 | 0.49 | 51 | -1124 | 0.51 | 51 | -1124 | 0.5 |

| | | | | | | | | | | | | | | |
|-----|------|---|-----|------|---|-----|-------|-------|-----|------|---|-----|------|---|
| 118 | -930 | 0 | 118 | -820 | 0 | 118 | -1357 | 0.285 | 118 | -930 | 0 | 118 | -930 | 0 |
| 119 | -920 | 0 | 119 | -815 | 0 | 119 | -1356 | 0.28 | 119 | -920 | 0 | 119 | -920 | 0 |
| 120 | -910 | 0 | 120 | -810 | 0 | 120 | -1355 | 0.275 | 120 | -910 | 0 | 120 | -910 | 0 |
| 121 | -900 | 0 | 121 | -805 | 0 | 121 | -1354 | 0.27 | 121 | -900 | 0 | 121 | -900 | 0 |
| 122 | -890 | 0 | 122 | -800 | 0 | 122 | -1353 | 0.265 | 122 | -890 | 0 | 122 | -890 | 0 |
| 123 | -880 | 0 | 123 | -795 | 0 | 123 | -1352 | 0.26 | 123 | -880 | 0 | 123 | -880 | 0 |
| 124 | -870 | 0 | 124 | -790 | 0 | 124 | -1351 | 0.255 | 124 | -870 | 0 | 124 | -870 | 0 |
| 125 | -860 | 0 | 125 | -785 | 0 | 125 | -1350 | 0.25 | 125 | -860 | 0 | 125 | -860 | 0 |
| 126 | -850 | 0 | 126 | -780 | 0 | 126 | -1348 | 0.249 | 126 | -850 | 0 | 126 | -850 | 0 |
| 127 | -840 | 0 | 127 | -775 | 0 | 127 | -1346 | 0.248 | 127 | -840 | 0 | 127 | -840 | 0 |
| 128 | -830 | 0 | 128 | -770 | 0 | 128 | -1344 | 0.247 | 128 | -830 | 0 | 128 | -830 | 0 |
| 129 | -820 | 0 | 129 | -765 | 0 | 129 | -1342 | 0.246 | 129 | -820 | 0 | 129 | -820 | 0 |
| 130 | -810 | 0 | 130 | -760 | 0 | 130 | -1340 | 0.245 | 130 | -810 | 0 | 130 | -810 | 0 |
| 131 | -800 | 0 | 131 | -755 | 0 | 131 | -1338 | 0.244 | 131 | -800 | 0 | 131 | -800 | 0 |
| 132 | -790 | 0 | 132 | -750 | 0 | 132 | -1336 | 0.243 | 132 | -790 | 0 | 132 | -790 | 0 |
| 133 | -780 | 0 | 133 | -745 | 0 | 133 | -1334 | 0.242 | 133 | -780 | 0 | 133 | -780 | 0 |
| 134 | -770 | 0 | 134 | -740 | 0 | 134 | -1332 | 0.241 | 134 | -770 | 0 | 134 | -770 | 0 |
| 135 | -760 | 0 | 135 | -735 | 0 | 135 | -1330 | 0.24 | 135 | -760 | 0 | 135 | -760 | 0 |
| 136 | -750 | 0 | 136 | -730 | 0 | 136 | -1328 | 0.239 | 136 | -750 | 0 | 136 | -750 | 0 |
| 137 | -740 | 0 | 137 | -725 | 0 | 137 | -1326 | 0.238 | 137 | -740 | 0 | 137 | -740 | 0 |
| 138 | -730 | 0 | 138 | -720 | 0 | 138 | -1324 | 0.237 | 138 | -730 | 0 | 138 | -730 | 0 |
| 139 | -720 | 0 | 139 | -715 | 0 | 139 | -1322 | 0.236 | 139 | -720 | 0 | 139 | -720 | 0 |
| 140 | -710 | 0 | 140 | -710 | 0 | 140 | -1320 | 0.235 | 140 | -710 | 0 | 140 | -710 | 0 |
| 141 | -700 | 0 | 141 | -705 | 0 | 141 | -1318 | 0.234 | 141 | -700 | 0 | 141 | -700 | 0 |
| 142 | -690 | 0 | 142 | -700 | 0 | 142 | -1316 | 0.233 | 142 | -690 | 0 | 142 | -690 | 0 |
| 143 | -680 | 0 | 143 | -695 | 0 | 143 | -1314 | 0.232 | 143 | -680 | 0 | 143 | -680 | 0 |
| 144 | -670 | 0 | 144 | -690 | 0 | 144 | -1312 | 0.231 | 144 | -670 | 0 | 144 | -670 | 0 |
| 145 | -660 | 0 | 145 | -685 | 0 | 145 | -1310 | 0.23 | 145 | -660 | 0 | 145 | -660 | 0 |
| 146 | -650 | 0 | 146 | -680 | 0 | 146 | -1308 | 0.229 | 146 | -650 | 0 | 146 | -650 | 0 |
| 147 | -640 | 0 | 147 | -675 | 0 | 147 | -1306 | 0.228 | 147 | -640 | 0 | 147 | -640 | 0 |
| 148 | -630 | 0 | 148 | -670 | 0 | 148 | -1304 | 0.227 | 148 | -630 | 0 | 148 | -630 | 0 |
| 149 | -620 | 0 | 149 | -665 | 0 | 149 | -1302 | 0.226 | 149 | -620 | 0 | 149 | -620 | 0 |
| 150 | -615 | 0 | 150 | -660 | 0 | 150 | -1300 | 0.225 | 150 | -615 | 0 | 150 | -615 | 0 |
| 151 | -610 | 0 | 151 | -655 | 0 | 151 | -1298 | 0.224 | 151 | -610 | 0 | 151 | -610 | 0 |
| 152 | -605 | 0 | 152 | -650 | 0 | 152 | -1296 | 0.223 | 152 | -605 | 0 | 152 | -605 | 0 |
| 153 | -600 | 0 | 153 | -645 | 0 | 153 | -1294 | 0.222 | 153 | -600 | 0 | 153 | -600 | 0 |
| 154 | -595 | 0 | 154 | -640 | 0 | 154 | -1292 | 0.221 | 154 | -595 | 0 | 154 | -595 | 0 |
| 155 | -590 | 0 | 155 | -635 | 0 | 155 | -1290 | 0.22 | 155 | -590 | 0 | 155 | -590 | 0 |
| 156 | -585 | 0 | 156 | -630 | 0 | 156 | -1288 | 0.219 | 156 | -585 | 0 | 156 | -585 | 0 |
| 157 | -580 | 0 | 157 | -625 | 0 | 157 | -1286 | 0.218 | 157 | -580 | 0 | 157 | -580 | 0 |
| 158 | -575 | 0 | 158 | -620 | 0 | 158 | -1284 | 0.217 | 158 | -575 | 0 | 158 | -575 | 0 |
| 159 | -570 | 0 | 159 | -615 | 0 | 159 | -1282 | 0.216 | 159 | -570 | 0 | 159 | -570 | 0 |
| 160 | -565 | 0 | 160 | -610 | 0 | 160 | -1280 | 0.215 | 160 | -565 | 0 | 160 | -565 | 0 |
| 161 | -560 | 0 | 161 | -605 | 0 | 161 | -1278 | 0.214 | 161 | -560 | 0 | 161 | -560 | 0 |
| 162 | -555 | 0 | 162 | -600 | 0 | 162 | -1276 | 0.213 | 162 | -555 | 0 | 162 | -555 | 0 |
| 163 | -550 | 0 | 163 | -595 | 0 | 163 | -1274 | 0.212 | 163 | -550 | 0 | 163 | -550 | 0 |
| 164 | -545 | 0 | 164 | -590 | 0 | 164 | -1272 | 0.211 | 164 | -545 | 0 | 164 | -545 | 0 |
| 165 | -540 | 0 | 165 | -585 | 0 | 165 | -1270 | 0.21 | 165 | -540 | 0 | 165 | -540 | 0 |
| 166 | -535 | 0 | 166 | -580 | 0 | 166 | -1268 | 0.209 | 166 | -535 | 0 | 166 | -535 | 0 |
| 167 | -530 | 0 | 167 | -575 | 0 | 167 | -1266 | 0.208 | 167 | -530 | 0 | 167 | -530 | 0 |
| 168 | -525 | 0 | 168 | -570 | 0 | 168 | -1264 | 0.207 | 168 | -525 | 0 | 168 | -525 | 0 |
| 169 | -520 | 0 | 169 | -565 | 0 | 169 | -1262 | 0.206 | 169 | -520 | 0 | 169 | -520 | 0 |
| 170 | -515 | 0 | 170 | -560 | 0 | 170 | -1260 | 0.205 | 170 | -515 | 0 | 170 | -515 | 0 |
| 171 | -510 | 0 | 171 | -555 | 0 | 171 | -1258 | 0.204 | 171 | -510 | 0 | 171 | -510 | 0 |
| 172 | -505 | 0 | 172 | -550 | 0 | 172 | -1256 | 0.203 | 172 | -505 | 0 | 172 | -505 | 0 |
| 173 | -500 | 0 | 173 | -545 | 0 | 173 | -1254 | 0.202 | 173 | -500 | 0 | 173 | -500 | 0 |
| 174 | -495 | 0 | 174 | -540 | 0 | 174 | -1252 | 0.201 | 174 | -495 | 0 | 174 | -495 | 0 |
| 175 | -490 | 0 | 175 | -535 | 0 | 175 | -1250 | 0.2 | 175 | -490 | 0 | 175 | -490 | 0 |
| 176 | -485 | 0 | 176 | -530 | 0 | 176 | -1248 | 0.199 | 176 | -485 | 0 | 176 | -485 | 0 |
| 177 | -480 | 0 | 177 | -525 | 0 | 177 | -1246 | 0.198 | 177 | -480 | 0 | 177 | -480 | 0 |
| 178 | -475 | 0 | 178 | -520 | 0 | 178 | -1244 | 0.197 | 178 | -475 | 0 | 178 | -475 | 0 |
| 179 | -470 | 0 | 179 | -515 | 0 | 179 | -1242 | 0.196 | 179 | -470 | 0 | 179 | -470 | 0 |
| 180 | -465 | 0 | 180 | -510 | 0 | 180 | -1240 | 0.195 | 180 | -465 | 0 | 180 | -465 | 0 |
| 181 | -460 | 0 | 181 | -505 | 0 | 181 | -1238 | 0.194 | 181 | -460 | 0 | 181 | -460 | 0 |
| 182 | -455 | 0 | 182 | -500 | 0 | 182 | -1236 | 0.193 | 182 | -455 | 0 | 182 | -455 | 0 |
| 183 | -450 | 0 | 183 | -495 | 0 | 183 | -1234 | 0.192 | 183 | -450 | 0 | 183 | -450 | 0 |

| | | | | | | | | | | | | | | | | |
|-----|------|---|-----|------|---|-----|-------|-------|-----|------|---|-----|------|---|-----|------|
| 184 | -445 | 0 | 184 | -490 | 0 | 184 | -1232 | 0.191 | 184 | -445 | 0 | 184 | -445 | 0 | 184 | -445 |
| 185 | -440 | 0 | 185 | -485 | 0 | 185 | -1230 | 0.19 | 185 | -440 | 0 | 185 | -440 | 0 | 185 | -440 |
| 186 | -435 | 0 | 186 | -480 | 0 | 186 | -1228 | 0.189 | 186 | -435 | 0 | 186 | -435 | 0 | 186 | -435 |
| 187 | -430 | 0 | 187 | -475 | 0 | 187 | -1226 | 0.188 | 187 | -430 | 0 | 187 | -430 | 0 | 187 | -430 |
| 188 | -425 | 0 | 188 | -470 | 0 | 188 | -1224 | 0.187 | 188 | -425 | 0 | 188 | -425 | 0 | 188 | -425 |
| 189 | -420 | 0 | 189 | -465 | 0 | 189 | -1222 | 0.186 | 189 | -420 | 0 | 189 | -420 | 0 | 189 | -420 |
| 190 | -415 | 0 | 190 | -460 | 0 | 190 | -1220 | 0.185 | 190 | -415 | 0 | 190 | -415 | 0 | 190 | -415 |
| 191 | -410 | 0 | 191 | -455 | 0 | 191 | -1218 | 0.184 | 191 | -410 | 0 | 191 | -410 | 0 | 191 | -410 |
| 192 | -405 | 0 | 192 | -450 | 0 | 192 | -1216 | 0.183 | 192 | -405 | 0 | 192 | -405 | 0 | 192 | -405 |
| 193 | -400 | 0 | 193 | -445 | 0 | 193 | -1214 | 0.182 | 193 | -400 | 0 | 193 | -400 | 0 | 193 | -400 |
| 194 | -395 | 0 | 194 | -440 | 0 | 194 | -1212 | 0.181 | 194 | -395 | 0 | 194 | -395 | 0 | 194 | -395 |
| 195 | -390 | 0 | 195 | -435 | 0 | 195 | -1210 | 0.18 | 195 | -390 | 0 | 195 | -390 | 0 | 195 | -390 |
| 196 | -385 | 0 | 196 | -430 | 0 | 196 | -1205 | 0.179 | 196 | -385 | 0 | 196 | -385 | 0 | 196 | -385 |
| 197 | -380 | 0 | 197 | -425 | 0 | 197 | -1200 | 0.178 | 197 | -380 | 0 | 197 | -380 | 0 | 197 | -380 |
| 198 | -375 | 0 | 198 | -420 | 0 | 198 | -1195 | 0.177 | 198 | -375 | 0 | 198 | -375 | 0 | 198 | -375 |
| 199 | -370 | 0 | 199 | -415 | 0 | 199 | -1190 | 0.176 | 199 | -370 | 0 | 199 | -370 | 0 | 199 | -370 |
| 200 | -365 | 0 | 200 | -410 | 0 | 200 | -1185 | 0.175 | 200 | -365 | 0 | 200 | -365 | 0 | 200 | -365 |
| 201 | -360 | 0 | 201 | -405 | 0 | 201 | -1180 | 0.174 | 201 | -360 | 0 | 201 | -360 | 0 | 201 | -360 |
| 202 | -355 | 0 | 202 | -400 | 0 | 202 | -1175 | 0.173 | 202 | -355 | 0 | 202 | -355 | 0 | 202 | -355 |
| 203 | -350 | 0 | 203 | -395 | 0 | 203 | -1170 | 0.172 | 203 | -350 | 0 | 203 | -350 | 0 | 203 | -350 |
| 204 | -345 | 0 | 204 | -390 | 0 | 204 | -1165 | 0.171 | 204 | -345 | 0 | 204 | -345 | 0 | 204 | -345 |
| 205 | -340 | 0 | 205 | -385 | 0 | 205 | -1160 | 0.17 | 205 | -340 | 0 | 205 | -340 | 0 | 205 | -340 |
| 206 | -335 | 0 | 206 | -380 | 0 | 206 | -1155 | 0.169 | 206 | -335 | 0 | 206 | -335 | 0 | 206 | -335 |
| 207 | -330 | 0 | 207 | -375 | 0 | 207 | -1150 | 0.168 | 207 | -330 | 0 | 207 | -330 | 0 | 207 | -330 |
| 208 | -328 | 0 | 208 | -370 | 0 | 208 | -1145 | 0.167 | 208 | -328 | 0 | 208 | -328 | 0 | 208 | -328 |
| 209 | -326 | 0 | 209 | -365 | 0 | 209 | -1140 | 0.166 | 209 | -326 | 0 | 209 | -326 | 0 | 209 | -326 |
| 210 | -324 | 0 | 210 | -360 | 0 | 210 | -1135 | 0.165 | 210 | -324 | 0 | 210 | -324 | 0 | 210 | -324 |
| 211 | -322 | 0 | 211 | -355 | 0 | 211 | -1130 | 0.164 | 211 | -322 | 0 | 211 | -322 | 0 | 211 | -322 |
| 212 | -320 | 0 | 212 | -350 | 0 | 212 | -1125 | 0.163 | 212 | -320 | 0 | 212 | -320 | 0 | 212 | -320 |
| 213 | -318 | 0 | 213 | -345 | 0 | 213 | -1120 | 0.162 | 213 | -318 | 0 | 213 | -318 | 0 | 213 | -318 |
| 214 | -316 | 0 | 214 | -340 | 0 | 214 | -1115 | 0.161 | 214 | -316 | 0 | 214 | -316 | 0 | 214 | -316 |
| 215 | -314 | 0 | 215 | -335 | 0 | 215 | -1110 | 0.16 | 215 | -314 | 0 | 215 | -314 | 0 | 215 | -314 |
| 216 | -312 | 0 | 216 | -330 | 0 | 216 | -1105 | 0.159 | 216 | -312 | 0 | 216 | -312 | 0 | 216 | -312 |
| 217 | -310 | 0 | 217 | -325 | 0 | 217 | -1100 | 0.158 | 217 | -310 | 0 | 217 | -310 | 0 | 217 | -310 |
| 218 | -308 | 0 | 218 | -320 | 0 | 218 | -1095 | 0.157 | 218 | -308 | 0 | 218 | -308 | 0 | 218 | -308 |
| 219 | -306 | 0 | 219 | -315 | 0 | 219 | -1090 | 0.156 | 219 | -306 | 0 | 219 | -306 | 0 | 219 | -306 |
| 220 | -304 | 0 | 220 | -310 | 0 | 220 | -1085 | 0.155 | 220 | -304 | 0 | 220 | -304 | 0 | 220 | -304 |
| 221 | -302 | 0 | 221 | -305 | 0 | 221 | -1080 | 0.154 | 221 | -302 | 0 | 221 | -302 | 0 | 221 | -302 |
| 222 | -300 | 0 | 222 | -300 | 0 | 222 | -1075 | 0.153 | 222 | -300 | 0 | 222 | -300 | 0 | 222 | -300 |
| 223 | -298 | 0 | 223 | -295 | 0 | 223 | -1070 | 0.152 | 223 | -298 | 0 | 223 | -298 | 0 | 223 | -298 |
| 224 | -296 | 0 | 224 | -290 | 0 | 224 | -1065 | 0.151 | 224 | -296 | 0 | 224 | -296 | 0 | 224 | -296 |
| 225 | -294 | 0 | 225 | -285 | 0 | 225 | -1060 | 0.15 | 225 | -294 | 0 | 225 | -294 | 0 | 225 | -294 |
| 226 | -292 | 0 | 226 | -280 | 0 | 226 | -1055 | 0.149 | 226 | -292 | 0 | 226 | -292 | 0 | 226 | -292 |
| 227 | -290 | 0 | 227 | -278 | 0 | 227 | -1050 | 0.148 | 227 | -290 | 0 | 227 | -290 | 0 | 227 | -290 |
| 228 | -288 | 0 | 228 | -276 | 0 | 228 | -1045 | 0.147 | 228 | -288 | 0 | 228 | -288 | 0 | 228 | -288 |
| 229 | -286 | 0 | 229 | -274 | 0 | 229 | -1040 | 0.146 | 229 | -286 | 0 | 229 | -286 | 0 | 229 | -286 |
| 230 | -284 | 0 | 230 | -272 | 0 | 230 | -1035 | 0.145 | 230 | -284 | 0 | 230 | -284 | 0 | 230 | -284 |
| 231 | -282 | 0 | 231 | -270 | 0 | 231 | -1030 | 0.144 | 231 | -282 | 0 | 231 | -282 | 0 | 231 | -282 |
| 232 | -280 | 0 | 232 | -268 | 0 | 232 | -1025 | 0.143 | 232 | -280 | 0 | 232 | -280 | 0 | 232 | -280 |
| 233 | -278 | 0 | 233 | -266 | 0 | 233 | -1020 | 0.142 | 233 | -278 | 0 | 233 | -278 | 0 | 233 | -278 |
| 234 | -276 | 0 | 234 | -264 | 0 | 234 | -1015 | 0.141 | 234 | -276 | 0 | 234 | -276 | 0 | 234 | -276 |
| 235 | -274 | 0 | 235 | -262 | 0 | 235 | -1010 | 0.14 | 235 | -274 | 0 | 235 | -274 | 0 | 235 | -274 |
| 236 | -272 | 0 | 236 | -260 | 0 | 236 | -1005 | 0.139 | 236 | -272 | 0 | 236 | -272 | 0 | 236 | -272 |
| 237 | -270 | 0 | 237 | -258 | 0 | 237 | -1000 | 0.138 | 237 | -270 | 0 | 237 | -270 | 0 | 237 | -270 |
| 238 | -268 | 0 | 238 | -256 | 0 | 238 | -995 | 0.137 | 238 | -268 | 0 | 238 | -268 | 0 | 238 | -268 |
| 239 | -266 | 0 | 239 | -254 | 0 | 239 | -990 | 0.136 | 239 | -266 | 0 | 239 | -266 | 0 | 239 | -266 |
| 240 | -264 | 0 | 240 | -252 | 0 | 240 | -985 | 0.135 | 240 | -264 | 0 | 240 | -264 | 0 | 240 | -264 |
| 241 | -262 | 0 | 241 | -250 | 0 | 241 | -980 | 0.134 | 241 | -262 | 0 | 241 | -262 | 0 | 241 | -262 |
| 242 | -260 | 0 | 242 | -248 | 0 | 242 | -975 | 0.133 | 242 | -260 | 0 | 242 | -260 | 0 | 242 | -260 |
| 243 | -258 | 0 | 243 | -246 | 0 | 243 | -970 | 0.132 | 243 | -258 | 0 | 243 | -258 | 0 | 243 | -258 |
| 244 | -256 | 0 | 244 | -244 | 0 | 244 | -965 | 0.131 | 244 | -256 | 0 | 244 | -256 | 0 | 244 | -256 |
| 245 | -254 | 0 | 245 | -242 | 0 | 245 | -960 | 0.13 | 245 | -254 | 0 | 245 | -254 | 0 | 245 | -254 |
| 246 | -252 | 0 | 246 | -240 | 0 | 246 | -955 | 0.128 | 246 | -252 | 0 | 246 | -252 | 0 | 246 | -252 |
| 247 | -250 | 0 | 247 | -238 | 0 | 247 | -950 | 0.125 | 247 | -250 | 0 | 247 | -250 | 0 | 247 | -250 |
| 248 | -248 | 0 | 248 | -236 | 0 | 248 | -945 | 0.123 | 248 | -248 | 0 | 248 | -248 | 0 | 248 | -248 |
| 249 | -246 | 0 | 249 | -234 | 0 | 249 | -940 | 0.12 | 249 | -246 | 0 | 249 | -246 | 0 | 249 | -246 |

| | | | | | | | | | | | | | | | | |
|-----|------|---|-----|------|---|-----|------|-------|-----|------|---|-----|------|---|-----|------|
| 250 | -244 | 0 | 250 | -233 | 0 | 250 | -935 | 0.118 | 250 | -244 | 0 | 250 | -244 | 0 | 250 | -244 |
| 251 | -242 | 0 | 251 | -232 | 0 | 251 | -930 | 0.115 | 251 | -242 | 0 | 251 | -242 | 0 | 251 | -242 |
| 252 | -240 | 0 | 252 | -231 | 0 | 252 | -925 | 0.113 | 252 | -240 | 0 | 252 | -240 | 0 | 252 | -240 |
| 253 | -238 | 0 | 253 | -230 | 0 | 253 | -920 | 0.11 | 253 | -238 | 0 | 253 | -238 | 0 | 253 | -238 |
| 254 | -236 | 0 | 254 | -229 | 0 | 254 | -915 | 0.108 | 254 | -236 | 0 | 254 | -236 | 0 | 254 | -236 |
| 255 | -234 | 0 | 255 | -224 | 0 | 255 | -910 | 0.105 | 255 | -234 | 0 | 255 | -234 | 0 | 255 | -234 |
| 260 | -229 | 0 | 260 | -219 | 0 | 260 | -885 | 0.093 | 260 | -229 | 0 | 260 | -229 | 0 | 260 | -229 |
| 265 | -224 | 0 | 265 | -214 | 0 | 265 | -855 | 0.08 | 265 | -224 | 0 | 265 | -224 | 0 | 265 | -224 |
| 270 | -219 | 0 | 270 | -209 | 0 | 270 | -815 | 0.068 | 270 | -219 | 0 | 270 | -219 | 0 | 270 | -219 |
| 275 | -214 | 0 | 275 | -204 | 0 | 275 | -765 | 0.055 | 275 | -214 | 0 | 275 | -214 | 0 | 275 | -214 |
| 280 | -209 | 0 | 280 | -199 | 0 | 280 | -715 | 0.043 | 280 | -209 | 0 | 280 | -209 | 0 | 280 | -209 |
| 285 | -204 | 0 | 285 | -194 | 0 | 285 | -665 | 0.03 | 285 | -204 | 0 | 285 | -204 | 0 | 285 | -204 |
| 290 | -199 | 0 | 290 | -189 | 0 | 290 | -615 | 0.018 | 290 | -199 | 0 | 290 | -199 | 0 | 290 | -199 |
| 295 | -194 | 0 | 295 | -184 | 0 | 295 | -565 | 0.005 | 295 | -194 | 0 | 295 | -194 | 0 | 295 | -194 |
| 300 | -189 | 0 | 300 | -179 | 0 | 300 | -515 | 0.001 | 300 | -189 | 0 | 300 | -189 | 0 | 300 | -189 |
| 305 | -184 | 0 | 305 | -174 | 0 | 305 | -465 | 0 | 305 | -184 | 0 | 305 | -184 | 0 | 305 | -184 |
| 310 | -179 | 0 | 310 | -169 | 0 | 310 | -415 | 0 | 310 | -179 | 0 | 310 | -179 | 0 | 310 | -179 |
| 315 | -174 | 0 | 315 | -164 | 0 | 315 | -365 | 0 | 315 | -174 | 0 | 315 | -174 | 0 | 315 | -174 |
| 320 | -169 | 0 | 320 | -159 | 0 | 320 | -315 | 0 | 320 | -169 | 0 | 320 | -169 | 0 | 320 | -169 |
| 325 | -164 | 0 | 325 | -154 | 0 | 325 | -275 | 0 | 325 | -164 | 0 | 325 | -164 | 0 | 325 | -164 |
| 330 | -159 | 0 | 330 | -149 | 0 | 330 | -245 | 0 | 330 | -159 | 0 | 330 | -159 | 0 | 330 | -159 |
| 335 | -154 | 0 | 335 | -144 | 0 | 335 | -220 | 0 | 335 | -154 | 0 | 335 | -154 | 0 | 335 | -154 |
| 340 | -149 | 0 | 340 | -139 | 0 | 340 | -195 | 0 | 340 | -149 | 0 | 340 | -149 | 0 | 340 | -149 |
| 345 | -144 | 0 | 345 | -134 | 0 | 345 | -170 | 0 | 345 | -144 | 0 | 345 | -144 | 0 | 345 | -144 |
| 350 | -139 | 0 | 350 | -129 | 0 | 350 | -145 | 0 | 350 | -139 | 0 | 350 | -139 | 0 | 350 | -139 |
| 355 | -134 | 0 | 355 | -124 | 0 | 355 | -135 | 0 | 355 | -134 | 0 | 355 | -134 | 0 | 355 | -134 |
| 360 | -129 | 0 | 360 | -119 | 0 | 360 | -125 | 0 | 360 | -129 | 0 | 360 | -129 | 0 | 360 | -129 |
| 365 | -124 | 0 | 365 | -114 | 0 | 365 | -115 | 0 | 365 | -124 | 0 | 365 | -124 | 0 | 365 | -124 |
| 370 | -119 | 0 | 370 | -109 | 0 | 370 | -105 | 0 | 370 | -119 | 0 | 370 | -119 | 0 | 370 | -119 |
| 375 | -114 | 0 | 375 | -104 | 0 | 375 | -100 | 0 | 375 | -114 | 0 | 375 | -114 | 0 | 375 | -114 |
| 380 | -109 | 0 | 380 | -99 | 0 | 380 | -95 | 0 | 380 | -109 | 0 | 380 | -109 | 0 | 380 | -109 |
| 385 | -104 | 0 | 385 | -94 | 0 | 385 | -90 | 0 | 385 | -104 | 0 | 385 | -104 | 0 | 385 | -104 |
| 390 | -99 | 0 | 390 | -89 | 0 | 390 | -85 | 0 | 390 | -99 | 0 | 390 | -99 | 0 | 390 | -99 |
| 395 | -94 | 0 | 395 | -84 | 0 | 395 | -80 | 0 | 395 | -94 | 0 | 395 | -94 | 0 | 395 | -94 |
| 400 | -89 | 0 | 400 | -79 | 0 | 400 | -75 | 0 | 400 | -89 | 0 | 400 | -89 | 0 | 400 | -89 |
| 405 | -84 | 0 | 405 | -74 | 0 | 405 | -70 | 0 | 405 | -84 | 0 | 405 | -84 | 0 | 405 | -84 |
| 410 | -79 | 0 | 410 | -69 | 0 | 410 | -65 | 0 | 410 | -79 | 0 | 410 | -79 | 0 | 410 | -79 |
| 415 | -74 | 0 | 415 | -64 | 0 | 415 | -60 | 0 | 415 | -74 | 0 | 415 | -74 | 0 | 415 | -74 |
| 420 | -69 | 0 | 420 | -59 | 0 | 420 | -55 | 0 | 420 | -69 | 0 | 420 | -69 | 0 | 420 | -69 |
| 425 | -64 | 0 | 425 | -54 | 0 | 425 | -50 | 0 | 425 | -64 | 0 | 425 | -64 | 0 | 425 | -64 |
| 430 | -59 | 0 | 430 | -49 | 0 | 430 | -45 | 0 | 430 | -59 | 0 | 430 | -59 | 0 | 430 | -59 |
| 435 | -54 | 0 | 435 | -44 | 0 | 435 | -40 | 0 | 435 | -54 | 0 | 435 | -54 | 0 | 435 | -54 |
| 440 | -49 | 0 | 440 | -39 | 0 | 440 | -35 | 0 | 440 | -49 | 0 | 440 | -49 | 0 | 440 | -49 |
| 445 | -44 | 0 | 445 | -34 | 0 | 445 | -30 | 0 | 445 | -44 | 0 | 445 | -44 | 0 | 445 | -44 |
| 450 | -39 | 0 | 450 | -29 | 0 | 450 | -25 | 0 | 450 | -39 | 0 | 450 | -39 | 0 | 450 | -39 |
| 455 | -34 | 0 | 455 | -24 | 0 | 455 | -20 | 0 | 455 | -34 | 0 | 455 | -34 | 0 | 455 | -34 |
| 460 | -29 | 0 | 460 | -19 | 0 | 460 | -16 | 0 | 460 | -29 | 0 | 460 | -29 | 0 | 460 | -29 |
| 465 | -24 | 0 | 465 | -14 | 0 | 465 | -12 | 0 | 465 | -24 | 0 | 465 | -24 | 0 | 465 | -24 |
| 470 | -19 | 0 | 470 | -9 | 0 | 470 | -8 | 0 | 470 | -19 | 0 | 470 | -19 | 0 | 470 | -19 |
| 475 | -14 | 0 | 475 | -4 | 0 | 475 | -5 | 0 | 475 | -14 | 0 | 475 | -14 | 0 | 475 | -14 |
| 480 | -9 | 0 | 480 | -3 | 0 | 480 | -2 | 0 | 480 | -9 | 0 | 480 | -9 | 0 | 480 | -9 |
| 485 | -4 | 0 | 485 | -2 | 0 | 485 | -1 | 0 | 485 | -4 | 0 | 485 | -4 | 0 | 485 | -4 |
| 490 | -1 | 0 | 490 | -1 | 0 | 490 | -1 | 0 | 490 | -1 | 0 | 490 | -1 | 0 | 490 | -1 |
| 495 | -0.1 | 0 | 495 | -0.1 | 0 | 495 | -0.1 | 0 | 495 | -0.1 | 0 | 495 | -0.1 | 0 | 495 | -0.1 |
| 500 | 0 | 0 | 500 | 0 | 0 | 500 | 0 | 0 | 500 | 0 | 0 | 500 | 0 | 0 | 500 | 0 |
| 505 | 5 | 0 | 505 | 5 | 0 | 505 | 5 | 0 | 505 | 5 | 0 | 505 | 5 | 0 | 505 | 5 |
| 510 | 10 | 0 | 510 | 10 | 0 | 510 | 10 | 0 | 510 | 10 | 0 | 510 | 10 | 0 | 510 | 10 |
| 515 | 15 | 0 | 515 | 15 | 0 | 515 | 15 | 0 | 515 | 15 | 0 | 515 | 15 | 0 | 515 | 15 |
| 520 | 20 | 0 | 520 | 20 | 0 | 520 | 20 | 0 | 520 | 20 | 0 | 520 | 20 | 0 | 520 | 20 |
| 525 | 25 | 0 | 525 | 25 | 0 | 525 | 25 | 0 | 525 | 25 | 0 | 525 | 25 | 0 | 525 | 25 |
| 530 | 30 | 0 | 530 | 30 | 0 | 530 | 30 | 0 | 530 | 30 | 0 | 530 | 30 | 0 | 530 | 30 |
| 535 | 35 | 0 | 535 | 35 | 0 | 535 | 35 | 0 | 535 | 35 | 0 | 535 | 35 | 0 | 535 | 35 |
| 540 | 40 | 0 | 540 | 40 | 0 | 540 | 40 | 0 | 540 | 40 | 0 | 540 | 40 | 0 | 540 | 40 |
| 545 | 45 | 0 | 545 | 45 | 0 | 545 | 45 | 0 | 545 | 45 | 0 | 545 | 45 | 0 | 545 | 45 |
| 550 | 50 | 0 | 550 | 50 | 0 | 550 | 50 | 0 | 550 | 50 | 0 | 550 | 50 | 0 | 550 | 50 |

Appendix A.4. Sand Model Initial Conditions and Profile Discretization

A-47

INITIAL CONDITIONS AND SAND PROFILES

| SAND1M1M | | | SAND1M30CM | | | SAND1M3M | | | SAND1M10M | | | SAND1MBOTTOM | | | SAND1MFLAT | | |
|----------|--------|--------|------------|--------|--------|----------|--------|--------|-----------|--------|--------|--------------|--------|--------|------------|--------|--------|
| Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) | Z (cm) | H (cm) | R (cm) |
| 0 | -100 | 0.1 | 0 | -200 | 0 | 0 | -200 | 0 | 0 | -100 | 0.5 | 0 | -100 | 0 | 0 | -100 | 0 |
| 0.1 | -98 | 0.125 | 0.1 | -199 | 0.05 | 0.1 | -199 | 0.01 | 0.1 | -98 | 0.75 | 0.1 | -98 | 0.001 | 0.1 | -98 | 0.5 |
| 0.2 | -96 | 0.15 | 0.2 | -198 | 0.1 | 0.2 | -198 | 0.02 | 0.2 | -96 | 1 | 0.2 | -96 | 0.002 | 0.2 | -96 | 0.5 |
| 0.3 | -94 | 0.175 | 0.3 | -197 | 0.15 | 0.3 | -197 | 0.03 | 0.3 | -94 | 1 | 0.3 | -94 | 0.003 | 0.3 | -94 | 0.5 |
| 0.4 | -92 | 0.2 | 0.4 | -196 | 0.2 | 0.4 | -196 | 0.04 | 0.4 | -92 | 1 | 0.4 | -92 | 0.004 | 0.4 | -92 | 0.5 |
| 0.5 | -90 | 0.225 | 0.5 | -195 | 0.25 | 0.5 | -195 | 0.05 | 0.5 | -90 | 1 | 0.5 | -90 | 0.005 | 0.5 | -90 | 0.5 |
| 0.6 | -88 | 0.25 | 0.6 | -194 | 0.3 | 0.6 | -194 | 0.06 | 0.6 | -88 | 1 | 0.6 | -88 | 0.006 | 0.6 | -88 | 0.5 |
| 0.7 | -86 | 0.275 | 0.7 | -193 | 0.35 | 0.7 | -193 | 0.07 | 0.7 | -86 | 1 | 0.7 | -86 | 0.007 | 0.7 | -86 | 0.5 |
| 0.8 | -84 | 0.3 | 0.8 | -192 | 0.4 | 0.8 | -192 | 0.08 | 0.8 | -84 | 1 | 0.8 | -84 | 0.008 | 0.8 | -84 | 0.5 |
| 0.9 | -82 | 0.325 | 0.9 | -191 | 0.425 | 0.9 | -191 | 0.09 | 0.9 | -82 | 1 | 0.9 | -82 | 0.009 | 0.9 | -82 | 0.5 |
| 1 | -80 | 0.35 | 1 | -190 | 0.45 | 1 | -190 | 0.1 | 1 | -80 | 0.99 | 1 | -80 | 0.01 | 1 | -80 | 0.5 |
| 2 | -78 | 0.4 | 2 | -195 | 0.7 | 2 | -185 | 0.15 | 2 | -78 | 0.98 | 2 | -78 | 0.02 | 2 | -78 | 0.5 |
| 3 | -76 | 0.45 | 3 | -200 | 0.95 | 3 | -183 | 0.2 | 3 | -76 | 0.97 | 3 | -76 | 0.03 | 3 | -76 | 0.5 |
| 4 | -75 | 0.5 | 4 | -205 | 1 | 4 | -181 | 0.25 | 4 | -75 | 0.96 | 4 | -75 | 0.04 | 4 | -75 | 0.5 |
| 5 | -74 | 0.55 | 5 | -210 | 1 | 5 | -180 | 0.3 | 5 | -74 | 0.95 | 5 | -74 | 0.05 | 5 | -74 | 0.5 |
| 6 | -73 | 0.6 | 6 | -215 | 1 | 6 | -180 | 0.35 | 6 | -73 | 0.94 | 6 | -73 | 0.06 | 6 | -73 | 0.5 |
| 7 | -72 | 0.65 | 7 | -220 | 1 | 7 | -180 | 0.4 | 7 | -72 | 0.93 | 7 | -72 | 0.07 | 7 | -72 | 0.5 |
| 8 | -71 | 0.7 | 8 | -225 | 1 | 8 | -180 | 0.45 | 8 | -71 | 0.92 | 8 | -71 | 0.08 | 8 | -71 | 0.5 |
| 9 | -72 | 0.75 | 9 | -230 | 1 | 9 | -180 | 0.5 | 9 | -72 | 0.91 | 9 | -72 | 0.09 | 9 | -72 | 0.5 |
| 10 | -73 | 0.8 | 10 | -235 | 1 | 10 | -180 | 0.55 | 10 | -73 | 0.9 | 10 | -73 | 0.1 | 10 | -73 | 0.5 |
| 11 | -74 | 0.85 | 11 | -240 | 0.9 | 11 | -181 | 0.6 | 11 | -74 | 0.89 | 11 | -74 | 0.11 | 11 | -74 | 0.5 |
| 12 | -75 | 0.9 | 12 | -241 | 0.8 | 12 | -182 | 0.65 | 12 | -75 | 0.88 | 12 | -75 | 0.12 | 12 | -75 | 0.5 |
| 13 | -76 | 0.95 | 13 | -240 | 0.7 | 13 | -183 | 0.675 | 13 | -76 | 0.87 | 13 | -76 | 0.13 | 13 | -76 | 0.5 |
| 14 | -77 | 1 | 14 | -235 | 0.6 | 14 | -184 | 0.7 | 14 | -77 | 0.86 | 14 | -77 | 0.14 | 14 | -77 | 0.5 |
| 15 | -78 | 1 | 15 | -230 | 0.5 | 15 | -185 | 0.725 | 15 | -78 | 0.85 | 15 | -78 | 0.15 | 15 | -78 | 0.5 |
| 16 | -79 | 1 | 16 | -225 | 0.45 | 16 | -187 | 0.75 | 16 | -79 | 0.84 | 16 | -79 | 0.16 | 16 | -79 | 0.5 |
| 17 | -80 | 1 | 17 | -215 | 0.4 | 17 | -189 | 0.775 | 17 | -80 | 0.83 | 17 | -80 | 0.17 | 17 | -80 | 0.5 |
| 18 | -81 | 1 | 18 | -205 | 0.35 | 18 | -191 | 0.8 | 18 | -81 | 0.82 | 18 | -81 | 0.18 | 18 | -81 | 0.5 |
| 19 | -82 | 1 | 19 | -195 | 0.3 | 19 | -193 | 0.825 | 19 | -82 | 0.81 | 19 | -82 | 0.19 | 19 | -82 | 0.5 |
| 20 | -83 | 1 | 20 | -185 | 0.25 | 20 | -195 | 0.85 | 20 | -83 | 0.8 | 20 | -83 | 0.2 | 20 | -83 | 0.5 |
| 21 | -84 | 1 | 21 | -175 | 0.2 | 21 | -200 | 0.875 | 21 | -84 | 0.79 | 21 | -84 | 0.21 | 21 | -84 | 0.5 |
| 22 | -85 | 1 | 22 | -165 | 0.175 | 22 | -205 | 0.9 | 22 | -85 | 0.78 | 22 | -85 | 0.22 | 22 | -85 | 0.5 |
| 23 | -86 | 1 | 23 | -155 | 0.15 | 23 | -210 | 0.92 | 23 | -86 | 0.77 | 23 | -86 | 0.23 | 23 | -86 | 0.5 |
| 24 | -87 | 1 | 24 | -145 | 0.125 | 24 | -215 | 0.94 | 24 | -87 | 0.76 | 24 | -87 | 0.24 | 24 | -87 | 0.5 |
| 25 | -88 | 1 | 25 | -135 | 0.1 | 25 | -220 | 0.96 | 25 | -88 | 0.75 | 25 | -88 | 0.25 | 25 | -88 | 0.5 |
| 26 | -89 | 1 | 26 | -125 | 0.075 | 26 | -225 | 0.98 | 26 | -89 | 0.74 | 26 | -89 | 0.26 | 26 | -89 | 0.5 |
| 27 | -90 | 1 | 27 | -115 | 0.05 | 27 | -230 | 1 | 27 | -90 | 0.73 | 27 | -90 | 0.27 | 27 | -90 | 0.5 |
| 28 | -91 | 1 | 28 | -105 | 0.025 | 28 | -232 | 1 | 28 | -91 | 0.72 | 28 | -91 | 0.28 | 28 | -91 | 0.5 |
| 29 | -92 | 1 | 29 | -95 | 0.01 | 29 | -234 | 1 | 29 | -92 | 0.71 | 29 | -92 | 0.29 | 29 | -92 | 0.5 |
| 30 | -93 | 1 | 30 | -90 | 0.001 | 30 | -236 | 1 | 30 | -93 | 0.7 | 30 | -93 | 0.3 | 30 | -93 | 0.5 |
| 31 | -93 | 0.99 | 31 | -85 | 0 | 31 | -237 | 1 | 31 | -93 | 0.69 | 31 | -93 | 0.31 | 31 | -93 | 0.5 |
| 32 | -92 | 0.98 | 32 | -80 | 0 | 32 | -238 | 1 | 32 | -92 | 0.68 | 32 | -92 | 0.32 | 32 | -92 | 0.5 |
| 33 | -91 | 0.97 | 33 | -75 | 0 | 33 | -239 | 1 | 33 | -91 | 0.67 | 33 | -91 | 0.33 | 33 | -91 | 0.5 |
| 34 | -90 | 0.96 | 34 | -70 | 0 | 34 | -240 | 1 | 34 | -90 | 0.66 | 34 | -90 | 0.34 | 34 | -90 | 0.5 |
| 35 | -89 | 0.95 | 35 | -68 | 0 | 35 | -240 | 1 | 35 | -89 | 0.65 | 35 | -89 | 0.35 | 35 | -89 | 0.5 |
| 36 | -88 | 0.94 | 36 | -66 | 0 | 36 | -239 | 1 | 36 | -88 | 0.64 | 36 | -88 | 0.36 | 36 | -88 | 0.5 |
| 37 | -87 | 0.93 | 37 | -64 | 0 | 37 | -238 | 1 | 37 | -87 | 0.63 | 37 | -87 | 0.37 | 37 | -87 | 0.5 |
| 38 | -85 | 0.92 | 38 | -62 | 0 | 38 | -236 | 1 | 38 | -85 | 0.62 | 38 | -85 | 0.38 | 38 | -85 | 0.5 |
| 39 | -83 | 0.91 | 39 | -60 | 0 | 39 | -234 | 1 | 39 | -83 | 0.61 | 39 | -83 | 0.39 | 39 | -83 | 0.5 |
| 40 | -81 | 0.9 | 40 | -58 | 0 | 40 | -232 | 1 | 40 | -81 | 0.6 | 40 | -81 | 0.4 | 40 | -81 | 0.5 |
| 41 | -79 | 0.88 | 41 | -56 | 0 | 41 | -230 | 1 | 41 | -79 | 0.59 | 41 | -79 | 0.41 | 41 | -79 | 0.5 |
| 42 | -77 | 0.86 | 42 | -54 | 0 | 42 | -225 | 1 | 42 | -77 | 0.58 | 42 | -77 | 0.42 | 42 | -77 | 0.5 |
| 43 | -75 | 0.84 | 43 | -53 | 0 | 43 | -220 | 1 | 43 | -75 | 0.57 | 43 | -75 | 0.43 | 43 | -75 | 0.5 |
| 44 | -73 | 0.82 | 44 | -52 | 0 | 44 | -215 | 1 | 44 | -73 | 0.56 | 44 | -73 | 0.44 | 44 | -73 | 0.5 |
| 45 | -71 | 0.8 | 45 | -51 | 0 | 45 | -210 | 1 | 45 | -71 | 0.55 | 45 | -71 | 0.45 | 45 | -71 | 0.5 |
| 46 | -69 | 0.78 | 46 | -50 | 0 | 46 | -205 | 1 | 46 | -69 | 0.54 | 46 | -69 | 0.46 | 46 | -69 | 0.5 |
| 47 | -67 | 0.76 | 47 | -49 | 0 | 47 | -200 | 1 | 47 | -67 | 0.53 | 47 | -67 | 0.47 | 47 | -67 | 0.5 |
| 48 | -65 | 0.74 | 48 | -48 | 0 | 48 | -190 | 1 | 48 | -65 | 0.52 | 48 | -65 | 0.48 | 48 | -65 | 0.5 |
| 49 | -63 | 0.72 | 49 | -47 | 0 | 49 | -180 | 1 | 49 | -63 | 0.51 | 49 | -63 | 0.49 | 49 | -63 | 0.5 |
| 50 | -61 | 0.7 | 50 | -46 | 0 | 50 | -170 | 1 | 50 | -61 | 0.5 | 50 | -61 | 0.5 | 50 | -61 | 0.5 |
| 51 | -59 | 0.68 | 51 | -45 | 0 | 51 | -160 | 0.99 | 51 | -59 | 0.49 | 51 | -59 | 0.51 | 51 | -59 | 0.5 |

| | | | | | | | | | | | | | | | | | |
|-----|----|---|-----|----|---|-----|----|-------|-----|----|---|-----|----|---|-----|----|---|
| 118 | 18 | 0 | 118 | 18 | 0 | 118 | 18 | 0.285 | 118 | 18 | 0 | 118 | 18 | 0 | 118 | 18 | 0 |
| 119 | 19 | 0 | 119 | 19 | 0 | 119 | 19 | 0.28 | 119 | 19 | 0 | 119 | 19 | 0 | 119 | 19 | 0 |
| 120 | 20 | 0 | 120 | 20 | 0 | 120 | 20 | 0.275 | 120 | 20 | 0 | 120 | 20 | 0 | 120 | 20 | 0 |
| 121 | 21 | 0 | 121 | 21 | 0 | 121 | 21 | 0.27 | 121 | 21 | 0 | 121 | 21 | 0 | 121 | 21 | 0 |
| 122 | 22 | 0 | 122 | 22 | 0 | 122 | 22 | 0.265 | 122 | 22 | 0 | 122 | 22 | 0 | 122 | 22 | 0 |
| 123 | 23 | 0 | 123 | 23 | 0 | 123 | 23 | 0.26 | 123 | 23 | 0 | 123 | 23 | 0 | 123 | 23 | 0 |
| 124 | 24 | 0 | 124 | 24 | 0 | 124 | 24 | 0.255 | 124 | 24 | 0 | 124 | 24 | 0 | 124 | 24 | 0 |
| 125 | 25 | 0 | 125 | 25 | 0 | 125 | 25 | 0.25 | 125 | 25 | 0 | 125 | 25 | 0 | 125 | 25 | 0 |
| 126 | 26 | 0 | 126 | 26 | 0 | 126 | 26 | 0.249 | 126 | 26 | 0 | 126 | 26 | 0 | 126 | 26 | 0 |
| 127 | 27 | 0 | 127 | 27 | 0 | 127 | 27 | 0.248 | 127 | 27 | 0 | 127 | 27 | 0 | 127 | 27 | 0 |
| 128 | 28 | 0 | 128 | 28 | 0 | 128 | 28 | 0.247 | 128 | 28 | 0 | 128 | 28 | 0 | 128 | 28 | 0 |
| 129 | 29 | 0 | 129 | 29 | 0 | 129 | 29 | 0.246 | 129 | 29 | 0 | 129 | 29 | 0 | 129 | 29 | 0 |
| 130 | 30 | 0 | 130 | 30 | 0 | 130 | 30 | 0.245 | 130 | 30 | 0 | 130 | 30 | 0 | 130 | 30 | 0 |
| 131 | 31 | 0 | 131 | 31 | 0 | 131 | 31 | 0.244 | 131 | 31 | 0 | 131 | 31 | 0 | 131 | 31 | 0 |
| 132 | 32 | 0 | 132 | 32 | 0 | 132 | 32 | 0.243 | 132 | 32 | 0 | 132 | 32 | 0 | 132 | 32 | 0 |
| 133 | 33 | 0 | 133 | 33 | 0 | 133 | 33 | 0.242 | 133 | 33 | 0 | 133 | 33 | 0 | 133 | 33 | 0 |
| 134 | 34 | 0 | 134 | 34 | 0 | 134 | 34 | 0.241 | 134 | 34 | 0 | 134 | 34 | 0 | 134 | 34 | 0 |
| 135 | 35 | 0 | 135 | 35 | 0 | 135 | 35 | 0.24 | 135 | 35 | 0 | 135 | 35 | 0 | 135 | 35 | 0 |
| 136 | 36 | 0 | 136 | 36 | 0 | 136 | 36 | 0.239 | 136 | 36 | 0 | 136 | 36 | 0 | 136 | 36 | 0 |
| 137 | 37 | 0 | 137 | 37 | 0 | 137 | 37 | 0.238 | 137 | 37 | 0 | 137 | 37 | 0 | 137 | 37 | 0 |
| 138 | 38 | 0 | 138 | 38 | 0 | 138 | 38 | 0.237 | 138 | 38 | 0 | 138 | 38 | 0 | 138 | 38 | 0 |
| 139 | 39 | 0 | 139 | 39 | 0 | 139 | 39 | 0.236 | 139 | 39 | 0 | 139 | 39 | 0 | 139 | 39 | 0 |
| 140 | 40 | 0 | 140 | 40 | 0 | 140 | 40 | 0.235 | 140 | 40 | 0 | 140 | 40 | 0 | 140 | 40 | 0 |
| 141 | 41 | 0 | 141 | 41 | 0 | 141 | 41 | 0.234 | 141 | 41 | 0 | 141 | 41 | 0 | 141 | 41 | 0 |
| 142 | 42 | 0 | 142 | 42 | 0 | 142 | 42 | 0.233 | 142 | 42 | 0 | 142 | 42 | 0 | 142 | 42 | 0 |
| 143 | 43 | 0 | 143 | 43 | 0 | 143 | 43 | 0.232 | 143 | 43 | 0 | 143 | 43 | 0 | 143 | 43 | 0 |
| 144 | 44 | 0 | 144 | 44 | 0 | 144 | 44 | 0.231 | 144 | 44 | 0 | 144 | 44 | 0 | 144 | 44 | 0 |
| 145 | 45 | 0 | 145 | 45 | 0 | 145 | 45 | 0.23 | 145 | 45 | 0 | 145 | 45 | 0 | 145 | 45 | 0 |
| 146 | 46 | 0 | 146 | 46 | 0 | 146 | 46 | 0.229 | 146 | 46 | 0 | 146 | 46 | 0 | 146 | 46 | 0 |
| 147 | 47 | 0 | 147 | 47 | 0 | 147 | 47 | 0.228 | 147 | 47 | 0 | 147 | 47 | 0 | 147 | 47 | 0 |
| 148 | 48 | 0 | 148 | 48 | 0 | 148 | 48 | 0.227 | 148 | 48 | 0 | 148 | 48 | 0 | 148 | 48 | 0 |
| 149 | 49 | 0 | 149 | 49 | 0 | 149 | 49 | 0.226 | 149 | 49 | 0 | 149 | 49 | 0 | 149 | 49 | 0 |
| 150 | 50 | 0 | 150 | 50 | 0 | 150 | 50 | 0.225 | 150 | 50 | 0 | 150 | 50 | 0 | 150 | 50 | 0 |
| 151 | 51 | 0 | 151 | 51 | 0 | 151 | 51 | 0.224 | 151 | 51 | 0 | 151 | 51 | 0 | 151 | 51 | 0 |
| 152 | 52 | 0 | 152 | 52 | 0 | 152 | 52 | 0.223 | 152 | 52 | 0 | 152 | 52 | 0 | 152 | 52 | 0 |
| 153 | 53 | 0 | 153 | 53 | 0 | 153 | 53 | 0.222 | 153 | 53 | 0 | 153 | 53 | 0 | 153 | 53 | 0 |
| 154 | 54 | 0 | 154 | 54 | 0 | 154 | 54 | 0.221 | 154 | 54 | 0 | 154 | 54 | 0 | 154 | 54 | 0 |
| 155 | 55 | 0 | 155 | 55 | 0 | 155 | 55 | 0.22 | 155 | 55 | 0 | 155 | 55 | 0 | 155 | 55 | 0 |
| 156 | 56 | 0 | 156 | 56 | 0 | 156 | 56 | 0.219 | 156 | 56 | 0 | 156 | 56 | 0 | 156 | 56 | 0 |
| 157 | 57 | 0 | 157 | 57 | 0 | 157 | 57 | 0.218 | 157 | 57 | 0 | 157 | 57 | 0 | 157 | 57 | 0 |
| 158 | 58 | 0 | 158 | 58 | 0 | 158 | 58 | 0.217 | 158 | 58 | 0 | 158 | 58 | 0 | 158 | 58 | 0 |
| 159 | 59 | 0 | 159 | 59 | 0 | 159 | 59 | 0.216 | 159 | 59 | 0 | 159 | 59 | 0 | 159 | 59 | 0 |
| 160 | 60 | 0 | 160 | 60 | 0 | 160 | 60 | 0.215 | 160 | 60 | 0 | 160 | 60 | 0 | 160 | 60 | 0 |
| 161 | 61 | 0 | 161 | 61 | 0 | 161 | 61 | 0.214 | 161 | 61 | 0 | 161 | 61 | 0 | 161 | 61 | 0 |
| 162 | 62 | 0 | 162 | 62 | 0 | 162 | 62 | 0.213 | 162 | 62 | 0 | 162 | 62 | 0 | 162 | 62 | 0 |
| 163 | 63 | 0 | 163 | 63 | 0 | 163 | 63 | 0.212 | 163 | 63 | 0 | 163 | 63 | 0 | 163 | 63 | 0 |
| 164 | 64 | 0 | 164 | 64 | 0 | 164 | 64 | 0.211 | 164 | 64 | 0 | 164 | 64 | 0 | 164 | 64 | 0 |
| 165 | 65 | 0 | 165 | 65 | 0 | 165 | 65 | 0.21 | 165 | 65 | 0 | 165 | 65 | 0 | 165 | 65 | 0 |
| 166 | 66 | 0 | 166 | 66 | 0 | 166 | 66 | 0.209 | 166 | 66 | 0 | 166 | 66 | 0 | 166 | 66 | 0 |
| 167 | 67 | 0 | 167 | 67 | 0 | 167 | 67 | 0.208 | 167 | 67 | 0 | 167 | 67 | 0 | 167 | 67 | 0 |
| 168 | 68 | 0 | 168 | 68 | 0 | 168 | 68 | 0.207 | 168 | 68 | 0 | 168 | 68 | 0 | 168 | 68 | 0 |
| 169 | 69 | 0 | 169 | 69 | 0 | 169 | 69 | 0.206 | 169 | 69 | 0 | 169 | 69 | 0 | 169 | 69 | 0 |
| 170 | 70 | 0 | 170 | 70 | 0 | 170 | 70 | 0.205 | 170 | 70 | 0 | 170 | 70 | 0 | 170 | 70 | 0 |
| 171 | 71 | 0 | 171 | 71 | 0 | 171 | 71 | 0.204 | 171 | 71 | 0 | 171 | 71 | 0 | 171 | 71 | 0 |
| 172 | 72 | 0 | 172 | 72 | 0 | 172 | 72 | 0.203 | 172 | 72 | 0 | 172 | 72 | 0 | 172 | 72 | 0 |
| 173 | 73 | 0 | 173 | 73 | 0 | 173 | 73 | 0.202 | 173 | 73 | 0 | 173 | 73 | 0 | 173 | 73 | 0 |
| 174 | 74 | 0 | 174 | 74 | 0 | 174 | 74 | 0.201 | 174 | 74 | 0 | 174 | 74 | 0 | 174 | 74 | 0 |
| 175 | 75 | 0 | 175 | 75 | 0 | 175 | 75 | 0.2 | 175 | 75 | 0 | 175 | 75 | 0 | 175 | 75 | 0 |
| 176 | 76 | 0 | 176 | 76 | 0 | 176 | 76 | 0.199 | 176 | 76 | 0 | 176 | 76 | 0 | 176 | 76 | 0 |
| 177 | 77 | 0 | 177 | 77 | 0 | 177 | 77 | 0.198 | 177 | 77 | 0 | 177 | 77 | 0 | 177 | 77 | 0 |
| 178 | 78 | 0 | 178 | 78 | 0 | 178 | 78 | 0.197 | 178 | 78 | 0 | 178 | 78 | 0 | 178 | 78 | 0 |
| 179 | 79 | 0 | 179 | 79 | 0 | 179 | 79 | 0.196 | 179 | 79 | 0 | 179 | 79 | 0 | 179 | 79 | 0 |
| 180 | 80 | 0 | 180 | 80 | 0 | 180 | 80 | 0.195 | 180 | 80 | 0 | 180 | 80 | 0 | 180 | 80 | 0 |
| 181 | 81 | 0 | 181 | 81 | 0 | 181 | 81 | 0.194 | 181 | 81 | 0 | 181 | 81 | 0 | 181 | 81 | 0 |
| 182 | 82 | 0 | 182 | 82 | 0 | 182 | 82 | 0.193 | 182 | 82 | 0 | 182 | 82 | 0 | 182 | 82 | 0 |
| 183 | 83 | 0 | 183 | 83 | 0 | 183 | 83 | 0.192 | 183 | 83 | 0 | 183 | 83 | 0 | 183 | 83 | 0 |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|---|-----|-----|---|-----|-----|-------|-----|-----|---|-----|-----|---|-----|-----|---|------|
| 184 | 84 | 0 | 184 | 84 | 0 | 184 | 84 | 0.191 | 184 | 84 | 0 | 184 | 84 | 0 | 184 | 84 | 0 | A-50 |
| 185 | 85 | 0 | 185 | 85 | 0 | 185 | 85 | 0.19 | 185 | 85 | 0 | 185 | 85 | 0 | 185 | 85 | 0 | |
| 186 | 86 | 0 | 186 | 86 | 0 | 186 | 86 | 0.189 | 186 | 86 | 0 | 186 | 86 | 0 | 186 | 86 | 0 | |
| 187 | 87 | 0 | 187 | 87 | 0 | 187 | 87 | 0.188 | 187 | 87 | 0 | 187 | 87 | 0 | 187 | 87 | 0 | |
| 188 | 88 | 0 | 188 | 88 | 0 | 188 | 88 | 0.187 | 188 | 88 | 0 | 188 | 88 | 0 | 188 | 88 | 0 | |
| 189 | 89 | 0 | 189 | 89 | 0 | 189 | 89 | 0.186 | 189 | 89 | 0 | 189 | 89 | 0 | 189 | 89 | 0 | |
| 190 | 90 | 0 | 190 | 90 | 0 | 190 | 90 | 0.185 | 190 | 90 | 0 | 190 | 90 | 0 | 190 | 90 | 0 | |
| 191 | 91 | 0 | 191 | 91 | 0 | 191 | 91 | 0.184 | 191 | 91 | 0 | 191 | 91 | 0 | 191 | 91 | 0 | |
| 192 | 92 | 0 | 192 | 92 | 0 | 192 | 92 | 0.183 | 192 | 92 | 0 | 192 | 92 | 0 | 192 | 92 | 0 | |
| 193 | 93 | 0 | 193 | 93 | 0 | 193 | 93 | 0.182 | 193 | 93 | 0 | 193 | 93 | 0 | 193 | 93 | 0 | |
| 194 | 94 | 0 | 194 | 94 | 0 | 194 | 94 | 0.181 | 194 | 94 | 0 | 194 | 94 | 0 | 194 | 94 | 0 | |
| 195 | 95 | 0 | 195 | 95 | 0 | 195 | 95 | 0.18 | 195 | 95 | 0 | 195 | 95 | 0 | 195 | 95 | 0 | |
| 196 | 96 | 0 | 196 | 96 | 0 | 196 | 96 | 0.179 | 196 | 96 | 0 | 196 | 96 | 0 | 196 | 96 | 0 | |
| 197 | 97 | 0 | 197 | 97 | 0 | 197 | 97 | 0.178 | 197 | 97 | 0 | 197 | 97 | 0 | 197 | 97 | 0 | |
| 198 | 98 | 0 | 198 | 98 | 0 | 198 | 98 | 0.177 | 198 | 98 | 0 | 198 | 98 | 0 | 198 | 98 | 0 | |
| 199 | 99 | 0 | 199 | 99 | 0 | 199 | 99 | 0.176 | 199 | 99 | 0 | 199 | 99 | 0 | 199 | 99 | 0 | |
| 200 | 100 | 0 | 200 | 100 | 0 | 200 | 100 | 0.175 | 200 | 100 | 0 | 200 | 100 | 0 | 200 | 100 | 0 | |
| 201 | 101 | 0 | 201 | 101 | 0 | 201 | 101 | 0.174 | 201 | 101 | 0 | 201 | 101 | 0 | 201 | 101 | 0 | |
| 202 | 102 | 0 | 202 | 102 | 0 | 202 | 102 | 0.173 | 202 | 102 | 0 | 202 | 102 | 0 | 202 | 102 | 0 | |
| 203 | 103 | 0 | 203 | 103 | 0 | 203 | 103 | 0.172 | 203 | 103 | 0 | 203 | 103 | 0 | 203 | 103 | 0 | |
| 204 | 104 | 0 | 204 | 104 | 0 | 204 | 104 | 0.171 | 204 | 104 | 0 | 204 | 104 | 0 | 204 | 104 | 0 | |
| 205 | 105 | 0 | 205 | 105 | 0 | 205 | 105 | 0.17 | 205 | 105 | 0 | 205 | 105 | 0 | 205 | 105 | 0 | |
| 206 | 106 | 0 | 206 | 106 | 0 | 206 | 106 | 0.169 | 206 | 106 | 0 | 206 | 106 | 0 | 206 | 106 | 0 | |
| 207 | 107 | 0 | 207 | 107 | 0 | 207 | 107 | 0.168 | 207 | 107 | 0 | 207 | 107 | 0 | 207 | 107 | 0 | |
| 208 | 108 | 0 | 208 | 108 | 0 | 208 | 108 | 0.167 | 208 | 108 | 0 | 208 | 108 | 0 | 208 | 108 | 0 | |
| 209 | 109 | 0 | 209 | 109 | 0 | 209 | 109 | 0.166 | 209 | 109 | 0 | 209 | 109 | 0 | 209 | 109 | 0 | |
| 210 | 110 | 0 | 210 | 110 | 0 | 210 | 110 | 0.165 | 210 | 110 | 0 | 210 | 110 | 0 | 210 | 110 | 0 | |
| 211 | 111 | 0 | 211 | 111 | 0 | 211 | 111 | 0.164 | 211 | 111 | 0 | 211 | 111 | 0 | 211 | 111 | 0 | |
| 212 | 112 | 0 | 212 | 112 | 0 | 212 | 112 | 0.163 | 212 | 112 | 0 | 212 | 112 | 0 | 212 | 112 | 0 | |
| 213 | 113 | 0 | 213 | 113 | 0 | 213 | 113 | 0.162 | 213 | 113 | 0 | 213 | 113 | 0 | 213 | 113 | 0 | |
| 214 | 114 | 0 | 214 | 114 | 0 | 214 | 114 | 0.161 | 214 | 114 | 0 | 214 | 114 | 0 | 214 | 114 | 0 | |
| 215 | 115 | 0 | 215 | 115 | 0 | 215 | 115 | 0.16 | 215 | 115 | 0 | 215 | 115 | 0 | 215 | 115 | 0 | |
| 216 | 116 | 0 | 216 | 116 | 0 | 216 | 116 | 0.159 | 216 | 116 | 0 | 216 | 116 | 0 | 216 | 116 | 0 | |
| 217 | 117 | 0 | 217 | 117 | 0 | 217 | 117 | 0.158 | 217 | 117 | 0 | 217 | 117 | 0 | 217 | 117 | 0 | |
| 218 | 118 | 0 | 218 | 118 | 0 | 218 | 118 | 0.157 | 218 | 118 | 0 | 218 | 118 | 0 | 218 | 118 | 0 | |
| 219 | 119 | 0 | 219 | 119 | 0 | 219 | 119 | 0.156 | 219 | 119 | 0 | 219 | 119 | 0 | 219 | 119 | 0 | |
| 220 | 120 | 0 | 220 | 120 | 0 | 220 | 120 | 0.155 | 220 | 120 | 0 | 220 | 120 | 0 | 220 | 120 | 0 | |
| 221 | 121 | 0 | 221 | 121 | 0 | 221 | 121 | 0.154 | 221 | 121 | 0 | 221 | 121 | 0 | 221 | 121 | 0 | |
| 222 | 122 | 0 | 222 | 122 | 0 | 222 | 122 | 0.153 | 222 | 122 | 0 | 222 | 122 | 0 | 222 | 122 | 0 | |
| 223 | 123 | 0 | 223 | 123 | 0 | 223 | 123 | 0.152 | 223 | 123 | 0 | 223 | 123 | 0 | 223 | 123 | 0 | |
| 224 | 124 | 0 | 224 | 124 | 0 | 224 | 124 | 0.151 | 224 | 124 | 0 | 224 | 124 | 0 | 224 | 124 | 0 | |
| 225 | 125 | 0 | 225 | 125 | 0 | 225 | 125 | 0.15 | 225 | 125 | 0 | 225 | 125 | 0 | 225 | 125 | 0 | |
| 226 | 126 | 0 | 226 | 126 | 0 | 226 | 126 | 0.149 | 226 | 126 | 0 | 226 | 126 | 0 | 226 | 126 | 0 | |
| 227 | 127 | 0 | 227 | 127 | 0 | 227 | 127 | 0.148 | 227 | 127 | 0 | 227 | 127 | 0 | 227 | 127 | 0 | |
| 228 | 128 | 0 | 228 | 128 | 0 | 228 | 128 | 0.147 | 228 | 128 | 0 | 228 | 128 | 0 | 228 | 128 | 0 | |
| 229 | 129 | 0 | 229 | 129 | 0 | 229 | 129 | 0.146 | 229 | 129 | 0 | 229 | 129 | 0 | 229 | 129 | 0 | |
| 230 | 130 | 0 | 230 | 130 | 0 | 230 | 130 | 0.145 | 230 | 130 | 0 | 230 | 130 | 0 | 230 | 130 | 0 | |
| 231 | 131 | 0 | 231 | 131 | 0 | 231 | 131 | 0.144 | 231 | 131 | 0 | 231 | 131 | 0 | 231 | 131 | 0 | |
| 232 | 132 | 0 | 232 | 132 | 0 | 232 | 132 | 0.143 | 232 | 132 | 0 | 232 | 132 | 0 | 232 | 132 | 0 | |
| 233 | 133 | 0 | 233 | 133 | 0 | 233 | 133 | 0.142 | 233 | 133 | 0 | 233 | 133 | 0 | 233 | 133 | 0 | |
| 234 | 134 | 0 | 234 | 134 | 0 | 234 | 134 | 0.141 | 234 | 134 | 0 | 234 | 134 | 0 | 234 | 134 | 0 | |
| 235 | 135 | 0 | 235 | 135 | 0 | 235 | 135 | 0.14 | 235 | 135 | 0 | 235 | 135 | 0 | 235 | 135 | 0 | |
| 236 | 136 | 0 | 236 | 136 | 0 | 236 | 136 | 0.139 | 236 | 136 | 0 | 236 | 136 | 0 | 236 | 136 | 0 | |
| 237 | 137 | 0 | 237 | 137 | 0 | 237 | 137 | 0.138 | 237 | 137 | 0 | 237 | 137 | 0 | 237 | 137 | 0 | |
| 238 | 138 | 0 | 238 | 138 | 0 | 238 | 138 | 0.137 | 238 | 138 | 0 | 238 | 138 | 0 | 238 | 138 | 0 | |
| 239 | 139 | 0 | 239 | 139 | 0 | 239 | 139 | 0.136 | 239 | 139 | 0 | 239 | 139 | 0 | 239 | 139 | 0 | |
| 240 | 140 | 0 | 240 | 140 | 0 | 240 | 140 | 0.135 | 240 | 140 | 0 | 240 | 140 | 0 | 240 | 140 | 0 | |
| 241 | 141 | 0 | 241 | 141 | 0 | 241 | 141 | 0.134 | 241 | 141 | 0 | 241 | 141 | 0 | 241 | 141 | 0 | |
| 242 | 142 | 0 | 242 | 142 | 0 | 242 | 142 | 0.133 | 242 | 142 | 0 | 242 | 142 | 0 | 242 | 142 | 0 | |
| 243 | 143 | 0 | 243 | 143 | 0 | 243 | 143 | 0.132 | 243 | 143 | 0 | 243 | 143 | 0 | 243 | 143 | 0 | |
| 244 | 144 | 0 | 244 | 144 | 0 | 244 | 144 | 0.131 | 244 | 144 | 0 | 244 | 144 | 0 | 244 | 144 | 0 | |
| 245 | 145 | 0 | 245 | 145 | 0 | 245 | 145 | 0.13 | 245 | 145 | 0 | 245 | 145 | 0 | 245 | 145 | 0 | |
| 246 | 146 | 0 | 246 | 146 | 0 | 246 | 146 | 0.128 | 246 | 146 | 0 | 246 | 146 | 0 | 246 | 146 | 0 | |
| 247 | 147 | 0 | 247 | 147 | 0 | 247 | 147 | 0.125 | 247 | 147 | 0 | 247 | 147 | 0 | 247 | 147 | 0 | |
| 248 | 148 | 0 | 248 | 148 | 0 | 248 | 148 | 0.123 | 248 | 148 | 0 | 248 | 148 | 0 | 248 | 148 | 0 | |
| 249 | 149 | 0 | 249 | 149 | 0 | 249 | 149 | 0.12 | 249 | 149 | 0 | 249 | 149 | 0 | 249 | 149 | 0 | |

| | | | | | | | | | | | | | | | | | |
|-----|------|---|-----|-----|---|-----|------|-------|-----|------|---|-----|------|---|-----|------|---|
| 116 | -73 | 0 | 116 | -79 | 0 | 116 | -73 | 0.295 | 116 | -73 | 0 | 116 | -73 | 0 | 116 | -73 | 0 |
| 117 | -72 | 0 | 117 | -78 | 0 | 117 | -72 | 0.29 | 117 | -72 | 0 | 117 | -72 | 0 | 117 | -72 | 0 |
| 118 | -71 | 0 | 118 | -77 | 0 | 118 | -71 | 0.285 | 118 | -71 | 0 | 118 | -71 | 0 | 118 | -71 | 0 |
| 119 | -70 | 0 | 119 | -76 | 0 | 119 | -70 | 0.28 | 119 | -70 | 0 | 119 | -70 | 0 | 119 | -70 | 0 |
| 120 | -69 | 0 | 120 | -75 | 0 | 120 | -69 | 0.275 | 120 | -69 | 0 | 120 | -69 | 0 | 120 | -69 | 0 |
| 121 | -68 | 0 | 121 | -74 | 0 | 121 | -68 | 0.27 | 121 | -68 | 0 | 121 | -68 | 0 | 121 | -68 | 0 |
| 122 | -67 | 0 | 122 | -73 | 0 | 122 | -67 | 0.265 | 122 | -67 | 0 | 122 | -67 | 0 | 122 | -67 | 0 |
| 123 | -66 | 0 | 123 | -72 | 0 | 123 | -66 | 0.26 | 123 | -66 | 0 | 123 | -66 | 0 | 123 | -66 | 0 |
| 124 | -65 | 0 | 124 | -71 | 0 | 124 | -65 | 0.255 | 124 | -65 | 0 | 124 | -65 | 0 | 124 | -65 | 0 |
| 125 | -64 | 0 | 125 | -70 | 0 | 125 | -64 | 0.25 | 125 | -64 | 0 | 125 | -64 | 0 | 125 | -64 | 0 |
| 126 | -63 | 0 | 126 | -69 | 0 | 126 | -63 | 0.249 | 126 | -63 | 0 | 126 | -63 | 0 | 126 | -63 | 0 |
| 127 | -62 | 0 | 127 | -68 | 0 | 127 | -62 | 0.248 | 127 | -62 | 0 | 127 | -62 | 0 | 127 | -62 | 0 |
| 128 | -61 | 0 | 128 | -67 | 0 | 128 | -61 | 0.247 | 128 | -61 | 0 | 128 | -61 | 0 | 128 | -61 | 0 |
| 129 | -60 | 0 | 129 | -66 | 0 | 129 | -60 | 0.246 | 129 | -60 | 0 | 129 | -60 | 0 | 129 | -60 | 0 |
| 130 | -59 | 0 | 130 | -65 | 0 | 130 | -59 | 0.245 | 130 | -59 | 0 | 130 | -59 | 0 | 130 | -59 | 0 |
| 131 | -58 | 0 | 131 | -64 | 0 | 131 | -58 | 0.244 | 131 | -58 | 0 | 131 | -58 | 0 | 131 | -58 | 0 |
| 132 | -57 | 0 | 132 | -63 | 0 | 132 | -57 | 0.243 | 132 | -57 | 0 | 132 | -57 | 0 | 132 | -57 | 0 |
| 133 | -56 | 0 | 133 | -62 | 0 | 133 | -56 | 0.242 | 133 | -56 | 0 | 133 | -56 | 0 | 133 | -56 | 0 |
| 134 | -55 | 0 | 134 | -61 | 0 | 134 | -55 | 0.241 | 134 | -55 | 0 | 134 | -55 | 0 | 134 | -55 | 0 |
| 135 | -54 | 0 | 135 | -60 | 0 | 135 | -54 | 0.24 | 135 | -54 | 0 | 135 | -54 | 0 | 135 | -54 | 0 |
| 136 | -53 | 0 | 136 | -59 | 0 | 136 | -53 | 0.239 | 136 | -53 | 0 | 136 | -53 | 0 | 136 | -53 | 0 |
| 137 | -52 | 0 | 137 | -58 | 0 | 137 | -52 | 0.238 | 137 | -52 | 0 | 137 | -52 | 0 | 137 | -52 | 0 |
| 138 | -51 | 0 | 138 | -57 | 0 | 138 | -51 | 0.237 | 138 | -51 | 0 | 138 | -51 | 0 | 138 | -51 | 0 |
| 139 | -50 | 0 | 139 | -56 | 0 | 139 | -50 | 0.236 | 139 | -50 | 0 | 139 | -50 | 0 | 139 | -50 | 0 |
| 140 | -49 | 0 | 140 | -55 | 0 | 140 | -49 | 0.235 | 140 | -49 | 0 | 140 | -49 | 0 | 140 | -49 | 0 |
| 141 | -48 | 0 | 141 | -54 | 0 | 141 | -48 | 0.234 | 141 | -48 | 0 | 141 | -48 | 0 | 141 | -48 | 0 |
| 142 | -47 | 0 | 142 | -53 | 0 | 142 | -47 | 0.233 | 142 | -47 | 0 | 142 | -47 | 0 | 142 | -47 | 0 |
| 143 | -46 | 0 | 143 | -52 | 0 | 143 | -46 | 0.232 | 143 | -46 | 0 | 143 | -46 | 0 | 143 | -46 | 0 |
| 144 | -45 | 0 | 144 | -51 | 0 | 144 | -45 | 0.231 | 144 | -45 | 0 | 144 | -45 | 0 | 144 | -45 | 0 |
| 145 | -44 | 0 | 145 | -50 | 0 | 145 | -44 | 0.23 | 145 | -44 | 0 | 145 | -44 | 0 | 145 | -44 | 0 |
| 146 | -43 | 0 | 146 | -49 | 0 | 146 | -43 | 0.229 | 146 | -43 | 0 | 146 | -43 | 0 | 146 | -43 | 0 |
| 147 | -42 | 0 | 147 | -48 | 0 | 147 | -42 | 0.228 | 147 | -42 | 0 | 147 | -42 | 0 | 147 | -42 | 0 |
| 148 | -41 | 0 | 148 | -47 | 0 | 148 | -41 | 0.227 | 148 | -41 | 0 | 148 | -41 | 0 | 148 | -41 | 0 |
| 149 | -40 | 0 | 149 | -46 | 0 | 149 | -40 | 0.226 | 149 | -40 | 0 | 149 | -40 | 0 | 149 | -40 | 0 |
| 150 | -39 | 0 | 150 | -45 | 0 | 150 | -39 | 0.225 | 150 | -39 | 0 | 150 | -39 | 0 | 150 | -39 | 0 |
| 151 | -38 | 0 | 151 | -44 | 0 | 151 | -38 | 0.224 | 151 | -38 | 0 | 151 | -38 | 0 | 151 | -38 | 0 |
| 152 | -37 | 0 | 152 | -43 | 0 | 152 | -37 | 0.223 | 152 | -37 | 0 | 152 | -37 | 0 | 152 | -37 | 0 |
| 153 | -36 | 0 | 153 | -42 | 0 | 153 | -36 | 0.222 | 153 | -36 | 0 | 153 | -36 | 0 | 153 | -36 | 0 |
| 154 | -35 | 0 | 154 | -41 | 0 | 154 | -35 | 0.221 | 154 | -35 | 0 | 154 | -35 | 0 | 154 | -35 | 0 |
| 155 | -34 | 0 | 155 | -40 | 0 | 155 | -34 | 0.22 | 155 | -34 | 0 | 155 | -34 | 0 | 155 | -34 | 0 |
| 156 | -33 | 0 | 156 | -39 | 0 | 156 | -33 | 0.219 | 156 | -33 | 0 | 156 | -33 | 0 | 156 | -33 | 0 |
| 157 | -32 | 0 | 157 | -38 | 0 | 157 | -32 | 0.218 | 157 | -32 | 0 | 157 | -32 | 0 | 157 | -32 | 0 |
| 158 | -31 | 0 | 158 | -37 | 0 | 158 | -31 | 0.217 | 158 | -31 | 0 | 158 | -31 | 0 | 158 | -31 | 0 |
| 159 | -30 | 0 | 159 | -36 | 0 | 159 | -30 | 0.216 | 159 | -30 | 0 | 159 | -30 | 0 | 159 | -30 | 0 |
| 160 | -29 | 0 | 160 | -35 | 0 | 160 | -29 | 0.215 | 160 | -29 | 0 | 160 | -29 | 0 | 160 | -29 | 0 |
| 161 | -28 | 0 | 161 | -34 | 0 | 161 | -28 | 0.214 | 161 | -28 | 0 | 161 | -28 | 0 | 161 | -28 | 0 |
| 162 | -27 | 0 | 162 | -33 | 0 | 162 | -27 | 0.213 | 162 | -27 | 0 | 162 | -27 | 0 | 162 | -27 | 0 |
| 163 | -26 | 0 | 163 | -32 | 0 | 163 | -26 | 0.212 | 163 | -26 | 0 | 163 | -26 | 0 | 163 | -26 | 0 |
| 164 | -25 | 0 | 164 | -31 | 0 | 164 | -25 | 0.211 | 164 | -25 | 0 | 164 | -25 | 0 | 164 | -25 | 0 |
| 165 | -24 | 0 | 165 | -30 | 0 | 165 | -24 | 0.21 | 165 | -24 | 0 | 165 | -24 | 0 | 165 | -24 | 0 |
| 166 | -23 | 0 | 166 | -29 | 0 | 166 | -23 | 0.209 | 166 | -23 | 0 | 166 | -23 | 0 | 166 | -23 | 0 |
| 167 | -22 | 0 | 167 | -28 | 0 | 167 | -22 | 0.208 | 167 | -22 | 0 | 167 | -22 | 0 | 167 | -22 | 0 |
| 168 | -21 | 0 | 168 | -27 | 0 | 168 | -21 | 0.207 | 168 | -21 | 0 | 168 | -21 | 0 | 168 | -21 | 0 |
| 169 | -20 | 0 | 169 | -26 | 0 | 169 | -20 | 0.206 | 169 | -20 | 0 | 169 | -20 | 0 | 169 | -20 | 0 |
| 170 | -19 | 0 | 170 | -25 | 0 | 170 | -19 | 0.205 | 170 | -19 | 0 | 170 | -19 | 0 | 170 | -19 | 0 |
| 171 | -18 | 0 | 171 | -24 | 0 | 171 | -18 | 0.204 | 171 | -18 | 0 | 171 | -18 | 0 | 171 | -18 | 0 |
| 172 | -17 | 0 | 172 | -23 | 0 | 172 | -17 | 0.203 | 172 | -17 | 0 | 172 | -17 | 0 | 172 | -17 | 0 |
| 173 | -16 | 0 | 173 | -22 | 0 | 173 | -16 | 0.202 | 173 | -16 | 0 | 173 | -16 | 0 | 173 | -16 | 0 |
| 174 | -15 | 0 | 174 | -21 | 0 | 174 | -15 | 0.201 | 174 | -15 | 0 | 174 | -15 | 0 | 174 | -15 | 0 |
| 175 | -14 | 0 | 175 | -20 | 0 | 175 | -14 | 0.2 | 175 | -14 | 0 | 175 | -14 | 0 | 175 | -14 | 0 |
| 176 | -13 | 0 | 176 | -19 | 0 | 176 | -13 | 0.199 | 176 | -13 | 0 | 176 | -13 | 0 | 176 | -13 | 0 |
| 177 | -12 | 0 | 177 | -18 | 0 | 177 | -12 | 0.198 | 177 | -12 | 0 | 177 | -12 | 0 | 177 | -12 | 0 |
| 178 | -11 | 0 | 178 | -17 | 0 | 178 | -11 | 0.197 | 178 | -11 | 0 | 178 | -11 | 0 | 178 | -11 | 0 |
| 179 | -10 | 0 | 179 | -16 | 0 | 179 | -10 | 0.196 | 179 | -10 | 0 | 179 | -10 | 0 | 179 | -10 | 0 |
| 180 | -9.5 | 0 | 180 | -15 | 0 | 180 | -9.5 | 0.195 | 180 | -9.5 | 0 | 180 | -9.5 | 0 | 180 | -9.5 | 0 |
| 181 | -9 | 0 | 181 | -14 | 0 | 181 | -9 | 0.194 | 181 | -9 | 0 | 181 | -9 | 0 | 181 | -9 | 0 |

| | | | | | | | | | | | | | | | | | |
|-----|-------|---|-----|-------|---|-----|------|-------|-----|-----|---|-----|-----|---|-----|-----|---|
| 248 | -233 | 0 | 248 | -212 | 0 | 248 | -245 | 0.123 | 248 | 48 | 0 | 248 | 48 | 0 | 248 | 48 | 0 |
| 249 | -232 | 0 | 249 | -211 | 0 | 249 | -244 | 0.12 | 249 | 49 | 0 | 249 | 49 | 0 | 249 | 49 | 0 |
| 250 | -231 | 0 | 250 | -210 | 0 | 250 | -243 | 0.118 | 250 | 50 | 0 | 250 | 50 | 0 | 250 | 50 | 0 |
| 251 | -230 | 0 | 251 | -209 | 0 | 251 | -242 | 0.115 | 251 | 51 | 0 | 251 | 51 | 0 | 251 | 51 | 0 |
| 252 | -229 | 0 | 252 | -208 | 0 | 252 | -241 | 0.113 | 252 | 52 | 0 | 252 | 52 | 0 | 252 | 52 | 0 |
| 253 | -228 | 0 | 253 | -207 | 0 | 253 | -240 | 0.11 | 253 | 53 | 0 | 253 | 53 | 0 | 253 | 53 | 0 |
| 254 | -227 | 0 | 254 | -206 | 0 | 254 | -239 | 0.108 | 254 | 54 | 0 | 254 | 54 | 0 | 254 | 54 | 0 |
| 255 | -226 | 0 | 255 | -205 | 0 | 255 | -238 | 0.105 | 255 | 55 | 0 | 255 | 55 | 0 | 255 | 55 | 0 |
| 260 | -221 | 0 | 260 | -200 | 0 | 260 | -233 | 0.093 | 260 | 60 | 0 | 260 | 60 | 0 | 260 | 60 | 0 |
| 265 | -216 | 0 | 265 | -195 | 0 | 265 | -228 | 0.08 | 265 | 65 | 0 | 265 | 65 | 0 | 265 | 65 | 0 |
| 270 | -211 | 0 | 270 | -190 | 0 | 270 | -223 | 0.068 | 270 | 70 | 0 | 270 | 70 | 0 | 270 | 70 | 0 |
| 275 | -206 | 0 | 275 | -185 | 0 | 275 | -218 | 0.055 | 275 | 75 | 0 | 275 | 75 | 0 | 275 | 75 | 0 |
| 280 | -201 | 0 | 280 | -180 | 0 | 280 | -213 | 0.043 | 280 | 80 | 0 | 280 | 80 | 0 | 280 | 80 | 0 |
| 285 | -196 | 0 | 285 | -175 | 0 | 285 | -208 | 0.03 | 285 | 85 | 0 | 285 | 85 | 0 | 285 | 85 | 0 |
| 290 | -191 | 0 | 290 | -170 | 0 | 290 | -203 | 0.018 | 290 | 90 | 0 | 290 | 90 | 0 | 290 | 90 | 0 |
| 295 | -186 | 0 | 295 | -165 | 0 | 295 | -198 | 0.005 | 295 | 95 | 0 | 295 | 95 | 0 | 295 | 95 | 0 |
| 300 | -181 | 0 | 300 | -160 | 0 | 300 | -193 | 0.001 | 300 | 100 | 0 | 300 | 100 | 0 | 300 | 100 | 0 |
| 305 | -176 | 0 | 305 | -155 | 0 | 305 | -188 | 0 | 305 | 105 | 0 | 305 | 105 | 0 | 305 | 105 | 0 |
| 310 | -171 | 0 | 310 | -150 | 0 | 310 | -183 | 0 | 310 | 110 | 0 | 310 | 110 | 0 | 310 | 110 | 0 |
| 315 | -166 | 0 | 315 | -145 | 0 | 315 | -178 | 0 | 315 | 115 | 0 | 315 | 115 | 0 | 315 | 115 | 0 |
| 320 | -161 | 0 | 320 | -140 | 0 | 320 | -173 | 0 | 320 | 120 | 0 | 320 | 120 | 0 | 320 | 120 | 0 |
| 325 | -156 | 0 | 325 | -135 | 0 | 325 | -168 | 0 | 325 | 125 | 0 | 325 | 125 | 0 | 325 | 125 | 0 |
| 330 | -151 | 0 | 330 | -130 | 0 | 330 | -163 | 0 | 330 | 130 | 0 | 330 | 130 | 0 | 330 | 130 | 0 |
| 335 | -146 | 0 | 335 | -125 | 0 | 335 | -158 | 0 | 335 | 135 | 0 | 335 | 135 | 0 | 335 | 135 | 0 |
| 340 | -141 | 0 | 340 | -120 | 0 | 340 | -153 | 0 | 340 | 140 | 0 | 340 | 140 | 0 | 340 | 140 | 0 |
| 345 | -136 | 0 | 345 | -115 | 0 | 345 | -148 | 0 | 345 | 145 | 0 | 345 | 145 | 0 | 345 | 145 | 0 |
| 350 | -131 | 0 | 350 | -110 | 0 | 350 | -143 | 0 | 350 | 150 | 0 | 350 | 150 | 0 | 350 | 150 | 0 |
| 355 | -126 | 0 | 355 | -105 | 0 | 355 | -138 | 0 | 355 | 155 | 0 | 355 | 155 | 0 | 355 | 155 | 0 |
| 360 | -121 | 0 | 360 | -100 | 0 | 360 | -133 | 0 | 360 | 160 | 0 | 360 | 160 | 0 | 360 | 160 | 0 |
| 365 | -116 | 0 | 365 | -95 | 0 | 365 | -128 | 0 | 365 | 165 | 0 | 365 | 165 | 0 | 365 | 165 | 0 |
| 370 | -111 | 0 | 370 | -90 | 0 | 370 | -123 | 0 | 370 | 170 | 0 | 370 | 170 | 0 | 370 | 170 | 0 |
| 375 | -106 | 0 | 375 | -85 | 0 | 375 | -118 | 0 | 375 | 175 | 0 | 375 | 175 | 0 | 375 | 175 | 0 |
| 380 | -101 | 0 | 380 | -80 | 0 | 380 | -113 | 0 | 380 | 180 | 0 | 380 | 180 | 0 | 380 | 180 | 0 |
| 385 | -96 | 0 | 385 | -75 | 0 | 385 | -108 | 0 | 385 | 185 | 0 | 385 | 185 | 0 | 385 | 185 | 0 |
| 390 | -91 | 0 | 390 | -70 | 0 | 390 | -103 | 0 | 390 | 190 | 0 | 390 | 190 | 0 | 390 | 190 | 0 |
| 395 | -86 | 0 | 395 | -65 | 0 | 395 | -98 | 0 | 395 | 195 | 0 | 395 | 195 | 0 | 395 | 195 | 0 |
| 400 | -81 | 0 | 400 | -60 | 0 | 400 | -93 | 0 | 400 | 200 | 0 | 400 | 200 | 0 | 400 | 200 | 0 |
| 405 | -76 | 0 | 405 | -55 | 0 | 405 | -88 | 0 | 405 | 205 | 0 | 405 | 205 | 0 | 405 | 205 | 0 |
| 410 | -71 | 0 | 410 | -50 | 0 | 410 | -83 | 0 | 410 | 210 | 0 | 410 | 210 | 0 | 410 | 210 | 0 |
| 415 | -66 | 0 | 415 | -45 | 0 | 415 | -78 | 0 | 415 | 215 | 0 | 415 | 215 | 0 | 415 | 215 | 0 |
| 420 | -61 | 0 | 420 | -40 | 0 | 420 | -73 | 0 | 420 | 220 | 0 | 420 | 220 | 0 | 420 | 220 | 0 |
| 425 | -56 | 0 | 425 | -37.5 | 0 | 425 | -68 | 0 | 425 | 225 | 0 | 425 | 225 | 0 | 425 | 225 | 0 |
| 430 | -51 | 0 | 430 | -35 | 0 | 430 | -63 | 0 | 430 | 230 | 0 | 430 | 230 | 0 | 430 | 230 | 0 |
| 435 | -46 | 0 | 435 | -32.5 | 0 | 435 | -58 | 0 | 435 | 235 | 0 | 435 | 235 | 0 | 435 | 235 | 0 |
| 440 | -41 | 0 | 440 | -30 | 0 | 440 | -53 | 0 | 440 | 240 | 0 | 440 | 240 | 0 | 440 | 240 | 0 |
| 445 | -36 | 0 | 445 | -27.5 | 0 | 445 | -48 | 0 | 445 | 245 | 0 | 445 | 245 | 0 | 445 | 245 | 0 |
| 450 | -31 | 0 | 450 | -25 | 0 | 450 | -43 | 0 | 450 | 250 | 0 | 450 | 250 | 0 | 450 | 250 | 0 |
| 455 | -26 | 0 | 455 | -22.5 | 0 | 455 | -38 | 0 | 455 | 255 | 0 | 455 | 255 | 0 | 455 | 255 | 0 |
| 460 | -21 | 0 | 460 | -20 | 0 | 460 | -33 | 0 | 460 | 260 | 0 | 460 | 260 | 0 | 460 | 260 | 0 |
| 465 | -18.5 | 0 | 465 | -17.5 | 0 | 465 | -28 | 0 | 465 | 265 | 0 | 465 | 265 | 0 | 465 | 265 | 0 |
| 470 | -16 | 0 | 470 | -15 | 0 | 470 | -23 | 0 | 470 | 270 | 0 | 470 | 270 | 0 | 470 | 270 | 0 |
| 475 | -13.5 | 0 | 475 | -12.5 | 0 | 475 | -18 | 0 | 475 | 275 | 0 | 475 | 275 | 0 | 475 | 275 | 0 |
| 480 | -11 | 0 | 480 | -10 | 0 | 480 | -13 | 0 | 480 | 280 | 0 | 480 | 280 | 0 | 480 | 280 | 0 |
| 485 | -8.5 | 0 | 485 | -7.5 | 0 | 485 | -8 | 0 | 485 | 285 | 0 | 485 | 285 | 0 | 485 | 285 | 0 |
| 490 | -6 | 0 | 490 | -5 | 0 | 490 | -5 | 0 | 490 | 290 | 0 | 490 | 290 | 0 | 490 | 290 | 0 |
| 495 | -2 | 0 | 495 | -2 | 0 | 495 | -2 | 0 | 495 | 295 | 0 | 495 | 295 | 0 | 495 | 295 | 0 |
| 500 | 0 | 0 | 500 | 0 | 0 | 500 | 0 | 0 | 500 | 300 | 0 | 500 | 300 | 0 | 500 | 300 | 0 |
| 505 | 5 | 0 | 505 | 5 | 0 | 505 | 5 | 0 | 505 | 305 | 0 | 505 | 305 | 0 | 505 | 305 | 0 |
| 510 | 10 | 0 | 510 | 10 | 0 | 510 | 10 | 0 | 510 | 310 | 0 | 510 | 310 | 0 | 510 | 310 | 0 |
| 515 | 15 | 0 | 515 | 15 | 0 | 515 | 15 | 0 | 515 | 315 | 0 | 515 | 315 | 0 | 515 | 315 | 0 |
| 520 | 20 | 0 | 520 | 20 | 0 | 520 | 20 | 0 | 520 | 320 | 0 | 520 | 320 | 0 | 520 | 320 | 0 |
| 525 | 25 | 0 | 525 | 25 | 0 | 525 | 25 | 0 | 525 | 325 | 0 | 525 | 325 | 0 | 525 | 325 | 0 |
| 530 | 30 | 0 | 530 | 30 | 0 | 530 | 30 | 0 | 530 | 330 | 0 | 530 | 330 | 0 | 530 | 330 | 0 |
| 535 | 35 | 0 | 535 | 35 | 0 | 535 | 35 | 0 | 535 | 335 | 0 | 535 | 335 | 0 | 535 | 335 | 0 |
| 540 | 40 | 0 | 540 | 40 | 0 | 540 | 40 | 0 | 540 | 340 | 0 | 540 | 340 | 0 | 540 | 340 | 0 |
| 545 | 45 | 0 | 545 | 45 | 0 | 545 | 45 | 0 | 545 | 345 | 0 | 545 | 345 | 0 | 545 | 345 | 0 |
| 550 | 50 | 0 | 550 | 50 | 0 | 550 | 50 | 0 | 550 | 350 | 0 | 550 | 350 | 0 | 550 | 350 | 0 |

Appendix A.5. Evaporation Data

A =183day stretch has constant PE=0.6cm/day
 B =183day stretch has real calculated PE

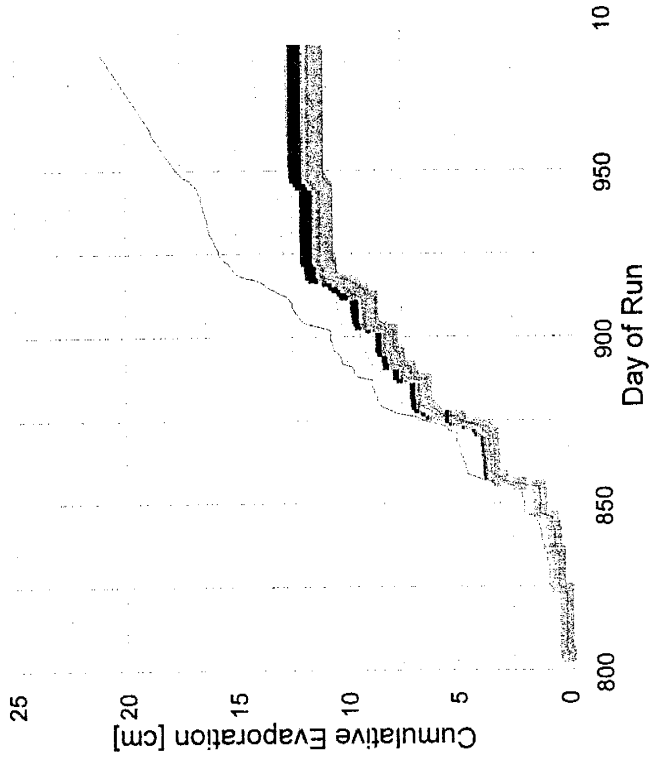
| Cum.PcpI | Day | Cum.PcpI | Day | CLAY1MFElat Cum.E.(cm) | CLAY1MTop Cum.E.(cm) | CLAY1MBotic Cum.E.(cm) | CLAY1M1M Cum.E.(cm) | CLAY1M30CM Cum.E.(cm) | CLAY1M3M Cum.E.(cm) | CLAY2MFElat Cum.E.(cm) | CLAY2MTop Cum.E.(cm) | CLAY2MBottom Cum.E.(cm) |
|----------|--------|----------|-----|---------------------------|-------------------------|---------------------------|------------------------|--------------------------|------------------------|---------------------------|-------------------------|----------------------------|
| 0 | 0 | 0 | 804 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0 | 0.05 | 0.06 |
| 0 | 0 | 0.0508 | 805 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | 0.0508 | 0.09 | 0.09 |
| 0.9906 | 0.127 | 0.127 | 806 | 0.8906 | 0.7906 | 0.8906 | 0.6906 | 0.7906 | 0.8906 | 0.6906 | 0.6906 | 0.6906 |
| 1.4986 | 0.127 | 0.127 | 807 | 1.3986 | 1.3986 | 1.4986 | 1.2986 | 1.3986 | 1.4986 | 1.2986 | 1.2986 | 1.2986 |
| 1.6002 | 0.127 | 0.127 | 808 | 1.8002 | 1.6002 | 1.9002 | 1.6002 | 1.6002 | 2.0002 | 1.5002 | 1.5002 | 1.5002 |
| 1.6002 | 0.127 | 0.127 | 809 | 1.9002 | 1.7002 | 2.0002 | 1.7002 | 1.7002 | 2.3002 | 1.5002 | 1.5002 | 1.5002 |
| 1.6002 | 0.127 | 0.127 | 810 | 2.0002 | 1.8002 | 2.1002 | 1.7002 | 1.8002 | 2.4002 | 1.5002 | 1.5002 | 1.5002 |
| 1.6002 | 0.127 | 0.127 | 811 | 2.0002 | 1.8002 | 2.2002 | 1.8002 | 1.8002 | 2.6002 | 1.6002 | 1.6002 | 1.6002 |
| 1.6002 | 0.127 | 0.127 | 812 | 2.1002 | 1.9002 | 2.3002 | 1.8002 | 1.9002 | 2.7002 | 1.6002 | 1.6002 | 1.6002 |
| 1.6002 | 0.127 | 0.127 | 813 | 2.2002 | 1.9002 | 2.4002 | 1.9002 | 2.0002 | 2.8002 | 1.6002 | 1.6002 | 1.6002 |
| 1.6002 | 0.127 | 0.127 | 814 | 2.2002 | 2.0002 | 2.5002 | 1.9002 | 2.0002 | 2.9002 | 1.6002 | 1.6002 | 1.6002 |
| 2.0066 | 0.127 | 0.127 | 815 | 2.7066 | 2.4066 | 3.0666 | 2.3066 | 2.5066 | 3.0666 | 2.0666 | 2.0666 | 2.0666 |
| 2.0066 | 0.127 | 0.127 | 816 | 2.7066 | 2.5066 | 3.0666 | 2.4066 | 2.5066 | 3.0666 | 2.0666 | 2.0666 | 2.0666 |
| 2.0066 | 0.127 | 0.127 | 817 | 2.8066 | 2.5066 | 3.1666 | 2.4066 | 2.6066 | 3.0666 | 2.0666 | 2.0666 | 2.0666 |
| 2.0066 | 0.127 | 0.127 | 818 | 2.8066 | 2.6066 | 3.1666 | 2.4066 | 2.6066 | 3.0666 | 2.0666 | 2.0666 | 2.0666 |
| 2.0066 | 0.127 | 0.127 | 819 | 2.9066 | 2.6066 | 3.2666 | 2.5066 | 2.7066 | 3.0666 | 2.0666 | 2.0666 | 2.0666 |
| 2.0066 | 0.127 | 0.127 | 820 | 2.9066 | 2.6066 | 3.3666 | 2.5066 | 2.7066 | 3.0666 | 2.0666 | 2.0666 | 2.0666 |
| 2.0066 | 0.127 | 0.127 | 821 | 3.0066 | 2.7066 | 3.3666 | 2.5066 | 2.8066 | 3.0666 | 2.0666 | 2.0666 | 2.0666 |
| 2.2098 | 0.127 | 0.127 | 822 | 3.2098 | 2.9098 | 3.6098 | 2.8098 | 3.1098 | 3.1098 | 2.3898 | 2.3898 | 2.3898 |
| 2.2098 | 0.127 | 0.127 | 823 | 3.3098 | 3.0098 | 3.6098 | 2.8098 | 3.1098 | 3.1098 | 2.3898 | 2.3898 | 2.3898 |
| 2.2098 | 0.127 | 0.127 | 824 | 3.3098 | 3.0098 | 3.7098 | 2.8098 | 3.2098 | 3.1098 | 2.3898 | 2.3898 | 2.3898 |
| 2.2098 | 0.4826 | 0.4826 | 825 | 3.3098 | 3.0098 | 3.7098 | 2.8098 | 3.2098 | 3.1098 | 2.3898 | 2.3898 | 2.3898 |
| 2.2098 | 0.4826 | 0.4826 | 826 | 3.4098 | 3.1098 | 3.8098 | 2.9098 | 3.3098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 827 | 3.4098 | 3.1098 | 3.9098 | 2.9098 | 3.3098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 828 | 3.5098 | 3.2098 | 3.9098 | 2.9098 | 3.4098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 829 | 3.5098 | 3.2098 | 4.0098 | 3.0098 | 3.5098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 830 | 3.6098 | 3.3098 | 4.0098 | 3.0098 | 3.5098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 831 | 3.6098 | 3.3098 | 4.1098 | 3.0098 | 3.6098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 832 | 3.7098 | 3.3098 | 4.1098 | 3.1098 | 3.6098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 833 | 3.7098 | 3.4098 | 4.2098 | 3.1098 | 3.7098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 834 | 3.7098 | 3.4098 | 4.2098 | 3.1098 | 3.7098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.4826 | 0.4826 | 835 | 3.8098 | 3.5098 | 4.3098 | 3.1098 | 3.8098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.635 | 0.635 | 836 | 3.8098 | 3.5098 | 4.4098 | 3.2098 | 3.9098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.635 | 0.635 | 837 | 3.8098 | 3.5098 | 4.4098 | 3.2098 | 3.9098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.635 | 0.635 | 838 | 4.0098 | 3.6098 | 4.4098 | 3.2098 | 4.0098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.635 | 0.635 | 839 | 4.0098 | 3.6098 | 4.5098 | 3.3098 | 4.1098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.635 | 0.635 | 840 | 4.0098 | 3.7098 | 4.5098 | 3.3098 | 4.1098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.635 | 0.635 | 841 | 4.1098 | 3.7098 | 4.6098 | 3.3098 | 4.1098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.6604 | 0.6604 | 842 | 4.1098 | 3.7098 | 4.6098 | 3.3098 | 4.2098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |
| 2.2098 | 0.7112 | 0.7112 | 843 | 4.1098 | 3.8098 | 4.7098 | 3.4098 | 4.3098 | 3.1098 | 2.4198 | 2.4198 | 2.4198 |

| | | | | | | | | | | | | | | |
|--------|-----|--------|-----|--------|--------|---------|--------|--------|---------|---------|--------|--------|--------|--------|
| 3.5052 | 844 | 0.762 | 844 | 4.7052 | 4.4052 | 5.3052 | 4.0052 | 4.9052 | 2.162 | 6.5052 | 1.362 | 3.1752 | 3.1852 | 3.2152 |
| 3.7084 | 845 | 0.762 | 845 | 5.3084 | 4.9084 | 5.8084 | 4.5084 | 5.3084 | 2.262 | 7.1084 | 1.462 | 3.6384 | 3.6284 | 3.6784 |
| 3.7084 | 846 | 0.762 | 846 | 5.4084 | 5.0084 | 6.0084 | 4.6084 | 5.4084 | 2.262 | 7.3084 | 1.462 | 3.6984 | 3.6984 | 3.7484 |
| 3.7084 | 847 | 1.2954 | 847 | 5.5084 | 5.1084 | 6.1084 | 4.6084 | 5.5084 | 2.7954 | 7.4084 | 1.9954 | 3.7384 | 3.7384 | 3.7884 |
| 3.7084 | 848 | 1.2954 | 848 | 5.6084 | 5.1084 | 6.2084 | 4.7084 | 5.6084 | 2.8954 | 7.6084 | 1.9954 | 3.7784 | 3.7884 | 3.8284 |
| 3.81 | 849 | 1.2954 | 849 | 5.71 | 5.31 | 6.31 | 4.81 | 5.71 | 2.8954 | 7.81 | 1.9954 | 3.9 | 3.89 | 3.96 |
| 3.81 | 850 | 1.2954 | 850 | 5.81 | 5.31 | 6.41 | 4.91 | 5.81 | 2.8954 | 7.91 | 1.9954 | 3.92 | 3.91 | 3.98 |
| 3.9116 | 851 | 1.2954 | 851 | 5.9116 | 5.5116 | 6.5116 | 5.0116 | 5.9116 | 2.9954 | 8.1116 | 1.9954 | 4.0416 | 4.0316 | 4.1016 |
| 3.9116 | 852 | 1.2954 | 852 | 6.0116 | 5.5116 | 6.6116 | 5.1116 | 6.0116 | 2.9954 | 8.2116 | 2.0954 | 4.0616 | 4.0516 | 4.1216 |
| 3.9116 | 853 | 1.2954 | 853 | 6.1116 | 5.5116 | 6.7116 | 5.1116 | 6.1116 | 3.0954 | 8.3116 | 2.0954 | 4.0816 | 4.0716 | 4.1416 |
| 3.9116 | 854 | 1.3208 | 854 | 6.1116 | 5.6116 | 6.7116 | 5.1116 | 6.1116 | 3.1208 | 8.4116 | 2.1208 | 4.0916 | 4.0816 | 4.1516 |
| 3.9116 | 855 | 1.3462 | 855 | 6.1116 | 5.7116 | 6.8116 | 5.1116 | 6.1116 | 3.1462 | 8.4116 | 2.1462 | 4.1116 | 4.1016 | 4.1716 |
| 3.9116 | 856 | 3.1496 | 856 | 6.2116 | 5.7116 | 6.8116 | 5.2116 | 6.2116 | 4.0496 | 8.5116 | 2.9496 | 4.1216 | 4.1116 | 4.1816 |
| 3.9116 | 857 | 3.81 | 857 | 6.3116 | 5.7116 | 6.9116 | 5.2116 | 6.3116 | 4.91 | 8.6116 | 3.81 | 4.1316 | 4.1316 | 4.1916 |
| 3.9116 | 858 | 3.8354 | 858 | 6.3116 | 5.8116 | 6.9116 | 5.2116 | 6.3116 | 5.0354 | 8.7116 | 4.1354 | 4.1516 | 4.1416 | 4.2016 |
| 3.9116 | 859 | 4.1402 | 859 | 6.3116 | 5.8116 | 7.0116 | 5.3116 | 6.3116 | 5.3402 | 8.8116 | 4.5402 | 4.1716 | 4.1616 | 4.2216 |
| 3.9116 | 860 | 4.1402 | 860 | 6.3116 | 5.9116 | 7.1116 | 5.3116 | 6.3116 | 5.4402 | 8.9116 | 4.5402 | 4.1816 | 4.1816 | 4.2316 |
| 3.9116 | 861 | 4.1402 | 861 | 6.4116 | 5.9116 | 7.1116 | 5.3116 | 6.3116 | 5.4402 | 9.0116 | 4.6402 | 4.1816 | 4.1816 | 4.2416 |
| 3.9116 | 862 | 4.1402 | 862 | 6.4116 | 5.9116 | 7.2116 | 5.4116 | 6.4116 | 5.4402 | 9.1116 | 4.6402 | 4.1916 | 4.1916 | 4.2516 |
| 3.9116 | 863 | 4.1402 | 863 | 6.5116 | 6.0116 | 7.2116 | 5.4116 | 6.5116 | 5.5402 | 9.1116 | 4.7402 | 4.2016 | 4.2016 | 4.2616 |
| 3.9116 | 864 | 4.1402 | 864 | 6.5116 | 6.0116 | 7.3116 | 5.4116 | 6.5116 | 5.5402 | 9.2116 | 4.7402 | 4.2116 | 4.2116 | 4.2716 |
| 3.9116 | 865 | 4.1402 | 865 | 6.6116 | 6.1116 | 7.3116 | 5.4116 | 6.6116 | 5.6402 | 9.3116 | 4.8402 | 4.2216 | 4.2216 | 4.2816 |
| 3.9116 | 866 | 4.191 | 866 | 6.6116 | 6.1116 | 7.4116 | 5.5116 | 6.6116 | 5.691 | 9.4116 | 4.891 | 4.2316 | 4.2316 | 4.2916 |
| 3.9116 | 867 | 4.191 | 867 | 6.7116 | 6.1116 | 7.4116 | 5.5116 | 6.7116 | 5.691 | 9.5116 | 4.891 | 4.2416 | 4.2416 | 4.3016 |
| 3.9116 | 868 | 4.191 | 868 | 6.7116 | 6.2116 | 7.5116 | 5.5116 | 6.7116 | 5.791 | 9.6116 | 4.991 | 4.2516 | 4.2516 | 4.3116 |
| 3.9116 | 869 | 4.2164 | 869 | 6.7116 | 6.2116 | 7.5116 | 5.6116 | 6.7116 | 5.8164 | 9.6116 | 5.0164 | 4.2616 | 4.2616 | 4.3116 |
| 3.9116 | 870 | 4.2164 | 870 | 6.8116 | 6.3116 | 7.6116 | 5.6116 | 6.8116 | 5.8164 | 9.7116 | 5.0164 | 4.2716 | 4.2716 | 4.3216 |
| 3.9116 | 871 | 4.2164 | 871 | 6.8116 | 6.3116 | 7.6116 | 5.6116 | 6.8116 | 5.9164 | 9.8116 | 5.0164 | 4.2816 | 4.2816 | 4.3316 |
| 4.0132 | 872 | 4.4958 | 872 | 7.0132 | 6.4132 | 7.7132 | 5.7132 | 7.0132 | 6.1958 | 10.0132 | 5.3958 | 4.3932 | 4.3932 | 4.4432 |
| 4.318 | 873 | 4.572 | 873 | 7.318 | 6.818 | 8.118 | 6.118 | 7.318 | 6.372 | 10.418 | 5.472 | 4.698 | 4.708 | 4.758 |
| 6.223 | 874 | 5.0546 | 874 | 7.923 | 7.423 | 8.723 | 6.723 | 7.923 | 6.8546 | 11.023 | 5.9546 | 5.303 | 5.313 | 5.353 |
| 6.3246 | 875 | 6.0452 | 875 | 8.5246 | 7.9246 | 9.3246 | 7.2246 | 8.5246 | 7.4452 | 11.6246 | 6.5452 | 5.7846 | 5.7846 | 5.8846 |
| 6.3246 | 876 | 6.0452 | 876 | 8.7246 | 8.1246 | 9.5246 | 7.4246 | 8.7246 | 7.6452 | 11.8246 | 6.8452 | 5.8846 | 5.8846 | 5.9846 |
| 6.3246 | 877 | 7.1374 | 877 | 8.8246 | 8.2246 | 9.7246 | 7.5246 | 8.8246 | 8.5374 | 12.1246 | 7.7374 | 5.9846 | 5.9846 | 6.0846 |
| 6.3246 | 878 | 7.1882 | 878 | 8.9246 | 8.3246 | 9.8246 | 7.6246 | 8.9246 | 8.7882 | 12.3246 | 7.9882 | 6.0046 | 6.0046 | 6.1146 |
| 6.3246 | 879 | 7.493 | 879 | 9.0246 | 8.4246 | 9.9246 | 7.6246 | 9.0246 | 9.093 | 12.4246 | 8.393 | 6.0346 | 6.0346 | 6.1546 |
| 6.3246 | 880 | 7.5946 | 880 | 9.1246 | 8.4246 | 10.0246 | 7.7246 | 9.1246 | 9.2946 | 12.6246 | 8.4946 | 6.0646 | 6.0646 | 6.1946 |
| 6.3246 | 881 | 7.62 | 881 | 9.1246 | 8.5246 | 10.1246 | 7.7246 | 9.1246 | 9.32 | 12.7246 | 8.52 | 6.0946 | 6.0946 | 6.2246 |
| 6.3246 | 882 | 7.62 | 882 | 9.2246 | 8.5246 | 10.1246 | 7.7246 | 9.2246 | 9.42 | 12.8246 | 8.62 | 6.1146 | 6.1146 | 6.2446 |
| 6.3246 | 883 | 7.6454 | 883 | 9.2246 | 8.6246 | 10.2246 | 7.8246 | 9.2246 | 9.4454 | 12.9246 | 8.7454 | 6.1346 | 6.1346 | 6.2746 |
| 6.3246 | 884 | 7.6454 | 884 | 9.3246 | 8.6246 | 10.3246 | 7.8246 | 9.3246 | 9.5454 | 13.0246 | 8.7454 | 6.1546 | 6.1546 | 6.2946 |
| 6.3246 | 885 | 7.6454 | 885 | 9.4246 | 8.7246 | 10.3246 | 7.9246 | 9.4246 | 9.5454 | 13.1246 | 8.8454 | 6.1746 | 6.1746 | 6.3146 |
| 6.3246 | 886 | 7.6454 | 886 | 9.4246 | 8.7246 | 10.4246 | 7.9246 | 9.4246 | 9.5454 | 13.2246 | 8.8454 | 6.1846 | 6.1846 | 6.3246 |
| 6.3246 | 887 | 7.6454 | 887 | 9.5246 | 8.8246 | 10.5246 | 7.9246 | 9.5246 | 9.6454 | 13.3246 | 8.9454 | 6.2046 | 6.2046 | 6.3446 |
| 6.3246 | 888 | 8.2296 | 888 | 9.5246 | 8.8246 | 10.5246 | 8.0246 | 9.5246 | 10.2296 | 13.4246 | 9.5296 | 6.2146 | 6.2146 | 6.3646 |
| 6.3246 | 889 | 8.382 | 889 | 9.6246 | 8.8246 | 10.6246 | 8.0246 | 9.6246 | 10.382 | 13.4246 | 9.682 | 6.2246 | 6.2246 | 6.3746 |
| 6.3246 | 890 | 8.382 | 890 | 9.6246 | 8.9246 | 10.6246 | 8.0246 | 9.6246 | 10.482 | 13.5246 | 9.682 | 6.2446 | 6.2446 | 6.3946 |
| 6.3246 | 891 | 8.382 | 891 | 9.6246 | 8.9246 | 10.7246 | 8.0246 | 9.6246 | 10.482 | 13.6246 | 9.782 | 6.2546 | 6.2546 | 6.4046 |

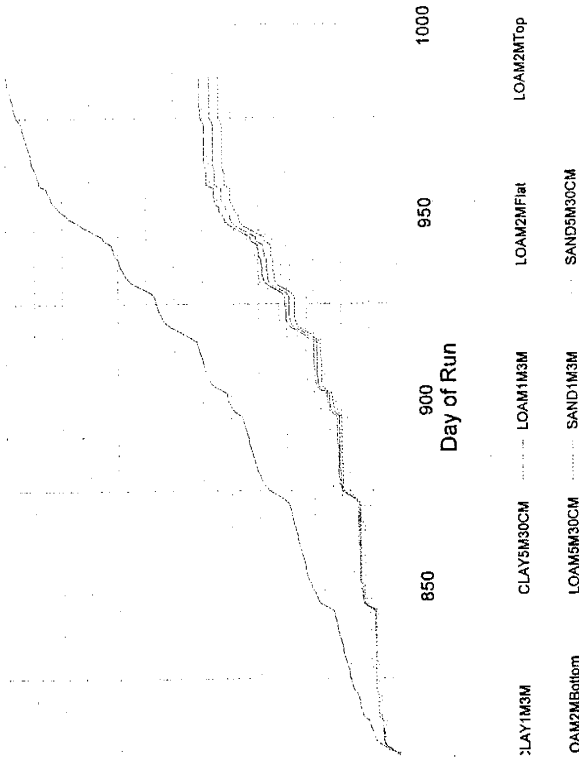
| | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 6.3246 | 8.8392 | 9.7246 | 10.7246 | 8.1246 | 9.9246 | 10.8392 | 13.7246 | 10.2392 | 6.2646 | 6.2246 | 6.4146 |
| 6.3246 | 8.8392 | 9.7246 | 10.8246 | 8.1246 | 9.9246 | 11.0392 | 13.8246 | 10.2392 | 6.2746 | 6.2346 | 6.4246 |
| 6.3246 | 8.89 | 9.8246 | 10.9246 | 8.1246 | 10.0246 | 11.09 | 13.9246 | 10.29 | 6.2846 | 6.2446 | 6.4446 |
| 6.3246 | 8.89 | 9.8246 | 10.9246 | 8.2246 | 10.0246 | 11.19 | 14.0246 | 10.39 | 6.3046 | 6.2546 | 6.4546 |
| 7.0358 | 9.1186 | 9.8246 | 10.9246 | 8.8358 | 10.6358 | 11.4186 | 14.6358 | 10.6186 | 6.8958 | 6.8558 | 7.0558 |
| 7.1374 | 9.1694 | 9.9374 | 11.7374 | 9.0374 | 10.9374 | 11.4694 | 14.9374 | 10.6694 | 7.0774 | 7.0374 | 7.2374 |
| 7.1374 | 9.1694 | 10.0374 | 11.8374 | 9.0374 | 10.9374 | 11.5694 | 15.0374 | 10.6694 | 7.0974 | 7.0574 | 7.2574 |
| 7.239 | 9.1694 | 10.839 | 12.039 | 9.139 | 11.139 | 11.5694 | 15.239 | 10.7694 | 7.219 | 7.179 | 7.379 |
| 7.239 | 9.1694 | 10.839 | 12.039 | 9.239 | 11.139 | 11.5694 | 15.339 | 10.7694 | 7.239 | 7.199 | 7.389 |
| 7.239 | 9.1694 | 10.839 | 12.139 | 9.239 | 11.239 | 11.6694 | 15.339 | 10.7694 | 7.249 | 7.209 | 7.399 |
| 8.9408 | 9.1694 | 11.6408 | 12.7408 | 9.8408 | 11.8408 | 11.6694 | 15.9408 | 10.7694 | 7.8508 | 7.8108 | 8.0008 |
| 8.9408 | 11.303 | 12.0408 | 13.2408 | 10.2408 | 12.2408 | 12.203 | 16.5408 | 11.303 | 8.2208 | 8.1708 | 8.4008 |
| 8.9408 | 11.303 | 12.0408 | 13.4408 | 10.4408 | 12.4408 | 12.703 | 16.9408 | 11.303 | 8.2208 | 8.1708 | 8.4008 |
| 8.9408 | 11.303 | 12.3408 | 13.5408 | 10.5408 | 12.4408 | 12.903 | 17.1408 | 12.103 | 8.3708 | 8.3008 | 8.5708 |
| 8.9408 | 11.303 | 12.4408 | 13.6408 | 10.5408 | 12.5408 | 12.903 | 17.1408 | 12.203 | 8.4108 | 8.3408 | 8.6208 |
| 8.9408 | 11.303 | 12.5408 | 13.7408 | 10.6408 | 12.6408 | 13.003 | 17.2408 | 12.303 | 8.4408 | 8.3708 | 8.6608 |
| 8.9408 | 11.303 | 12.6408 | 13.8408 | 10.7408 | 12.7408 | 13.103 | 17.4408 | 12.403 | 8.4908 | 8.4108 | 8.7208 |
| 8.9408 | 11.303 | 12.6408 | 13.9408 | 10.7408 | 12.7408 | 13.103 | 17.4408 | 12.503 | 8.4908 | 8.4108 | 8.7208 |
| 8.9408 | 11.303 | 12.7408 | 14.0408 | 10.8408 | 12.8408 | 13.203 | 17.6408 | 12.603 | 8.5108 | 8.4308 | 8.7408 |
| 8.9408 | 11.303 | 12.7408 | 14.1408 | 10.8408 | 12.8408 | 13.203 | 17.6408 | 12.703 | 8.5108 | 8.4308 | 8.7408 |
| 8.9408 | 11.303 | 12.8408 | 14.2408 | 10.8408 | 12.9408 | 13.203 | 17.6408 | 12.803 | 8.5308 | 8.4508 | 8.7708 |
| 8.9408 | 11.303 | 12.8408 | 14.2408 | 10.9408 | 13.0408 | 13.203 | 17.7408 | 12.903 | 8.5508 | 8.4708 | 8.7908 |
| 8.9408 | 11.303 | 12.9408 | 14.3408 | 10.9408 | 13.0408 | 13.203 | 17.7408 | 13.0872 | 8.5708 | 8.4908 | 8.8008 |
| 8.9408 | 11.9126 | 12.9408 | 14.4408 | 10.9408 | 13.0408 | 13.9126 | 18.0408 | 13.3126 | 8.5808 | 8.5008 | 8.8208 |
| 8.9408 | 12.1666 | 12.9408 | 14.4408 | 10.9408 | 13.0408 | 14.1866 | 18.0408 | 13.6666 | 8.6008 | 8.5008 | 8.8408 |
| 10.2362 | 12.2936 | 13.5362 | 14.9362 | 11.5362 | 13.6362 | 14.9362 | 18.9362 | 13.7362 | 9.1962 | 9.1162 | 9.4362 |
| 10.2362 | 12.573 | 13.9362 | 15.3362 | 11.8362 | 14.0362 | 14.873 | 19.1362 | 14.073 | 9.4862 | 9.3662 | 9.7462 |
| 10.9474 | 13.4112 | 14.5474 | 15.8474 | 12.4474 | 14.5474 | 15.3112 | 19.7474 | 14.7112 | 10.0774 | 9.9874 | 10.3474 |
| 11.7602 | 13.4366 | 15.0602 | 16.4602 | 13.0602 | 15.3602 | 15.5366 | 20.3602 | 15.0366 | 10.8902 | 10.8002 | 11.1802 |
| 11.7602 | 13.4366 | 15.0602 | 16.4602 | 13.2602 | 15.3602 | 15.5366 | 20.3602 | 15.1366 | 10.8902 | 10.8002 | 11.1802 |
| 11.8618 | 13.4366 | 15.3602 | 16.8602 | 13.4618 | 15.5618 | 15.6366 | 21.0618 | 15.2366 | 11.0518 | 10.9318 | 11.3618 |
| 11.8618 | 13.4366 | 15.3602 | 16.8602 | 13.4618 | 15.5618 | 15.6366 | 21.0618 | 15.2366 | 11.0518 | 10.9318 | 11.3618 |
| 11.8618 | 13.568 | 15.6618 | 17.1618 | 13.5618 | 15.6618 | 15.6366 | 21.1618 | 15.3366 | 11.0918 | 10.9618 | 11.4118 |
| 11.8618 | 13.568 | 15.6618 | 17.1618 | 13.5618 | 15.6618 | 15.8636 | 21.3618 | 15.3636 | 11.1218 | 10.9918 | 11.4518 |
| 11.8618 | 13.568 | 15.6618 | 17.2618 | 13.6618 | 15.7618 | 15.8689 | 21.4618 | 15.3689 | 11.1518 | 11.0118 | 11.4818 |
| 11.8618 | 13.568 | 15.6618 | 17.2618 | 13.6618 | 15.7618 | 15.8689 | 21.4618 | 15.3689 | 11.1518 | 11.0118 | 11.4818 |
| 11.8618 | 13.568 | 15.6618 | 17.3618 | 13.6618 | 15.8618 | 16.089 | 21.5618 | 15.789 | 11.1718 | 11.0418 | 11.5018 |
| 11.8618 | 13.568 | 15.6618 | 17.3618 | 13.6618 | 15.8618 | 16.089 | 21.5618 | 15.789 | 11.1718 | 11.0418 | 11.5018 |
| 11.8618 | 13.568 | 15.9618 | 17.5618 | 13.7618 | 15.9618 | 16.089 | 21.7618 | 15.889 | 11.1918 | 11.0518 | 11.5318 |
| 11.8618 | 13.568 | 15.9618 | 17.5618 | 13.7618 | 15.9618 | 16.089 | 21.7618 | 15.889 | 11.1918 | 11.0518 | 11.5318 |
| 12.065 | 13.589 | 16.265 | 17.865 | 13.965 | 16.165 | 16.089 | 22.065 | 15.989 | 11.2118 | 11.0718 | 11.5518 |
| 12.065 | 13.589 | 16.265 | 17.865 | 13.965 | 16.165 | 16.089 | 22.065 | 15.989 | 11.2118 | 11.0718 | 11.5518 |
| 14.1732 | 13.589 | 16.8732 | 18.4732 | 14.5732 | 16.7732 | 16.189 | 22.6732 | 15.989 | 12.0332 | 11.8932 | 12.3732 |
| 14.6812 | 13.589 | 17.4812 | 19.0812 | 15.1812 | 17.3812 | 16.189 | 23.2812 | 16.089 | 12.6312 | 12.4912 | 12.9712 |
| 14.7828 | 13.589 | 17.9828 | 19.6828 | 15.6828 | 17.8828 | 16.289 | 23.8828 | 16.189 | 13.0128 | 12.8428 | 13.4128 |
| 14.7828 | 13.589 | 18.1828 | 19.8828 | 15.8828 | 18.0828 | 16.289 | 24.1828 | 16.189 | 13.1128 | 12.9228 | 13.5328 |
| 14.7828 | 13.589 | 18.2828 | 19.9828 | 15.8828 | 18.0828 | 16.389 | 24.3828 | 16.289 | 13.1728 | 12.9728 | 13.6128 |
| 14.7828 | 13.589 | 18.2828 | 19.9828 | 15.9828 | 18.0828 | 16.389 | 24.5828 | 16.289 | 13.2128 | 13.0028 | 13.6728 |
| 14.7828 | 13.589 | 18.4828 | 20.2828 | 15.9828 | 18.2828 | 16.389 | 24.5828 | 16.289 | 13.2528 | 13.0228 | 13.7228 |
| 14.7828 | 13.589 | 18.4828 | 20.2828 | 16.0828 | 18.2828 | 16.489 | 24.8828 | 16.389 | 13.2828 | 13.0628 | 13.7628 |
| 14.7828 | 13.589 | 18.6828 | 20.4828 | 16.0828 | 18.2828 | 16.489 | 24.8828 | 16.389 | 13.3128 | 13.0828 | 13.8028 |
| 14.986 | 13.589 | 18.866 | 20.786 | 16.366 | 18.566 | 16.589 | 25.286 | 16.489 | 13.536 | 13.306 | 14.036 |
| 14.986 | 13.589 | 18.866 | 20.786 | 16.366 | 18.566 | 16.589 | 25.286 | 16.489 | 13.536 | 13.306 | 14.036 |
| 14.986 | 13.589 | 18.986 | 20.886 | 16.386 | 18.686 | 16.589 | 25.386 | 16.489 | 13.556 | 13.326 | 14.056 |
| 14.986 | 13.589 | 18.986 | 20.886 | 16.386 | 18.686 | 16.589 | 25.386 | 16.489 | 13.556 | 13.326 | 14.056 |

| | | | | | | | | | | | | | | |
|---------|---------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 14.986 | 14.986 | 940 | 13.589 | 18.986 | 17.786 | 20.886 | 16.486 | 18.686 | 16.689 | 25.486 | 16.589 | 13.576 | 13.346 | 14.086 |
| 14.986 | 14.986 | 941 | 13.589 | 19.086 | 17.786 | 20.986 | 16.486 | 18.786 | 16.689 | 25.586 | 16.589 | 13.596 | 13.366 | 14.106 |
| 15.5956 | 15.5956 | 942 | 13.589 | 19.6956 | 18.3956 | 21.5956 | 17.0956 | 19.3956 | 16.789 | 26.1956 | 16.689 | 14.1956 | 13.9656 | 14.7056 |
| 15.5956 | 15.5956 | 943 | 13.589 | 19.7856 | 18.4956 | 21.6956 | 17.1956 | 19.4956 | 16.789 | 26.2956 | 16.689 | 14.2256 | 13.9956 | 14.7456 |
| 17.2974 | 17.2974 | 944 | 20.3974 | 20.3974 | 19.0974 | 22.2974 | 17.7974 | 20.0974 | 16.889 | 26.8974 | 16.689 | 14.8274 | 14.5974 | 15.3474 |
| 20.2946 | 20.2946 | 945 | 20.9946 | 20.9946 | 19.6946 | 22.8946 | 18.3946 | 20.5946 | 16.889 | 27.4946 | 16.789 | 15.4246 | 15.2146 | 15.9446 |
| 20.2946 | 20.2946 | 946 | 21.5946 | 21.5946 | 20.2946 | 23.4946 | 18.9946 | 21.2946 | 16.889 | 28.0946 | 16.9668 | 15.4246 | 15.8146 | 16.5446 |
| 20.3962 | 20.3962 | 947 | 22.1962 | 22.1962 | 20.9962 | 24.0962 | 19.5962 | 21.7962 | 17.002 | 28.6962 | 17.1002 | 16.4262 | 16.1162 | 17.0262 |
| 20.3962 | 20.3962 | 948 | 22.5962 | 22.5962 | 21.1962 | 24.5962 | 19.7962 | 21.9962 | 17.002 | 29.0962 | 17.4002 | 16.5562 | 16.2162 | 17.1962 |
| 20.3962 | 20.3962 | 949 | 22.7962 | 22.7962 | 21.2962 | 24.7962 | 19.8962 | 22.1962 | 17.002 | 29.3962 | 17.5002 | 16.6362 | 16.3162 | 17.3162 |
| 20.5994 | 20.5994 | 950 | 23.0994 | 23.0994 | 21.6994 | 25.0994 | 20.2994 | 22.5994 | 17.002 | 30.1994 | 17.002 | 16.8994 | 16.5184 | 17.5994 |
| 20.5994 | 20.5994 | 951 | 23.2994 | 23.2994 | 21.7994 | 25.3994 | 20.3994 | 22.8994 | 17.002 | 30.3994 | 17.8002 | 16.9494 | 16.6194 | 17.6994 |
| 20.9042 | 20.9042 | 952 | 23.7042 | 23.7042 | 22.2042 | 26.0042 | 20.8042 | 23.0042 | 17.002 | 30.8042 | 17.002 | 17.2942 | 16.9242 | 18.0342 |
| 20.9042 | 20.9042 | 953 | 23.8042 | 23.8042 | 22.3042 | 26.2042 | 20.9042 | 23.2042 | 17.002 | 31.0042 | 18.0002 | 17.3942 | 17.0242 | 18.0842 |
| 20.9042 | 20.9042 | 954 | 23.9042 | 23.9042 | 22.4042 | 26.4042 | 21.0042 | 23.4042 | 18.1002 | 31.1042 | 18.1002 | 17.3942 | 17.0242 | 18.1242 |
| 20.9042 | 20.9042 | 955 | 24.0042 | 24.0042 | 22.4042 | 26.4042 | 21.0042 | 23.4042 | 18.1002 | 31.1042 | 18.1002 | 17.3942 | 17.0242 | 18.1542 |
| 20.9042 | 20.9042 | 956 | 24.0042 | 24.0042 | 22.4042 | 26.4042 | 21.0042 | 23.4042 | 18.1002 | 31.1042 | 18.1002 | 17.3942 | 17.0242 | 18.1842 |
| 21.4122 | 21.4122 | 957 | 24.6122 | 24.6122 | 23.0122 | 27.0122 | 21.6122 | 23.7122 | 18.0002 | 32.0122 | 18.0002 | 17.9422 | 17.5322 | 18.7222 |
| 21.4122 | 21.4122 | 958 | 24.7122 | 24.7122 | 23.1122 | 27.1122 | 21.7122 | 23.8122 | 18.0002 | 32.1122 | 18.0002 | 17.9422 | 17.5322 | 18.7722 |
| 21.4122 | 21.4122 | 959 | 24.8122 | 24.8122 | 23.1122 | 27.1122 | 21.7122 | 23.8122 | 18.0002 | 32.1122 | 18.0002 | 17.9422 | 17.5322 | 18.7922 |
| 21.4122 | 21.4122 | 960 | 24.8122 | 24.8122 | 23.1122 | 27.1122 | 21.7122 | 23.8122 | 18.0002 | 32.1122 | 18.0002 | 17.9422 | 17.5322 | 18.8122 |
| 21.4122 | 21.4122 | 961 | 24.8122 | 24.8122 | 23.1122 | 27.1122 | 21.7122 | 23.8122 | 18.0002 | 32.1122 | 18.0002 | 17.9422 | 17.5322 | 18.8338 |
| 21.5138 | 21.5138 | 962 | 25.0138 | 25.0138 | 23.3138 | 27.4138 | 21.9138 | 24.1138 | 18.5002 | 32.6138 | 18.0002 | 18.1238 | 17.7538 | 18.9338 |
| 21.5138 | 21.5138 | 963 | 25.0138 | 25.0138 | 23.4138 | 27.5138 | 21.9138 | 24.2138 | 18.5002 | 32.7138 | 18.0002 | 18.1238 | 17.7538 | 18.9538 |
| 21.5138 | 21.5138 | 964 | 25.1138 | 25.1138 | 23.4138 | 27.5138 | 21.9138 | 24.2138 | 18.5002 | 32.8138 | 18.0002 | 18.1238 | 17.7538 | 18.9738 |
| 21.5138 | 21.5138 | 965 | 25.1138 | 25.1138 | 23.5138 | 27.6138 | 22.0138 | 24.3138 | 18.0002 | 32.8138 | 18.0002 | 18.1338 | 17.7738 | 18.9938 |
| 21.5138 | 21.5138 | 966 | 25.2138 | 25.2138 | 23.5138 | 27.6138 | 22.0138 | 24.3138 | 18.0002 | 32.9138 | 19.0002 | 18.1338 | 17.7938 | 18.9938 |
| 21.5138 | 21.5138 | 967 | 25.3138 | 25.3138 | 23.6138 | 27.7138 | 22.1138 | 24.4138 | 18.0002 | 33.0138 | 19.0002 | 18.1338 | 17.8138 | 19.0038 |
| 21.5138 | 21.5138 | 968 | 25.3138 | 25.3138 | 23.6138 | 27.7138 | 22.1138 | 24.4138 | 18.0002 | 33.1138 | 19.0002 | 18.1338 | 17.8338 | 19.0038 |
| 21.5138 | 21.5138 | 969 | 25.3138 | 25.3138 | 23.6138 | 27.7138 | 22.1138 | 24.4138 | 18.0002 | 33.1138 | 19.0002 | 18.1338 | 17.8338 | 19.0338 |
| 21.5138 | 21.5138 | 970 | 25.4138 | 25.4138 | 23.7138 | 27.8138 | 22.1138 | 24.5138 | 18.0002 | 33.2138 | 19.0002 | 18.1338 | 17.8538 | 19.0538 |
| 21.5138 | 21.5138 | 971 | 25.4138 | 25.4138 | 23.7138 | 27.8138 | 22.1138 | 24.5138 | 19.0002 | 33.3138 | 19.0002 | 18.2338 | 17.8538 | 19.0638 |
| 21.5138 | 21.5138 | 972 | 25.5138 | 25.5138 | 23.7138 | 27.9138 | 22.1138 | 24.6138 | 19.0002 | 33.4138 | 19.0002 | 18.2338 | 17.8638 | 19.0638 |
| 21.5138 | 21.5138 | 973 | 25.5138 | 25.5138 | 23.8138 | 28.0138 | 22.2138 | 24.6138 | 19.0002 | 33.5138 | 19.0002 | 18.2338 | 17.8838 | 19.0638 |
| 21.5138 | 21.5138 | 974 | 25.6154 | 25.6154 | 23.8154 | 28.1154 | 22.2154 | 24.7154 | 19.0002 | 33.5138 | 19.0002 | 18.2338 | 17.8838 | 19.0638 |
| 21.8186 | 21.8186 | 975 | 25.9186 | 25.9186 | 24.2186 | 28.4186 | 22.6186 | 25.1186 | 19.3002 | 34.0186 | 20.0002 | 18.3654 | 18.0054 | 19.2054 |
| 21.8186 | 21.8186 | 976 | 25.9186 | 25.9186 | 24.2186 | 28.4186 | 22.6186 | 25.1186 | 19.3002 | 34.1186 | 20.0002 | 18.3654 | 18.0054 | 19.2054 |
| 21.8186 | 21.8186 | 977 | 26.0186 | 26.0186 | 24.2186 | 28.5186 | 22.6186 | 25.2186 | 19.3002 | 34.2186 | 20.0002 | 18.3654 | 18.0054 | 19.2054 |
| 21.8186 | 21.8186 | 978 | 26.0186 | 26.0186 | 24.2186 | 28.5186 | 22.6186 | 25.2186 | 19.3002 | 34.2186 | 20.0002 | 18.3654 | 18.0054 | 19.2054 |
| 21.8186 | 21.8186 | 979 | 26.1186 | 26.1186 | 24.3186 | 28.6186 | 22.7186 | 25.3186 | 19.5002 | 34.3186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 979 | 26.1186 | 26.1186 | 24.3186 | 28.6186 | 22.7186 | 25.3186 | 19.5002 | 34.3186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 980 | 26.1186 | 26.1186 | 24.3186 | 28.6186 | 22.7186 | 25.3186 | 19.5002 | 34.3186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 980 | 26.1186 | 26.1186 | 24.3186 | 28.6186 | 22.7186 | 25.3186 | 19.5002 | 34.3186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 981 | 26.1186 | 26.1186 | 24.4186 | 28.7186 | 22.7186 | 25.4186 | 19.5002 | 34.4186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 982 | 26.2186 | 26.2186 | 24.5186 | 28.8186 | 22.8186 | 25.5186 | 19.7002 | 34.5186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 983 | 26.2186 | 26.2186 | 24.5186 | 28.8186 | 22.8186 | 25.5186 | 19.7002 | 34.5186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 984 | 26.3186 | 26.3186 | 24.5186 | 28.9186 | 22.8186 | 25.6186 | 19.9002 | 34.6186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 985 | 26.3186 | 26.3186 | 24.5186 | 28.9186 | 22.8186 | 25.6186 | 19.9002 | 34.6186 | 20.0002 | 18.5886 | 18.2286 | 19.4286 |
| 21.8186 | 21.8186 | 986 | 26.4186 | 26.4186 | 24.6186 | 29.0186 | 22.9186 | 25.7186 | 20.0002 | 34.8186 | 21.0002 | 18.6686 | 18.3186 | 19.5086 |
| 21.8186 | 21.8186 | 986 | 26.4186 | 26.4186 | 24.6186 | 29.0186 | 22.9186 | 25.7186 | 20.0002 | 34.8186 | 21.0002 | 18.6686 | 18.3186 | 19.5086 |
| 21.8186 | 21.8186 | 986 | 26.4186 | 26.4186 | 24.6186 | 29.0186 | 22.9186 | 25.7186 | 20.0002 | 34.8186 | 21.0002 | 18.6686 | 18.3186 | 19.5086 |

Cumulative Evaporation Bosque Reference Evaporation



Cumulative Evaporation Constant Reference Evaporation



| | | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.2052 | 3.5972 | 1.562 | 3.2352 | 0.982 | 3.1052 | 3.1052 | 3.0052 | 3.1052 | 3.1052 | 3.2052 | 1.252 | 3.1052 | 0.982 | 2.7052 | 2.6052 | 2.9952 |
| 3.6984 | 4.0274 | 1.662 | 3.7084 | 0.992 | 3.6084 | 3.6084 | 3.6084 | 3.6084 | 3.6084 | 3.6084 | 1.262 | 3.6084 | 0.982 | 3.0084 | 3.0084 | 3.4984 |
| 3.7284 | 4.0804 | 1.662 | 3.7794 | 0.992 | 3.6084 | 3.6084 | 3.6084 | 3.6084 | 3.6084 | 3.7084 | 1.272 | 3.6084 | 0.982 | 3.1084 | 3.0084 | 3.5084 |
| 3.7684 | 4.1204 | 2.1954 | 3.8244 | 1.5354 | 3.6084 | 3.6084 | 3.6084 | 3.6084 | 3.6084 | 3.7084 | 1.8154 | 3.7084 | 1.4154 | 3.1084 | 3.0084 | 3.5384 |
| 3.7984 | 4.1504 | 2.1954 | 3.8584 | 1.5354 | 3.7084 | 3.7084 | 3.6084 | 3.6084 | 3.6084 | 3.7084 | 1.8254 | 3.7084 | 1.4254 | 3.1084 | 3.0084 | 3.5584 |
| 3.93 | 4.282 | 2.1954 | 3.988 | 1.5454 | 3.81 | 3.81 | 3.71 | 3.71 | 3.81 | 3.81 | 1.8354 | 3.81 | 1.4254 | 3.21 | 3.11 | 3.68 |
| 3.95 | 4.312 | 2.2954 | 4.011 | 1.5454 | 3.81 | 3.91 | 3.71 | 3.71 | 3.81 | 3.91 | 1.8554 | 3.81 | 1.4254 | 3.21 | 3.11 | 3.69 |
| 4.0716 | 4.4436 | 2.2954 | 4.1336 | 1.5554 | 3.9116 | 4.0116 | 3.9116 | 3.9116 | 3.9116 | 4.0116 | 1.8654 | 4.0116 | 1.4254 | 3.3116 | 3.2116 | 3.8016 |
| 4.0916 | 4.4636 | 2.2954 | 4.1526 | 1.5554 | 3.9116 | 4.0116 | 3.9116 | 3.9116 | 3.9116 | 4.0116 | 1.8754 | 4.0116 | 1.4354 | 3.3116 | 3.2116 | 3.8116 |
| 4.1116 | 4.4936 | 2.2954 | 4.1706 | 1.5554 | 4.0116 | 4.0216 | 3.9116 | 3.9116 | 4.0116 | 4.0116 | 1.8854 | 4.0116 | 1.4354 | 3.3116 | 3.2116 | 3.8216 |
| 4.1216 | 4.5136 | 2.3208 | 4.1868 | 1.5908 | 4.0116 | 4.0416 | 3.9116 | 3.9116 | 4.0116 | 4.1116 | 1.9208 | 4.0116 | 1.4608 | 3.3116 | 3.2116 | 3.8316 |
| 4.1416 | 4.5436 | 2.4462 | 4.2016 | 1.6162 | 4.0516 | 4.0516 | 3.9116 | 3.9116 | 4.0116 | 4.1116 | 1.9562 | 4.0116 | 1.4862 | 3.3116 | 3.2116 | 3.8416 |
| 4.1516 | 4.5736 | 3.2496 | 4.2156 | 2.4596 | 4.0616 | 4.0616 | 3.9116 | 3.9116 | 4.0116 | 4.1116 | 2.7996 | 4.0116 | 2.3296 | 3.3116 | 3.2116 | 3.8416 |
| 4.1616 | 4.5936 | 4.11 | 4.2296 | 3.3 | 4.0716 | 4.0716 | 3.9116 | 3.9116 | 4.0116 | 4.1116 | 3.63 | 4.0116 | 3.17 | 3.3116 | 3.2116 | 3.8416 |
| 4.1816 | 4.6236 | 4.1354 | 4.2426 | 3.4754 | 4.0816 | 4.0816 | 3.9116 | 3.9116 | 4.0116 | 4.1116 | 3.7154 | 4.0116 | 3.3254 | 3.3116 | 3.2116 | 3.8516 |
| 4.1916 | 4.6436 | 4.5402 | 4.2546 | 3.8902 | 4.1016 | 4.1016 | 3.9116 | 3.9116 | 4.0116 | 4.1116 | 4.0502 | 4.1116 | 3.6902 | 3.3116 | 3.2116 | 3.8516 |
| 4.2016 | 4.6736 | 4.5402 | 4.2666 | 3.8902 | 4.1116 | 4.1116 | 3.9116 | 3.9116 | 4.0116 | 4.1116 | 4.0802 | 4.1116 | 3.7202 | 3.3116 | 3.2116 | 3.8516 |
| 4.2116 | 4.6936 | 4.5402 | 4.2786 | 3.9102 | 4.1116 | 4.1116 | 4.0116 | 4.0116 | 4.1116 | 4.2116 | 4.1002 | 4.1116 | 3.7502 | 3.3116 | 3.2116 | 3.8616 |
| 4.2216 | 4.7236 | 4.6402 | 4.2896 | 3.9302 | 4.1216 | 4.1216 | 4.0116 | 4.0116 | 4.1116 | 4.2116 | 4.1202 | 4.1116 | 3.7702 | 3.3116 | 3.2116 | 3.8616 |
| 4.2316 | 4.7436 | 4.6402 | 4.3006 | 3.9602 | 4.1316 | 4.1316 | 4.0116 | 4.0116 | 4.1116 | 4.2116 | 4.1402 | 4.1116 | 3.7902 | 3.3116 | 3.2116 | 3.8616 |
| 4.2416 | 4.7736 | 4.6402 | 4.3116 | 3.9802 | 4.1416 | 4.1416 | 4.0116 | 4.0116 | 4.1116 | 4.2116 | 4.1602 | 4.1116 | 3.8102 | 3.3116 | 3.2116 | 3.8716 |
| 4.2616 | 4.8036 | 4.6402 | 4.3216 | 4.0002 | 4.1516 | 4.1516 | 4.0116 | 4.0116 | 4.1116 | 4.2116 | 4.1702 | 4.1116 | 3.8302 | 3.3116 | 3.2116 | 3.8716 |
| 4.2716 | 4.8236 | 4.681 | 4.3316 | 4.061 | 4.1616 | 4.1616 | 4.0116 | 4.0116 | 4.1116 | 4.2116 | 4.241 | 4.1116 | 3.891 | 3.3116 | 3.2116 | 3.8716 |
| 4.2816 | 4.8536 | 4.791 | 4.3416 | 4.081 | 4.1716 | 4.1716 | 4.0116 | 4.0116 | 4.1116 | 4.2116 | 4.251 | 4.1116 | 3.911 | 3.3116 | 3.2116 | 3.8716 |
| 4.2916 | 4.8736 | 4.791 | 4.3516 | 4.091 | 4.1816 | 4.1816 | 4.0116 | 4.0116 | 4.1116 | 4.3116 | 4.271 | 4.1116 | 3.921 | 3.3116 | 3.2116 | 3.8716 |
| 4.3016 | 4.9036 | 4.8164 | 4.3606 | 4.1364 | 4.1816 | 4.1816 | 4.0116 | 4.0116 | 4.1116 | 4.3116 | 4.3064 | 4.1116 | 3.9564 | 3.3116 | 3.2116 | 3.8816 |
| 4.3016 | 4.9236 | 4.8164 | 4.3696 | 4.1464 | 4.1916 | 4.1916 | 4.0116 | 4.0116 | 4.1116 | 4.3116 | 4.3264 | 4.2116 | 3.9694 | 3.3116 | 3.2116 | 3.8816 |
| 4.3116 | 4.9536 | 4.8164 | 4.3796 | 4.1564 | 4.1916 | 4.1916 | 4.0116 | 4.0116 | 4.1116 | 4.3116 | 4.3364 | 4.2116 | 3.9764 | 3.3116 | 3.2116 | 3.8816 |
| 4.4232 | 5.0752 | 5.1958 | 4.4902 | 4.4558 | 4.2132 | 4.3032 | 4.1132 | 4.1132 | 4.1132 | 4.4132 | 4.6258 | 4.3132 | 4.2658 | 3.4132 | 3.3132 | 3.9832 |
| 4.738 | 5.41 | 5.272 | 4.803 | 4.542 | 4.518 | 4.618 | 4.418 | 4.418 | 4.518 | 4.718 | 4.712 | 4.618 | 4.352 | 3.718 | 3.618 | 4.288 |
| 5.343 | 6.008 | 5.7546 | 5.403 | 5.0346 | 5.123 | 5.223 | 5.023 | 5.023 | 5.123 | 5.323 | 5.2146 | 5.223 | 4.8446 | 4.323 | 4.223 | 4.913 |
| 5.8346 | 6.4486 | 6.3452 | 5.9146 | 5.6152 | 5.6246 | 5.7246 | 5.5246 | 5.5246 | 5.6246 | 5.7246 | 5.7952 | 5.7246 | 5.4322 | 4.7246 | 4.6246 | 5.4146 |
| 5.9346 | 6.5266 | 6.5452 | 6.0346 | 5.8152 | 5.6246 | 5.7246 | 5.6246 | 5.6246 | 5.7246 | 5.8246 | 5.9652 | 5.8246 | 5.6252 | 4.8246 | 4.6246 | 5.5146 |
| 5.9946 | 6.5736 | 7.4374 | 6.1046 | 6.7174 | 5.6246 | 5.7246 | 5.6246 | 5.6246 | 5.7246 | 5.8246 | 6.8674 | 5.8246 | 6.5194 | 4.8246 | 4.7246 | 5.5146 |
| 6.0446 | 6.6106 | 7.5882 | 6.1546 | 6.9282 | 5.6246 | 5.7246 | 5.7246 | 5.7246 | 5.8246 | 5.9246 | 7.0482 | 5.9246 | 6.7282 | 4.8246 | 4.7246 | 5.5146 |
| 6.0746 | 6.6426 | 7.993 | 6.1946 | 7.283 | 5.8246 | 6.0246 | 5.7246 | 5.7246 | 5.8246 | 5.9246 | 7.393 | 5.9246 | 7.073 | 4.9246 | 4.7246 | 5.6146 |
| 6.1046 | 6.6716 | 8.0946 | 6.2246 | 7.4146 | 5.8246 | 6.0246 | 5.7246 | 5.7246 | 5.8246 | 5.9246 | 7.5246 | 6.0246 | 7.2046 | 4.9246 | 4.7246 | 5.6146 |
| 6.1246 | 6.6966 | 8.12 | 6.2546 | 7.47 | 5.9246 | 6.0246 | 5.8246 | 5.8246 | 5.9246 | 6.0246 | 7.57 | 6.0246 | 7.26 | 4.9246 | 4.7246 | 5.6146 |
| 6.1446 | 6.7266 | 8.22 | 6.2746 | 7.49 | 5.9246 | 6.1246 | 5.8246 | 5.8246 | 5.9246 | 6.0246 | 7.59 | 6.0246 | 7.28 | 4.9246 | 4.7246 | 5.6146 |
| 6.1646 | 6.7566 | 8.2454 | 6.3046 | 7.5954 | 5.9246 | 6.1246 | 5.8246 | 5.8246 | 5.9246 | 6.0246 | 7.6354 | 6.0246 | 7.3154 | 4.9246 | 4.7246 | 5.6146 |
| 6.1846 | 6.7766 | 8.2454 | 6.3246 | 7.6454 | 5.9246 | 6.1246 | 5.8246 | 5.8246 | 5.9246 | 6.0246 | 7.6554 | 6.0246 | 7.3354 | 4.9246 | 4.7246 | 5.6146 |
| 6.1946 | 6.8066 | 8.2454 | 6.3346 | 7.6654 | 5.9246 | 6.1246 | 5.8246 | 5.8246 | 5.9246 | 6.0246 | 7.6754 | 6.0246 | 7.3454 | 4.9246 | 4.7246 | 5.7146 |
| 6.2146 | 6.8366 | 8.2454 | 6.3556 | 7.5754 | 6.0246 | 6.1246 | 5.8246 | 5.8246 | 5.9246 | 6.0246 | 7.6854 | 6.1246 | 7.3554 | 4.9246 | 4.7246 | 5.7146 |
| 6.2246 | 6.8566 | 8.3454 | 6.3716 | 7.5954 | 6.0246 | 6.2246 | 5.9246 | 5.9246 | 6.0246 | 6.0246 | 7.7054 | 6.1246 | 7.3654 | 4.9246 | 4.7246 | 5.7146 |
| 6.2446 | 6.8666 | 8.3454 | 6.3836 | 8.1996 | 6.0246 | 6.2246 | 5.9246 | 5.9246 | 6.0246 | 6.0246 | 8.2996 | 6.1246 | 7.3696 | 4.9246 | 4.7246 | 5.7146 |
| 6.2546 | 6.9066 | 9.082 | 6.4016 | 8.352 | 6.0246 | 6.2246 | 5.9246 | 5.9246 | 6.0246 | 6.0246 | 8.462 | 6.1246 | 8.132 | 4.9246 | 4.7246 | 5.7146 |
| 6.2646 | 6.9366 | 9.082 | 6.4146 | 8.362 | 6.0246 | 6.2246 | 5.9246 | 5.9246 | 6.0246 | 6.0246 | 8.482 | 6.1246 | 8.142 | 4.9246 | 4.7246 | 5.7146 |
| 6.2746 | 6.9566 | 9.082 | 6.4276 | 8.382 | 6.0246 | 6.2246 | 5.9246 | 5.9246 | 6.0246 | 6.1246 | 8.492 | 6.1246 | 8.142 | 4.9246 | 4.7246 | 5.7146 |

| | | | | | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13.536 | 14.146 | 14.089 | 13.966 | 13.229 | 13.386 | 12.986 | 13.886 | 13.286 | 12.886 | 13.089 | 13.686 | 12.917 | 11.066 | 10.686 | 12.876 |
| 13.556 | 14.172 | 14.189 | 13.986 | 13.239 | 13.386 | 12.986 | 13.886 | 13.286 | 12.886 | 13.089 | 13.686 | 12.925 | 11.066 | 10.686 | 12.876 |
| 14.1556 | 14.7726 | 14.189 | 14.5856 | 13.249 | 13.9856 | 13.5856 | 14.4956 | 13.8956 | 13.4956 | 13.119 | 14.2956 | 12.932 | 11.6956 | 11.2956 | 13.4856 |
| 14.1856 | 14.8226 | 14.189 | 14.6256 | 13.259 | 13.9956 | 13.5956 | 14.4956 | 13.8956 | 13.4956 | 13.129 | 14.2956 | 12.94 | 11.6956 | 11.2956 | 13.4856 |
| 14.7874 | 15.4194 | 14.189 | 15.2274 | 13.269 | 14.5974 | 14.2974 | 15.1974 | 14.5974 | 14.0974 | 13.139 | 14.8974 | 12.974 | 12.2974 | 11.8974 | 14.0874 |
| 15.4046 | 16.0266 | 14.289 | 15.8246 | 13.279 | 15.1946 | 14.8946 | 15.7946 | 15.1946 | 14.6946 | 13.149 | 15.4946 | 12.954 | 12.8946 | 12.4946 | 14.6846 |
| 16.0046 | 16.6166 | 14.4888 | 16.4246 | 13.4568 | 15.7946 | 15.4946 | 16.3946 | 15.7946 | 15.1946 | 13.3468 | 16.0946 | 13.1888 | 13.0946 | 13.0946 | 15.2846 |
| 16.4062 | 16.9282 | 14.6002 | 16.8762 | 13.5702 | 16.1962 | 15.7962 | 16.962 | 16.1962 | 15.4962 | 13.4602 | 16.5962 | 13.2512 | 13.7962 | 13.2962 | 15.7862 |
| 16.5062 | 17.0182 | 14.8002 | 17.0362 | 13.7602 | 16.2962 | 15.8962 | 17.062 | 16.2962 | 15.4962 | 13.6402 | 16.6962 | 13.4342 | 13.8962 | 13.3962 | 15.8862 |
| 16.5062 | 17.0782 | 14.8002 | 17.1462 | 13.8102 | 16.3962 | 15.9962 | 17.0862 | 16.3962 | 15.4962 | 13.6902 | 16.7962 | 13.4812 | 13.9962 | 13.3962 | 15.8862 |
| 16.8094 | 17.3314 | 14.9002 | 17.4194 | 13.8402 | 16.5894 | 16.1994 | 17.3994 | 16.5894 | 15.7994 | 13.7202 | 17.0994 | 13.5122 | 14.1994 | 13.5994 | 16.2894 |
| 16.8094 | 17.3714 | 14.9002 | 17.4794 | 13.8702 | 16.6894 | 16.2994 | 17.4994 | 16.6894 | 15.7994 | 13.7402 | 17.0994 | 13.5352 | 14.1994 | 13.6994 | 16.3894 |
| 17.2142 | 17.7062 | 14.9002 | 17.8342 | 13.8902 | 16.8042 | 16.4042 | 17.8042 | 16.8042 | 16.1042 | 13.7702 | 17.5042 | 13.5542 | 14.5042 | 14.0042 | 16.8942 |
| 17.2142 | 17.7462 | 15.0002 | 17.8742 | 13.9102 | 16.9042 | 16.5042 | 17.9042 | 16.9042 | 16.2042 | 13.7902 | 17.5042 | 13.5702 | 14.5042 | 14.0042 | 16.8942 |
| 17.2142 | 17.7862 | 15.0002 | 17.9042 | 13.9202 | 16.9042 | 16.5042 | 17.9042 | 16.9042 | 16.2042 | 13.8102 | 17.5042 | 13.5842 | 14.5042 | 14.0042 | 16.8942 |
| 17.2142 | 17.8062 | 15.0002 | 17.9342 | 13.9402 | 16.9042 | 16.5042 | 18.0042 | 16.9042 | 16.2042 | 13.8202 | 17.5042 | 13.5972 | 14.5042 | 14.0042 | 16.8942 |
| 17.3142 | 17.8962 | 15.1002 | 17.9642 | 13.9502 | 16.9042 | 16.5042 | 18.0042 | 16.9042 | 16.2042 | 13.8402 | 17.5042 | 13.6092 | 14.5042 | 14.0042 | 16.8942 |
| 17.8222 | 18.3742 | 15.1002 | 18.5022 | 13.9602 | 17.1122 | 17.2122 | 18.5122 | 17.5122 | 16.7122 | 13.8602 | 18.1122 | 13.6212 | 15.1122 | 14.5122 | 17.4022 |
| 17.8222 | 18.4042 | 15.1002 | 18.5222 | 13.9702 | 17.1122 | 17.2122 | 18.6122 | 17.5122 | 16.8122 | 13.8702 | 18.1122 | 13.6312 | 15.1122 | 14.5122 | 17.4022 |
| 17.8222 | 18.4242 | 15.1002 | 18.5422 | 13.9802 | 17.1122 | 17.2122 | 18.6122 | 17.5122 | 16.8122 | 13.8902 | 18.2122 | 13.6412 | 15.1122 | 14.5122 | 17.4022 |
| 17.8222 | 18.4542 | 15.2002 | 18.5622 | 14.0002 | 17.1122 | 17.2122 | 18.6122 | 17.5122 | 16.8122 | 13.9002 | 18.2122 | 13.6512 | 15.1122 | 14.5122 | 17.4022 |
| 17.8222 | 18.4842 | 15.2002 | 18.5822 | 14.0102 | 17.1122 | 17.2122 | 18.6122 | 17.5122 | 16.8122 | 13.9202 | 18.2122 | 13.6592 | 15.1122 | 14.5122 | 17.4022 |
| 18.0238 | 18.6056 | 15.2002 | 18.6938 | 14.0202 | 17.3138 | 17.3138 | 18.7138 | 17.3138 | 16.9138 | 13.9302 | 18.3138 | 13.6682 | 15.2138 | 14.6138 | 17.6038 |
| 18.0238 | 18.6356 | 15.2002 | 18.7138 | 14.0302 | 17.3138 | 17.3138 | 18.7138 | 17.3138 | 16.9138 | 13.9402 | 18.3138 | 13.6762 | 15.2138 | 14.6138 | 17.6038 |
| 18.0238 | 18.6656 | 15.3002 | 18.7238 | 14.0402 | 17.4138 | 17.4138 | 18.8138 | 17.4138 | 17.0138 | 13.9602 | 18.4138 | 13.6842 | 15.2138 | 14.6138 | 17.6038 |
| 18.0238 | 18.6956 | 15.3002 | 18.7438 | 14.0502 | 17.4138 | 17.4138 | 18.8138 | 17.4138 | 17.0138 | 13.9702 | 18.4138 | 13.6922 | 15.2138 | 14.6138 | 17.6038 |
| 18.0238 | 18.7358 | 15.3002 | 18.7738 | 14.0602 | 17.5138 | 17.5138 | 18.8138 | 17.5138 | 17.0138 | 13.9802 | 18.4138 | 13.6982 | 15.2138 | 14.6138 | 17.6038 |
| 18.0238 | 18.7658 | 15.4002 | 18.7938 | 14.0702 | 17.6138 | 17.6138 | 18.8138 | 17.6138 | 17.0138 | 14.0002 | 18.4138 | 13.7072 | 15.2138 | 14.6138 | 17.6038 |
| 18.0238 | 18.7958 | 15.4002 | 18.8138 | 14.0802 | 17.6138 | 17.6138 | 18.8138 | 17.6138 | 17.0138 | 14.0102 | 18.4138 | 13.7142 | 15.2138 | 14.6138 | 17.6038 |
| 18.1238 | 18.8156 | 15.4002 | 18.8338 | 14.0902 | 17.7138 | 17.7138 | 18.8138 | 17.7138 | 17.0138 | 14.0202 | 18.4138 | 13.7212 | 15.2138 | 14.6138 | 17.7038 |
| 18.1238 | 18.8456 | 15.4002 | 18.8538 | 14.1002 | 17.8138 | 17.8138 | 18.9138 | 17.8138 | 17.0138 | 14.0302 | 18.4138 | 13.7272 | 15.2138 | 14.6138 | 17.7038 |
| 18.1238 | 18.8656 | 15.5002 | 18.8738 | 14.1102 | 17.8138 | 17.8138 | 18.9138 | 17.8138 | 17.0138 | 14.0402 | 18.4138 | 13.7302 | 15.2138 | 14.6138 | 17.7038 |
| 18.1238 | 18.8956 | 15.5002 | 18.8938 | 14.1202 | 17.9138 | 17.9138 | 18.9138 | 17.9138 | 17.1138 | 14.0502 | 18.4138 | 13.7402 | 15.2138 | 14.6138 | 17.7038 |
| 18.2254 | 19.0174 | 15.5002 | 18.9554 | 14.1202 | 18.1154 | 17.6154 | 19.0154 | 17.6154 | 17.1154 | 14.0602 | 18.4138 | 13.7502 | 15.2138 | 14.6138 | 17.7038 |
| 18.4286 | 19.2506 | 15.6002 | 19.1686 | 14.1302 | 18.3186 | 17.8186 | 19.2186 | 18.1186 | 17.4186 | 14.1002 | 18.6154 | 13.7502 | 15.3154 | 14.7154 | 18.0086 |
| 18.4286 | 19.2806 | 15.6002 | 19.1786 | 14.1402 | 18.3186 | 17.8186 | 19.2186 | 18.1186 | 17.4186 | 14.1102 | 18.6186 | 13.7602 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.3006 | 15.6002 | 19.1886 | 14.1502 | 18.3186 | 17.8186 | 19.2186 | 18.1186 | 17.4186 | 14.1302 | 18.6186 | 13.7702 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.3206 | 15.6002 | 19.1986 | 14.1602 | 18.3186 | 17.8186 | 19.2186 | 18.1186 | 17.4186 | 14.1402 | 18.6186 | 13.7802 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.3506 | 15.7002 | 19.2086 | 14.1702 | 18.3186 | 17.8186 | 19.2186 | 18.1186 | 17.4186 | 14.1502 | 18.6186 | 13.7902 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.3806 | 15.7002 | 19.2186 | 14.1802 | 18.3186 | 17.8186 | 19.2186 | 18.1186 | 17.4186 | 14.1702 | 18.6186 | 13.8002 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.4006 | 15.7002 | 19.2286 | 14.1902 | 18.3186 | 17.8186 | 19.2186 | 18.1186 | 17.4186 | 14.1802 | 18.6186 | 13.8002 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.4306 | 15.7002 | 19.2386 | 14.2002 | 18.4186 | 17.8186 | 19.3186 | 18.2186 | 17.5186 | 14.1902 | 18.6186 | 13.8002 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.4506 | 15.8002 | 19.2486 | 14.2002 | 18.4186 | 17.8186 | 19.3186 | 18.2186 | 17.5186 | 14.2202 | 18.6186 | 13.8102 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.4806 | 15.8002 | 19.2586 | 14.2002 | 18.4186 | 17.8186 | 19.3186 | 18.2186 | 17.5186 | 14.2302 | 18.6186 | 13.8102 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.5006 | 15.9002 | 19.2686 | 14.2102 | 18.4186 | 17.8186 | 19.3186 | 18.2186 | 17.5186 | 14.2402 | 18.6186 | 13.8202 | 15.3186 | 14.7186 | 18.0086 |
| 18.4286 | 19.5306 | 15.9002 | 19.2686 | 14.2202 | 18.4186 | 17.8186 | 19.3186 | 18.2186 | 17.5186 | 14.2402 | 18.6186 | 13.8202 | 15.3186 | 14.7186 | 18.0086 |

| | | | | | | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 4.9246 | 4.9246 | 5.2246 | 8.0692 | 4.8246 | 7.8092 | 4.7246 | 7.7292 | 5.4246 | 8.1792 | 4.9246 | 4.5246 | 7.6292 | 5.2246 | 8.0692 | 4.8246 | 5.4246 |
| 4.9246 | 4.9246 | 5.2246 | 8.0692 | 4.8246 | 7.8092 | 4.7246 | 7.7292 | 5.4246 | 8.1792 | 4.9246 | 4.5246 | 7.6292 | 5.2246 | 8.0692 | 4.8246 | 5.4246 |
| 4.9246 | 4.9246 | 5.2246 | 8.12 | 4.8246 | 7.86 | 4.7246 | 7.78 | 5.4246 | 8.23 | 4.9246 | 4.5246 | 7.68 | 5.2246 | 8.12 | 4.8246 | 5.4246 |
| 5.3358 | 5.3358 | 5.8358 | 8.3486 | 5.4358 | 8.0886 | 5.3358 | 8.0186 | 6.0358 | 8.4686 | 5.3358 | 5.1358 | 7.9086 | 5.8358 | 8.3486 | 5.4358 | 6.0358 |
| 5.6374 | 5.6374 | 6.0374 | 8.3994 | 5.5374 | 8.1394 | 5.4374 | 8.0694 | 6.1374 | 8.5194 | 5.6374 | 5.374 | 7.9594 | 5.9374 | 8.3994 | 5.4374 | 6.2374 |
| 5.6374 | 5.6374 | 6.0374 | 8.3994 | 5.5374 | 8.1394 | 5.4374 | 8.0694 | 6.1374 | 8.5194 | 5.6374 | 5.2374 | 7.9594 | 5.9374 | 8.3994 | 5.4374 | 6.2374 |
| 5.739 | 5.439 | 6.139 | 8.3994 | 5.639 | 8.1394 | 5.539 | 8.0694 | 6.339 | 8.5194 | 5.739 | 5.339 | 7.9594 | 6.039 | 8.3994 | 5.539 | 6.339 |
| 5.739 | 5.439 | 6.139 | 8.3994 | 5.639 | 8.1394 | 5.539 | 8.0694 | 6.339 | 8.5194 | 5.739 | 5.339 | 7.9594 | 6.039 | 8.3994 | 5.539 | 6.339 |
| 6.3408 | 5.9408 | 6.7408 | 8.3994 | 6.2408 | 8.1394 | 6.1408 | 8.0694 | 6.9408 | 8.5194 | 6.3408 | 5.9408 | 7.9594 | 6.6408 | 8.3994 | 6.2408 | 6.9408 |
| 6.5408 | 6.2408 | 7.0408 | 8.873 | 6.5408 | 8.613 | 6.4408 | 8.543 | 7.2408 | 9.003 | 6.408 | 6.2408 | 8.433 | 7.0408 | 8.873 | 6.408 | 7.3408 |
| 6.7408 | 6.2408 | 7.1408 | 9.343 | 6.5408 | 9.063 | 6.5408 | 9.023 | 7.4408 | 9.493 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.343 | 6.408 | 7.4408 |
| 6.7408 | 6.2408 | 7.1408 | 9.483 | 6.5408 | 9.163 | 6.5408 | 9.033 | 7.4408 | 9.653 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.483 | 6.408 | 7.4408 |
| 6.7408 | 6.2408 | 7.2408 | 9.523 | 6.5408 | 9.173 | 6.5408 | 9.043 | 7.4408 | 9.693 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.513 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 9.543 | 6.5408 | 9.183 | 6.5408 | 9.043 | 7.4408 | 9.723 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.543 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 9.563 | 6.5408 | 9.183 | 6.5408 | 9.043 | 7.4408 | 9.743 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.553 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 9.573 | 6.5408 | 9.183 | 6.5408 | 9.043 | 7.4408 | 9.763 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.573 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 9.583 | 6.5408 | 9.183 | 6.5408 | 9.043 | 7.4408 | 9.783 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.583 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 9.593 | 6.5408 | 9.193 | 6.5408 | 9.043 | 7.4408 | 9.793 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.593 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 9.593 | 6.5408 | 9.193 | 6.5408 | 9.043 | 7.4408 | 9.793 | 6.7408 | 6.2408 | 8.903 | 7.1408 | 9.593 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 10.0672 | 6.5408 | 9.6972 | 6.5408 | 9.5272 | 7.5408 | 10.2672 | 6.7408 | 6.2408 | 9.3072 | 7.2408 | 10.0672 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 10.1626 | 6.5408 | 9.7326 | 6.5408 | 9.5926 | 7.5408 | 10.3626 | 6.7408 | 6.2408 | 9.3626 | 7.2408 | 10.1626 | 6.408 | 7.5408 |
| 6.7408 | 6.2408 | 7.2408 | 10.3366 | 6.5408 | 9.9966 | 6.5408 | 9.8466 | 7.5408 | 10.6566 | 6.7408 | 6.2408 | 9.6166 | 7.2408 | 10.3366 | 6.408 | 7.5408 |
| 7.4362 | 6.8362 | 7.8362 | 10.5736 | 7.2362 | 10.1236 | 7.1362 | 9.9736 | 8.1362 | 10.7936 | 7.4362 | 6.8362 | 9.7362 | 7.2408 | 10.3366 | 6.408 | 7.5408 |
| 8.2474 | 7.6474 | 8.6474 | 11.4612 | 8.0474 | 11.0212 | 7.9474 | 10.8712 | 9.0474 | 11.6912 | 8.2474 | 7.6474 | 10.6412 | 8.1474 | 11.4612 | 7.8474 | 9.0474 |
| 8.8602 | 8.2602 | 9.3602 | 11.6096 | 8.6602 | 11.1266 | 8.5602 | 10.9666 | 9.6602 | 11.8466 | 8.8602 | 8.2602 | 10.7366 | 9.2602 | 11.6096 | 8.6602 | 9.6602 |
| 8.9602 | 8.3602 | 9.5602 | 11.6266 | 8.6602 | 11.1266 | 8.5602 | 10.9766 | 9.6602 | 11.8666 | 8.9602 | 8.3602 | 10.7366 | 9.2602 | 11.6266 | 8.6602 | 9.6602 |
| 9.0618 | 8.4618 | 9.6618 | 11.6466 | 8.6618 | 11.1366 | 8.5618 | 10.9766 | 9.6618 | 11.8666 | 9.1618 | 8.4618 | 10.7366 | 9.2602 | 11.6466 | 8.6618 | 9.6602 |
| 9.1618 | 8.4618 | 9.7618 | 11.6566 | 8.6618 | 11.1366 | 8.5618 | 10.9766 | 9.6618 | 11.8666 | 9.1618 | 8.4618 | 10.7366 | 9.2602 | 11.6566 | 8.6618 | 9.6602 |
| 9.1618 | 8.4618 | 9.7618 | 11.7836 | 8.6618 | 11.2636 | 8.5618 | 11.1036 | 10.0618 | 12.0436 | 9.1618 | 8.4618 | 10.8636 | 9.6618 | 11.7836 | 8.6618 | 10.1618 |
| 9.1618 | 8.4618 | 9.7618 | 11.819 | 8.6618 | 11.289 | 8.5618 | 11.129 | 10.0618 | 12.079 | 9.1618 | 8.4618 | 10.889 | 9.6618 | 11.819 | 8.6618 | 10.1618 |
| 9.1618 | 8.4618 | 9.7618 | 11.819 | 8.6618 | 11.289 | 8.5618 | 11.129 | 10.0618 | 12.079 | 9.1618 | 8.4618 | 10.889 | 9.6618 | 11.819 | 8.6618 | 10.1618 |
| 9.1618 | 8.4618 | 9.7618 | 11.829 | 8.6618 | 11.289 | 8.5618 | 11.129 | 10.0618 | 12.089 | 9.1618 | 8.4618 | 10.899 | 9.6618 | 11.829 | 8.6618 | 10.1618 |
| 9.1618 | 8.4618 | 9.7618 | 11.829 | 8.6618 | 11.289 | 8.5618 | 11.129 | 10.0618 | 12.089 | 9.1618 | 8.4618 | 10.899 | 9.6618 | 11.829 | 8.6618 | 10.1618 |
| 9.365 | 8.665 | 9.965 | 11.829 | 9.165 | 11.289 | 8.965 | 11.129 | 10.365 | 12.099 | 9.365 | 8.665 | 10.899 | 9.965 | 11.829 | 9.165 | 10.365 |
| 9.732 | 9.2732 | 10.5732 | 11.829 | 9.7732 | 11.289 | 9.5732 | 11.129 | 10.9732 | 12.099 | 9.732 | 9.2732 | 10.699 | 10.5732 | 11.829 | 9.7732 | 10.9732 |
| 10.5812 | 9.8812 | 11.1812 | 11.839 | 10.3812 | 11.289 | 10.1812 | 11.129 | 11.5812 | 12.109 | 10.5812 | 9.8812 | 10.859 | 11.1812 | 11.829 | 10.3812 | 11.5812 |
| 10.8628 | 10.0628 | 11.5628 | 11.839 | 10.6828 | 11.289 | 10.4828 | 11.129 | 11.9828 | 12.109 | 10.8628 | 10.0628 | 10.899 | 11.4828 | 11.839 | 10.6828 | 11.9828 |
| 10.8628 | 10.0628 | 11.5628 | 11.839 | 10.6828 | 11.289 | 10.4828 | 11.129 | 12.0828 | 12.119 | 10.8628 | 10.0628 | 10.899 | 11.5628 | 11.839 | 10.6828 | 12.0828 |
| 10.9828 | 10.0828 | 11.6828 | 11.839 | 10.7828 | 11.289 | 10.4828 | 11.129 | 12.1828 | 12.119 | 10.9828 | 10.0828 | 10.899 | 11.6828 | 11.839 | 10.7828 | 12.1828 |
| 10.9828 | 10.0828 | 11.6828 | 11.839 | 10.7828 | 11.289 | 10.4828 | 11.129 | 12.1828 | 12.119 | 10.9828 | 10.0828 | 10.899 | 11.6828 | 11.839 | 10.7828 | 12.1828 |
| 10.9828 | 10.0828 | 11.6828 | 11.839 | 10.7828 | 11.289 | 10.4828 | 11.129 | 12.1828 | 12.119 | 10.9828 | 10.0828 | 10.899 | 11.6828 | 11.839 | 10.7828 | 12.1828 |
| 10.9828 | 10.0828 | 11.6828 | 11.839 | 10.7828 | 11.289 | 10.4828 | 11.129 | 12.1828 | 12.119 | 10.9828 | 10.0828 | 10.899 | 11.6828 | 11.839 | 10.7828 | 12.1828 |
| 10.9828 | 10.0828 | 11.6828 | 11.839 | 10.7828 | 11.289 | 10.4828 | 11.129 | 12.1828 | 12.119 | 10.9828 | 10.0828 | 10.899 | 11.6828 | 11.839 | 10.7828 | 12.1828 |
| 11.186 | 10.286 | 11.986 | 11.839 | 10.986 | 11.289 | 10.686 | 11.129 | 12.486 | 12.129 | 11.186 | 10.286 | 10.899 | 11.986 | 11.839 | 10.986 | 12.486 |
| 11.186 | 10.286 | 11.986 | 11.839 | 10.986 | 11.289 | 10.686 | 11.129 | 12.486 | 12.129 | 11.186 | 10.286 | 10.899 | 11.986 | 11.839 | 10.986 | 12.486 |

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2.6052 | 2.5052 | 0.762 | 2.7052 | 0.772 | 2.6052 | 2.5052 | 0.762 | 2.7052 | 0.772 |
| 3.0084 | 2.8084 | 0.762 | 3.1084 | 0.772 | 3.0084 | 2.8084 | 0.762 | 3.1084 | 0.772 |
| 3.0084 | 2.8084 | 0.762 | 3.1084 | 0.772 | 3.0084 | 2.8084 | 0.762 | 3.1084 | 0.772 |
| 3.0084 | 2.8084 | 1.2954 | 3.1084 | 1.3054 | 3.0084 | 2.8084 | 1.2954 | 3.1084 | 1.3054 |
| 3.0084 | 2.8084 | 1.2954 | 3.1084 | 1.3054 | 3.0084 | 2.8084 | 1.2954 | 3.1084 | 1.3054 |
| 3.11 | 2.91 | 1.2954 | 3.11 | 1.2954 | 3.11 | 2.91 | 1.2954 | 3.11 | 1.2954 |
| 3.11 | 2.91 | 1.2954 | 3.11 | 1.2954 | 3.11 | 2.91 | 1.2954 | 3.11 | 1.2954 |
| 3.2116 | 3.0116 | 1.2954 | 3.2116 | 1.2954 | 3.2116 | 3.0116 | 1.2954 | 3.2116 | 1.2954 |
| 3.2116 | 3.0116 | 1.2954 | 3.2116 | 1.2954 | 3.2116 | 3.0116 | 1.2954 | 3.2116 | 1.2954 |
| 3.2116 | 3.0116 | 1.2954 | 3.2116 | 1.2954 | 3.2116 | 3.0116 | 1.2954 | 3.2116 | 1.2954 |
| 3.2116 | 3.0116 | 1.3208 | 3.2116 | 1.3208 | 3.2116 | 3.0116 | 1.3208 | 3.2116 | 1.3208 |
| 3.2116 | 3.0116 | 1.3462 | 3.2116 | 1.3462 | 3.2116 | 3.0116 | 1.3462 | 3.2116 | 1.3462 |
| 3.2116 | 3.0116 | 2.1896 | 3.2116 | 2.1896 | 3.2116 | 3.0116 | 2.1896 | 3.2116 | 2.2096 |
| 3.2116 | 3.0116 | 2.97 | 3.2116 | 2.97 | 3.2116 | 3.0116 | 2.97 | 3.2116 | 3.05 |
| 3.2116 | 3.0116 | 2.9954 | 3.2116 | 2.9954 | 3.2116 | 3.0116 | 2.9954 | 3.2116 | 3.1354 |
| 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.002 | 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.4702 |
| 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.002 | 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.4902 |
| 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.002 | 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.5002 |
| 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.002 | 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.5002 |
| 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.002 | 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.5102 |
| 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.002 | 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.5102 |
| 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.002 | 3.2116 | 3.0116 | 3.002 | 3.2116 | 3.5202 |
| 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.351 | 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.571 |
| 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.351 | 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.571 |
| 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.351 | 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.571 |
| 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.351 | 3.2116 | 3.0116 | 3.351 | 3.2116 | 3.571 |
| 3.2116 | 3.0116 | 3.3764 | 3.2116 | 3.3764 | 3.2116 | 3.0116 | 3.3764 | 3.2116 | 3.5964 |
| 3.2116 | 3.0116 | 3.3764 | 3.2116 | 3.3764 | 3.2116 | 3.0116 | 3.3764 | 3.2116 | 3.5964 |
| 3.2116 | 3.0116 | 3.3764 | 3.2116 | 3.3764 | 3.2116 | 3.0116 | 3.3764 | 3.2116 | 3.5964 |
| 3.3132 | 3.1132 | 3.6558 | 3.3132 | 3.6558 | 3.3132 | 3.1132 | 3.6558 | 3.3132 | 3.8758 |
| 3.618 | 3.418 | 3.732 | 3.618 | 3.732 | 3.618 | 3.418 | 3.732 | 3.618 | 3.952 |
| 4.223 | 4.023 | 4.2146 | 4.223 | 4.2146 | 4.223 | 4.023 | 4.2146 | 4.223 | 4.4346 |
| 4.6246 | 4.3246 | 4.8052 | 4.6246 | 4.8052 | 4.6246 | 4.3246 | 4.8052 | 4.6246 | 5.0252 |
| 4.7246 | 4.3246 | 4.8952 | 4.7246 | 4.8952 | 4.7246 | 4.3246 | 4.8952 | 4.7246 | 5.1652 |
| 4.7246 | 4.3246 | 5.7874 | 4.7246 | 5.7874 | 4.7246 | 4.3246 | 5.7874 | 4.7246 | 6.0674 |
| 4.7246 | 4.3246 | 5.8782 | 4.7246 | 5.8782 | 4.7246 | 4.3246 | 5.8782 | 4.7246 | 6.2282 |
| 4.7246 | 4.3246 | 6.183 | 4.7246 | 6.183 | 4.7246 | 4.3246 | 6.183 | 4.7246 | 6.553 |
| 4.7246 | 4.3246 | 6.2846 | 4.7246 | 6.2846 | 4.7246 | 4.3246 | 6.2846 | 4.7246 | 6.6646 |
| 4.7246 | 4.3246 | 6.31 | 4.7246 | 6.31 | 4.7246 | 4.3246 | 6.31 | 4.7246 | 6.7 |
| 4.7246 | 4.3246 | 6.31 | 4.7246 | 6.31 | 4.7246 | 4.3246 | 6.31 | 4.7246 | 6.7 |
| 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.3354 | 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.7354 |
| 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.3354 | 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.7354 |
| 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.3354 | 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.7354 |
| 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.3354 | 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.7354 |
| 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.3354 | 4.7246 | 4.3246 | 6.3354 | 4.7246 | 6.7354 |
| 4.7246 | 4.3246 | 6.9196 | 4.7246 | 6.9196 | 4.7246 | 4.3246 | 6.9196 | 4.7246 | 7.3196 |
| 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.072 | 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.472 |
| 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.072 | 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.472 |
| 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.072 | 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.472 |
| 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.072 | 4.7246 | 4.3246 | 7.072 | 4.7246 | 7.472 |

| | | | | | | | | | | | | | | | | |
|-----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 939 | 71 | 63 | 78 | 65 | 48 | 49 | 61 | 76 | 40 | 34 | 42 | 32 | 23 | 22 | 48 | 52 |
| 940 | 72 | 64 | 79 | 65 | 48 | 49 | 61 | 76 | 40 | 34 | 42 | 32 | 23 | 22 | 48 | 52 |
| 941 | 72 | 64 | 79 | 65 | 48 | 49 | 62 | 77 | 40 | 34 | 43 | 33 | 23 | 22 | 49 | 53 |
| 942 | 73 | 65 | 80 | 66 | 49 | 50 | 62 | 77 | 41 | 35 | 43 | 33 | 23 | 22 | 49 | 53 |
| 943 | 73 | 65 | 81 | 66 | 49 | 50 | 62 | 78 | 41 | 35 | 43 | 33 | 24 | 22 | 50 | 54 |
| 944 | 74 | 66 | 81 | 67 | 49 | 50 | 63 | 78 | 41 | 35 | 44 | 33 | 24 | 22 | 50 | 54 |
| 945 | 74 | 66 | 82 | 68 | 50 | 51 | 63 | 79 | 42 | 36 | 44 | 34 | 24 | 22 | 50 | 54 |
| 946 | 75 | 67 | 82 | 68 | 51 | 51 | 64 | 79 | 42 | 36 | 44 | 34 | 25 | 23 | 51 | 54 |
| 947 | 76 | 67 | 83 | 69 | 51 | 51 | 64 | 79 | 43 | 37 | 45 | 35 | 25 | 23 | 51 | 54 |
| 948 | 76 | 68 | 84 | 69 | 52 | 51 | 65 | 79 | 43 | 37 | 45 | 35 | 26 | 23 | 52 | 55 |
| 949 | 77 | 68 | 84 | 70 | 52 | 52 | 65 | 80 | 44 | 38 | 46 | 36 | 26 | 23 | 52 | 55 |
| 950 | 77 | 69 | 85 | 70 | 52 | 52 | 65 | 80 | 44 | 38 | 46 | 36 | 26 | 23 | 53 | 55 |
| 951 | 78 | 69 | 85 | 71 | 53 | 53 | 66 | 81 | 45 | 38 | 47 | 37 | 26 | 23 | 53 | 55 |
| 952 | 78 | 70 | 86 | 71 | 53 | 53 | 66 | 81 | 45 | 39 | 47 | 37 | 27 | 24 | 54 | 56 |
| 953 | 79 | 70 | 87 | 72 | 53 | 53 | 67 | 81 | 45 | 39 | 48 | 37 | 27 | 24 | 54 | 56 |
| 954 | 79 | 71 | 87 | 72 | 54 | 54 | 67 | 82 | 46 | 39 | 48 | 38 | 27 | 24 | 54 | 56 |
| 955 | 80 | 71 | 88 | 73 | 54 | 54 | 68 | 82 | 46 | 40 | 48 | 38 | 27 | 24 | 55 | 57 |
| 956 | 80 | 72 | 88 | 73 | 54 | 54 | 68 | 83 | 46 | 40 | 49 | 38 | 27 | 24 | 55 | 57 |
| 957 | 81 | 72 | 89 | 74 | 55 | 54 | 69 | 83 | 47 | 40 | 49 | 38 | 27 | 24 | 56 | 57 |
| 958 | 81 | 73 | 89 | 74 | 55 | 55 | 69 | 84 | 47 | 40 | 49 | 39 | 28 | 24 | 56 | 58 |
| 959 | 82 | 73 | 90 | 75 | 55 | 55 | 69 | 84 | 47 | 40 | 50 | 39 | 28 | 25 | 56 | 58 |
| 960 | 83 | 74 | 91 | 75 | 56 | 56 | 70 | 85 | 48 | 41 | 50 | 39 | 28 | 25 | 57 | 58 |
| 961 | 83 | 74 | 91 | 76 | 56 | 56 | 70 | 85 | 48 | 41 | 50 | 39 | 28 | 25 | 57 | 59 |
| 962 | 84 | 75 | 92 | 76 | 56 | 56 | 71 | 85 | 48 | 41 | 51 | 39 | 28 | 25 | 58 | 59 |
| 963 | 84 | 75 | 92 | 77 | 57 | 56 | 71 | 86 | 48 | 42 | 51 | 40 | 28 | 25 | 58 | 59 |
| 964 | 85 | 75 | 93 | 77 | 57 | 57 | 72 | 86 | 49 | 42 | 51 | 40 | 29 | 25 | 58 | 60 |
| 965 | 85 | 76 | 93 | 78 | 57 | 57 | 72 | 87 | 49 | 42 | 52 | 40 | 29 | 25 | 59 | 60 |
| 966 | 86 | 76 | 94 | 78 | 58 | 58 | 73 | 87 | 49 | 42 | 52 | 40 | 29 | 25 | 59 | 60 |
| 967 | 86 | 77 | 95 | 79 | 58 | 58 | 73 | 87 | 50 | 42 | 52 | 41 | 29 | 26 | 59 | 61 |
| 968 | 87 | 77 | 95 | 79 | 58 | 58 | 73 | 88 | 50 | 43 | 53 | 41 | 29 | 26 | 60 | 61 |
| 969 | 87 | 78 | 96 | 79 | 59 | 58 | 74 | 88 | 50 | 43 | 53 | 41 | 29 | 26 | 60 | 61 |
| 970 | 88 | 78 | 96 | 80 | 59 | 59 | 74 | 89 | 50 | 43 | 53 | 41 | 29 | 26 | 60 | 62 |
| 971 | 88 | 79 | 97 | 80 | 59 | 59 | 75 | 89 | 51 | 43 | 54 | 41 | 29 | 26 | 61 | 62 |
| 972 | 89 | 79 | 97 | 81 | 60 | 59 | 75 | 89 | 51 | 44 | 54 | 42 | 30 | 26 | 61 | 62 |
| 973 | 89 | 79 | 98 | 81 | 60 | 59 | 76 | 90 | 51 | 44 | 54 | 42 | 30 | 26 | 61 | 63 |
| 974 | 90 | 80 | 99 | 82 | 60 | 60 | 76 | 90 | 51 | 44 | 54 | 42 | 30 | 27 | 62 | 63 |
| 975 | 90 | 80 | 99 | 82 | 60 | 60 | 76 | 91 | 52 | 44 | 55 | 42 | 30 | 27 | 62 | 63 |
| 976 | 91 | 81 | 100 | 83 | 61 | 60 | 77 | 91 | 52 | 45 | 55 | 43 | 30 | 27 | 62 | 64 |
| 977 | 91 | 81 | 100 | 83 | 61 | 61 | 77 | 92 | 52 | 45 | 55 | 43 | 30 | 27 | 63 | 64 |
| 978 | 92 | 82 | 101 | 84 | 61 | 61 | 78 | 92 | 53 | 45 | 56 | 43 | 30 | 27 | 63 | 64 |
| 979 | 92 | 82 | 101 | 84 | 62 | 61 | 78 | 92 | 53 | 45 | 56 | 43 | 31 | 27 | 63 | 65 |
| 980 | 93 | 83 | 102 | 84 | 62 | 62 | 79 | 93 | 53 | 45 | 56 | 43 | 31 | 27 | 64 | 65 |
| 981 | 93 | 83 | 103 | 85 | 62 | 62 | 79 | 93 | 53 | 46 | 57 | 44 | 31 | 27 | 64 | 65 |
| 982 | 94 | 83 | 103 | 85 | 63 | 62 | 80 | 93 | 54 | 46 | 57 | 44 | 31 | 28 | 64 | 65 |
| 983 | 94 | 84 | 104 | 86 | 63 | 62 | 80 | 94 | 54 | 46 | 57 | 44 | 31 | 28 | 65 | 66 |
| 984 | 95 | 84 | 104 | 86 | 63 | 63 | 80 | 94 | 54 | 46 | 57 | 44 | 31 | 28 | 65 | 66 |
| 985 | 95 | 85 | 105 | 87 | 64 | 63 | 81 | 94 | 54 | 47 | 58 | 45 | 31 | 28 | 65 | 66 |
| 986 | 96 | 85 | 105 | 87 | 64 | 63 | 81 | 95 | 55 | 47 | 58 | 45 | 32 | 28 | 66 | 66 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|------|----|----|
| 1.7 | 1.6 | 1.6 | 1.5 | 1 | 0.8 | 3.8 | 3.8 | 16 | 13 | 20 | 13 | 5 | 4.5 | 13 | 16 |
| 1.8 | 1.7 | 1.7 | 1.6 | 1.1 | 0.8 | 3.8 | 3.8 | 17 | 14 | 21 | 13 | 5 | 4.6 | 13 | 16 |
| 1.9 | 1.8 | 1.7 | 1.6 | 1.3 | 0.8 | 3.9 | 4 | 17 | 14 | 21 | 14 | 6 | 4.7 | 13 | 16 |
| 1.9 | 1.8 | 1.7 | 1.7 | 1.3 | 0.8 | 4.1 | 4 | 18 | 14 | 22 | 14 | 6 | 4.8 | 14 | 17 |
| 1.9 | 1.8 | 1.8 | 1.7 | 1.4 | 0.8 | 4.2 | 4.1 | 18 | 15 | 22 | 14 | 6 | 4.9 | 14 | 17 |
| 2 | 1.9 | 1.8 | 1.8 | 1.4 | 0.8 | 4.2 | 4.2 | 18 | 15 | 23 | 15 | 6 | 5 | 14 | 17 |
| 2 | 1.9 | 1.9 | 1.8 | 1.4 | 0.9 | 4.3 | 4.2 | 19 | 15 | 23 | 15 | 6 | 5.1 | 15 | 18 |
| 2.1 | 2 | 1.9 | 1.8 | 1.4 | 0.9 | 4.4 | 4.3 | 19 | 16 | 24 | 15 | 6 | 5.3 | 15 | 18 |
| 2.1 | 2 | 1.9 | 1.9 | 1.5 | 0.9 | 4.5 | 4.4 | 20 | 16 | 24 | 16 | 7 | 5.4 | 15 | 18 |
| 2.1 | 2 | 2 | 1.9 | 1.5 | 0.9 | 4.6 | 4.5 | 20 | 16 | 25 | 16 | 7 | 5.5 | 16 | 19 |
| 2.2 | 2.1 | 2 | 1.9 | 1.5 | 0.9 | 4.7 | 4.5 | 20 | 17 | 25 | 16 | 7 | 5.5 | 16 | 19 |
| 2.2 | 2.1 | 2.1 | 2 | 1.5 | 0.9 | 4.8 | 4.6 | 21 | 17 | 26 | 17 | 7 | 5.6 | 16 | 19 |
| 2.3 | 2.1 | 2.1 | 2 | 1.5 | 0.9 | 4.8 | 4.7 | 21 | 17 | 26 | 17 | 7 | 5.7 | 16 | 20 |
| 2.3 | 2.2 | 2.1 | 2 | 1.6 | 1.2 | 4.9 | 4.8 | 22 | 18 | 26 | 17 | 7 | 6 | 17 | 20 |
| 2.3 | 2.2 | 2.2 | 2.1 | 1.6 | 1.5 | 5 | 4.9 | 22 | 18 | 27 | 17 | 7 | 6.5 | 17 | 20 |
| 2.4 | 2.2 | 2.2 | 2.1 | 1.6 | 1.6 | 5.1 | 5 | 22 | 18 | 27 | 18 | 7 | 6.8 | 17 | 21 |
| 2.4 | 2.3 | 2.3 | 2.1 | 1.6 | 1.6 | 5.2 | 5 | 23 | 18 | 28 | 18 | 7 | 6.9 | 18 | 21 |
| 2.4 | 2.3 | 2.3 | 2.2 | 1.6 | 1.7 | 5.3 | 5.1 | 23 | 19 | 28 | 18 | 8 | 7.1 | 18 | 21 |
| 2.5 | 2.3 | 2.3 | 2.2 | 1.6 | 1.7 | 5.4 | 5.2 | 23 | 19 | 29 | 19 | 8 | 7.2 | 18 | 22 |
| 2.5 | 2.4 | 2.4 | 2.2 | 1.7 | 1.7 | 5.4 | 5.3 | 24 | 19 | 29 | 19 | 8 | 7.3 | 19 | 22 |
| 2.6 | 2.4 | 2.4 | 2.3 | 1.7 | 1.8 | 5.5 | 5.4 | 24 | 20 | 30 | 19 | 8 | 7.3 | 19 | 23 |
| 2.6 | 2.5 | 2.5 | 2.3 | 1.7 | 1.8 | 5.6 | 5.5 | 25 | 20 | 30 | 20 | 8 | 7.3 | 19 | 23 |
| 2.8 | 2.5 | 2.5 | 2.3 | 1.7 | 1.8 | 5.7 | 5.6 | 25 | 20 | 31 | 20 | 8 | 7.3 | 20 | 24 |
| 2.7 | 2.5 | 2.5 | 2.4 | 1.7 | 1.8 | 5.8 | 5.7 | 25 | 21 | 31 | 20 | 8 | 7.3 | 20 | 24 |
| 2.7 | 2.6 | 2.6 | 2.4 | 1.7 | 1.8 | 5.9 | 5.8 | 26 | 21 | 32 | 21 | 8 | 8.3 | 20 | 24 |
| 2.8 | 2.6 | 2.6 | 2.4 | 1.8 | 1.9 | 5.9 | 5.9 | 26 | 21 | 32 | 21 | 8 | 8.3 | 21 | 25 |
| 2.8 | 2.6 | 2.7 | 2.5 | 1.8 | 1.9 | 6 | 6 | 26 | 21 | 33 | 21 | 8 | 8.3 | 21 | 25 |
| 2.8 | 2.7 | 2.7 | 2.5 | 1.8 | 1.9 | 6.1 | 6 | 27 | 22 | 33 | 21 | 9 | 8.3 | 21 | 26 |
| 2.9 | 2.7 | 2.7 | 2.5 | 1.8 | 1.9 | 6.2 | 6.1 | 27 | 22 | 34 | 22 | 9 | 8.3 | 21 | 26 |
| 2.9 | 2.7 | 2.8 | 2.6 | 1.8 | 1.9 | 6.3 | 6.2 | 28 | 22 | 34 | 22 | 9 | 8.3 | 22 | 26 |
| 3 | 2.8 | 2.8 | 2.6 | 1.9 | 1.9 | 6.4 | 6.2 | 28 | 23 | 35 | 22 | 9 | 8.3 | 22 | 26 |
| 3 | 2.9 | 2.9 | 2.7 | 2.1 | 1.9 | 6.5 | 6.3 | 28 | 23 | 35 | 22 | 9 | 8.3 | 22 | 27 |
| 3.2 | 3.1 | 2.9 | 2.9 | 2.5 | 2 | 6.6 | 6.3 | 29 | 23 | 36 | 23 | 10 | 8.3 | 23 | 27 |
| 3.3 | 3.2 | 3 | 3 | 2.6 | 2.1 | 6.7 | 6.4 | 29 | 24 | 36 | 23 | 10 | 9.3 | 23 | 27 |
| 3.3 | 3.3 | 3.1 | 3.1 | 2.7 | 2.2 | 6.8 | 6.5 | 30 | 24 | 37 | 24 | 10 | 9.3 | 23 | 28 |
| 3.4 | 3.3 | 3.1 | 3.1 | 2.7 | 2.2 | 6.9 | 6.6 | 30 | 25 | 37 | 24 | 10 | 9.3 | 24 | 28 |
| 3.5 | 3.4 | 3.2 | 3.2 | 2.8 | 2.2 | 7 | 6.7 | 31 | 25 | 38 | 25 | 10 | 9.3 | 24 | 28 |
| 3.5 | 3.4 | 3.2 | 3.2 | 2.8 | 2.3 | 7.1 | 6.7 | 31 | 25 | 38 | 25 | 11 | 9.3 | 24 | 29 |
| 3.5 | 3.5 | 3.3 | 3.3 | 2.8 | 2.3 | 7.2 | 6.8 | 31 | 26 | 39 | 25 | 11 | 9.3 | 25 | 29 |
| 3.6 | 3.5 | 3.3 | 3.3 | 2.8 | 2.3 | 7.3 | 6.9 | 32 | 26 | 39 | 26 | 11 | 10.3 | 25 | 29 |
| 3.6 | 3.5 | 3.3 | 3.3 | 2.8 | 2.3 | 7.4 | 7 | 32 | 26 | 39 | 26 | 11 | 10.3 | 25 | 30 |
| 3.7 | 3.6 | 3.4 | 3.4 | 2.9 | 2.4 | 7.5 | 7.1 | 33 | 27 | 40 | 26 | 11 | 10.3 | 26 | 30 |
| 3.7 | 3.6 | 3.4 | 3.4 | 2.9 | 2.4 | 7.5 | 7.2 | 33 | 27 | 40 | 26 | 11 | 10.3 | 26 | 31 |
| 3.7 | 3.6 | 3.5 | 3.4 | 2.9 | 2.4 | 7.6 | 7.3 | 34 | 27 | 41 | 27 | 11 | 10.3 | 26 | 31 |
| 3.8 | 3.7 | 3.5 | 3.5 | 2.9 | 2.4 | 7.7 | 7.4 | 34 | 28 | 41 | 27 | 11 | 10.3 | 27 | 32 |
| 3.8 | 3.7 | 3.5 | 3.5 | 2.9 | 2.4 | 7.8 | 7.5 | 34 | 28 | 42 | 28 | 11 | 10.3 | 27 | 32 |
| 3.9 | 3.7 | 3.6 | 3.5 | 3 | 2.5 | 7.9 | 7.6 | 35 | 28 | 42 | 28 | 12 | 10.3 | 27 | 32 |
| 3.9 | 3.8 | 3.6 | 3.6 | 3 | 2.5 | 7.9 | 7.7 | 35 | 29 | 43 | 28 | 12 | 10.3 | 28 | 33 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|------|----|----|----|----|----|------|----|----|
| 3.9 | 3.8 | 3.7 | 3.6 | 3 | 2.5 | 8 | 7.8 | 35 | 29 | 43 | 28 | 12 | 11.3 | 28 | 33 |
| 4 | 3.9 | 3.7 | 3.7 | 3 | 2.5 | 8.1 | 7.9 | 36 | 29 | 44 | 29 | 12 | 11.3 | 28 | 34 |
| 4 | 3.9 | 3.7 | 3.7 | 3 | 2.5 | 8.2 | 7.9 | 36 | 29 | 44 | 29 | 12 | 11.3 | 29 | 34 |
| 4 | 3.9 | 3.8 | 3.7 | 3.1 | 2.6 | 8.3 | 8 | 37 | 30 | 45 | 29 | 12 | 11.3 | 29 | 34 |
| 4.1 | 4 | 3.8 | 3.8 | 3.1 | 2.6 | 8.4 | 8.1 | 37 | 30 | 45 | 30 | 12 | 11.3 | 29 | 35 |
| 4.1 | 4 | 3.9 | 3.8 | 3.1 | 2.6 | 8.4 | 8.2 | 37 | 30 | 46 | 30 | 12 | 11.3 | 30 | 35 |
| 4.2 | 4 | 3.9 | 3.8 | 3.1 | 2.6 | 8.5 | 8.3 | 38 | 31 | 46 | 30 | 12 | 11.3 | 30 | 35 |
| 4.2 | 4.1 | 3.9 | 3.9 | 3.1 | 2.6 | 8.6 | 8.4 | 38 | 31 | 47 | 31 | 13 | 11.3 | 30 | 36 |
| 4.2 | 4.1 | 4 | 3.9 | 3.1 | 2.6 | 8.7 | 8.5 | 39 | 31 | 47 | 31 | 13 | 11.3 | 30 | 36 |
| 4.3 | 4.2 | 4 | 3.9 | 3.2 | 2.7 | 8.8 | 8.5 | 39 | 32 | 48 | 31 | 13 | 12.3 | 31 | 37 |
| 4.3 | 4.2 | 4.1 | 4 | 3.2 | 2.7 | 8.8 | 8.6 | 39 | 32 | 48 | 31 | 13 | 12.3 | 31 | 37 |
| 4.4 | 4.3 | 4.1 | 4 | 3.4 | 2.7 | 8.9 | 8.7 | 40 | 32 | 49 | 32 | 13 | 12.3 | 32 | 37 |
| 4.5 | 4.5 | 4.2 | 4.2 | 3.8 | 3 | 9.1 | 8.7 | 40 | 33 | 49 | 32 | 13 | 12.3 | 32 | 37 |
| 4.6 | 4.6 | 4.2 | 4.3 | 3.8 | 3.5 | 9.2 | 8.9 | 41 | 33 | 50 | 32 | 14 | 13.3 | 32 | 38 |
| 4.7 | 4.7 | 4.3 | 4.4 | 3.9 | 3.7 | 9.3 | 9.1 | 41 | 33 | 50 | 33 | 14 | 13.3 | 32 | 38 |
| 4.7 | 4.7 | 4.3 | 4.4 | 3.9 | 3.7 | 9.4 | 9.2 | 41 | 34 | 51 | 33 | 14 | 13.3 | 33 | 38 |
| 4.8 | 4.7 | 4.4 | 4.5 | 3.9 | 3.8 | 9.5 | 9.3 | 42 | 34 | 51 | 34 | 14 | 14.3 | 33 | 39 |
| 4.8 | 4.8 | 4.4 | 4.5 | 4 | 3.8 | 9.6 | 9.4 | 42 | 35 | 51 | 34 | 14 | 14.3 | 33 | 39 |
| 4.9 | 4.8 | 4.5 | 4.5 | 4 | 3.9 | 9.7 | 9.5 | 43 | 35 | 52 | 34 | 15 | 14.3 | 34 | 40 |
| 4.9 | 4.8 | 4.5 | 4.6 | 4 | 3.9 | 9.7 | 9.6 | 43 | 35 | 52 | 35 | 15 | 14.3 | 34 | 40 |
| 5 | 4.9 | 4.6 | 4.6 | 4 | 3.9 | 9.8 | 9.7 | 44 | 36 | 53 | 35 | 15 | 14.3 | 34 | 40 |
| 5 | 4.9 | 4.6 | 4.7 | 4.1 | 3.9 | 9.8 | 9.8 | 44 | 36 | 53 | 35 | 15 | 14.3 | 35 | 41 |
| 5 | 5 | 4.7 | 4.7 | 4.1 | 4 | 10 | 9.8 | 44 | 36 | 54 | 36 | 15 | 14.3 | 35 | 41 |
| 5.1 | 5 | 4.7 | 4.7 | 4.1 | 4 | 10.1 | 9.9 | 45 | 36 | 54 | 36 | 15 | 14.3 | 35 | 41 |
| 5.1 | 5 | 4.7 | 4.8 | 4.1 | 4 | 10.1 | 9.9 | 45 | 37 | 55 | 36 | 15 | 14.3 | 36 | 42 |
| 5.2 | 5.1 | 4.8 | 4.8 | 4.3 | 4 | 10.2 | 10 | 45 | 37 | 55 | 36 | 15 | 14.3 | 36 | 42 |
| 5.3 | 5.2 | 4.8 | 4.9 | 4.5 | 4 | 10.3 | 10 | 46 | 38 | 56 | 37 | 16 | 15.3 | 36 | 42 |
| 5.3 | 5.3 | 4.9 | 5 | 4.5 | 4.1 | 10.4 | 10.1 | 46 | 38 | 56 | 37 | 16 | 15.3 | 37 | 42 |
| 5.4 | 5.4 | 4.9 | 5.1 | 4.7 | 4.1 | 10.5 | 10.2 | 47 | 38 | 57 | 37 | 16 | 15.3 | 37 | 43 |
| 5.5 | 5.5 | 5 | 5.2 | 4.7 | 4.1 | 10.5 | 10.2 | 47 | 39 | 57 | 38 | 16 | 15.3 | 37 | 43 |
| 5.6 | 5.6 | 5.1 | 5.2 | 4.8 | 4.2 | 10.8 | 10.3 | 48 | 39 | 58 | 38 | 16 | 15.3 | 38 | 43 |
| 5.6 | 5.6 | 5.1 | 5.3 | 4.8 | 4.2 | 10.9 | 10.4 | 48 | 39 | 58 | 39 | 17 | 15.3 | 38 | 44 |
| 5.7 | 5.7 | 5.2 | 5.3 | 4.8 | 4.2 | 10.9 | 10.5 | 49 | 40 | 59 | 39 | 17 | 15.3 | 38 | 44 |
| 5.7 | 5.7 | 5.2 | 5.4 | 4.8 | 4.2 | 11 | 10.5 | 49 | 40 | 59 | 39 | 17 | 15.3 | 39 | 44 |
| 5.8 | 5.7 | 5.3 | 5.4 | 4.9 | 4.2 | 11.1 | 10.6 | 49 | 40 | 60 | 40 | 17 | 16.3 | 39 | 45 |
| 5.8 | 5.8 | 5.3 | 5.4 | 4.9 | 4.3 | 11.2 | 10.7 | 50 | 41 | 60 | 40 | 17 | 16.3 | 39 | 45 |
| 5.8 | 5.8 | 5.4 | 5.5 | 4.9 | 4.3 | 11.3 | 10.8 | 50 | 41 | 61 | 40 | 17 | 16.3 | 40 | 45 |
| 5.9 | 5.8 | 5.4 | 5.5 | 4.9 | 4.3 | 11.4 | 10.9 | 51 | 41 | 61 | 41 | 17 | 16.3 | 40 | 46 |
| 6 | 6 | 5.5 | 5.6 | 5.2 | 4.3 | 11.5 | 11 | 51 | 42 | 62 | 41 | 18 | 16.3 | 40 | 46 |
| 6.2 | 6.3 | 5.5 | 5.8 | 5.7 | 4.3 | 11.6 | 11.1 | 51 | 42 | 62 | 41 | 18 | 16.3 | 41 | 47 |
| 6.3 | 6.5 | 5.6 | 6.1 | 6 | 4.4 | 11.8 | 11.1 | 52 | 43 | 63 | 42 | 18 | 16.3 | 41 | 47 |
| 6.5 | 6.7 | 5.7 | 6.3 | 6 | 4.4 | 12 | 11.2 | 52 | 43 | 63 | 42 | 19 | 16.3 | 41 | 47 |
| 6.6 | 6.8 | 5.8 | 6.4 | 6.1 | 4.4 | 12.1 | 11.3 | 53 | 43 | 64 | 43 | 19 | 16.3 | 42 | 48 |
| 6.7 | 6.9 | 5.9 | 6.5 | 6.1 | 4.4 | 12.3 | 11.4 | 53 | 44 | 64 | 43 | 19 | 17.3 | 42 | 48 |
| 6.8 | 6.9 | 6 | 6.5 | 6.2 | 4.4 | 12.4 | 11.5 | 54 | 44 | 65 | 43 | 19 | 17.3 | 42 | 48 |
| 6.9 | 7 | 6.1 | 6.6 | 6.2 | 4.5 | 12.5 | 11.6 | 54 | 45 | 65 | 44 | 19 | 17.3 | 43 | 49 |
| 6.9 | 7 | 6.2 | 6.6 | 6.2 | 4.5 | 12.6 | 11.6 | 55 | 45 | 66 | 44 | 19 | 17.3 | 43 | 49 |
| 7 | 7.1 | 6.3 | 6.7 | 6.2 | 4.5 | 12.7 | 11.7 | 55 | 45 | 66 | 44 | 20 | 17.3 | 43 | 49 |

| | | | | | | | | | | | | | | | |
|------|------|------|------|-----|-----|------|------|----|----|----|----|----|------|----|----|
| 7 | 7.1 | 6.3 | 6.7 | 6.3 | 4.5 | 12.8 | 11.8 | 56 | 46 | 66 | 45 | 20 | 17.3 | 44 | 50 |
| 7.1 | 7.1 | 6.4 | 6.8 | 6.3 | 4.5 | 12.9 | 11.9 | 56 | 46 | 67 | 45 | 20 | 17.3 | 44 | 50 |
| 7.1 | 7.2 | 6.4 | 6.8 | 6.3 | 4.5 | 13 | 12 | 56 | 46 | 67 | 46 | 20 | 17.3 | 44 | 50 |
| 7.2 | 7.2 | 6.5 | 6.8 | 6.3 | 4.6 | 13.1 | 12.1 | 57 | 47 | 68 | 46 | 20 | 17.3 | 45 | 51 |
| 7.2 | 7.3 | 6.5 | 6.9 | 6.4 | 4.6 | 13.2 | 12.1 | 57 | 47 | 68 | 46 | 20 | 18.3 | 45 | 51 |
| 7.3 | 7.4 | 6.6 | 6.9 | 6.6 | 4.6 | 13.3 | 12.2 | 58 | 47 | 69 | 46 | 20 | 18.3 | 45 | 51 |
| 7.5 | 7.7 | 6.7 | 7.2 | 7.2 | 4.6 | 13.5 | 12.3 | 58 | 48 | 69 | 47 | 21 | 18.3 | 46 | 52 |
| 7.8 | 8.1 | 6.9 | 7.7 | 7.7 | 4.6 | 13.8 | 12.4 | 59 | 48 | 70 | 47 | 21 | 18.3 | 46 | 52 |
| 8.1 | 8.5 | 7.1 | 8.1 | 8.1 | 4.6 | 14.1 | 12.4 | 59 | 48 | 70 | 48 | 22 | 18.3 | 47 | 52 |
| 8.4 | 8.9 | 7.3 | 8.5 | 8.3 | 4.7 | 14.4 | 12.4 | 60 | 49 | 71 | 48 | 23 | 18.3 | 47 | 52 |
| 8.7 | 9.1 | 7.5 | 8.8 | 8.4 | 4.8 | 14.7 | 12.5 | 60 | 50 | 71 | 49 | 23 | 18.3 | 47 | 53 |
| 8.9 | 9.3 | 7.8 | 9 | 8.5 | 4.8 | 14.9 | 12.5 | 61 | 50 | 72 | 49 | 23 | 18.3 | 48 | 53 |
| 9.1 | 9.5 | 7.9 | 9.1 | 8.6 | 4.8 | 15.2 | 12.6 | 61 | 51 | 72 | 50 | 24 | 19.3 | 48 | 53 |
| 9.3 | 9.6 | 8.1 | 9.3 | 8.7 | 4.8 | 15.4 | 12.7 | 62 | 51 | 73 | 50 | 24 | 19.3 | 48 | 53 |
| 9.4 | 9.7 | 8.3 | 9.3 | 8.7 | 4.8 | 15.5 | 12.8 | 62 | 52 | 73 | 51 | 24 | 19.3 | 49 | 54 |
| 9.5 | 9.8 | 8.4 | 9.4 | 8.8 | 4.9 | 15.7 | 12.8 | 63 | 52 | 74 | 51 | 24 | 19.3 | 49 | 54 |
| 9.6 | 9.9 | 8.5 | 9.5 | 8.8 | 4.9 | 15.9 | 12.9 | 63 | 53 | 74 | 52 | 24 | 19.3 | 50 | 54 |
| 9.7 | 10 | 8.6 | 9.5 | 8.9 | 4.9 | 16 | 13 | 64 | 53 | 75 | 52 | 24 | 19.3 | 50 | 55 |
| 9.8 | 10 | 8.7 | 9.6 | 8.9 | 4.9 | 16.1 | 13 | 64 | 54 | 75 | 53 | 24 | 19.3 | 50 | 55 |
| 9.8 | 10.1 | 8.8 | 9.6 | 8.9 | 4.9 | 16.2 | 13.1 | 65 | 54 | 76 | 53 | 24 | 19.3 | 51 | 55 |
| 9.9 | 10.1 | 8.9 | 9.6 | 8.9 | 5 | 16.3 | 13.2 | 65 | 54 | 77 | 53 | 25 | 19.3 | 51 | 56 |
| 9.9 | 10.1 | 8.9 | 9.7 | 9 | 5 | 16.4 | 13.3 | 66 | 55 | 77 | 54 | 25 | 19.3 | 51 | 56 |
| 10 | 10.2 | 9 | 9.7 | 9 | 5 | 16.5 | 13.3 | 66 | 55 | 78 | 54 | 25 | 20.3 | 52 | 56 |
| 10 | 10.2 | 9.1 | 9.8 | 9.1 | 5 | 16.6 | 13.4 | 67 | 55 | 78 | 54 | 25 | 20.3 | 52 | 56 |
| 10.1 | 10.3 | 9.1 | 9.8 | 9.1 | 5 | 16.7 | 13.5 | 67 | 56 | 79 | 55 | 25 | 20.3 | 53 | 57 |
| 10.1 | 10.3 | 9.2 | 9.8 | 9.1 | 5 | 16.7 | 13.5 | 68 | 56 | 79 | 55 | 25 | 20.3 | 53 | 57 |
| 10.2 | 10.3 | 9.2 | 9.9 | 9.2 | 5.1 | 16.8 | 13.6 | 68 | 56 | 80 | 55 | 25 | 20.3 | 53 | 57 |
| 10.2 | 10.4 | 9.2 | 9.9 | 9.2 | 5.1 | 16.9 | 13.7 | 68 | 56 | 80 | 55 | 25 | 20.3 | 53 | 57 |
| 10.3 | 10.4 | 9.3 | 9.9 | 9.2 | 5.1 | 17 | 13.7 | 69 | 57 | 81 | 55 | 25 | 20.3 | 54 | 58 |
| 10.3 | 10.5 | 9.3 | 10 | 9.2 | 5.1 | 17.1 | 13.8 | 69 | 57 | 81 | 56 | 26 | 20.3 | 54 | 58 |
| 10.3 | 10.5 | 9.4 | 10 | 9.3 | 5.1 | 17.2 | 13.9 | 69 | 57 | 82 | 56 | 26 | 20.3 | 55 | 58 |
| 10.4 | 10.5 | 9.4 | 10 | 9.3 | 5.1 | 17.2 | 13.9 | 70 | 58 | 82 | 57 | 26 | 20.3 | 55 | 59 |
| 10.4 | 10.6 | 9.5 | 10.1 | 9.3 | 5.2 | 17.3 | 14 | 70 | 58 | 83 | 57 | 26 | 21.3 | 56 | 59 |
| 10.5 | 10.6 | 9.5 | 10.1 | 9.3 | 5.2 | 17.4 | 14.1 | 71 | 58 | 83 | 57 | 26 | 21.3 | 56 | 59 |
| 10.5 | 10.6 | 9.5 | 10.2 | 9.3 | 5.2 | 17.5 | 14.2 | 71 | 59 | 84 | 58 | 26 | 21.3 | 56 | 59 |
| 10.5 | 10.7 | 9.6 | 10.2 | 9.4 | 5.2 | 17.6 | 14.2 | 71 | 59 | 84 | 58 | 26 | 21.3 | 57 | 60 |
| 10.6 | 10.7 | 9.6 | 10.2 | 9.4 | 5.2 | 17.6 | 14.3 | 72 | 59 | 85 | 58 | 26 | 21.3 | 57 | 60 |
| 10.6 | 10.7 | 9.7 | 10.3 | 9.4 | 5.2 | 17.7 | 14.4 | 72 | 59 | 85 | 58 | 26 | 21.3 | 57 | 60 |
| 10.7 | 10.8 | 9.7 | 10.3 | 9.4 | 5.3 | 17.8 | 14.5 | 72 | 60 | 86 | 59 | 26 | 21.3 | 58 | 61 |
| 10.7 | 10.8 | 9.8 | 10.3 | 9.5 | 5.3 | 17.9 | 14.5 | 73 | 60 | 86 | 59 | 27 | 21.3 | 58 | 61 |
| 10.7 | 10.9 | 9.8 | 10.4 | 9.5 | 5.3 | 18 | 14.6 | 73 | 60 | 87 | 59 | 27 | 21.3 | 58 | 61 |
| 10.8 | 10.9 | 9.8 | 10.4 | 9.5 | 5.3 | 18 | 14.7 | 74 | 61 | 87 | 60 | 27 | 22.3 | 59 | 61 |
| 10.8 | 10.9 | 9.9 | 10.4 | 9.5 | 5.3 | 18.1 | 14.7 | 74 | 61 | 88 | 60 | 27 | 22.3 | 59 | 62 |
| 10.9 | 11 | 9.9 | 10.5 | 9.5 | 5.3 | 18.2 | 14.8 | 74 | 61 | 88 | 60 | 27 | 22.3 | 59 | 62 |
| 10.9 | 11 | 10 | 10.5 | 9.6 | 5.4 | 18.3 | 14.8 | 75 | 61 | 89 | 60 | 27 | 22.3 | 60 | 62 |
| 10.9 | 11 | 10 | 10.5 | 9.6 | 5.4 | 18.4 | 14.9 | 75 | 61 | 89 | 61 | 27 | 22.3 | 60 | 62 |
| 11 | 11.1 | 10 | 10.6 | 9.6 | 5.4 | 18.5 | 14.9 | 75 | 62 | 90 | 61 | 27 | 22.3 | 60 | 62 |
| 11 | 11.1 | 10.1 | 10.6 | 9.6 | 5.4 | 18.5 | 15 | 76 | 62 | 90 | 61 | 27 | 22.3 | 60 | 63 |

| LOAM2MFlat | | LOAM2MTop | | LOAM2MBottom | | LOAM2M1M | | LOAM2M3OCM | | LOAM2M3M | | LOAM5MFk | | LOAM5MTa | | LOAM5MBa | | LOAM5MTb | | LOAM5M3OCM | | LOAM5M3M | |
|------------|-----|-----------|-----|--------------|-----|----------|-----|------------|-----|----------|---|----------|-----|----------|-----|----------|---|----------|---|------------|-----|----------|---|
| A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| 0.1 | 0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0 | 0 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 0.2 | 0.1 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0 | 0 | 0.1 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 0.3 | 0.1 | 0.4 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0 | 0 | 0.1 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0 | 0 |
| 0.4 | 0.2 | 0.5 | 0.3 | 0.2 | 0.4 | 0.1 | 0.3 | 0.4 | 0.1 | 0 | 0 | 0.2 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0 |
| 0.5 | 0.2 | 0.7 | 0.3 | 0.3 | 0.4 | 0.2 | 0.4 | 0.5 | 0.1 | 0 | 0 | 0.2 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 0.6 | 0.3 | 0.8 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.6 | 0.1 | 1 | 1 | 0.3 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 0.7 | 0.4 | 0.9 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.6 | 0.1 | 1 | 1 | 0.3 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 0.8 | 0.4 | 1 | 0.5 | 0.5 | 0.4 | 0.6 | 0.6 | 0.6 | 0.1 | 1 | 1 | 0.4 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 0.9 | 0.5 | 1.1 | 0.6 | 0.6 | 0.5 | 0.7 | 0.7 | 0.6 | 0.1 | 1 | 1 | 0.4 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 1 | 0.6 | 1.2 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 | 0.2 | 1 | 1 | 0.4 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 1 | 0.6 | 1.2 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 | 0.2 | 1 | 1 | 0.5 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 1.1 | 0.7 | 1.3 | 0.8 | 0.8 | 0.7 | 0.8 | 0.8 | 0.6 | 0.2 | 1 | 2 | 0.5 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 1.2 | 0.7 | 1.4 | 0.9 | 0.8 | 0.8 | 0.9 | 0.9 | 0.7 | 0.2 | 2 | 2 | 0.5 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 1.3 | 0.8 | 1.4 | 0.9 | 0.9 | 0.9 | 0.9 | 1 | 0.7 | 0.2 | 2 | 2 | 0.5 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 1.3 | 0.8 | 1.5 | 1 | 1 | 1 | 1 | 1 | 0.7 | 0.2 | 2 | 2 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.3 | 0.8 | 1.5 | 1 | 1 | 1 | 1 | 1 | 0.7 | 0.2 | 2 | 2 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.4 | 0.9 | 1.5 | 1.1 | 1 | 1 | 1 | 1 | 0.7 | 0.2 | 2 | 3 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.4 | 1 | 1.6 | 1.1 | 1.1 | 1 | 1.1 | 1.1 | 0.7 | 0.2 | 2 | 3 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.5 | 1 | 1.7 | 1.2 | 1.2 | 1 | 1.1 | 1.1 | 0.7 | 0.2 | 2 | 3 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.5 | 1 | 1.7 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 0.7 | 0.2 | 2 | 3 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.6 | 1.1 | 1.8 | 1.3 | 1.3 | 1.1 | 1.2 | 1.2 | 0.7 | 0.3 | 3 | 3 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.6 | 1.1 | 1.8 | 1.3 | 1.3 | 1.1 | 1.2 | 1.2 | 0.7 | 0.3 | 3 | 3 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.7 | 1.2 | 1.9 | 1.4 | 1.4 | 1.2 | 1.3 | 1.3 | 0.7 | 0.3 | 3 | 3 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.8 | 1.3 | 2 | 1.5 | 1.5 | 1.3 | 1.3 | 1.3 | 0.8 | 0.3 | 3 | 4 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.8 | 1.3 | 2 | 1.5 | 1.5 | 1.3 | 1.3 | 1.3 | 0.8 | 0.3 | 3 | 4 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.9 | 1.3 | 2.1 | 1.6 | 1.6 | 1.4 | 1.4 | 1.4 | 0.8 | 0.3 | 3 | 4 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 1.9 | 1.3 | 2.1 | 1.6 | 1.6 | 1.4 | 1.4 | 1.4 | 0.8 | 0.3 | 3 | 4 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2 | 1.4 | 2.1 | 1.6 | 1.7 | 1.4 | 1.4 | 1.4 | 0.8 | 0.3 | 4 | 4 | 0.5 | 0.6 | 0.1 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2 | 1.4 | 2.2 | 1.7 | 1.7 | 1.5 | 1.5 | 1.5 | 0.8 | 0.3 | 4 | 4 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2 | 1.5 | 2.2 | 1.7 | 1.8 | 1.5 | 1.5 | 1.5 | 0.8 | 0.3 | 4 | 5 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.1 | 1.5 | 2.3 | 1.8 | 1.8 | 1.6 | 1.6 | 1.6 | 0.8 | 0.3 | 4 | 5 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.1 | 1.6 | 2.4 | 1.9 | 1.9 | 1.7 | 1.7 | 1.7 | 0.8 | 0.4 | 4 | 5 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.2 | 1.6 | 2.4 | 1.9 | 2 | 1.7 | 1.7 | 1.7 | 0.8 | 0.4 | 4 | 5 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.2 | 1.7 | 2.5 | 2 | 2 | 1.8 | 1.8 | 1.8 | 0.9 | 0.4 | 4 | 5 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.3 | 1.8 | 2.5 | 2 | 2 | 1.8 | 1.8 | 1.8 | 0.9 | 0.4 | 5 | 5 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.3 | 1.8 | 2.6 | 2.1 | 2.1 | 1.9 | 1.9 | 1.9 | 0.9 | 0.4 | 5 | 5 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.4 | 1.9 | 2.6 | 2.2 | 2.2 | 2 | 2 | 2 | 0.9 | 0.4 | 5 | 6 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.4 | 1.9 | 2.7 | 2.3 | 2.3 | 2 | 2 | 2 | 0.9 | 0.4 | 5 | 6 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.5 | 2 | 2.8 | 2.3 | 2.3 | 2.1 | 2.1 | 2.1 | 0.9 | 0.4 | 5 | 6 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.5 | 2 | 2.8 | 2.4 | 2.4 | 2.1 | 2.1 | 2.1 | 0.9 | 0.4 | 5 | 6 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |
| 2.6 | 2.1 | 2.9 | 2.4 | 2.4 | 2.2 | 2.2 | 2.2 | 0.9 | 0.5 | 5 | 7 | 0.5 | 0.6 | 0.2 | 0.5 | 0.4 | 0 | 0 | 0 | 0 | 0.5 | 0.4 | 0 |

| | | | | | | | | | | | | | | | | | | |
|-----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|
| 63 | 56 | 69 | 62 | 55 | 52 | 46 | 29 | 21 | 13 | 14 | 18 | 2 | 07 | 18 | 19 | 122 | 17 | 12 |
| 64 | 57 | 7 | 63 | 56 | 53 | 46 | 29 | 22 | 13 | 15 | 18 | 2 | 07 | 18 | 19 | 122 | 17 | 12 |
| 64 | 57 | 71 | 64 | 57 | 54 | 47 | 29 | 22 | 13 | 15 | 18 | 2 | 08 | 18 | 19 | 122 | 17 | 12 |
| 65 | 58 | 71 | 64 | 57 | 54 | 47 | 3 | 22 | 13 | 15 | 19 | 2 | 08 | 18 | 19 | 122 | 17 | 12 |
| 65 | 58 | 72 | 65 | 58 | 55 | 47 | 3 | 22 | 13 | 15 | 19 | 2 | 08 | 18 | 19 | 122 | 17 | 12 |
| 66 | 59 | 72 | 65 | 59 | 55 | 48 | 3 | 22 | 13 | 15 | 19 | 2 | 08 | 18 | 2 | 122 | 18 | 13 |
| 67 | 59 | 73 | 66 | 6 | 56 | 48 | 3 | 22 | 13 | 15 | 19 | 2 | 08 | 18 | 2 | 122 | 18 | 13 |
| 67 | 6 | 74 | 67 | 6 | 57 | 49 | 31 | 22 | 14 | 16 | 19 | 21 | 08 | 18 | 2 | 122 | 18 | 13 |
| 68 | 6 | 74 | 67 | 61 | 57 | 49 | 31 | 22 | 14 | 16 | 19 | 21 | 09 | 18 | 2 | 122 | 18 | 13 |
| 68 | 61 | 75 | 68 | 62 | 58 | 49 | 31 | 22 | 14 | 16 | 19 | 21 | 09 | 18 | 2 | 122 | 18 | 13 |
| 69 | 61 | 76 | 68 | 62 | 58 | 5 | 31 | 22 | 14 | 16 | 19 | 21 | 09 | 18 | 2 | 122 | 19 | 13 |
| 7 | 62 | 77 | 69 | 63 | 59 | 5 | 32 | 22 | 14 | 16 | 19 | 21 | 09 | 18 | 21 | 122 | 19 | 13 |
| 71 | 62 | 78 | 7 | 64 | 59 | 51 | 35 | 24 | 14 | 16 | 2 | 22 | 09 | 19 | 24 | 137 | 19 | 13 |
| 72 | 64 | 8 | 72 | 64 | 6 | 52 | 38 | 29 | 14 | 16 | 21 | 24 | 09 | 2 | 27 | 186 | 19 | 14 |
| 73 | 66 | 82 | 75 | 65 | 61 | 53 | 39 | 34 | 15 | 17 | 21 | 25 | 09 | 2 | 28 | 231 | 2 | 14 |
| 74 | 67 | 83 | 77 | 66 | 62 | 54 | 4 | 35 | 15 | 17 | 22 | 26 | 1 | 21 | 28 | 241 | 2 | 15 |
| 76 | 68 | 85 | 79 | 66 | 62 | 55 | 4 | 36 | 15 | 17 | 23 | 27 | 1 | 22 | 28 | 251 | 2 | 15 |
| 77 | 7 | 86 | 82 | 67 | 63 | 56 | 4 | 36 | 15 | 17 | 23 | 27 | 1 | 22 | 28 | 251 | 21 | 16 |
| 78 | 71 | 87 | 83 | 68 | 64 | 57 | 4 | 36 | 15 | 17 | 24 | 28 | 1 | 23 | 28 | 251 | 21 | 16 |
| 79 | 72 | 88 | 84 | 68 | 64 | 58 | 4 | 36 | 15 | 18 | 24 | 28 | 1 | 23 | 28 | 251 | 21 | 17 |
| 8 | 74 | 88 | 85 | 69 | 65 | 58 | 4 | 36 | 15 | 18 | 25 | 28 | 1 | 24 | 28 | 251 | 22 | 17 |
| 81 | 76 | 89 | 85 | 7 | 66 | 59 | 4 | 36 | 18 | 18 | 25 | 28 | 1 | 24 | 28 | 251 | 22 | 18 |
| 81 | 76 | 9 | 86 | 7 | 67 | 6 | 4 | 36 | 16 | 18 | 26 | 28 | 11 | 24 | 28 | 251 | 22 | 18 |
| 82 | 77 | 9 | 86 | 71 | 67 | 6 | 4 | 37 | 16 | 18 | 26 | 28 | 11 | 25 | 28 | 251 | 23 | 18 |
| 83 | 78 | 91 | 87 | 72 | 68 | 61 | 41 | 37 | 16 | 18 | 26 | 28 | 11 | 25 | 28 | 251 | 23 | 19 |
| 84 | 79 | 92 | 88 | 73 | 69 | 61 | 42 | 37 | 16 | 19 | 26 | 29 | 11 | 25 | 29 | 251 | 23 | 19 |
| 85 | 79 | 93 | 88 | 73 | 69 | 62 | 44 | 37 | 16 | 19 | 27 | 3 | 11 | 25 | 31 | 251 | 23 | 19 |
| 86 | 8 | 94 | 89 | 74 | 7 | 63 | 45 | 37 | 17 | 19 | 27 | 31 | 12 | 26 | 33 | 261 | 24 | 2 |
| 87 | 81 | 96 | 89 | 75 | 7 | 63 | 46 | 38 | 17 | 19 | 28 | 31 | 12 | 26 | 34 | 261 | 24 | 2 |
| 88 | 82 | 97 | 9 | 75 | 71 | 64 | 48 | 39 | 17 | 19 | 28 | 32 | 12 | 27 | 35 | 271 | 24 | 2 |
| 89 | 82 | 99 | 91 | 76 | 72 | 65 | 48 | 39 | 17 | 19 | 29 | 33 | 12 | 27 | 35 | 271 | 25 | 21 |
| 9 | 83 | 10 | 92 | 77 | 73 | 66 | 49 | 39 | 17 | 19 | 29 | 34 | 12 | 28 | 36 | 271 | 25 | 21 |
| 91 | 84 | 101 | 92 | 78 | 73 | 67 | 49 | 39 | 17 | 19 | 3 | 34 | 12 | 28 | 36 | 271 | 25 | 21 |
| 92 | 84 | 102 | 93 | 78 | 74 | 67 | 49 | 39 | 17 | 20 | 3 | 35 | 13 | 29 | 36 | 271 | 26 | 21 |
| 93 | 85 | 103 | 93 | 79 | 75 | 68 | 49 | 39 | 18 | 20 | 31 | 35 | 13 | 29 | 36 | 271 | 26 | 22 |
| 94 | 86 | 103 | 94 | 8 | 76 | 69 | 49 | 39 | 18 | 20 | 31 | 35 | 13 | 3 | 36 | 271 | 26 | 22 |
| 94 | 86 | 104 | 95 | 8 | 77 | 69 | 49 | 4 | 18 | 20 | 31 | 35 | 13 | 3 | 36 | 271 | 26 | 22 |
| 95 | 87 | 104 | 95 | 81 | 78 | 7 | 49 | 4 | 18 | 20 | 32 | 35 | 13 | 3 | 36 | 271 | 27 | 23 |
| 96 | 87 | 106 | 96 | 82 | 78 | 71 | 51 | 4 | 18 | 20 | 32 | 36 | 13 | 3 | 37 | 271 | 27 | 23 |
| 97 | 88 | 107 | 97 | 83 | 79 | 72 | 55 | 4 | 18 | 21 | 33 | 37 | 14 | 31 | 41 | 271 | 27 | 23 |
| 99 | 88 | 11 | 97 | 83 | 8 | 73 | 59 | 4 | 19 | 21 | 34 | 39 | 14 | 32 | 45 | 271 | 28 | 23 |
| 10 | 89 | 112 | 98 | 84 | 81 | 74 | 61 | 4 | 19 | 21 | 35 | 4 | 14 | 33 | 48 | 271 | 28 | 23 |
| 101 | 9 | 114 | 98 | 85 | 81 | 76 | 63 | 4 | 19 | 21 | 36 | 42 | 14 | 34 | 48 | 271 | 29 | 23 |
| 103 | 9 | 116 | 99 | 86 | 82 | 77 | 63 | 4 | 19 | 21 | 36 | 43 | 15 | 35 | 49 | 271 | 3 | 24 |
| 104 | 91 | 118 | 10 | 86 | 83 | 78 | 63 | 4 | 19 | 21 | 37 | 44 | 15 | 36 | 49 | 271 | 3 | 24 |
| 106 | 91 | 119 | 10 | 87 | 84 | 79 | 63 | 41 | 19 | 22 | 38 | 45 | 15 | 37 | 49 | 271 | 31 | 24 |
| 107 | 92 | 12 | 101 | 88 | 84 | 81 | 63 | 41 | 20 | 22 | 39 | 46 | 15 | 38 | 49 | 271 | 31 | 24 |
| 108 | 92 | 121 | 101 | 89 | 85 | 82 | 63 | 41 | 20 | 22 | 4 | 47 | 16 | 39 | 49 | 271 | 32 | 24 |

| | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|-----|-----|----|----|-----|-----|-----|-----|-----|------|-----|-----|
| 10.9 | 9.3 | 12.2 | 10.2 | 9 | 8.5 | 8.3 | 6.3 | 4.1 | 20 | 22 | 4.1 | 4.7 | 1.6 | 4 | 4.9 | 2.71 | 3.2 | 2.4 |
| 11.1 | 9.3 | 12.3 | 10.2 | 9.1 | 8.6 | 8.3 | 6.3 | 4.1 | 20 | 22 | 4.1 | 4.7 | 1.6 | 4 | 4.9 | 2.71 | 3.3 | 2.4 |
| 11.2 | 9.4 | 12.3 | 10.3 | 9.1 | 8.7 | 8.5 | 6.3 | 4.1 | 20 | 22 | 4.1 | 4.7 | 1.7 | 4 | 4.9 | 2.71 | 3.3 | 2.4 |
| 11.3 | 9.4 | 12.4 | 10.3 | 9.2 | 8.7 | 8.5 | 6.4 | 4.1 | 20 | 22 | 4.2 | 4.7 | 1.7 | 4.1 | 4.9 | 2.71 | 3.4 | 2.4 |
| 11.4 | 9.5 | 12.4 | 10.4 | 9.3 | 8.8 | 8.5 | 6.4 | 4.1 | 21 | 23 | 4.3 | 4.7 | 1.7 | 4.1 | 4.9 | 2.71 | 3.4 | 2.5 |
| 11.5 | 9.5 | 12.5 | 10.5 | 9.4 | 8.9 | 8.6 | 6.5 | 4.1 | 21 | 23 | 4.3 | 4.8 | 1.8 | 4.1 | 5 | 2.71 | 3.5 | 2.5 |
| 11.6 | 9.6 | 12.7 | 10.5 | 9.5 | 8.9 | 8.7 | 6.9 | 4.1 | 21 | 23 | 4.4 | 4.9 | 1.8 | 4.4 | 5.4 | 2.71 | 3.5 | 2.5 |
| 11.8 | 9.6 | 13 | 10.6 | 9.6 | 9 | 8.9 | 7.5 | 4.1 | 21 | 23 | 4.5 | 5.1 | 1.8 | 4.4 | 5.9 | 2.71 | 3.6 | 2.5 |
| 11.9 | 9.6 | 13.3 | 10.6 | 9.7 | 9 | 9.1 | 8 | 4.2 | 21 | 23 | 4.7 | 5.4 | 1.9 | 4.6 | 6.5 | 2.71 | 3.7 | 2.5 |
| 12.1 | 9.7 | 13.6 | 10.6 | 9.8 | 9 | 9.4 | 8.6 | 4.3 | 22 | 23 | 4.8 | 5.6 | 1.9 | 4.8 | 7 | 2.81 | 3.8 | 2.5 |
| 12.3 | 9.7 | 13.9 | 10.7 | 9.9 | 9.1 | 9.6 | 9 | 4.4 | 22 | 23 | 5 | 5.8 | 2 | 5 | 7.5 | 2.91 | 3.9 | 2.5 |
| 12.5 | 9.8 | 14.2 | 10.8 | 10 | 9.2 | 9.8 | 9.2 | 4.4 | 22 | 23 | 5.1 | 6.1 | 2.1 | 5.2 | 7.6 | 2.91 | 4 | 2.5 |
| 12.7 | 9.9 | 14.5 | 10.9 | 10.1 | 9.2 | 10.1 | 9.3 | 4.5 | 22 | 23 | 5.3 | 6.3 | 2.1 | 5.4 | 7.7 | 3.01 | 4.1 | 2.5 |
| 12.9 | 10 | 14.8 | 11 | 10.2 | 9.3 | 10.3 | 9.3 | 4.5 | 23 | 24 | 5.4 | 6.5 | 2.2 | 5.6 | 7.7 | 3.01 | 4.2 | 2.5 |
| 13.1 | 10.1 | 15.1 | 11.1 | 10.4 | 9.4 | 10.5 | 9.3 | 4.5 | 23 | 24 | 5.6 | 6.8 | 2.2 | 5.8 | 7.7 | 3.01 | 4.4 | 2.6 |
| 13.3 | 10.1 | 15.3 | 11.1 | 10.5 | 9.4 | 10.7 | 9.4 | 4.5 | 23 | 24 | 5.7 | 6.9 | 2.3 | 6 | 7.7 | 3.01 | 4.5 | 2.6 |
| 13.5 | 10.2 | 15.5 | 11.2 | 10.6 | 9.5 | 10.9 | 9.4 | 4.5 | 23 | 24 | 5.8 | 7.1 | 2.4 | 6.1 | 7.7 | 3.01 | 4.6 | 2.6 |
| 13.7 | 10.3 | 15.7 | 11.2 | 10.7 | 9.5 | 11.1 | 9.4 | 4.5 | 23 | 24 | 6 | 7.2 | 2.4 | 6.2 | 7.7 | 3.01 | 4.7 | 2.6 |
| 13.9 | 10.3 | 15.8 | 11.3 | 10.8 | 9.6 | 11.2 | 9.4 | 4.5 | 24 | 24 | 6.1 | 7.3 | 2.5 | 6.3 | 7.7 | 3.01 | 4.8 | 2.6 |
| 14.1 | 10.4 | 15.9 | 11.3 | 11 | 9.7 | 11.3 | 9.4 | 4.5 | 24 | 24 | 6.2 | 7.3 | 2.6 | 6.4 | 7.7 | 3.01 | 4.9 | 2.6 |
| 14.2 | 10.4 | 15.9 | 11.4 | 11.1 | 9.7 | 11.4 | 9.4 | 4.5 | 24 | 24 | 6.4 | 7.3 | 2.6 | 6.5 | 7.7 | 3.01 | 5 | 2.6 |
| 14.4 | 10.5 | 16 | 11.5 | 11.2 | 9.8 | 11.5 | 9.4 | 4.5 | 24 | 25 | 6.5 | 7.4 | 2.7 | 6.5 | 7.7 | 3.01 | 5.1 | 2.6 |
| 14.5 | 10.5 | 16 | 11.5 | 11.3 | 9.8 | 11.5 | 9.4 | 4.6 | 25 | 25 | 6.6 | 7.4 | 2.8 | 6.6 | 7.7 | 3.01 | 5.2 | 2.7 |
| 14.7 | 10.6 | 16.1 | 11.6 | 11.4 | 9.9 | 11.6 | 9.4 | 4.6 | 25 | 25 | 6.6 | 7.4 | 2.8 | 6.6 | 7.7 | 3.01 | 5.3 | 2.7 |
| 14.8 | 10.6 | 16.1 | 11.6 | 11.5 | 10 | 11.6 | 9.4 | 4.6 | 25 | 25 | 6.7 | 7.4 | 2.9 | 6.6 | 7.7 | 3.01 | 5.4 | 2.7 |
| 14.9 | 10.7 | 16.2 | 11.6 | 11.7 | 10 | 11.7 | 9.5 | 4.6 | 25 | 25 | 6.7 | 7.4 | 3 | 6.6 | 7.7 | 3.01 | 5.5 | 2.7 |
| 15 | 10.7 | 16.2 | 11.7 | 11.8 | 10.1 | 11.7 | 9.5 | 4.6 | 25 | 25 | 6.8 | 7.4 | 3 | 6.6 | 7.7 | 3.01 | 5.5 | 2.7 |
| 15 | 10.8 | 16.3 | 11.7 | 11.9 | 10.1 | 11.7 | 9.5 | 4.6 | 26 | 25 | 6.8 | 7.4 | 3.1 | 6.6 | 7.7 | 3.01 | 5.6 | 2.7 |
| 15.1 | 10.8 | 16.4 | 11.8 | 12 | 10.2 | 11.8 | 9.5 | 4.6 | 26 | 25 | 6.8 | 7.4 | 3.2 | 6.6 | 7.7 | 3.01 | 5.7 | 2.7 |
| 15.1 | 10.9 | 16.4 | 11.8 | 12.1 | 10.2 | 11.8 | 9.5 | 4.6 | 26 | 25 | 6.8 | 7.4 | 3.2 | 6.6 | 7.7 | 3.01 | 5.7 | 2.7 |
| 15.2 | 10.9 | 16.5 | 11.9 | 12.2 | 10.3 | 11.8 | 9.5 | 4.6 | 26 | 26 | 6.8 | 7.4 | 3.3 | 6.6 | 7.7 | 3.01 | 5.8 | 2.7 |
| 15.2 | 10.9 | 16.5 | 11.9 | 12.3 | 10.4 | 11.9 | 9.5 | 4.6 | 26 | 26 | 6.8 | 7.4 | 3.3 | 6.6 | 7.7 | 3.01 | 5.8 | 2.7 |
| 15.3 | 11 | 16.6 | 12 | 12.4 | 10.4 | 11.9 | 9.5 | 4.7 | 26 | 26 | 6.8 | 7.4 | 3.4 | 6.6 | 7.7 | 3.01 | 5.9 | 2.7 |
| 15.3 | 11 | 16.6 | 12 | 12.6 | 10.5 | 11.9 | 9.5 | 4.7 | 27 | 26 | 6.8 | 7.4 | 3.5 | 6.6 | 7.7 | 3.01 | 6 | 2.8 |
| 15.4 | 11.1 | 16.7 | 12.1 | 12.7 | 10.5 | 11.9 | 9.5 | 4.7 | 27 | 26 | 6.8 | 7.4 | 3.5 | 6.6 | 7.7 | 3.01 | 6 | 2.8 |
| 15.4 | 11.2 | 16.7 | 12.1 | 12.8 | 10.6 | 12 | 9.6 | 4.7 | 27 | 26 | 6.8 | 7.4 | 3.6 | 6.6 | 7.7 | 3.01 | 6 | 2.8 |
| 15.5 | 11.2 | 16.8 | 12.2 | 12.9 | 10.7 | 12 | 9.6 | 4.7 | 27 | 26 | 6.8 | 7.4 | 3.6 | 6.6 | 7.7 | 3.01 | 6 | 2.8 |
| 15.5 | 11.3 | 16.8 | 12.3 | 13 | 10.7 | 12 | 9.6 | 4.7 | 27 | 26 | 6.8 | 7.4 | 3.7 | 6.6 | 7.7 | 3.01 | 6.1 | 2.8 |
| 15.6 | 11.3 | 16.9 | 12.3 | 13.1 | 10.8 | 12.1 | 9.6 | 4.7 | 27 | 27 | 6.8 | 7.4 | 3.7 | 6.6 | 7.7 | 3.01 | 6.1 | 2.8 |
| 15.7 | 11.4 | 17 | 12.4 | 13.2 | 10.8 | 12.1 | 9.6 | 4.7 | 28 | 27 | 6.8 | 7.4 | 3.7 | 6.6 | 7.7 | 3.01 | 6.1 | 2.8 |
| 15.7 | 11.4 | 17 | 12.4 | 13.2 | 10.9 | 12.1 | 9.6 | 4.7 | 28 | 27 | 6.8 | 7.4 | 3.7 | 6.6 | 7.7 | 3.01 | 6.1 | 2.8 |
| 15.8 | 11.4 | 17.1 | 12.4 | 13.3 | 10.9 | 12.2 | 9.6 | 4.7 | 28 | 27 | 6.8 | 7.4 | 3.8 | 6.6 | 7.7 | 3.01 | 6.1 | 2.8 |
| 15.8 | 11.5 | 17.1 | 12.5 | 13.4 | 11 | 12.2 | 9.6 | 4.7 | 28 | 27 | 6.8 | 7.4 | 3.8 | 6.6 | 7.7 | 3.01 | 6.1 | 2.8 |
| 15.9 | 11.5 | 17.2 | 12.5 | 13.5 | 11 | 12.2 | 9.6 | 4.8 | 28 | 27 | 6.8 | 7.4 | 3.9 | 6.6 | 7.7 | 3.01 | 6.2 | 2.8 |
| 15.9 | 11.6 | 17.2 | 12.6 | 13.6 | 11.1 | 12.3 | 9.6 | 4.8 | 28 | 27 | 6.8 | 7.4 | 3.9 | 6.6 | 7.7 | 3.01 | 6.2 | 2.8 |
| 16 | 11.6 | 17.3 | 12.6 | 13.7 | 11.1 | 12.3 | 9.7 | 4.8 | 28 | 27 | 6.8 | 7.4 | 4 | 6.6 | 7.7 | 3.01 | 6.2 | 2.8 |
| 16 | 11.6 | 17.3 | 12.6 | 13.8 | 11.2 | 12.3 | 9.7 | 4.8 | 28 | 27 | 6.8 | 7.4 | 4 | 6.6 | 7.7 | 3.01 | 6.2 | 2.8 |
| 16.1 | 11.7 | 17.4 | 12.7 | 13.9 | 11.2 | 12.3 | 9.7 | 4.8 | 29 | 27 | 6.8 | 7.4 | 4 | 6.6 | 7.7 | 3.01 | 6.2 | 2.8 |

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|------|----|----|-----|-----|-----|-----|-----|-----|----|----|
| 16 | 14 | 16 | 15 | 4 | 4.3 | 14 | 18 | 2.2 | 1.7 | 2.4 | 1.4 | 0.6 | 0.2 | 6 | 7 |
| 16 | 14 | 16 | 15 | 4 | 4.4 | 14 | 19 | 2.2 | 1.8 | 2.5 | 1.5 | 0.6 | 0.2 | 6 | 7 |
| 16 | 15 | 17 | 16 | 5 | 4.5 | 14 | 19 | 2.3 | 1.9 | 2.5 | 1.6 | 1 | 0.2 | 6 | 7 |
| 17 | 15 | 17 | 16 | 5 | 4.6 | 15 | 20 | 2.4 | 2.1 | 2.6 | 1.7 | 1.2 | 0.2 | 6 | 7 |
| 17 | 16 | 18 | 17 | 5 | 4.7 | 15 | 20 | 2.5 | 2.2 | 2.7 | 1.8 | 1.2 | 0.2 | 6 | 7 |
| 18 | 16 | 18 | 17 | 5 | 4.8 | 15 | 20 | 2.7 | 2.3 | 2.7 | 1.8 | 1.2 | 0.3 | 6 | 7 |
| 18 | 16 | 18 | 18 | 5 | 4.9 | 16 | 21 | 2.8 | 2.4 | 2.8 | 1.9 | 1.2 | 0.3 | 7 | 8 |
| 19 | 17 | 19 | 18 | 5 | 5 | 16 | 21 | 2.8 | 2.4 | 2.8 | 2 | 1.2 | 0.3 | 7 | 8 |
| 19 | 17 | 19 | 19 | 5 | 5.1 | 16 | 22 | 2.9 | 2.4 | 2.9 | 2 | 1.2 | 0.3 | 7 | 8 |
| 20 | 18 | 20 | 19 | 5 | 5.2 | 17 | 22 | 3 | 2.5 | 3 | 2.1 | 1.2 | 0.3 | 7 | 8 |
| 20 | 18 | 20 | 19 | 6 | 5.3 | 17 | 22 | 3 | 2.5 | 3 | 2.1 | 1.2 | 0.3 | 7 | 8 |
| 20 | 18 | 20 | 20 | 6 | 5.4 | 17 | 23 | 3.1 | 2.5 | 3.1 | 2.1 | 1.2 | 0.3 | 7 | 8 |
| 21 | 18 | 21 | 20 | 6 | 5.5 | 18 | 23 | 3.1 | 2.5 | 3.2 | 2.2 | 1.2 | 0.3 | 7 | 8 |
| 21 | 19 | 21 | 20 | 6 | 5.9 | 18 | 23 | 3.2 | 2.6 | 3.2 | 2.2 | 1.2 | 0.5 | 8 | 9 |
| 22 | 19 | 22 | 21 | 6 | 6.4 | 18 | 24 | 3.2 | 2.6 | 3.3 | 2.2 | 1.2 | 1 | 8 | 9 |
| 22 | 19 | 22 | 21 | 6 | 6.7 | 19 | 24 | 3.2 | 2.6 | 3.4 | 2.2 | 1.3 | 1.1 | 8 | 9 |
| 22 | 20 | 22 | 21 | 6 | 6.7 | 19 | 25 | 3.3 | 2.7 | 3.4 | 2.3 | 1.3 | 1.1 | 8 | 9 |
| 22 | 20 | 22 | 22 | 6 | 6.9 | 19 | 25 | 3.3 | 2.7 | 3.5 | 2.3 | 1.3 | 1.2 | 8 | 9 |
| 23 | 20 | 23 | 22 | 6 | 7 | 20 | 26 | 3.4 | 2.7 | 3.5 | 2.3 | 1.3 | 1.2 | 8 | 10 |
| 23 | 20 | 23 | 22 | 6 | 7.1 | 20 | 26 | 3.4 | 2.7 | 3.6 | 2.3 | 1.3 | 1.2 | 8 | 10 |
| 23 | 21 | 24 | 22 | 6 | 7.2 | 20 | 26 | 3.4 | 2.8 | 3.7 | 2.3 | 1.3 | 1.2 | 8 | 10 |
| 24 | 21 | 24 | 23 | 7 | 7.3 | 20 | 27 | 3.4 | 2.8 | 3.7 | 2.4 | 1.3 | 1.2 | 9 | 10 |
| 24 | 21 | 25 | 23 | 7 | 7.4 | 21 | 27 | 3.5 | 2.8 | 3.7 | 2.4 | 1.3 | 1.2 | 9 | 10 |
| 24 | 22 | 25 | 23 | 7 | 7.5 | 21 | 28 | 3.5 | 2.8 | 3.8 | 2.4 | 1.3 | 1.2 | 9 | 11 |
| 25 | 22 | 25 | 24 | 7 | 7.5 | 21 | 28 | 3.6 | 2.8 | 3.8 | 2.4 | 1.3 | 1.2 | 9 | 11 |
| 25 | 22 | 26 | 24 | 7 | 7.6 | 22 | 28 | 3.6 | 2.9 | 3.9 | 2.4 | 1.3 | 1.2 | 9 | 11 |
| 26 | 23 | 26 | 24 | 7 | 7.7 | 22 | 29 | 3.6 | 2.9 | 4 | 2.5 | 1.3 | 1.2 | 9 | 11 |
| 26 | 23 | 27 | 25 | 7 | 7.9 | 22 | 29 | 3.7 | 2.9 | 4 | 2.5 | 1.3 | 1.2 | 9 | 11 |
| 26 | 23 | 27 | 25 | 7 | 7.9 | 23 | 30 | 3.7 | 2.9 | 4.1 | 2.5 | 1.3 | 1.2 | 9 | 11 |
| 27 | 24 | 27 | 25 | 7 | 8 | 23 | 30 | 3.7 | 3 | 4.1 | 2.5 | 1.3 | 1.2 | 9 | 11 |
| 27 | 24 | 28 | 26 | 7 | 8.1 | 23 | 30 | 3.8 | 3 | 4.2 | 2.5 | 1.3 | 1.2 | 10 | 12 |
| 28 | 24 | 28 | 26 | 8 | 8.2 | 24 | 31 | 3.8 | 3 | 4.3 | 2.6 | 1.3 | 1.2 | 10 | 12 |
| 28 | 25 | 29 | 26 | 8 | 8.3 | 24 | 31 | 3.9 | 3.1 | 4.3 | 2.6 | 1.6 | 1.2 | 10 | 12 |
| 28 | 25 | 29 | 27 | 8 | 8.5 | 24 | 31 | 4 | 3.3 | 4.4 | 2.8 | 2 | 1.3 | 10 | 12 |
| 29 | 26 | 29 | 27 | 9 | 8.8 | 25 | 32 | 4.2 | 3.5 | 4.5 | 2.9 | 2.4 | 1.5 | 10 | 12 |
| 29 | 27 | 30 | 28 | 9 | 9 | 25 | 32 | 4.3 | 3.7 | 4.5 | 3.1 | 2.4 | 1.6 | 10 | 12 |
| 30 | 27 | 30 | 28 | 9 | 9.2 | 25 | 33 | 4.5 | 3.9 | 4.6 | 3.2 | 2.4 | 1.7 | 11 | 13 |
| 30 | 28 | 31 | 29 | 9 | 9.3 | 26 | 33 | 4.6 | 4.1 | 4.7 | 3.3 | 2.4 | 1.7 | 11 | 13 |
| 31 | 28 | 31 | 29 | 9 | 9.4 | 26 | 33 | 4.8 | 4.2 | 4.8 | 3.5 | 2.4 | 1.7 | 11 | 13 |
| 31 | 29 | 32 | 30 | 9 | 9.5 | 26 | 34 | 4.9 | 4.2 | 4.8 | 3.6 | 2.4 | 1.7 | 11 | 13 |
| 32 | 29 | 32 | 30 | 10 | 9.6 | 27 | 34 | 5 | 4.2 | 4.9 | 3.6 | 2.5 | 1.7 | 11 | 13 |
| 32 | 30 | 32 | 30 | 10 | 9.7 | 27 | 35 | 5.1 | 4.3 | 5 | 3.7 | 2.5 | 1.7 | 12 | 14 |
| 33 | 30 | 33 | 31 | 10 | 9.8 | 28 | 35 | 5.2 | 4.3 | 5.1 | 3.7 | 2.5 | 1.7 | 12 | 14 |
| 33 | 31 | 33 | 31 | 10 | 9.9 | 28 | 35 | 5.2 | 4.3 | 5.2 | 3.7 | 2.5 | 1.8 | 12 | 14 |
| 33 | 31 | 34 | 32 | 10 | 10.1 | 28 | 36 | 5.3 | 4.4 | 5.2 | 3.8 | 2.5 | 1.8 | 12 | 14 |
| 34 | 32 | 34 | 32 | 10 | 10.2 | 29 | 36 | 5.3 | 4.4 | 5.3 | 3.8 | 2.5 | 1.8 | 12 | 14 |
| 34 | 32 | 34 | 32 | 10 | 10.3 | 29 | 37 | 5.3 | 4.4 | 5.4 | 3.8 | 2.5 | 1.8 | 12 | 14 |
| 35 | 32 | 35 | 33 | 10 | 10.4 | 29 | 37 | 5.4 | 4.4 | 5.5 | 3.8 | 2.5 | 1.8 | 13 | 15 |
| 35 | 33 | 35 | 33 | 10 | 10.5 | 30 | 38 | 5.4 | 4.5 | 5.5 | 3.8 | 2.5 | 1.8 | 13 | 15 |

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|------|----|----|-----|-----|-----|-----|-----|-----|----|----|
| 35 | 33 | 36 | 33 | 10 | 10.6 | 30 | 38 | 5.5 | 4.5 | 5.6 | 3.9 | 2.5 | 1.8 | 13 | 15 |
| 36 | 33 | 36 | 34 | 11 | 10.7 | 30 | 39 | 5.5 | 4.5 | 5.7 | 3.9 | 2.5 | 1.8 | 13 | 15 |
| 36 | 34 | 36 | 34 | 11 | 10.7 | 31 | 39 | 5.5 | 4.5 | 5.8 | 3.9 | 2.5 | 1.8 | 13 | 15 |
| 36 | 34 | 37 | 34 | 11 | 10.7 | 31 | 39 | 5.6 | 4.6 | 5.8 | 3.9 | 2.5 | 1.8 | 13 | 15 |
| 37 | 34 | 37 | 35 | 11 | 10.7 | 31 | 40 | 5.6 | 4.6 | 5.9 | 3.9 | 2.5 | 1.8 | 13 | 16 |
| 37 | 35 | 38 | 35 | 11 | 10.7 | 32 | 40 | 5.7 | 4.6 | 6 | 4 | 2.5 | 1.8 | 13 | 16 |
| 38 | 35 | 38 | 35 | 11 | 11.7 | 32 | 41 | 5.7 | 4.7 | 6 | 4 | 2.6 | 1.8 | 14 | 16 |
| 38 | 36 | 38 | 36 | 11 | 11.7 | 32 | 41 | 5.8 | 4.7 | 6.1 | 4 | 2.6 | 1.8 | 14 | 16 |
| 38 | 36 | 39 | 36 | 11 | 11.7 | 33 | 41 | 5.8 | 4.8 | 6.2 | 4.1 | 2.6 | 1.8 | 14 | 16 |
| 39 | 36 | 39 | 37 | 11 | 11.7 | 33 | 42 | 5.9 | 4.8 | 6.2 | 4.1 | 2.6 | 1.8 | 14 | 16 |
| 39 | 36 | 40 | 37 | 11 | 11.7 | 33 | 42 | 5.9 | 4.8 | 6.3 | 4.1 | 2.6 | 1.8 | 14 | 16 |
| 40 | 37 | 40 | 37 | 12 | 11.7 | 34 | 43 | 6 | 4.9 | 6.4 | 4.2 | 2.6 | 1.8 | 14 | 17 |
| 40 | 37 | 41 | 38 | 12 | 11.7 | 34 | 43 | 6.1 | 5.1 | 6.4 | 4.3 | 3.2 | 1.9 | 14 | 17 |
| 41 | 38 | 41 | 38 | 13 | 12.7 | 34 | 43 | 6.3 | 5.3 | 6.5 | 4.4 | 3.5 | 2.3 | 15 | 17 |
| 41 | 38 | 41 | 39 | 13 | 13.7 | 35 | 44 | 6.4 | 5.5 | 6.6 | 4.6 | 3.5 | 2.6 | 15 | 17 |
| 41 | 39 | 42 | 39 | 13 | 13.7 | 35 | 44 | 6.5 | 5.6 | 6.7 | 4.7 | 3.5 | 2.6 | 15 | 17 |
| 42 | 39 | 42 | 40 | 13 | 13.7 | 35 | 45 | 6.6 | 5.8 | 6.7 | 4.8 | 3.6 | 2.6 | 15 | 18 |
| 42 | 40 | 43 | 40 | 13 | 13.7 | 36 | 45 | 6.8 | 5.8 | 6.8 | 4.9 | 3.6 | 2.6 | 15 | 18 |
| 43 | 40 | 43 | 40 | 13 | 13.7 | 36 | 45 | 6.9 | 5.9 | 6.9 | 5 | 3.6 | 2.7 | 15 | 18 |
| 43 | 40 | 43 | 41 | 13 | 13.7 | 37 | 46 | 7 | 5.9 | 7 | 5 | 3.6 | 2.7 | 16 | 18 |
| 44 | 41 | 44 | 41 | 13 | 13.7 | 37 | 46 | 7.1 | 5.9 | 7.1 | 5.1 | 3.6 | 2.7 | 16 | 18 |
| 44 | 41 | 44 | 41 | 13 | 13.7 | 37 | 47 | 7.1 | 5.9 | 7.1 | 5.1 | 3.6 | 2.7 | 16 | 19 |
| 45 | 41 | 45 | 42 | 14 | 13.7 | 38 | 47 | 7.2 | 6 | 7.2 | 5.2 | 3.6 | 2.7 | 16 | 19 |
| 45 | 42 | 45 | 42 | 14 | 14.7 | 38 | 47 | 7.2 | 6 | 7.3 | 5.2 | 3.6 | 2.7 | 16 | 19 |
| 45 | 42 | 45 | 43 | 14 | 14.7 | 38 | 48 | 7.2 | 6 | 7.3 | 5.2 | 3.6 | 2.8 | 16 | 19 |
| 46 | 42 | 46 | 43 | 14 | 14.7 | 39 | 48 | 7.3 | 6.1 | 7.4 | 5.2 | 3.7 | 2.8 | 17 | 19 |
| 46 | 43 | 46 | 43 | 14 | 14.7 | 39 | 48 | 7.4 | 6.2 | 7.5 | 5.3 | 4 | 2.8 | 17 | 19 |
| 47 | 43 | 47 | 44 | 15 | 14.7 | 39 | 49 | 7.5 | 6.4 | 7.6 | 5.4 | 4.2 | 2.8 | 17 | 20 |
| 47 | 44 | 47 | 44 | 15 | 14.7 | 40 | 49 | 7.6 | 6.5 | 7.6 | 5.5 | 4.3 | 2.9 | 17 | 20 |
| 47 | 44 | 47 | 45 | 15 | 14.7 | 40 | 49 | 7.7 | 6.6 | 7.7 | 5.6 | 4.4 | 2.9 | 17 | 20 |
| 48 | 44 | 48 | 45 | 15 | 14.7 | 40 | 50 | 7.8 | 6.8 | 7.8 | 5.7 | 4.4 | 3 | 17 | 20 |
| 48 | 45 | 48 | 45 | 15 | 15.7 | 41 | 50 | 7.9 | 6.9 | 7.9 | 5.8 | 4.4 | 3 | 17 | 20 |
| 48 | 45 | 49 | 46 | 15 | 15.7 | 41 | 50 | 8.1 | 6.9 | 7.9 | 5.9 | 4.4 | 3 | 18 | 20 |
| 49 | 46 | 49 | 46 | 15 | 15.7 | 41 | 51 | 8.1 | 7 | 8 | 5.9 | 4.5 | 3 | 18 | 20 |
| 50 | 46 | 50 | 47 | 16 | 15.7 | 42 | 51 | 8.2 | 7 | 8.1 | 6 | 4.5 | 3 | 18 | 21 |
| 50 | 46 | 50 | 47 | 16 | 15.7 | 42 | 52 | 8.3 | 7 | 8.2 | 6.1 | 4.5 | 3 | 18 | 21 |
| 51 | 47 | 50 | 47 | 16 | 15.7 | 43 | 52 | 8.4 | 7.1 | 8.3 | 6.1 | 4.5 | 3 | 18 | 21 |
| 51 | 47 | 51 | 48 | 16 | 15.7 | 43 | 52 | 8.4 | 7.1 | 8.3 | 6.1 | 4.5 | 3 | 18 | 21 |
| 51 | 47 | 51 | 48 | 16 | 15.7 | 43 | 53 | 8.5 | 7.2 | 8.4 | 6.2 | 4.7 | 3 | 19 | 21 |
| 52 | 48 | 52 | 49 | 17 | 15.7 | 44 | 53 | 8.7 | 7.4 | 8.5 | 6.3 | 5.2 | 3 | 19 | 21 |
| 52 | 48 | 52 | 49 | 17 | 16.7 | 44 | 54 | 8.8 | 7.6 | 8.6 | 6.5 | 5.7 | 3 | 19 | 22 |
| 53 | 49 | 52 | 50 | 18 | 16.7 | 44 | 54 | 9 | 7.9 | 8.7 | 6.7 | 5.9 | 3 | 19 | 22 |
| 53 | 50 | 53 | 50 | 18 | 16.7 | 45 | 54 | 9.1 | 8.1 | 8.8 | 6.9 | 5.9 | 3 | 19 | 22 |
| 54 | 50 | 53 | 51 | 18 | 16.7 | 45 | 55 | 9.3 | 8.3 | 8.9 | 7.1 | 5.9 | 3 | 20 | 22 |
| 54 | 50 | 54 | 51 | 18 | 16.7 | 45 | 55 | 9.5 | 8.5 | 9 | 7.2 | 5.9 | 3 | 20 | 22 |
| 55 | 51 | 54 | 52 | 18 | 16.7 | 46 | 56 | 9.6 | 8.6 | 9.1 | 7.3 | 5.9 | 3 | 20 | 22 |
| 55 | 51 | 54 | 52 | 18 | 16.7 | 46 | 56 | 9.8 | 8.6 | 9.2 | 7.4 | 5.9 | 3 | 20 | 22 |
| 56 | 52 | 55 | 52 | 18 | 16.7 | 47 | 56 | 9.9 | 8.6 | 9.3 | 7.5 | 5.9 | 3 | 20 | 23 |

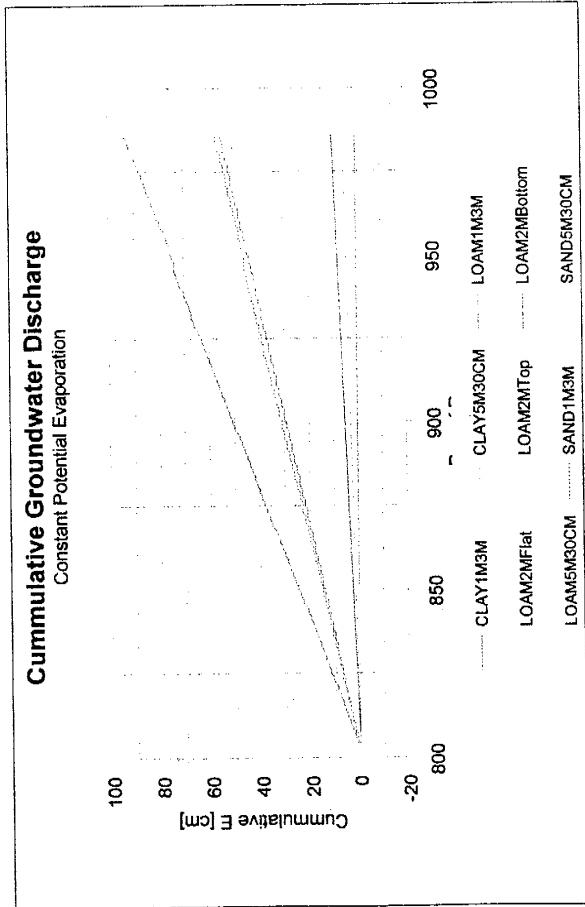
| | | | | | | | | | | | | | | | |
|----|----|----|----|----|------|----|----|------|------|------|------|-----|-----|----|----|
| 56 | 52 | 55 | 53 | 18 | 16.7 | 47 | 57 | 10 | 8.7 | 9.4 | 7.5 | 5.9 | 3.1 | 21 | 23 |
| 57 | 52 | 56 | 53 | 18 | 16.7 | 47 | 57 | 10.1 | 8.7 | 9.5 | 7.6 | 5.9 | 3.1 | 21 | 23 |
| 57 | 53 | 56 | 53 | 19 | 17.7 | 48 | 57 | 10.1 | 8.7 | 9.6 | 7.6 | 5.9 | 3.1 | 21 | 23 |
| 57 | 53 | 57 | 54 | 19 | 17.7 | 48 | 58 | 10.2 | 8.7 | 9.7 | 7.6 | 5.9 | 3.1 | 21 | 23 |
| 58 | 53 | 57 | 54 | 19 | 17.7 | 48 | 58 | 10.2 | 8.8 | 9.8 | 7.6 | 5.9 | 3.1 | 21 | 23 |
| 58 | 54 | 57 | 55 | 19 | 17.7 | 49 | 58 | 10.3 | 8.9 | 9.9 | 7.7 | 6.1 | 3.1 | 21 | 23 |
| 59 | 54 | 58 | 55 | 20 | 17.7 | 49 | 59 | 10.5 | 9.1 | 10 | 7.9 | 6.6 | 3.1 | 22 | 24 |
| 59 | 55 | 58 | 56 | 20 | 17.7 | 49 | 59 | 10.7 | 9.4 | 10.1 | 8.2 | 7.2 | 3.1 | 22 | 24 |
| 60 | 55 | 59 | 56 | 21 | 17.7 | 50 | 59 | 10.9 | 9.8 | 10.2 | 8.5 | 7.8 | 3.1 | 22 | 24 |
| 60 | 56 | 59 | 57 | 21 | 17.7 | 50 | 59 | 11.2 | 10.1 | 10.4 | 8.8 | 8.3 | 3.3 | 22 | 24 |
| 61 | 56 | 59 | 57 | 22 | 18.7 | 51 | 60 | 11.4 | 10.5 | 10.6 | 9.2 | 8.5 | 3.4 | 23 | 24 |
| 61 | 57 | 60 | 58 | 22 | 18.7 | 51 | 60 | 11.7 | 10.9 | 10.7 | 9.5 | 8.6 | 3.4 | 23 | 24 |
| 62 | 58 | 60 | 59 | 22 | 18.7 | 51 | 60 | 12 | 11.2 | 10.9 | 9.9 | 8.7 | 3.4 | 23 | 24 |
| 62 | 58 | 61 | 59 | 22 | 18.7 | 52 | 61 | 12.2 | 11.5 | 11.1 | 10.2 | 8.7 | 3.4 | 24 | 24 |
| 63 | 59 | 61 | 60 | 22 | 18.7 | 52 | 61 | 12.5 | 11.7 | 11.3 | 10.4 | 8.8 | 3.4 | 24 | 24 |
| 63 | 59 | 61 | 60 | 22 | 18.7 | 52 | 61 | 12.7 | 11.9 | 11.4 | 10.5 | 8.8 | 3.4 | 24 | 25 |
| 64 | 60 | 62 | 61 | 23 | 18.7 | 53 | 62 | 13 | 11.9 | 11.6 | 10.6 | 8.9 | 3.4 | 25 | 25 |
| 64 | 60 | 62 | 61 | 23 | 18.7 | 53 | 62 | 13.2 | 12 | 11.8 | 10.6 | 8.9 | 3.4 | 25 | 25 |
| 65 | 60 | 63 | 62 | 23 | 18.7 | 53 | 62 | 13.4 | 12 | 11.9 | 10.7 | 8.9 | 3.4 | 25 | 25 |
| 65 | 61 | 63 | 62 | 23 | 18.7 | 54 | 62 | 13.5 | 12 | 12.1 | 10.7 | 8.9 | 3.4 | 25 | 25 |
| 66 | 61 | 63 | 62 | 23 | 19.7 | 54 | 63 | 13.6 | 12 | 12.3 | 10.7 | 8.9 | 3.5 | 26 | 25 |
| 66 | 61 | 64 | 63 | 23 | 19.7 | 55 | 63 | 13.6 | 12.1 | 12.4 | 10.8 | 8.9 | 3.5 | 26 | 25 |
| 66 | 62 | 64 | 63 | 23 | 19.7 | 55 | 63 | 13.7 | 12.1 | 12.6 | 10.8 | 9 | 3.5 | 26 | 25 |
| 67 | 62 | 65 | 63 | 23 | 19.7 | 55 | 64 | 13.7 | 12.1 | 12.7 | 10.8 | 9 | 3.5 | 26 | 26 |
| 67 | 62 | 65 | 64 | 23 | 19.7 | 56 | 64 | 13.8 | 12.1 | 12.9 | 10.8 | 9 | 3.5 | 26 | 26 |
| 68 | 63 | 66 | 64 | 23 | 19.7 | 56 | 64 | 13.8 | 12.2 | 13 | 10.8 | 9 | 3.5 | 27 | 26 |
| 68 | 63 | 66 | 64 | 24 | 19.7 | 56 | 65 | 13.8 | 12.2 | 13.1 | 10.9 | 9 | 3.5 | 27 | 26 |
| 68 | 63 | 66 | 65 | 24 | 19.7 | 57 | 65 | 13.9 | 12.2 | 13.3 | 10.9 | 9 | 3.5 | 27 | 26 |
| 69 | 64 | 67 | 65 | 24 | 19.7 | 57 | 65 | 13.9 | 12.3 | 13.4 | 10.9 | 9 | 3.5 | 27 | 26 |
| 69 | 64 | 67 | 65 | 24 | 19.7 | 57 | 66 | 14 | 12.3 | 13.5 | 10.9 | 9 | 3.5 | 27 | 26 |
| 70 | 64 | 68 | 66 | 24 | 20.7 | 58 | 66 | 14 | 12.3 | 13.6 | 10.9 | 9 | 3.5 | 27 | 26 |
| 70 | 65 | 68 | 66 | 24 | 20.7 | 58 | 66 | 14 | 12.3 | 13.7 | 11 | 9.1 | 3.5 | 27 | 26 |
| 70 | 65 | 68 | 67 | 24 | 20.7 | 59 | 66 | 14.1 | 12.4 | 13.8 | 11 | 9.1 | 3.5 | 27 | 27 |
| 71 | 65 | 69 | 67 | 24 | 20.7 | 59 | 67 | 14.1 | 12.4 | 13.9 | 11 | 9.1 | 3.5 | 28 | 27 |
| 71 | 66 | 69 | 67 | 24 | 20.7 | 59 | 67 | 14.2 | 12.4 | 14 | 11 | 9.1 | 3.5 | 28 | 27 |
| 72 | 66 | 70 | 68 | 24 | 20.7 | 60 | 67 | 14.2 | 12.4 | 14 | 11.1 | 9.1 | 3.5 | 28 | 27 |
| 72 | 66 | 70 | 68 | 25 | 20.7 | 60 | 68 | 14.2 | 12.5 | 14.1 | 11.1 | 9.1 | 3.5 | 28 | 27 |
| 72 | 67 | 70 | 68 | 25 | 20.7 | 60 | 68 | 14.3 | 12.5 | 14.2 | 11.1 | 9.1 | 3.5 | 28 | 27 |
| 73 | 67 | 71 | 69 | 25 | 20.7 | 61 | 68 | 14.3 | 12.5 | 14.3 | 11.1 | 9.1 | 3.5 | 28 | 27 |
| 73 | 67 | 71 | 69 | 25 | 20.7 | 61 | 69 | 14.4 | 12.5 | 14.4 | 11.1 | 9.1 | 3.6 | 28 | 27 |
| 73 | 68 | 72 | 69 | 25 | 21.7 | 61 | 69 | 14.4 | 12.6 | 14.4 | 11.2 | 9.1 | 3.6 | 29 | 28 |
| 74 | 68 | 72 | 70 | 25 | 21.7 | 62 | 69 | 14.4 | 12.6 | 14.5 | 11.2 | 9.1 | 3.6 | 29 | 28 |
| 74 | 68 | 72 | 70 | 25 | 21.7 | 62 | 69 | 14.5 | 12.6 | 14.6 | 11.2 | 9.1 | 3.6 | 29 | 28 |
| 75 | 69 | 73 | 70 | 25 | 21.7 | 62 | 70 | 14.5 | 12.6 | 14.6 | 11.2 | 9.1 | 3.6 | 29 | 28 |
| 75 | 69 | 73 | 71 | 25 | 21.7 | 63 | 70 | 14.6 | 12.7 | 14.7 | 11.2 | 9.1 | 3.6 | 29 | 28 |
| 75 | 69 | 74 | 71 | 25 | 21.7 | 63 | 70 | 14.6 | 12.7 | 14.8 | 11.3 | 9.2 | 3.6 | 29 | 28 |
| 76 | 70 | 74 | 71 | 26 | 21.7 | 63 | 70 | 14.6 | 12.7 | 14.8 | 11.3 | 9.2 | 3.6 | 29 | 28 |
| 76 | 70 | 75 | 72 | 26 | 21.7 | 64 | 71 | 14.7 | 12.7 | 14.9 | 11.3 | 9.2 | 3.6 | 29 | 28 |

| | | | | | | | |
|-----|-----|-----|-----|-----|------|-----|-----|
| 2.2 | 2.1 | 1.2 | 1.9 | 2.1 | 1.36 | 1.8 | 1.2 |
| 2.2 | 2.1 | 1.2 | 1.9 | 2.1 | 1.36 | 1.8 | 1.2 |
| 2.2 | 2.1 | 1.2 | 1.9 | 2.1 | 1.36 | 1.8 | 1.2 |
| 2.2 | 2.1 | 1.3 | 1.9 | 2.1 | 1.36 | 1.9 | 1.2 |
| 2.2 | 2.1 | 1.3 | 1.9 | 2.1 | 1.36 | 1.9 | 1.2 |
| 2.2 | 2.1 | 1.3 | 1.9 | 2.1 | 1.36 | 1.9 | 1.2 |
| 2.2 | 2.1 | 1.3 | 1.9 | 2.1 | 1.36 | 1.9 | 1.2 |
| 2.2 | 2.2 | 1.3 | 2 | 2.2 | 1.36 | 1.9 | 1.2 |
| 2.2 | 2.2 | 1.4 | 2 | 2.2 | 1.36 | 1.9 | 1.2 |
| 2.2 | 2.2 | 1.4 | 2 | 2.2 | 1.36 | 1.9 | 1.2 |
| 2.2 | 2.2 | 1.4 | 2 | 2.2 | 1.36 | 1.9 | 1.2 |
| 2.3 | 2.2 | 1.4 | 2 | 2.4 | 1.36 | 1.9 | 1.3 |
| 2.4 | 2.4 | 1.4 | 2.1 | 2.8 | 1.56 | 2 | 1.3 |
| 2.5 | 2.6 | 1.4 | 2.2 | 3 | 2.16 | 2 | 1.3 |
| 2.5 | 2.7 | 1.5 | 2.3 | 3 | 2.66 | 2.1 | 1.4 |
| 2.6 | 2.9 | 1.5 | 2.5 | 3 | 2.66 | 2.1 | 1.5 |
| 2.7 | 3 | 1.5 | 2.5 | 3.1 | 2.66 | 2.2 | 1.6 |
| 2.8 | 3 | 1.5 | 2.6 | 3.1 | 2.66 | 2.2 | 1.7 |
| 2.9 | 3 | 1.6 | 2.7 | 3.1 | 2.66 | 2.3 | 1.8 |
| 2.9 | 3 | 1.6 | 2.7 | 3.1 | 2.66 | 2.3 | 1.8 |
| 3 | 3 | 1.6 | 2.7 | 3.1 | 2.66 | 2.3 | 1.9 |
| 3 | 3 | 1.6 | 2.7 | 3.1 | 2.66 | 2.4 | 2 |
| 3 | 3 | 1.7 | 2.7 | 3.1 | 2.66 | 2.4 | 2 |
| 3 | 3 | 1.7 | 2.7 | 3.1 | 2.76 | 2.5 | 2.1 |
| 3 | 3 | 1.7 | 2.7 | 3.1 | 2.76 | 2.5 | 2.1 |
| 3 | 3 | 1.7 | 2.7 | 3.1 | 2.76 | 2.5 | 2.1 |
| 3 | 3.1 | 1.7 | 2.8 | 3.2 | 2.76 | 2.5 | 2.2 |
| 3.1 | 3.2 | 1.8 | 2.8 | 3.5 | 2.76 | 2.6 | 2.2 |
| 3.2 | 3.3 | 1.8 | 2.9 | 3.6 | 2.76 | 2.6 | 2.2 |
| 3.2 | 3.4 | 1.8 | 3 | 3.7 | 2.86 | 2.6 | 2.2 |
| 3.3 | 3.5 | 1.8 | 3 | 3.8 | 2.96 | 2.7 | 2.2 |
| 3.4 | 3.6 | 1.9 | 3.1 | 3.9 | 2.96 | 2.7 | 2.3 |
| 3.5 | 3.7 | 1.9 | 3.2 | 3.9 | 2.96 | 2.7 | 2.3 |
| 3.5 | 3.7 | 1.9 | 3.2 | 3.9 | 2.96 | 2.8 | 2.3 |
| 3.6 | 3.7 | 1.9 | 3.3 | 3.9 | 2.96 | 2.8 | 2.3 |
| 3.6 | 3.7 | 2 | 3.3 | 3.9 | 2.96 | 2.9 | 2.3 |
| 3.7 | 3.7 | 2 | 3.4 | 3.9 | 2.96 | 2.9 | 2.4 |
| 3.7 | 3.7 | 2 | 3.4 | 3.9 | 2.96 | 2.9 | 2.4 |
| 3.7 | 3.7 | 2 | 3.4 | 3.9 | 2.96 | 3 | 2.4 |
| 3.7 | 3.8 | 2.1 | 3.5 | 4.1 | 2.96 | 3 | 2.4 |
| 3.7 | 4 | 2.1 | 3.6 | 4.6 | 2.96 | 3.1 | 2.4 |
| 3.7 | 4.2 | 2.1 | 3.7 | 5.1 | 2.96 | 3.1 | 2.4 |
| 3.7 | 4.4 | 2.2 | 3.9 | 5.2 | 2.96 | 3.2 | 2.4 |
| 3.7 | 4.6 | 2.2 | 4.1 | 5.2 | 2.96 | 3.3 | 2.5 |
| 3.7 | 4.8 | 2.3 | 4.2 | 5.2 | 2.96 | 3.4 | 2.5 |
| 3.7 | 5 | 2.3 | 4.4 | 5.2 | 2.96 | 3.5 | 2.5 |
| 3.7 | 5 | 2.4 | 4.5 | 5.2 | 2.96 | 3.6 | 2.5 |
| 3.7 | 5 | 2.4 | 4.5 | 5.2 | 2.96 | 3.6 | 2.5 |
| 3.7 | 5 | 2.5 | 4.6 | 5.2 | 2.96 | 3.7 | 2.5 |

| | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 843 | 19 | 25 | 19 | 15 | 16 | 21 | 25 | 11 | 9 | 12 | 9 | 6 | 7 | 14 | 16 |
| 844 | 20 | 25 | 20 | 15 | 16 | 21 | 25 | 11 | 9 | 13 | 9 | 7 | 7 | 14 | 17 |
| 845 | 20 | 26 | 20 | 15 | 16 | 22 | 26 | 11 | 10 | 13 | 9 | 7 | 7 | 14 | 17 |
| 846 | 21 | 26 | 21 | 16 | 17 | 23 | 26 | 12 | 10 | 13 | 9 | 7 | 7 | 15 | 18 |
| 847 | 21 | 27 | 21 | 16 | 17 | 23 | 27 | 12 | 10 | 14 | 9 | 7 | 7 | 15 | 18 |
| 848 | 22 | 28 | 22 | 17 | 17 | 24 | 28 | 12 | 10 | 14 | 10 | 7 | 7 | 16 | 18 |
| 849 | 22 | 28 | 22 | 17 | 18 | 24 | 28 | 12 | 10 | 14 | 10 | 7 | 8 | 16 | 19 |
| 850 | 23 | 29 | 23 | 17 | 18 | 25 | 29 | 13 | 11 | 14 | 10 | 8 | 8 | 16 | 19 |
| 851 | 23 | 30 | 23 | 18 | 19 | 25 | 29 | 13 | 11 | 15 | 10 | 8 | 8 | 17 | 20 |
| 852 | 24 | 30 | 24 | 18 | 19 | 26 | 30 | 13 | 11 | 15 | 11 | 8 | 8 | 17 | 20 |
| 853 | 24 | 31 | 24 | 18 | 19 | 26 | 31 | 13 | 11 | 15 | 11 | 8 | 8 | 17 | 20 |
| 854 | 25 | 31 | 25 | 19 | 20 | 27 | 31 | 14 | 12 | 16 | 11 | 8 | 8 | 18 | 21 |
| 855 | 25 | 32 | 25 | 19 | 20 | 27 | 32 | 14 | 12 | 16 | 11 | 8 | 9 | 18 | 21 |
| 856 | 25 | 33 | 26 | 20 | 21 | 28 | 32 | 14 | 12 | 16 | 11 | 8 | 9 | 18 | 21 |
| 857 | 26 | 33 | 26 | 20 | 21 | 28 | 33 | 15 | 12 | 17 | 12 | 9 | 9 | 19 | 22 |
| 858 | 26 | 34 | 27 | 20 | 21 | 29 | 33 | 15 | 13 | 17 | 12 | 9 | 9 | 19 | 22 |
| 859 | 27 | 34 | 27 | 21 | 22 | 29 | 34 | 15 | 13 | 17 | 12 | 9 | 9 | 19 | 22 |
| 860 | 27 | 35 | 28 | 21 | 22 | 30 | 35 | 15 | 13 | 18 | 12 | 9 | 10 | 20 | 23 |
| 861 | 28 | 36 | 28 | 21 | 22 | 30 | 35 | 16 | 13 | 18 | 13 | 9 | 10 | 20 | 23 |
| 862 | 28 | 36 | 29 | 22 | 23 | 31 | 36 | 16 | 14 | 18 | 13 | 10 | 10 | 21 | 24 |
| 863 | 29 | 37 | 29 | 22 | 23 | 31 | 36 | 16 | 14 | 18 | 13 | 10 | 10 | 21 | 24 |
| 864 | 29 | 38 | 29 | 23 | 24 | 32 | 37 | 17 | 14 | 19 | 13 | 10 | 10 | 21 | 24 |
| 865 | 30 | 38 | 30 | 23 | 24 | 32 | 38 | 17 | 14 | 19 | 14 | 10 | 10 | 22 | 25 |
| 866 | 30 | 39 | 30 | 23 | 24 | 33 | 38 | 17 | 14 | 19 | 14 | 10 | 10 | 22 | 25 |
| 867 | 31 | 39 | 31 | 24 | 25 | 33 | 39 | 17 | 15 | 20 | 14 | 10 | 11 | 22 | 26 |
| 868 | 31 | 40 | 31 | 24 | 25 | 34 | 39 | 18 | 15 | 20 | 14 | 10 | 11 | 22 | 26 |
| 869 | 32 | 41 | 32 | 24 | 25 | 35 | 40 | 18 | 15 | 20 | 14 | 11 | 11 | 23 | 27 |
| 870 | 32 | 41 | 32 | 25 | 26 | 35 | 41 | 18 | 15 | 21 | 15 | 11 | 11 | 23 | 27 |
| 871 | 33 | 42 | 33 | 25 | 26 | 36 | 41 | 19 | 16 | 21 | 15 | 11 | 11 | 23 | 27 |
| 872 | 33 | 42 | 33 | 26 | 27 | 36 | 42 | 19 | 16 | 21 | 15 | 11 | 11 | 24 | 28 |
| 873 | 34 | 43 | 34 | 26 | 27 | 37 | 42 | 19 | 16 | 22 | 16 | 11 | 11 | 24 | 28 |
| 874 | 34 | 44 | 34 | 26 | 27 | 37 | 43 | 19 | 16 | 22 | 16 | 11 | 11 | 24 | 28 |
| 875 | 35 | 44 | 35 | 27 | 28 | 38 | 43 | 20 | 17 | 22 | 16 | 12 | 12 | 25 | 29 |
| 876 | 35 | 45 | 35 | 27 | 28 | 38 | 44 | 20 | 17 | 22 | 16 | 12 | 12 | 25 | 29 |
| 877 | 36 | 46 | 36 | 27 | 29 | 39 | 44 | 20 | 17 | 23 | 16 | 12 | 12 | 25 | 30 |
| 878 | 36 | 46 | 36 | 28 | 29 | 39 | 45 | 20 | 17 | 23 | 16 | 12 | 12 | 26 | 30 |
| 879 | 37 | 47 | 37 | 28 | 29 | 40 | 46 | 21 | 17 | 23 | 17 | 12 | 12 | 26 | 30 |
| 880 | 37 | 47 | 37 | 28 | 30 | 40 | 46 | 21 | 18 | 24 | 17 | 12 | 13 | 26 | 31 |
| 881 | 38 | 48 | 38 | 29 | 30 | 41 | 47 | 21 | 18 | 24 | 17 | 13 | 13 | 27 | 31 |
| 882 | 38 | 49 | 38 | 29 | 30 | 41 | 47 | 21 | 18 | 24 | 17 | 13 | 13 | 27 | 31 |
| 883 | 39 | 49 | 39 | 30 | 31 | 42 | 48 | 22 | 18 | 25 | 18 | 13 | 13 | 27 | 32 |
| 884 | 39 | 50 | 39 | 30 | 31 | 42 | 48 | 22 | 18 | 25 | 18 | 13 | 13 | 28 | 32 |
| 885 | 40 | 50 | 40 | 30 | 32 | 43 | 49 | 22 | 19 | 25 | 18 | 13 | 13 | 28 | 32 |
| 886 | 40 | 51 | 40 | 31 | 32 | 43 | 50 | 23 | 19 | 25 | 18 | 13 | 14 | 28 | 33 |
| 887 | 40 | 52 | 41 | 31 | 32 | 44 | 50 | 23 | 19 | 25 | 18 | 14 | 14 | 29 | 33 |
| 888 | 41 | 52 | 41 | 31 | 33 | 44 | 51 | 23 | 20 | 26 | 19 | 14 | 14 | 29 | 34 |
| 889 | 41 | 53 | 42 | 32 | 33 | 45 | 51 | 23 | 20 | 26 | 19 | 14 | 14 | 29 | 34 |
| 890 | 42 | 54 | 42 | 32 | 33 | 45 | 52 | 24 | 20 | 27 | 19 | 14 | 14 | 30 | 34 |

| | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 891 | 48 | 42 | 54 | 43 | 33 | 34 | 46 | 53 | 24 | 20 | 27 | 19 | 14 | 14 | 30 | 35 |
| 892 | 49 | 43 | 55 | 43 | 33 | 34 | 46 | 53 | 24 | 21 | 27 | 20 | 14 | 15 | 30 | 35 |
| 893 | 49 | 43 | 55 | 44 | 33 | 35 | 47 | 54 | 25 | 21 | 28 | 20 | 15 | 15 | 31 | 36 |
| 894 | 50 | 44 | 56 | 44 | 34 | 35 | 47 | 54 | 25 | 21 | 28 | 20 | 15 | 15 | 31 | 36 |
| 895 | 51 | 44 | 57 | 44 | 34 | 35 | 48 | 55 | 25 | 21 | 28 | 20 | 15 | 15 | 32 | 36 |
| 896 | 51 | 45 | 57 | 45 | 34 | 36 | 48 | 56 | 25 | 21 | 28 | 20 | 15 | 15 | 32 | 37 |
| 897 | 52 | 45 | 58 | 45 | 35 | 36 | 49 | 56 | 26 | 22 | 29 | 21 | 15 | 15 | 32 | 37 |
| 898 | 52 | 46 | 58 | 46 | 35 | 37 | 50 | 57 | 26 | 22 | 29 | 21 | 15 | 16 | 33 | 38 |
| 899 | 53 | 46 | 59 | 46 | 36 | 37 | 50 | 57 | 26 | 22 | 29 | 21 | 16 | 16 | 33 | 38 |
| 900 | 53 | 47 | 60 | 47 | 36 | 37 | 51 | 58 | 26 | 22 | 30 | 21 | 16 | 16 | 33 | 38 |
| 901 | 54 | 47 | 60 | 47 | 36 | 38 | 51 | 59 | 27 | 23 | 30 | 22 | 16 | 16 | 34 | 39 |
| 902 | 54 | 48 | 61 | 48 | 37 | 38 | 52 | 59 | 27 | 23 | 30 | 22 | 16 | 16 | 34 | 39 |
| 903 | 55 | 48 | 62 | 48 | 37 | 38 | 52 | 60 | 27 | 23 | 31 | 22 | 16 | 16 | 34 | 40 |
| 904 | 56 | 49 | 62 | 49 | 37 | 39 | 53 | 60 | 28 | 23 | 31 | 22 | 16 | 17 | 35 | 40 |
| 905 | 56 | 49 | 63 | 49 | 38 | 39 | 53 | 61 | 28 | 24 | 31 | 23 | 17 | 17 | 35 | 40 |
| 906 | 57 | 50 | 63 | 50 | 38 | 40 | 54 | 61 | 28 | 24 | 32 | 23 | 17 | 17 | 35 | 41 |
| 907 | 57 | 50 | 64 | 50 | 39 | 40 | 54 | 62 | 28 | 24 | 32 | 23 | 17 | 17 | 36 | 41 |
| 908 | 58 | 51 | 65 | 51 | 39 | 40 | 55 | 62 | 29 | 24 | 32 | 23 | 17 | 17 | 36 | 41 |
| 909 | 58 | 51 | 65 | 51 | 39 | 41 | 55 | 63 | 29 | 24 | 32 | 23 | 17 | 17 | 36 | 42 |
| 910 | 59 | 52 | 66 | 52 | 40 | 41 | 56 | 64 | 29 | 25 | 33 | 24 | 17 | 18 | 37 | 42 |
| 911 | 59 | 52 | 66 | 52 | 40 | 41 | 56 | 64 | 30 | 25 | 33 | 24 | 17 | 18 | 37 | 43 |
| 912 | 60 | 53 | 67 | 53 | 40 | 42 | 57 | 65 | 30 | 25 | 33 | 24 | 18 | 18 | 37 | 43 |
| 913 | 60 | 53 | 68 | 53 | 41 | 43 | 57 | 65 | 30 | 25 | 34 | 24 | 18 | 18 | 38 | 43 |
| 914 | 61 | 53 | 68 | 54 | 41 | 43 | 58 | 66 | 30 | 26 | 34 | 25 | 18 | 18 | 38 | 44 |
| 915 | 62 | 54 | 69 | 54 | 42 | 43 | 58 | 66 | 31 | 26 | 34 | 25 | 18 | 18 | 38 | 44 |
| 916 | 62 | 54 | 70 | 55 | 42 | 43 | 59 | 67 | 31 | 26 | 35 | 25 | 18 | 19 | 39 | 44 |
| 917 | 63 | 55 | 70 | 55 | 42 | 44 | 59 | 67 | 31 | 26 | 35 | 25 | 18 | 19 | 39 | 45 |
| 918 | 63 | 55 | 71 | 56 | 43 | 44 | 60 | 68 | 31 | 27 | 35 | 25 | 19 | 19 | 39 | 45 |
| 919 | 64 | 56 | 71 | 56 | 43 | 44 | 60 | 68 | 32 | 27 | 35 | 26 | 19 | 19 | 40 | 45 |
| 920 | 64 | 56 | 72 | 57 | 43 | 45 | 61 | 69 | 32 | 27 | 36 | 26 | 19 | 19 | 40 | 46 |
| 921 | 65 | 57 | 73 | 57 | 44 | 45 | 61 | 69 | 32 | 27 | 36 | 26 | 19 | 19 | 40 | 46 |
| 922 | 65 | 57 | 73 | 58 | 44 | 46 | 62 | 70 | 33 | 27 | 36 | 26 | 19 | 20 | 41 | 46 |
| 923 | 66 | 58 | 74 | 58 | 45 | 46 | 62 | 71 | 33 | 28 | 37 | 27 | 19 | 20 | 41 | 47 |
| 924 | 66 | 58 | 74 | 59 | 45 | 46 | 63 | 71 | 33 | 28 | 37 | 27 | 20 | 20 | 41 | 47 |
| 925 | 67 | 59 | 75 | 59 | 45 | 47 | 63 | 72 | 33 | 28 | 37 | 27 | 20 | 20 | 42 | 47 |
| 926 | 68 | 59 | 76 | 60 | 46 | 47 | 64 | 72 | 34 | 28 | 38 | 27 | 20 | 20 | 42 | 48 |
| 927 | 68 | 60 | 76 | 60 | 46 | 47 | 64 | 73 | 34 | 29 | 38 | 27 | 20 | 20 | 42 | 48 |
| 928 | 69 | 60 | 77 | 60 | 46 | 48 | 65 | 73 | 34 | 29 | 38 | 28 | 20 | 21 | 43 | 49 |
| 929 | 69 | 61 | 78 | 61 | 47 | 48 | 66 | 74 | 34 | 29 | 38 | 28 | 20 | 21 | 43 | 49 |
| 930 | 70 | 61 | 78 | 61 | 47 | 49 | 66 | 74 | 35 | 29 | 39 | 28 | 21 | 21 | 43 | 49 |
| 931 | 70 | 62 | 79 | 62 | 48 | 49 | 67 | 75 | 35 | 30 | 39 | 28 | 21 | 21 | 44 | 50 |
| 932 | 71 | 62 | 79 | 62 | 48 | 49 | 67 | 76 | 35 | 30 | 39 | 29 | 21 | 21 | 44 | 50 |
| 933 | 71 | 63 | 80 | 63 | 48 | 50 | 67 | 76 | 36 | 30 | 40 | 29 | 21 | 21 | 44 | 50 |
| 934 | 72 | 63 | 81 | 63 | 49 | 50 | 68 | 77 | 36 | 30 | 40 | 29 | 21 | 22 | 45 | 51 |
| 935 | 72 | 64 | 81 | 64 | 49 | 50 | 68 | 77 | 36 | 31 | 40 | 29 | 21 | 22 | 45 | 51 |
| 936 | 73 | 64 | 82 | 64 | 49 | 51 | 69 | 78 | 36 | 31 | 41 | 29 | 22 | 22 | 45 | 52 |
| 937 | 74 | 65 | 82 | 65 | 50 | 51 | 69 | 78 | 37 | 31 | 41 | 30 | 22 | 22 | 46 | 52 |
| 938 | 74 | 65 | 83 | 65 | 50 | 52 | 70 | 79 | 37 | 31 | 41 | 30 | 22 | 22 | 46 | 52 |

| | | | | | | | | | | | | | | | | |
|-----|-----|----|-----|----|----|----|----|-----|----|----|----|----|----|----|----|----|
| 939 | 75 | 65 | 84 | 66 | 50 | 52 | 70 | 79 | 37 | 31 | 42 | 30 | 22 | 22 | 46 | 53 |
| 940 | 75 | 66 | 84 | 66 | 51 | 52 | 71 | 80 | 38 | 32 | 42 | 30 | 22 | 22 | 47 | 53 |
| 941 | 76 | 66 | 85 | 67 | 51 | 53 | 72 | 81 | 38 | 32 | 42 | 31 | 22 | 23 | 47 | 53 |
| 942 | 76 | 67 | 85 | 67 | 52 | 53 | 72 | 81 | 38 | 32 | 42 | 31 | 22 | 23 | 48 | 54 |
| 943 | 77 | 67 | 86 | 68 | 52 | 53 | 73 | 82 | 38 | 32 | 43 | 31 | 23 | 23 | 48 | 54 |
| 944 | 77 | 68 | 87 | 68 | 54 | 54 | 73 | 82 | 39 | 33 | 43 | 31 | 23 | 23 | 49 | 55 |
| 945 | 78 | 68 | 87 | 69 | 53 | 54 | 74 | 83 | 39 | 33 | 43 | 32 | 23 | 23 | 49 | 55 |
| 946 | 78 | 69 | 88 | 69 | 52 | 55 | 74 | 83 | 39 | 33 | 44 | 32 | 23 | 23 | 49 | 55 |
| 947 | 79 | 69 | 88 | 69 | 53 | 55 | 74 | 84 | 39 | 33 | 44 | 32 | 23 | 24 | 49 | 55 |
| 948 | 79 | 69 | 89 | 70 | 53 | 55 | 74 | 84 | 40 | 34 | 44 | 32 | 23 | 24 | 50 | 56 |
| 949 | 80 | 70 | 89 | 70 | 53 | 56 | 75 | 85 | 40 | 34 | 45 | 32 | 24 | 24 | 50 | 56 |
| 850 | 80 | 70 | 90 | 71 | 54 | 56 | 75 | 85 | 40 | 34 | 45 | 33 | 24 | 24 | 50 | 56 |
| 851 | 81 | 71 | 90 | 71 | 54 | 56 | 76 | 86 | 41 | 34 | 45 | 33 | 24 | 24 | 51 | 57 |
| 852 | 81 | 71 | 91 | 71 | 54 | 57 | 76 | 86 | 41 | 34 | 45 | 33 | 24 | 24 | 51 | 57 |
| 853 | 82 | 72 | 91 | 72 | 55 | 57 | 76 | 87 | 41 | 35 | 46 | 33 | 24 | 25 | 51 | 57 |
| 854 | 82 | 72 | 92 | 72 | 55 | 58 | 77 | 87 | 41 | 35 | 46 | 34 | 24 | 25 | 52 | 58 |
| 855 | 83 | 72 | 93 | 73 | 55 | 58 | 77 | 88 | 42 | 35 | 46 | 34 | 24 | 25 | 52 | 58 |
| 856 | 83 | 73 | 93 | 73 | 56 | 58 | 78 | 88 | 42 | 35 | 47 | 34 | 24 | 25 | 52 | 58 |
| 857 | 84 | 73 | 94 | 74 | 56 | 59 | 78 | 89 | 42 | 36 | 47 | 34 | 25 | 25 | 53 | 59 |
| 858 | 84 | 74 | 94 | 74 | 57 | 59 | 79 | 89 | 42 | 36 | 47 | 34 | 25 | 25 | 53 | 59 |
| 859 | 85 | 74 | 95 | 75 | 57 | 59 | 80 | 90 | 43 | 36 | 48 | 35 | 25 | 26 | 53 | 60 |
| 860 | 85 | 75 | 96 | 75 | 57 | 60 | 80 | 91 | 43 | 36 | 48 | 35 | 25 | 26 | 54 | 60 |
| 861 | 86 | 75 | 96 | 76 | 58 | 60 | 81 | 91 | 43 | 36 | 48 | 35 | 25 | 26 | 54 | 60 |
| 862 | 86 | 76 | 97 | 76 | 58 | 61 | 81 | 92 | 44 | 37 | 49 | 35 | 25 | 26 | 54 | 61 |
| 863 | 87 | 76 | 98 | 77 | 58 | 61 | 82 | 92 | 44 | 37 | 49 | 36 | 26 | 26 | 55 | 61 |
| 864 | 88 | 77 | 98 | 77 | 59 | 61 | 82 | 93 | 44 | 37 | 49 | 36 | 26 | 26 | 55 | 61 |
| 865 | 88 | 77 | 99 | 78 | 59 | 62 | 83 | 93 | 44 | 37 | 49 | 36 | 26 | 27 | 55 | 62 |
| 866 | 89 | 78 | 99 | 78 | 60 | 62 | 83 | 94 | 45 | 38 | 50 | 36 | 26 | 27 | 56 | 62 |
| 867 | 89 | 78 | 100 | 79 | 60 | 62 | 84 | 94 | 45 | 38 | 50 | 36 | 26 | 27 | 56 | 62 |
| 868 | 90 | 79 | 101 | 79 | 60 | 63 | 84 | 95 | 45 | 38 | 50 | 37 | 26 | 27 | 56 | 63 |
| 869 | 90 | 79 | 101 | 80 | 61 | 63 | 85 | 95 | 46 | 39 | 51 | 37 | 27 | 27 | 57 | 63 |
| 870 | 91 | 80 | 102 | 80 | 61 | 64 | 85 | 96 | 46 | 39 | 51 | 37 | 27 | 27 | 57 | 63 |
| 871 | 91 | 80 | 102 | 81 | 61 | 64 | 86 | 96 | 46 | 39 | 51 | 37 | 27 | 27 | 57 | 63 |
| 872 | 92 | 81 | 103 | 81 | 61 | 64 | 86 | 97 | 46 | 39 | 51 | 37 | 27 | 28 | 57 | 64 |
| 873 | 93 | 81 | 104 | 82 | 62 | 65 | 87 | 97 | 47 | 39 | 52 | 38 | 27 | 28 | 58 | 64 |
| 874 | 93 | 82 | 104 | 82 | 63 | 65 | 87 | 98 | 47 | 39 | 52 | 38 | 27 | 28 | 58 | 64 |
| 875 | 94 | 82 | 105 | 83 | 63 | 65 | 88 | 98 | 47 | 39 | 52 | 38 | 28 | 28 | 59 | 65 |
| 876 | 94 | 83 | 106 | 83 | 63 | 66 | 88 | 99 | 47 | 40 | 53 | 38 | 28 | 28 | 59 | 65 |
| 877 | 95 | 83 | 106 | 84 | 64 | 66 | 89 | 99 | 48 | 40 | 53 | 39 | 28 | 28 | 59 | 66 |
| 878 | 95 | 84 | 107 | 84 | 64 | 67 | 89 | 100 | 48 | 40 | 53 | 39 | 28 | 29 | 60 | 66 |
| 879 | 96 | 84 | 107 | 85 | 64 | 67 | 90 | 100 | 48 | 41 | 54 | 39 | 28 | 29 | 60 | 66 |
| 880 | 96 | 85 | 108 | 85 | 65 | 67 | 90 | 101 | 49 | 41 | 54 | 39 | 28 | 29 | 60 | 67 |
| 881 | 97 | 85 | 109 | 85 | 65 | 68 | 91 | 101 | 49 | 41 | 54 | 40 | 29 | 29 | 61 | 67 |
| 882 | 97 | 86 | 109 | 86 | 66 | 68 | 92 | 102 | 49 | 41 | 55 | 40 | 29 | 29 | 61 | 67 |
| 883 | 98 | 86 | 110 | 86 | 66 | 68 | 92 | 102 | 49 | 42 | 55 | 40 | 29 | 30 | 61 | 67 |
| 884 | 99 | 87 | 110 | 87 | 66 | 69 | 93 | 103 | 50 | 42 | 55 | 40 | 29 | 30 | 62 | 68 |
| 885 | 99 | 87 | 111 | 87 | 67 | 69 | 93 | 103 | 50 | 42 | 55 | 40 | 29 | 30 | 62 | 68 |
| 886 | 100 | 87 | 112 | 88 | 67 | 70 | 94 | 104 | 50 | 42 | 56 | 41 | 29 | 30 | 62 | 68 |



| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|----|----|
| 1.6 | 1.5 | 1.6 | 1.4 | 1.2 | 1.2 | 3.1 | 3.6 | 15 | 12 | 18 | 12 | 4.1 | 4.4 | 12 | 15 |
| 1.7 | 1.5 | 1.7 | 1.5 | 1.2 | 1.2 | 3.2 | 3.7 | 15 | 12 | 18 | 12 | 4.2 | 4.5 | 12 | 16 |
| 1.7 | 1.5 | 1.7 | 1.5 | 1.2 | 1.2 | 3.3 | 3.8 | 15 | 12 | 18 | 12 | 4.3 | 4.7 | 13 | 16 |
| 1.7 | 1.6 | 1.8 | 1.5 | 1.2 | 1.3 | 3.3 | 3.9 | 16 | 13 | 19 | 13 | 4.4 | 4.8 | 13 | 17 |
| 1.8 | 1.6 | 1.8 | 1.6 | 1.3 | 1.3 | 3.4 | 3.9 | 16 | 13 | 19 | 13 | 4.6 | 4.9 | 13 | 17 |
| 1.8 | 1.6 | 1.8 | 1.6 | 1.3 | 1.3 | 3.5 | 4 | 17 | 13 | 20 | 13 | 4.7 | 5 | 14 | 17 |
| 1.9 | 1.7 | 1.9 | 1.6 | 1.3 | 1.3 | 3.6 | 4.1 | 17 | 14 | 20 | 14 | 4.8 | 5.1 | 14 | 18 |
| 1.9 | 1.7 | 1.9 | 1.7 | 1.4 | 1.4 | 3.7 | 4.2 | 17 | 14 | 21 | 14 | 4.9 | 5.2 | 14 | 18 |
| 1.8 | 1.8 | 2 | 1.7 | 1.4 | 1.4 | 3.7 | 4.3 | 18 | 14 | 21 | 14 | 5 | 5.3 | 15 | 19 |
| 2 | 1.8 | 2 | 1.7 | 1.4 | 1.4 | 3.8 | 4.4 | 18 | 15 | 22 | 14 | 5.1 | 5.4 | 15 | 19 |
| 2.1 | 1.9 | 2.1 | 1.8 | 1.5 | 1.5 | 3.9 | 4.5 | 18 | 15 | 22 | 15 | 5.2 | 5.5 | 15 | 19 |
| 2.1 | 1.9 | 2.1 | 1.9 | 1.5 | 1.5 | 4 | 4.6 | 19 | 15 | 23 | 15 | 5.3 | 5.7 | 15 | 20 |
| 2.1 | 1.9 | 2.2 | 1.9 | 1.5 | 1.6 | 4.1 | 4.7 | 19 | 15 | 23 | 15 | 5.4 | 5.8 | 16 | 20 |
| 2.2 | 2 | 2.2 | 1.9 | 1.6 | 1.6 | 4.1 | 4.8 | 20 | 16 | 24 | 16 | 5.5 | 5.9 | 16 | 20 |
| 2.2 | 2 | 2.3 | 2 | 1.6 | 1.6 | 4.2 | 4.8 | 20 | 16 | 24 | 16 | 5.6 | 6 | 16 | 21 |
| 2.3 | 2.1 | 2.3 | 2 | 1.6 | 1.6 | 4.3 | 4.9 | 20 | 16 | 24 | 16 | 5.7 | 6.1 | 17 | 21 |
| 2.3 | 2.1 | 2.3 | 2 | 1.7 | 1.7 | 4.4 | 5 | 21 | 17 | 25 | 17 | 5.8 | 6.2 | 17 | 21 |
| 2.3 | 2.1 | 2.3 | 2 | 1.7 | 1.7 | 4.5 | 5.1 | 21 | 17 | 25 | 17 | 5.9 | 6.3 | 17 | 22 |
| 2.3 | 2.1 | 2.4 | 2.1 | 1.7 | 1.7 | 4.5 | 5.2 | 21 | 17 | 26 | 17 | 6 | 6.4 | 18 | 22 |
| 2.4 | 2.2 | 2.4 | 2.1 | 1.7 | 1.7 | 4.6 | 5.3 | 22 | 17 | 26 | 17 | 6.1 | 6.5 | 18 | 22 |
| 2.4 | 2.2 | 2.5 | 2.1 | 1.7 | 1.8 | 4.7 | 5.4 | 22 | 18 | 27 | 18 | 6.2 | 6.6 | 18 | 23 |
| 2.5 | 2.2 | 2.5 | 2.2 | 1.8 | 1.8 | 4.8 | 5.5 | 23 | 18 | 27 | 18 | 6.3 | 6.8 | 18 | 23 |
| 2.5 | 2.3 | 2.5 | 2.2 | 1.8 | 1.8 | 4.9 | 5.6 | 23 | 18 | 28 | 18 | 6.4 | 6.9 | 19 | 24 |
| 2.6 | 2.3 | 2.6 | 2.3 | 1.8 | 1.8 | 4.9 | 5.6 | 23 | 19 | 29 | 19 | 6.5 | 7 | 19 | 24 |
| 2.6 | 2.4 | 2.6 | 2.3 | 1.9 | 1.9 | 5 | 5.7 | 24 | 19 | 29 | 19 | 6.6 | 7.1 | 19 | 24 |
| 2.6 | 2.4 | 2.7 | 2.3 | 1.9 | 1.9 | 5.1 | 5.8 | 24 | 19 | 29 | 19 | 6.7 | 7.2 | 20 | 25 |
| 2.7 | 2.4 | 2.7 | 2.4 | 1.9 | 1.9 | 5.2 | 5.9 | 24 | 20 | 30 | 19 | 6.9 | 7.3 | 20 | 25 |
| 2.7 | 2.5 | 2.8 | 2.4 | 1.9 | 2 | 5.3 | 6 | 25 | 20 | 30 | 20 | 7 | 7.4 | 20 | 25 |
| 2.8 | 2.5 | 2.8 | 2.4 | 2 | 2 | 5.3 | 6.1 | 25 | 20 | 31 | 20 | 7.1 | 7.5 | 21 | 26 |
| 2.8 | 2.5 | 2.8 | 2.5 | 2 | 2 | 5.4 | 6.2 | 25 | 20 | 31 | 20 | 7.2 | 7.6 | 21 | 26 |
| 2.8 | 2.6 | 2.9 | 2.5 | 2 | 2.1 | 5.5 | 6.3 | 26 | 21 | 31 | 21 | 7.3 | 7.7 | 21 | 27 |
| 2.9 | 2.6 | 2.9 | 2.5 | 2.1 | 2.1 | 5.6 | 6.4 | 26 | 21 | 32 | 21 | 7.4 | 7.8 | 21 | 27 |
| 2.9 | 2.7 | 3 | 2.6 | 2.1 | 2.1 | 5.7 | 6.4 | 27 | 21 | 32 | 21 | 7.5 | 8 | 22 | 27 |
| 3 | 2.7 | 3 | 2.6 | 2.1 | 2.1 | 5.7 | 6.5 | 27 | 22 | 33 | 22 | 7.6 | 8.1 | 22 | 28 |
| 3 | 2.7 | 3 | 2.7 | 2.2 | 2.2 | 5.8 | 6.6 | 27 | 22 | 33 | 22 | 7.7 | 8.2 | 22 | 28 |
| 3 | 2.8 | 3.1 | 2.7 | 2.2 | 2.2 | 5.9 | 6.7 | 28 | 22 | 34 | 22 | 7.8 | 8.3 | 23 | 29 |
| 3.1 | 2.8 | 3.1 | 2.7 | 2.2 | 2.2 | 6 | 6.8 | 28 | 23 | 34 | 22 | 7.9 | 8.4 | 23 | 29 |
| 3.1 | 2.8 | 3.2 | 2.8 | 2.2 | 2.3 | 6.1 | 6.9 | 28 | 23 | 35 | 23 | 8 | 8.5 | 23 | 29 |
| 3.2 | 2.9 | 3.2 | 2.8 | 2.3 | 2.3 | 6.1 | 7 | 29 | 23 | 35 | 23 | 8.1 | 8.6 | 24 | 29 |
| 3.2 | 2.9 | 3.2 | 2.8 | 2.3 | 2.3 | 6.2 | 7.1 | 29 | 23 | 36 | 23 | 8.2 | 8.7 | 24 | 30 |
| 3.2 | 3 | 3.3 | 2.9 | 2.3 | 2.4 | 6.3 | 7.1 | 30 | 24 | 36 | 24 | 8.3 | 8.8 | 24 | 30 |
| 3.3 | 3 | 3.3 | 2.9 | 2.4 | 2.4 | 6.4 | 7.2 | 30 | 24 | 37 | 24 | 8.4 | 8.9 | 24 | 30 |
| 3.3 | 3 | 3.4 | 3 | 2.4 | 2.4 | 6.5 | 7.3 | 30 | 24 | 37 | 24 | 8.5 | 9 | 25 | 31 |
| 3.4 | 3.1 | 3.4 | 3 | 2.4 | 2.4 | 6.5 | 7.4 | 31 | 25 | 37 | 25 | 8.6 | 9.1 | 25 | 31 |
| 3.4 | 3.1 | 3.5 | 3 | 2.4 | 2.5 | 6.6 | 7.5 | 31 | 25 | 38 | 25 | 8.7 | 9.3 | 25 | 31 |
| 3.4 | 3.1 | 3.5 | 3.1 | 2.5 | 2.5 | 6.7 | 7.6 | 31 | 25 | 38 | 25 | 8.8 | 9.4 | 26 | 32 |
| 3.5 | 3.2 | 3.5 | 3.1 | 2.5 | 2.5 | 6.8 | 7.7 | 32 | 26 | 39 | 25 | 8.9 | 9.5 | 26 | 32 |
| 3.5 | 3.2 | 3.6 | 3.1 | 2.5 | 2.6 | 6.9 | 7.8 | 32 | 26 | 39 | 26 | 9.1 | 9.6 | 26 | 33 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|------|----|----|----|----|------|------|----|----|
| 3.6 | 3.3 | 3.6 | 3.2 | 2.6 | 2.6 | 7 | 7.8 | 33 | 26 | 40 | 26 | 9.2 | 9.7 | 27 | 33 |
| 3.6 | 3.3 | 3.7 | 3.2 | 2.6 | 2.6 | 7 | 7.9 | 33 | 26 | 40 | 26 | 9.3 | 9.8 | 27 | 33 |
| 3.6 | 3.3 | 3.7 | 3.2 | 2.6 | 2.6 | 7.1 | 8 | 33 | 27 | 41 | 27 | 9.4 | 9.9 | 27 | 34 |
| 3.7 | 3.4 | 3.7 | 3.3 | 2.7 | 2.7 | 7.2 | 8.1 | 33 | 27 | 41 | 27 | 9.5 | 10 | 27 | 34 |
| 3.7 | 3.4 | 3.8 | 3.3 | 2.7 | 2.7 | 7.3 | 8.2 | 34 | 27 | 42 | 27 | 9.6 | 10.1 | 28 | 34 |
| 3.8 | 3.4 | 3.8 | 3.4 | 2.7 | 2.7 | 7.4 | 8.3 | 34 | 28 | 42 | 27 | 9.7 | 10.2 | 28 | 34 |
| 3.8 | 3.5 | 3.9 | 3.4 | 2.7 | 2.8 | 7.4 | 8.4 | 35 | 28 | 43 | 28 | 9.8 | 10.3 | 28 | 35 |
| 3.8 | 3.5 | 3.9 | 3.4 | 2.8 | 2.8 | 7.5 | 8.5 | 35 | 28 | 43 | 28 | 9.9 | 10.4 | 29 | 36 |
| 3.9 | 3.6 | 4 | 3.5 | 2.8 | 2.8 | 7.5 | 8.5 | 36 | 28 | 43 | 28 | 10 | 10.6 | 29 | 36 |
| 3.9 | 3.6 | 4 | 3.5 | 2.8 | 2.9 | 7.7 | 8.6 | 36 | 29 | 44 | 29 | 10.1 | 10.7 | 29 | 36 |
| 4 | 3.6 | 4 | 3.5 | 2.9 | 2.9 | 7.8 | 8.7 | 36 | 29 | 44 | 29 | 10.2 | 10.8 | 30 | 37 |
| 4 | 3.7 | 4.1 | 3.6 | 2.9 | 2.9 | 7.8 | 8.8 | 37 | 29 | 45 | 29 | 10.3 | 10.9 | 30 | 37 |
| 4.1 | 3.7 | 4.1 | 3.6 | 2.9 | 2.9 | 7.9 | 8.9 | 37 | 30 | 45 | 30 | 10.4 | 11 | 30 | 37 |
| 4.1 | 3.8 | 4.2 | 3.7 | 2.9 | 3 | 8 | 9 | 37 | 30 | 46 | 30 | 10.5 | 11.1 | 30 | 38 |
| 4.1 | 3.8 | 4.2 | 3.7 | 3 | 3 | 8.1 | 9.1 | 38 | 30 | 46 | 30 | 10.6 | 11.2 | 31 | 38 |
| 4.2 | 3.8 | 4.2 | 3.7 | 3 | 3 | 8.2 | 9.2 | 38 | 31 | 47 | 30 | 10.7 | 11.3 | 31 | 38 |
| 4.2 | 3.9 | 4.3 | 3.8 | 3 | 3.1 | 8.2 | 9.2 | 39 | 31 | 47 | 31 | 10.8 | 11.4 | 31 | 39 |
| 4.3 | 3.9 | 4.3 | 3.8 | 3.1 | 3.1 | 8.3 | 9.3 | 39 | 31 | 48 | 31 | 10.9 | 11.5 | 32 | 39 |
| 4.3 | 3.9 | 4.4 | 3.8 | 3.1 | 3.1 | 8.4 | 9.4 | 39 | 31 | 48 | 31 | 11 | 11.7 | 32 | 39 |
| 4.3 | 4 | 4.4 | 3.9 | 3.1 | 3.1 | 8.5 | 9.5 | 40 | 32 | 49 | 32 | 11.1 | 11.8 | 32 | 40 |
| 4.4 | 4 | 4.4 | 3.9 | 3.2 | 3.2 | 8.6 | 9.6 | 40 | 32 | 49 | 32 | 11.3 | 11.9 | 33 | 40 |
| 4.4 | 4.1 | 4.5 | 4 | 3.2 | 3.2 | 8.7 | 9.7 | 40 | 32 | 50 | 32 | 11.4 | 12 | 33 | 40 |
| 4.5 | 4.1 | 4.5 | 4 | 3.2 | 3.2 | 8.7 | 9.8 | 41 | 33 | 50 | 32 | 11.5 | 12.1 | 33 | 41 |
| 4.5 | 4.1 | 4.6 | 4 | 3.2 | 3.3 | 8.8 | 9.9 | 41 | 33 | 50 | 33 | 11.6 | 12.2 | 33 | 41 |
| 4.5 | 4.2 | 4.6 | 4 | 3.3 | 3.3 | 8.9 | 9.9 | 42 | 33 | 51 | 33 | 11.7 | 12.3 | 34 | 41 |
| 4.6 | 4.2 | 4.7 | 4.1 | 3.3 | 3.3 | 9 | 10 | 42 | 34 | 51 | 33 | 11.8 | 12.4 | 34 | 42 |
| 4.6 | 4.2 | 4.7 | 4.1 | 3.3 | 3.4 | 9.1 | 10.1 | 42 | 34 | 52 | 34 | 11.9 | 12.5 | 34 | 42 |
| 4.7 | 4.3 | 4.7 | 4.2 | 3.4 | 3.4 | 9.1 | 10.2 | 43 | 34 | 52 | 34 | 12 | 12.6 | 35 | 42 |
| 4.7 | 4.3 | 4.8 | 4.2 | 3.4 | 3.4 | 9.2 | 10.3 | 43 | 34 | 53 | 34 | 12.1 | 12.7 | 35 | 43 |
| 4.7 | 4.4 | 4.8 | 4.2 | 3.4 | 3.4 | 9.3 | 10.4 | 43 | 35 | 53 | 35 | 12.2 | 12.8 | 35 | 43 |
| 4.8 | 4.4 | 4.9 | 4.3 | 3.4 | 3.5 | 9.4 | 10.5 | 44 | 35 | 54 | 35 | 12.3 | 12.9 | 36 | 43 |
| 4.8 | 4.4 | 4.9 | 4.3 | 3.5 | 3.5 | 9.5 | 10.5 | 44 | 35 | 54 | 35 | 12.4 | 13 | 36 | 44 |
| 4.9 | 4.5 | 4.9 | 4.3 | 3.5 | 3.5 | 9.5 | 10.6 | 44 | 36 | 55 | 35 | 12.5 | 13.2 | 36 | 44 |
| 4.9 | 4.5 | 5 | 4.4 | 3.5 | 3.6 | 9.6 | 10.7 | 45 | 36 | 55 | 36 | 12.6 | 13.3 | 36 | 44 |
| 4.9 | 4.5 | 5 | 4.4 | 3.6 | 3.6 | 9.7 | 10.8 | 45 | 36 | 56 | 36 | 12.7 | 13.4 | 37 | 45 |
| 5 | 4.6 | 5.1 | 4.4 | 3.6 | 3.6 | 9.8 | 10.9 | 46 | 36 | 56 | 36 | 12.8 | 13.5 | 37 | 45 |
| 5 | 4.6 | 5.1 | 4.5 | 3.6 | 3.7 | 9.9 | 11 | 46 | 37 | 56 | 37 | 12.9 | 13.6 | 37 | 45 |
| 5.1 | 4.7 | 5.1 | 4.5 | 3.6 | 3.7 | 9.9 | 11.1 | 46 | 37 | 57 | 37 | 13 | 13.7 | 38 | 46 |
| 5.1 | 4.7 | 5.2 | 4.6 | 3.7 | 3.7 | 10 | 11.1 | 47 | 37 | 57 | 37 | 13.1 | 13.8 | 38 | 46 |
| 5.2 | 4.7 | 5.2 | 4.6 | 3.7 | 3.7 | 10.1 | 11.2 | 47 | 38 | 58 | 38 | 13.2 | 13.9 | 38 | 46 |
| 5.2 | 4.8 | 5.3 | 4.6 | 3.7 | 3.8 | 10.2 | 11.3 | 47 | 38 | 58 | 38 | 13.3 | 14 | 39 | 47 |
| 5.2 | 4.8 | 5.3 | 4.7 | 3.8 | 3.8 | 10.3 | 11.4 | 48 | 38 | 59 | 38 | 13.5 | 14.1 | 39 | 47 |
| 5.3 | 4.8 | 5.4 | 4.7 | 3.8 | 3.8 | 10.4 | 11.5 | 48 | 39 | 59 | 38 | 13.6 | 14.1 | 39 | 47 |
| 5.3 | 4.9 | 5.4 | 4.7 | 3.8 | 3.9 | 10.4 | 11.6 | 49 | 39 | 60 | 39 | 13.7 | 14.1 | 39 | 48 |
| 5.4 | 4.9 | 5.4 | 4.8 | 3.9 | 3.9 | 10.5 | 11.7 | 49 | 39 | 60 | 39 | 13.8 | 14.1 | 40 | 48 |
| 5.4 | 5 | 5.5 | 4.8 | 3.9 | 3.9 | 10.6 | 11.7 | 49 | 39 | 61 | 39 | 13.9 | 14.1 | 40 | 48 |
| 5.4 | 5 | 5.5 | 4.9 | 3.9 | 3.9 | 10.7 | 11.8 | 50 | 40 | 61 | 40 | 14 | 15.1 | 40 | 49 |
| 5.5 | 5.5 | 5.6 | 4.9 | 3.9 | 4 | 10.8 | 11.9 | 50 | 40 | 62 | 40 | 14.1 | 15.1 | 41 | 49 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|------|----|----|----|----|------|------|----|----|
| 5.5 | 5.1 | 5.6 | 4.9 | 4 | 4 | 10.8 | 12 | 50 | 40 | 62 | 40 | 14.2 | 15.1 | 41 | 49 |
| 5.6 | 5.1 | 5.6 | 5 | 4 | 4 | 10.9 | 12.1 | 51 | 41 | 62 | 40 | 14.3 | 15.1 | 41 | 50 |
| 5.6 | 5.2 | 5.7 | 5 | 4 | 4.1 | 11 | 12.2 | 51 | 41 | 63 | 41 | 14.4 | 15.1 | 42 | 50 |
| 5.6 | 5.2 | 5.7 | 5 | 4.1 | 4.1 | 11.1 | 12.2 | 52 | 41 | 63 | 41 | 14.5 | 15.1 | 42 | 50 |
| 5.7 | 5.2 | 5.8 | 5.1 | 4.1 | 4.1 | 11.2 | 12.3 | 52 | 42 | 64 | 41 | 14.6 | 15.1 | 42 | 51 |
| 5.7 | 5.3 | 5.8 | 5.1 | 4.1 | 4.2 | 11.2 | 12.4 | 52 | 42 | 64 | 42 | 14.7 | 15.1 | 42 | 51 |
| 5.8 | 5.3 | 5.8 | 5.1 | 4.1 | 4.2 | 11.3 | 12.5 | 53 | 42 | 65 | 42 | 14.8 | 15.1 | 43 | 51 |
| 5.8 | 5.3 | 5.9 | 5.2 | 4.2 | 4.2 | 11.4 | 12.6 | 53 | 42 | 65 | 42 | 14.9 | 16.1 | 43 | 52 |
| 5.8 | 5.4 | 5.9 | 5.2 | 4.2 | 4.2 | 11.5 | 12.7 | 53 | 43 | 66 | 43 | 15 | 16.1 | 43 | 52 |
| 5.9 | 5.4 | 6 | 5.3 | 4.2 | 4.3 | 11.6 | 12.8 | 54 | 43 | 66 | 43 | 15.1 | 16.1 | 44 | 52 |
| 5.9 | 5.5 | 6 | 5.3 | 4.3 | 4.3 | 11.6 | 12.8 | 54 | 43 | 67 | 43 | 15.2 | 16.1 | 44 | 52 |
| 6 | 5.5 | 6 | 5.3 | 4.3 | 4.3 | 11.7 | 12.9 | 55 | 44 | 67 | 43 | 15.3 | 16.1 | 44 | 53 |
| 6 | 5.5 | 6.1 | 5.4 | 4.3 | 4.3 | 11.8 | 13 | 55 | 44 | 68 | 44 | 15.4 | 16.1 | 45 | 53 |
| 6 | 5.6 | 6.1 | 5.4 | 4.4 | 4.4 | 11.9 | 13.1 | 55 | 44 | 68 | 44 | 15.5 | 16.1 | 45 | 53 |
| 6.1 | 5.6 | 6.2 | 5.4 | 4.4 | 4.4 | 12 | 13.2 | 56 | 45 | 69 | 44 | 15.6 | 16.1 | 45 | 54 |
| 6.1 | 5.6 | 6.2 | 5.5 | 4.4 | 4.4 | 12.1 | 13.3 | 56 | 45 | 69 | 45 | 15.7 | 16.1 | 45 | 54 |
| 6.2 | 5.7 | 6.3 | 5.5 | 4.4 | 4.5 | 12.1 | 13.3 | 56 | 45 | 69 | 45 | 15.9 | 16.1 | 46 | 54 |
| 6.2 | 5.7 | 6.3 | 5.5 | 4.5 | 4.5 | 12.2 | 13.4 | 57 | 45 | 70 | 45 | 16 | 17.1 | 46 | 55 |
| 6.2 | 5.8 | 6.3 | 5.6 | 4.5 | 4.5 | 12.3 | 13.5 | 57 | 46 | 70 | 46 | 16.1 | 17.1 | 46 | 55 |
| 6.3 | 5.8 | 6.4 | 5.6 | 4.5 | 4.6 | 12.4 | 13.6 | 58 | 46 | 71 | 46 | 16.2 | 17.1 | 47 | 55 |
| 6.3 | 5.8 | 6.4 | 5.7 | 4.6 | 4.6 | 12.5 | 13.7 | 58 | 46 | 71 | 46 | 16.3 | 17.1 | 47 | 55 |
| 6.4 | 5.9 | 6.5 | 5.7 | 4.6 | 4.7 | 12.5 | 13.8 | 58 | 47 | 72 | 46 | 16.4 | 17.1 | 47 | 56 |
| 6.4 | 5.9 | 6.5 | 5.7 | 4.6 | 4.7 | 12.6 | 13.8 | 59 | 47 | 72 | 47 | 16.5 | 17.1 | 48 | 56 |
| 6.5 | 5.9 | 6.6 | 5.8 | 4.6 | 4.7 | 12.7 | 13.9 | 59 | 47 | 73 | 47 | 16.6 | 17.1 | 48 | 56 |
| 6.5 | 6 | 6.6 | 5.8 | 4.7 | 4.7 | 12.8 | 14 | 59 | 47 | 73 | 47 | 16.7 | 17.1 | 48 | 57 |
| 6.5 | 6 | 6.6 | 5.8 | 4.7 | 4.7 | 12.9 | 14.1 | 60 | 48 | 74 | 48 | 16.8 | 17.1 | 48 | 57 |
| 6.6 | 6.1 | 6.7 | 5.9 | 4.7 | 4.8 | 12.9 | 14.2 | 60 | 48 | 74 | 48 | 16.9 | 18.1 | 49 | 57 |
| 6.6 | 6.1 | 6.7 | 5.9 | 4.8 | 4.8 | 13 | 14.3 | 61 | 48 | 75 | 48 | 17 | 18.1 | 49 | 57 |
| 6.7 | 6.1 | 6.8 | 5.9 | 4.8 | 4.8 | 13.1 | 14.3 | 61 | 49 | 75 | 48 | 17.1 | 18.1 | 49 | 58 |
| 6.7 | 6.2 | 6.8 | 6 | 4.8 | 4.9 | 13.2 | 14.4 | 61 | 49 | 75 | 49 | 17.2 | 18.1 | 50 | 58 |
| 6.7 | 6.2 | 6.8 | 6 | 4.8 | 4.9 | 13.3 | 14.5 | 62 | 49 | 76 | 49 | 17.3 | 18.1 | 50 | 58 |
| 6.8 | 6.2 | 6.9 | 6.1 | 4.9 | 4.9 | 13.4 | 14.6 | 62 | 49 | 76 | 49 | 17.4 | 18.1 | 50 | 59 |
| 6.8 | 6.3 | 6.9 | 6.1 | 4.9 | 4.9 | 13.4 | 14.7 | 62 | 50 | 77 | 50 | 17.5 | 18.1 | 51 | 59 |
| 6.8 | 6.3 | 6.9 | 6.1 | 4.9 | 5 | 13.5 | 14.8 | 63 | 50 | 77 | 50 | 17.6 | 18.1 | 51 | 59 |
| 6.9 | 6.4 | 7 | 6.2 | 5 | 5 | 13.6 | 14.8 | 63 | 50 | 78 | 50 | 17.7 | 18.1 | 51 | 60 |
| 6.9 | 6.4 | 7 | 6.2 | 5 | 5 | 13.7 | 14.9 | 64 | 51 | 78 | 51 | 17.8 | 18.1 | 51 | 60 |
| 6.9 | 6.4 | 7 | 6.2 | 5 | 5.1 | 13.8 | 15 | 64 | 51 | 79 | 51 | 17.9 | 19.1 | 52 | 60 |
| 7 | 6.5 | 7.1 | 6.3 | 5.1 | 5.1 | 13.8 | 15.1 | 64 | 51 | 79 | 51 | 18 | 19.1 | 52 | 60 |
| 7.1 | 6.5 | 7.2 | 6.3 | 5.1 | 5.1 | 13.9 | 15.2 | 65 | 52 | 80 | 51 | 18.1 | 19.1 | 52 | 61 |
| 7.1 | 6.5 | 7.2 | 6.4 | 5.1 | 5.2 | 14 | 15.2 | 65 | 52 | 80 | 52 | 18.2 | 19.1 | 53 | 61 |
| 7.1 | 6.6 | 7.3 | 6.4 | 5.1 | 5.2 | 14.1 | 15.3 | 65 | 52 | 80 | 52 | 18.3 | 19.1 | 53 | 61 |
| 7.2 | 6.6 | 7.3 | 6.4 | 5.2 | 5.2 | 14.2 | 15.4 | 66 | 53 | 81 | 52 | 18.3 | 19.1 | 53 | 62 |
| 7.2 | 6.7 | 7.3 | 6.5 | 5.2 | 5.2 | 14.2 | 15.5 | 66 | 53 | 81 | 53 | 18.3 | 19.1 | 54 | 62 |
| 7.3 | 6.7 | 7.4 | 6.5 | 5.3 | 5.3 | 14.3 | 15.6 | 66 | 53 | 82 | 53 | 18.3 | 19.1 | 54 | 62 |
| 7.3 | 6.7 | 7.4 | 6.5 | 5.3 | 5.3 | 14.4 | 15.7 | 67 | 53 | 82 | 53 | 18.3 | 19.1 | 54 | 62 |
| 7.3 | 6.8 | 7.5 | 6.6 | 5.3 | 5.3 | 14.5 | 15.7 | 67 | 54 | 83 | 54 | 18.3 | 19.1 | 54 | 63 |
| 7.4 | 6.8 | 7.5 | 6.6 | 5.3 | 5.4 | 14.6 | 15.8 | 68 | 54 | 83 | 54 | 18.3 | 20.1 | 55 | 63 |
| 7.4 | 6.9 | 7.5 | 6.6 | 5.3 | 5.4 | 14.7 | 15.9 | 68 | 54 | 84 | 54 | 18.3 | 20.1 | 55 | 63 |

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|------|------|----|------|------|------|------|------|------|------|
| 2 | 2.1 | 2.1 | 2.4 | 2.1 | 2.2 | 1.2 | 0.39 | 0.4 | 5.3 | 7 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| 2 | 2.2 | 2.1 | 2.5 | 2.2 | 2.3 | 1.2 | 0.4 | 0.41 | 5.3 | 7 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| 2.1 | 2.2 | 2.2 | 2.6 | 2.2 | 2.3 | 1.2 | 0.41 | 0.42 | 5.3 | 7 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| 2.1 | 2.3 | 2.3 | 2.6 | 2.2 | 2.4 | 1.3 | 0.42 | 0.43 | 5.3 | 7 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 |
| 2.2 | 2.3 | 2.3 | 2.7 | 2.3 | 2.5 | 1.3 | 0.43 | 0.44 | 5.3 | 7 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 |
| 2.2 | 2.4 | 2.4 | 2.7 | 2.2 | 2.4 | 1.3 | 0.44 | 0.45 | 5.3 | 8 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 2.3 | 2.4 | 2.4 | 2.8 | 2.5 | 2.6 | 1.4 | 0.45 | 0.46 | 5.3 | 8 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 2.3 | 2.5 | 2.5 | 2.9 | 2.5 | 2.6 | 1.4 | 0.46 | 0.47 | 5.3 | 8 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 2.4 | 2.6 | 2.6 | 3 | 2.6 | 2.7 | 1.4 | 0.47 | 0.48 | 6.3 | 8 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 2.5 | 2.6 | 2.6 | 3 | 2.7 | 2.8 | 1.5 | 0.48 | 0.5 | 6.3 | 8 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 2.5 | 2.7 | 2.7 | 3.1 | 2.7 | 2.8 | 1.5 | 0.49 | 0.51 | 6.3 | 9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.6 | 2.7 | 2.8 | 3.2 | 2.8 | 2.9 | 1.5 | 0.5 | 0.52 | 6.3 | 9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.6 | 2.8 | 2.8 | 3.2 | 2.8 | 3 | 1.6 | 0.51 | 0.53 | 6.3 | 9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.7 | 2.8 | 2.8 | 3.3 | 2.9 | 3 | 1.6 | 0.52 | 0.54 | 6.3 | 9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.7 | 2.9 | 2.9 | 3.3 | 2.9 | 3.1 | 1.6 | 0.53 | 0.55 | 6.3 | 9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.8 | 2.9 | 2.9 | 3.4 | 3 | 3.1 | 1.7 | 0.54 | 0.56 | 7.3 | 9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.8 | 3 | 3 | 3.5 | 3 | 3.2 | 1.7 | 0.55 | 0.57 | 7.3 | 9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.9 | 3.1 | 3.1 | 3.5 | 3.1 | 3.2 | 1.7 | 0.56 | 0.58 | 7.3 | 10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 2.9 | 3.1 | 3.1 | 3.6 | 3.1 | 3.3 | 1.8 | 0.57 | 0.59 | 7.3 | 10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 3 | 3.2 | 3.2 | 3.6 | 3.2 | 3.3 | 1.8 | 0.58 | 0.6 | 7.3 | 10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 3.1 | 3.2 | 3.2 | 3.7 | 3.3 | 3.4 | 1.8 | 0.59 | 0.61 | 7.3 | 10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 3.1 | 3.3 | 3.3 | 3.7 | 3.3 | 3.5 | 1.8 | 0.6 | 0.62 | 7.3 | 10 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 3.2 | 3.4 | 3.4 | 3.8 | 3.4 | 3.5 | 1.9 | 0.61 | 0.63 | 8.3 | 11 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 3.2 | 3.4 | 3.4 | 3.9 | 3.4 | 3.6 | 1.9 | 0.62 | 0.64 | 8.3 | 11 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| 3.3 | 3.4 | 3.4 | 3.9 | 3.5 | 3.6 | 1.9 | 0.63 | 0.65 | 8.3 | 11 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 |
| 3.3 | 3.5 | 3.5 | 4 | 3.5 | 3.7 | 2 | 0.64 | 0.66 | 8.3 | 11 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | 0.03 |
| 3.4 | 3.5 | 3.5 | 4 | 3.6 | 3.7 | 2 | 0.65 | 0.67 | 8.3 | 11 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.4 | 3.6 | 3.6 | 4.1 | 3.6 | 3.8 | 2 | 0.66 | 0.68 | 8.3 | 11 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.5 | 3.6 | 3.7 | 4.2 | 3.7 | 3.8 | 2.1 | 0.67 | 0.69 | 8.3 | 11 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.5 | 3.7 | 3.7 | 4.2 | 3.7 | 3.9 | 2.1 | 0.68 | 0.7 | 8.3 | 12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.6 | 3.7 | 3.8 | 4.3 | 3.8 | 3.9 | 2.1 | 0.69 | 0.71 | 8.3 | 12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.6 | 3.8 | 3.8 | 4.3 | 3.9 | 4 | 2.2 | 0.7 | 0.72 | 9.3 | 12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.7 | 3.8 | 3.9 | 4.4 | 3.9 | 4.1 | 2.2 | 0.71 | 0.73 | 9.3 | 12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.7 | 3.9 | 3.9 | 4.5 | 4 | 4.1 | 2.2 | 0.72 | 0.74 | 9.3 | 12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.8 | 3.9 | 4 | 4.5 | 4 | 4.2 | 2.2 | 0.73 | 0.75 | 9.3 | 12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.8 | 4 | 4 | 4.6 | 4.1 | 4.2 | 2.3 | 0.74 | 0.76 | 9.3 | 12 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.9 | 4.1 | 4.1 | 4.6 | 4.1 | 4.3 | 2.3 | 0.75 | 0.77 | 9.3 | 13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3.9 | 4.1 | 4.1 | 4.7 | 4.2 | 4.3 | 2.3 | 0.76 | 0.78 | 9.3 | 13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4 | 4.2 | 4.2 | 4.7 | 4.2 | 4.4 | 2.4 | 0.77 | 0.79 | 9.3 | 13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4 | 4.2 | 4.3 | 4.8 | 4.3 | 4.4 | 2.4 | 0.78 | 0.8 | 10.3 | 13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4.1 | 4.3 | 4.3 | 4.9 | 4.3 | 4.5 | 2.4 | 0.79 | 0.81 | 10.3 | 13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4.1 | 4.3 | 4.4 | 4.9 | 4.4 | 4.6 | 2.5 | 0.8 | 0.82 | 10.3 | 13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4.2 | 4.4 | 4.4 | 5 | 4.4 | 4.6 | 2.5 | 0.81 | 0.83 | 10.3 | 13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4.2 | 4.4 | 4.5 | 5 | 4.5 | 4.7 | 2.5 | 0.82 | 0.84 | 10.3 | 14 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4.3 | 4.5 | 4.5 | 5.1 | 4.6 | 4.7 | 2.5 | 0.83 | 0.85 | 10.3 | 14 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4.3 | 4.5 | 4.6 | 5.2 | 4.6 | 4.8 | 2.6 | 0.84 | 0.86 | 10.3 | 14 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 4.4 | 4.6 | 4.6 | 5.2 | 4.7 | 4.8 | 2.6 | 0.85 | 0.87 | 10.3 | 14 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |

| LOAM#M3M | | SAND1MF1st | | SAND1MTop | | SAND1MBoff | | SAND1M1M | | SAND1M3CM | | SAND1M3M | | SAND2MF1st | | SAND2MTop | | SAND2MBoff | | SAND2M1M | | SAND2M3CM | |
|----------|-------|------------|----|-----------|----|------------|----|----------|----|-----------|----|----------|----|------------|-----|-----------|-----|------------|-----|----------|-----|-----------|------|
| A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| 0.01 | 0.01 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.1 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 |
| 0.01 | 0.01 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.2 | 1 | 1 | 1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0.01 | 0.01 |
| 0.02 | 0.02 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.3 | 1 | 1 | 1 | 1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0 | 0 | 0.01 | 0.02 |
| 0.02 | 0.02 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 0.4 | 1 | 1 | 1 | 1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0 | 0 | 0.02 | 0.02 |
| 0.03 | 0.03 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0.5 | 2 | 2 | 2 | 2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0 | 0 | 0.03 | 0.03 |
| 0.03 | 0.03 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 0.6 | 2 | 2 | 2 | 2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.03 | 0.03 |
| 0.04 | 0.04 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0.7 | 2 | 2 | 2 | 2 | 0.3 | 0.2 | 0.4 | 0.4 | 0.4 | 0.1 | 0.1 | 0.04 | 0.04 |
| 0.04 | 0.04 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0.8 | 2 | 2 | 2 | 2 | 0.3 | 0.2 | 0.4 | 0.4 | 0.4 | 0.1 | 0.1 | 0.04 | 0.04 |
| 0.05 | 0.05 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 0.9 | 3 | 3 | 3 | 3 | 0.4 | 0.3 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.05 | 0.05 |
| 0.05 | 0.05 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 3 | 3 | 3 | 3 | 0.4 | 0.3 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.05 | 0.05 |
| 0.06 | 0.06 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1.1 | 3 | 3 | 3 | 3 | 0.4 | 0.3 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.06 | 0.06 |
| 0.06 | 0.06 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 1.2 | 4 | 4 | 4 | 4 | 0.5 | 0.3 | 0.6 | 0.6 | 0.6 | 0.2 | 0.2 | 0.06 | 0.07 |
| 0.06 | 0.06 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 1.3 | 4 | 4 | 4 | 4 | 0.5 | 0.3 | 0.6 | 0.6 | 0.6 | 0.2 | 0.2 | 0.06 | 0.07 |
| 0.07 | 0.07 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 1.4 | 4 | 4 | 4 | 4 | 0.5 | 0.4 | 0.7 | 0.7 | 0.7 | 0.2 | 0.2 | 0.07 | 0.08 |
| 0.07 | 0.07 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 1.5 | 5 | 5 | 5 | 5 | 0.6 | 0.4 | 0.7 | 0.7 | 0.7 | 0.2 | 0.2 | 0.08 | 0.08 |
| 0.08 | 0.08 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1.6 | 5 | 5 | 5 | 5 | 0.6 | 0.4 | 0.8 | 0.8 | 0.8 | 0.2 | 0.2 | 0.08 | 0.08 |
| 0.08 | 0.08 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1.7 | 5 | 5 | 5 | 5 | 0.6 | 0.5 | 0.8 | 0.8 | 0.8 | 0.2 | 0.2 | 0.08 | 0.09 |
| 0.09 | 0.09 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 1.8 | 6 | 6 | 6 | 6 | 0.6 | 0.5 | 0.9 | 0.9 | 0.9 | 0.3 | 0.3 | 0.09 | 0.1 |
| 0.09 | 0.09 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1.9 | 6 | 6 | 6 | 6 | 0.7 | 0.5 | 0.9 | 0.9 | 0.9 | 0.3 | 0.3 | 0.1 | 0.1 |
| 0.1 | 0.1 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 2.1 | 6 | 6 | 6 | 6 | 0.7 | 0.5 | 1 | 1 | 1 | 0.3 | 0.3 | 0.11 | 0.11 |
| 0.1 | 0.1 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 2.2 | 6 | 6 | 6 | 6 | 0.8 | 0.6 | 1 | 1 | 1 | 0.3 | 0.3 | 0.11 | 0.11 |
| 0.11 | 0.11 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2.3 | 7 | 7 | 7 | 7 | 0.8 | 0.6 | 1 | 1 | 1 | 0.3 | 0.3 | 0.12 | 0.12 |
| 0.11 | 0.11 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 2.4 | 7 | 7 | 7 | 7 | 0.8 | 0.6 | 1 | 1 | 1 | 0.3 | 0.3 | 0.12 | 0.13 |
| 0.11 | 0.11 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 2.5 | 7 | 7 | 7 | 7 | 0.9 | 0.7 | 1.1 | 1.1 | 1.1 | 0.4 | 0.4 | 0.13 | 0.13 |
| 0.12 | 0.12 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 2.6 | 8 | 8 | 8 | 8 | 0.9 | 0.7 | 1.1 | 1.1 | 1.1 | 0.4 | 0.4 | 0.14 | 0.14 |
| 0.12 | 0.12 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 2.7 | 8 | 8 | 8 | 8 | 0.9 | 0.7 | 1.2 | 1.2 | 1.2 | 0.4 | 0.4 | 0.14 | 0.15 |
| 0.12 | 0.12 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 2.8 | 8 | 8 | 8 | 8 | 1 | 0.7 | 1.2 | 1.2 | 1.2 | 0.4 | 0.4 | 0.15 | 0.15 |
| 0.13 | 0.13 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 2.9 | 8 | 8 | 8 | 8 | 1 | 0.7 | 1.3 | 1.3 | 1.3 | 0.4 | 0.4 | 0.16 | 0.16 |
| 0.134 | 0.134 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 3 | 9 | 9 | 9 | 9 | 1 | 0.8 | 1.3 | 1.3 | 1.3 | 0.5 | 0.5 | 0.16 | 0.16 |
| 0.139 | 0.139 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 3.1 | 9 | 9 | 9 | 9 | 1.1 | 0.8 | 1.4 | 1.4 | 1.4 | 0.5 | 0.5 | 0.17 | 0.17 |
| 0.144 | 0.144 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 3.2 | 9 | 9 | 9 | 9 | 1.1 | 0.8 | 1.4 | 1.4 | 1.4 | 0.5 | 0.5 | 0.17 | 0.18 |
| 0.15 | 0.15 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 3.3 | 10 | 10 | 10 | 10 | 1.2 | 0.8 | 1.5 | 1.5 | 1.5 | 0.5 | 0.5 | 0.18 | 0.18 |
| 0.154 | 0.154 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 3.4 | 10 | 10 | 10 | 10 | 1.2 | 0.9 | 1.5 | 1.5 | 1.5 | 0.5 | 0.5 | 0.19 | 0.19 |
| 0.159 | 0.159 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 3.5 | 10 | 10 | 10 | 10 | 1.2 | 0.9 | 1.6 | 1.6 | 1.6 | 0.5 | 0.5 | 0.19 | 0.19 |
| 0.163 | 0.163 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 3.6 | 11 | 11 | 11 | 11 | 1.3 | 0.9 | 1.6 | 1.6 | 1.6 | 0.6 | 0.6 | 0.2 | 0.2 |
| 0.168 | 0.168 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 3.7 | 11 | 11 | 11 | 11 | 1.3 | 1 | 1.7 | 1.7 | 1.7 | 0.6 | 0.6 | 0.2 | 0.21 |
| 0.173 | 0.173 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 3.8 | 11 | 11 | 11 | 11 | 1.3 | 1 | 1.7 | 1.7 | 1.7 | 0.6 | 0.6 | 0.21 | 0.21 |
| 0.178 | 0.178 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 4 | 12 | 12 | 12 | 12 | 1.4 | 1 | 1.8 | 1.8 | 1.8 | 0.6 | 0.6 | 0.22 | 0.22 |
| 0.183 | 0.183 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 4.1 | 12 | 12 | 12 | 12 | 1.4 | 1 | 1.8 | 1.8 | 1.8 | 0.6 | 0.6 | 0.22 | 0.23 |
| 0.187 | 0.187 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 4.2 | 12 | 12 | 12 | 12 | 1.5 | 1.1 | 1.9 | 1.9 | 1.9 | 0.7 | 0.7 | 0.23 | 0.23 |
| 0.192 | 0.192 | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 4.2 | 13 | 13 | 13 | 13 | 1.5 | 1.1 | 1.9 | 1.9 | 1.9 | 0.7 | 0.7 | 0.23 | 0.24 |

| | | | | | | | | | | | | | | | |
|-------|-------|----|----|----|----|-----|-----|----|----|-----|-----|-----|-----|------|------|
| 0.2 | 0.197 | 15 | 14 | 16 | 14 | 4 | 4.3 | 13 | 18 | 1.5 | 1.1 | 2 | 0.7 | 0.24 | 0.24 |
| 0.2 | 0.202 | 15 | 14 | 17 | 15 | 4.1 | 4.4 | 13 | 18 | 1.6 | 1.1 | 2 | 0.7 | 0.25 | 0.25 |
| 0.21 | 0.207 | 16 | 14 | 17 | 15 | 4.2 | 4.5 | 14 | 19 | 1.6 | 1.2 | 2.1 | 0.7 | 0.25 | 0.26 |
| 0.21 | 0.211 | 16 | 15 | 18 | 16 | 4.3 | 4.6 | 14 | 19 | 1.6 | 1.2 | 2.1 | 0.7 | 0.26 | 0.26 |
| 0.215 | 0.216 | 17 | 15 | 18 | 16 | 4.4 | 4.7 | 14 | 19 | 1.7 | 1.2 | 2.2 | 0.8 | 0.27 | 0.27 |
| 0.22 | 0.221 | 17 | 15 | 18 | 16 | 4.5 | 4.8 | 15 | 20 | 1.7 | 1.3 | 2.2 | 0.8 | 0.27 | 0.27 |
| 0.224 | 0.226 | 17 | 16 | 19 | 16 | 4.6 | 4.9 | 15 | 20 | 1.7 | 1.3 | 2.3 | 0.8 | 0.28 | 0.28 |
| 0.229 | 0.231 | 18 | 16 | 19 | 17 | 4.7 | 5 | 15 | 21 | 1.8 | 1.3 | 2.3 | 0.8 | 0.28 | 0.29 |
| 0.234 | 0.236 | 18 | 17 | 20 | 17 | 4.8 | 5.1 | 15 | 21 | 1.8 | 1.3 | 2.4 | 0.8 | 0.29 | 0.29 |
| 0.239 | 0.24 | 19 | 17 | 20 | 17 | 4.8 | 5.2 | 16 | 21 | 1.9 | 1.4 | 2.4 | 0.9 | 0.3 | 0.3 |
| 0.243 | 0.245 | 19 | 17 | 21 | 18 | 4.9 | 5.3 | 16 | 22 | 1.9 | 1.4 | 2.5 | 0.9 | 0.31 | 0.31 |
| 0.248 | 0.25 | 19 | 17 | 21 | 18 | 5 | 5.4 | 16 | 22 | 1.9 | 1.4 | 2.5 | 0.9 | 0.31 | 0.31 |
| 0.253 | 0.255 | 20 | 18 | 21 | 18 | 5.1 | 5.5 | 17 | 23 | 2 | 1.5 | 2.6 | 0.9 | 0.32 | 0.32 |
| 0.258 | 0.26 | 20 | 18 | 22 | 19 | 5.2 | 5.6 | 17 | 23 | 2 | 1.5 | 2.6 | 0.9 | 0.32 | 0.32 |
| 0.262 | 0.264 | 20 | 18 | 22 | 19 | 5.3 | 5.7 | 17 | 23 | 2 | 1.5 | 2.7 | 1 | 0.33 | 0.33 |
| 0.267 | 0.269 | 21 | 19 | 23 | 20 | 5.4 | 5.9 | 18 | 24 | 2.1 | 1.5 | 2.7 | 1 | 0.33 | 0.34 |
| 0.272 | 0.274 | 21 | 19 | 23 | 20 | 5.5 | 6 | 18 | 24 | 2.1 | 1.6 | 2.8 | 1 | 0.34 | 0.34 |
| 0.277 | 0.279 | 22 | 19 | 23 | 20 | 5.6 | 6.1 | 18 | 24 | 2.2 | 1.6 | 2.8 | 1 | 0.35 | 0.35 |
| 0.281 | 0.284 | 22 | 20 | 24 | 21 | 5.7 | 6.2 | 19 | 25 | 2.2 | 1.6 | 2.9 | 1 | 0.35 | 0.35 |
| 0.286 | 0.289 | 22 | 20 | 24 | 21 | 5.8 | 6.3 | 19 | 25 | 2.2 | 1.6 | 2.9 | 1 | 0.36 | 0.36 |
| 0.291 | 0.293 | 23 | 20 | 25 | 21 | 5.9 | 6.4 | 19 | 26 | 2.3 | 1.7 | 3 | 1.1 | 0.36 | 0.37 |
| 0.296 | 0.298 | 23 | 21 | 25 | 22 | 6 | 6.5 | 20 | 26 | 2.3 | 1.7 | 3 | 1.1 | 0.37 | 0.37 |
| 0.3 | 0.303 | 24 | 21 | 25 | 22 | 6.1 | 6.6 | 20 | 27 | 2.3 | 1.7 | 3.1 | 1.1 | 0.38 | 0.38 |
| 0.305 | 0.308 | 24 | 21 | 26 | 22 | 6.2 | 6.7 | 20 | 27 | 2.4 | 1.8 | 3.1 | 1.2 | 0.38 | 0.39 |
| 0.31 | 0.313 | 24 | 22 | 26 | 23 | 6.3 | 6.8 | 21 | 28 | 2.4 | 1.8 | 3.2 | 1.2 | 0.39 | 0.39 |
| 0.315 | 0.317 | 25 | 22 | 27 | 23 | 6.4 | 6.9 | 21 | 28 | 2.4 | 1.8 | 3.2 | 1.2 | 0.4 | 0.4 |
| 0.319 | 0.322 | 25 | 22 | 27 | 23 | 6.5 | 7 | 21 | 28 | 2.5 | 1.8 | 3.3 | 1.2 | 0.4 | 0.4 |
| 0.324 | 0.327 | 25 | 23 | 27 | 24 | 6.6 | 7.1 | 22 | 29 | 2.5 | 1.9 | 3.3 | 1.2 | 0.41 | 0.41 |
| 0.329 | 0.332 | 26 | 23 | 28 | 24 | 6.7 | 7.2 | 22 | 29 | 2.6 | 1.9 | 3.4 | 1.3 | 0.41 | 0.42 |
| 0.334 | 0.337 | 26 | 23 | 28 | 24 | 6.8 | 7.3 | 22 | 29 | 2.6 | 1.9 | 3.4 | 1.3 | 0.42 | 0.42 |
| 0.338 | 0.341 | 27 | 24 | 29 | 25 | 6.9 | 7.4 | 23 | 30 | 2.6 | 2 | 3.5 | 1.3 | 0.43 | 0.43 |
| 0.343 | 0.346 | 27 | 25 | 29 | 25 | 7 | 7.5 | 23 | 30 | 2.7 | 2 | 3.5 | 1.3 | 0.43 | 0.43 |
| 0.348 | 0.351 | 27 | 25 | 30 | 26 | 7.1 | 7.6 | 23 | 30 | 2.7 | 2 | 3.6 | 1.4 | 0.44 | 0.44 |
| 0.353 | 0.356 | 28 | 25 | 30 | 26 | 7.2 | 7.7 | 23 | 31 | 2.7 | 2 | 3.6 | 1.4 | 0.44 | 0.45 |
| 0.357 | 0.361 | 28 | 25 | 30 | 26 | 7.3 | 7.8 | 24 | 31 | 2.8 | 2.1 | 3.7 | 1.4 | 0.45 | 0.45 |
| 0.362 | 0.365 | 28 | 25 | 31 | 27 | 7.4 | 7.9 | 24 | 32 | 2.8 | 2.1 | 3.7 | 1.4 | 0.46 | 0.46 |
| 0.367 | 0.37 | 29 | 25 | 31 | 27 | 7.5 | 8 | 24 | 32 | 2.9 | 2.1 | 3.8 | 1.5 | 0.47 | 0.47 |
| 0.372 | 0.375 | 29 | 26 | 32 | 27 | 7.6 | 8.1 | 25 | 32 | 2.9 | 2.2 | 3.8 | 1.5 | 0.47 | 0.47 |
| 0.376 | 0.38 | 30 | 26 | 32 | 28 | 7.7 | 8.2 | 25 | 33 | 2.9 | 2.2 | 3.9 | 1.5 | 0.48 | 0.48 |
| 0.381 | 0.385 | 30 | 26 | 32 | 28 | 7.8 | 8.3 | 25 | 33 | 3 | 2.2 | 3.9 | 1.5 | 0.48 | 0.48 |
| 0.386 | 0.389 | 30 | 26 | 33 | 28 | 7.9 | 8.5 | 26 | 33 | 3 | 2.2 | 4 | 1.5 | 0.49 | 0.49 |
| 0.391 | 0.394 | 31 | 27 | 33 | 29 | 8 | 8.6 | 26 | 34 | 3 | 2.3 | 4 | 1.6 | 0.49 | 0.5 |
| 0.395 | 0.399 | 31 | 27 | 33 | 29 | 8.1 | 8.7 | 26 | 34 | 3.1 | 2.3 | 4.1 | 1.6 | 0.5 | 0.5 |
| 0.4 | 0.404 | 32 | 27 | 34 | 29 | 8.2 | 8.8 | 27 | 35 | 3.1 | 2.3 | 4.1 | 1.6 | 0.51 | 0.51 |
| 0.405 | 0.409 | 32 | 28 | 34 | 30 | 8.3 | 8.9 | 27 | 35 | 3.1 | 2.3 | 4.2 | 1.6 | 0.51 | 0.51 |
| 0.41 | 0.413 | 32 | 28 | 35 | 30 | 8.4 | 9 | 27 | 36 | 3.2 | 2.4 | 4.2 | 1.7 | 0.52 | 0.52 |
| 0.414 | 0.418 | 33 | 28 | 35 | 30 | 8.5 | 9.1 | 28 | 36 | 3.2 | 2.4 | 4.2 | 1.7 | 0.52 | 0.53 |
| 0.419 | 0.423 | 33 | 29 | 35 | 31 | 8.6 | 9.2 | 28 | 36 | 3.3 | 2.4 | 4.3 | 1.7 | 0.53 | 0.53 |

| | | | | | | | | | | | | | | | |
|-------|-------|----|----|----|----|------|------|----|----|-----|-----|-----|-----|------|------|
| 0.651 | 0.659 | 52 | 45 | 55 | 48 | 13.4 | 14.2 | 44 | 54 | 5.1 | 3.8 | 6.7 | 2.9 | 0.83 | 0.83 |
| 0.655 | 0.664 | 52 | 45 | 55 | 48 | 13.5 | 14.3 | 44 | 55 | 5.1 | 3.8 | 6.8 | 2.9 | 0.84 | 0.84 |
| 0.66 | 0.668 | 52 | 46 | 56 | 49 | 13.6 | 14.4 | 44 | 55 | 5.1 | 3.8 | 6.8 | 2.9 | 0.84 | 0.85 |
| 0.665 | 0.673 | 53 | 46 | 56 | 49 | 13.7 | 14.5 | 45 | 55 | 5.2 | 3.9 | 6.9 | 3 | 0.85 | 0.85 |
| 0.67 | 0.678 | 53 | 46 | 56 | 49 | 13.8 | 14.6 | 45 | 56 | 5.2 | 3.9 | 6.9 | 3 | 0.86 | 0.86 |
| 0.674 | 0.683 | 54 | 47 | 57 | 50 | 13.9 | 14.8 | 45 | 56 | 5.3 | 3.9 | 7 | 3 | 0.86 | 0.86 |
| 0.679 | 0.688 | 54 | 47 | 57 | 50 | 14 | 14.9 | 45 | 56 | 5.3 | 3.9 | 7 | 3 | 0.87 | 0.87 |
| 0.684 | 0.693 | 54 | 47 | 57 | 50 | 14.1 | 15 | 46 | 57 | 5.3 | 4 | 7.1 | 3.1 | 0.88 | 0.88 |
| 0.688 | 0.697 | 55 | 48 | 57 | 51 | 14.1 | 15.1 | 46 | 57 | 5.4 | 4 | 7.1 | 3.1 | 0.88 | 0.88 |
| 0.693 | 0.702 | 55 | 48 | 57 | 51 | 14.1 | 15.2 | 46 | 57 | 5.4 | 4 | 7.2 | 3.1 | 0.89 | 0.89 |
| 0.698 | 0.707 | 55 | 48 | 57 | 51 | 14.2 | 15.3 | 46 | 58 | 5.4 | 4.1 | 7.2 | 3.1 | 0.89 | 0.9 |
| 0.703 | 0.712 | 56 | 49 | 58 | 52 | 14.2 | 15.4 | 46 | 58 | 5.5 | 4.1 | 7.3 | 3.2 | 0.9 | 0.9 |
| 0.707 | 0.717 | 56 | 49 | 58 | 52 | 14.3 | 15.5 | 46 | 58 | 5.5 | 4.1 | 7.3 | 3.2 | 0.91 | 0.91 |
| 0.712 | 0.722 | 56 | 49 | 58 | 52 | 14.4 | 15.6 | 47 | 59 | 5.5 | 4.1 | 7.4 | 3.2 | 0.91 | 0.91 |
| 0.717 | 0.726 | 57 | 50 | 59 | 53 | 14.4 | 15.7 | 47 | 59 | 5.6 | 4.2 | 7.4 | 3.2 | 0.92 | 0.92 |
| 0.721 | 0.731 | 57 | 50 | 59 | 53 | 14.5 | 15.8 | 47 | 59 | 5.6 | 4.2 | 7.4 | 3.3 | 0.92 | 0.93 |
| 0.726 | 0.736 | 57 | 50 | 59 | 53 | 14.6 | 15.9 | 48 | 59 | 5.7 | 4.2 | 7.5 | 3.3 | 0.93 | 0.93 |
| 0.731 | 0.741 | 58 | 51 | 60 | 54 | 14.7 | 16 | 48 | 60 | 5.7 | 4.2 | 7.5 | 3.3 | 0.94 | 0.94 |
| 0.736 | 0.746 | 58 | 51 | 60 | 54 | 14.8 | 16.1 | 48 | 60 | 5.7 | 4.3 | 7.6 | 3.3 | 0.94 | 0.94 |
| 0.74 | 0.751 | 58 | 51 | 60 | 54 | 14.9 | 16.1 | 48 | 60 | 5.8 | 4.3 | 7.6 | 3.4 | 0.95 | 0.95 |
| 0.745 | 0.756 | 59 | 52 | 61 | 55 | 15 | 16.2 | 49 | 61 | 5.8 | 4.3 | 7.7 | 3.4 | 0.96 | 0.96 |
| 0.75 | 0.76 | 59 | 52 | 61 | 55 | 15.1 | 16.3 | 49 | 61 | 5.8 | 4.4 | 7.7 | 3.4 | 0.96 | 0.96 |
| 0.755 | 0.765 | 59 | 52 | 62 | 56 | 15.2 | 16.4 | 49 | 61 | 5.9 | 4.4 | 7.8 | 3.4 | 0.97 | 0.97 |
| 0.759 | 0.77 | 60 | 53 | 62 | 56 | 15.3 | 16.5 | 50 | 62 | 5.9 | 4.4 | 7.8 | 3.5 | 0.97 | 0.98 |
| 0.764 | 0.775 | 60 | 53 | 63 | 56 | 15.4 | 16.6 | 50 | 62 | 6 | 4.4 | 7.8 | 3.5 | 0.98 | 0.98 |
| 0.769 | 0.78 | 61 | 53 | 63 | 57 | 15.5 | 16.7 | 50 | 62 | 6 | 4.5 | 7.9 | 3.5 | 0.99 | 0.99 |
| 0.773 | 0.785 | 61 | 54 | 63 | 57 | 15.6 | 16.8 | 51 | 63 | 6 | 4.5 | 8 | 3.5 | 0.99 | 0.99 |
| 0.778 | 0.789 | 61 | 54 | 64 | 57 | 15.7 | 16.9 | 51 | 63 | 6.1 | 4.5 | 8 | 3.6 | 1 | 1 |
| 0.783 | 0.794 | 62 | 54 | 64 | 58 | 15.8 | 17 | 51 | 63 | 6.1 | 4.6 | 8.1 | 3.6 | 1 | 1.01 |
| 0.788 | 0.799 | 62 | 55 | 65 | 58 | 15.9 | 17.1 | 52 | 64 | 6.1 | 4.6 | 8.1 | 3.6 | 1.01 | 1.01 |
| 0.792 | 0.804 | 62 | 55 | 65 | 58 | 16 | 17.2 | 52 | 64 | 6.2 | 4.6 | 8.2 | 3.6 | 1.02 | 1.02 |
| 0.797 | 0.809 | 63 | 55 | 65 | 59 | 16.1 | 17.3 | 52 | 64 | 6.2 | 4.6 | 8.2 | 3.7 | 1.02 | 1.02 |
| 0.802 | 0.814 | 63 | 56 | 66 | 59 | 16.2 | 17.4 | 53 | 64 | 6.3 | 4.7 | 8.3 | 3.7 | 1.03 | 1.03 |
| 0.806 | 0.818 | 64 | 56 | 66 | 59 | 16.3 | 17.5 | 53 | 65 | 6.3 | 4.7 | 8.3 | 3.7 | 1.04 | 1.04 |
| 0.811 | 0.823 | 64 | 56 | 67 | 60 | 16.4 | 17.6 | 53 | 65 | 6.3 | 4.7 | 8.4 | 3.7 | 1.04 | 1.04 |
| 0.816 | 0.828 | 64 | 57 | 67 | 60 | 16.5 | 17.7 | 53 | 65 | 6.4 | 4.7 | 8.4 | 3.7 | 1.05 | 1.05 |
| 0.821 | 0.833 | 65 | 57 | 67 | 60 | 16.6 | 17.8 | 54 | 66 | 6.4 | 4.8 | 8.5 | 3.8 | 1.05 | 1.06 |
| 0.825 | 0.838 | 65 | 57 | 68 | 61 | 16.7 | 17.9 | 54 | 66 | 6.4 | 4.8 | 8.5 | 3.8 | 1.06 | 1.06 |
| 0.83 | 0.843 | 66 | 58 | 68 | 61 | 16.8 | 18 | 54 | 66 | 6.5 | 4.8 | 8.6 | 3.8 | 1.07 | 1.07 |
| 0.835 | 0.848 | 66 | 58 | 69 | 61 | 16.9 | 18.1 | 55 | 67 | 6.5 | 4.9 | 8.6 | 3.8 | 1.07 | 1.07 |
| 0.84 | 0.853 | 66 | 58 | 69 | 62 | 17 | 18.2 | 55 | 67 | 6.5 | 4.9 | 8.7 | 3.9 | 1.08 | 1.08 |
| 0.844 | 0.857 | 67 | 59 | 69 | 62 | 17.1 | 18.3 | 55 | 67 | 6.6 | 4.9 | 8.7 | 3.9 | 1.08 | 1.09 |
| 0.849 | 0.862 | 67 | 59 | 70 | 63 | 17.2 | 18.4 | 56 | 67 | 6.6 | 4.9 | 8.8 | 3.9 | 1.09 | 1.09 |
| 0.854 | 0.867 | 67 | 59 | 70 | 63 | 17.3 | 18.5 | 56 | 68 | 6.7 | 5 | 8.8 | 3.9 | 1.1 | 1.1 |
| 0.858 | 0.872 | 68 | 60 | 71 | 63 | 17.4 | 18.6 | 56 | 68 | 6.7 | 5 | 8.9 | 4 | 1.1 | 1.1 |
| 0.863 | 0.877 | 68 | 60 | 71 | 64 | 17.5 | 18.7 | 57 | 68 | 6.7 | 5 | 8.9 | 4 | 1.11 | 1.11 |
| 0.868 | 0.882 | 69 | 60 | 72 | 64 | 17.6 | 18.8 | 57 | 68 | 6.8 | 5.1 | 9 | 4 | 1.12 | 1.12 |
| 0.873 | 0.887 | 69 | 61 | 72 | 64 | 17.7 | 18.9 | 57 | 68 | 6.8 | 5.1 | 9 | 4 | 1.12 | 1.12 |

| SAND2M3M | | SAND5MFlat | | SAND5MTop | | SAND5MBot | | SAND5M1M | | SAND5M30CM | | SAND5M3M | |
|------------|-----|------------|---|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
| A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| Cum.D.(cm) | | Cum.D.(cm) | | Cum.D.(cm) | | Cum.D.(cm) | | Cum.D.(cm) | | Cum.D.(cm) | | Cum.D.(cm) | |
| 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.002 |
| 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.005 |
| 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.007 |
| 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.009 |
| 0 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.012 |
| 1 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.014 |
| 1 | 0.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0.016 |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | 0 | 0 | 0.02 | 0.018 |
| 1 | 1.1 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | 0 | 0 | 0.02 | 0.021 |
| 1 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.02 | 0.02 | 0.023 |
| 1 | 1.3 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.02 | 0.02 | 0.025 |
| 1 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.03 | 0.03 | 0.028 |
| 2 | 1.6 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.03 | 0.03 | 0.032 |
| 2 | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.03 | 0.03 | 0.035 |
| 2 | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.04 | 0.04 | 0.037 |
| 2 | 1.9 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.04 | 0.04 | 0.039 |
| 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.04 | 0.04 | 0.042 |
| 3 | 2.2 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.04 | 0.04 | 0.044 |
| 3 | 2.3 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.043 | 0.044 | 0.046 |
| 3 | 2.4 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.045 | 0.046 | 0.048 |
| 3 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.047 | 0.048 | 0.051 |
| 3 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.05 | 0.05 | 0.053 |
| 4 | 2.8 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.052 | 0.053 | 0.055 |
| 4 | 2.9 | 0 | 0 | 0 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.054 | 0.055 | 0.058 |
| 4 | 3 | 0 | 0 | -0.01 | 0 | 0 | 0 | -0.01 | 0 | -0.01 | 0.057 | 0.058 | 0.06 |
| 4 | 3.1 | 0 | 0 | -0.01 | -0.01 | -0.01 | 0 | -0.01 | 0 | -0.01 | 0.059 | 0.06 | 0.062 |
| 4 | 3.3 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0 | -0.01 | 0.061 | 0.061 | 0.065 |
| 4 | 3.4 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.064 | 0.064 | 0.067 |
| 5 | 3.5 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.066 | 0.066 | 0.069 |
| 5 | 3.6 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.068 | 0.068 | 0.072 |
| 5 | 3.8 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.07 | 0.07 | 0.074 |
| 5 | 3.9 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.073 | 0.073 | 0.076 |
| 5 | 4 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.075 | 0.075 | 0.078 |
| 5 | 4.1 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | -0.01 | -0.01 | 0.077 | 0.077 | 0.081 |
| 6 | 4.2 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | -0.01 | -0.02 | 0.08 | 0.08 | 0.083 |
| 6 | 4.4 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | -0.01 | -0.02 | 0.082 | 0.082 | 0.085 |
| 6 | 4.5 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | -0.01 | -0.02 | 0.084 | 0.084 | 0.088 |
| 6 | 4.6 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | -0.01 | -0.02 | 0.087 | 0.087 | 0.09 |
| 6 | 4.7 | 0 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | -0.01 | -0.02 | 0.089 | 0.089 | |

Appendix A.7. Total Evapotranspiration Flux Data

A-126

TOTAL FLUXES

(1) = 548 Day ET Totals/no equilibrium
 (2) = 183 Day ET Totals/365 Day Equilibrium
 (3) = 175 Day ET Totals/442 Day Equilibrium
 (4) = 183 Day Total/730 Day Equilibrium
 (5) = 183 Day ET Totals/603 Day Equilibrium
 (6) = 183 Day ET Totals (using real PET)/803 Day Equilibrium

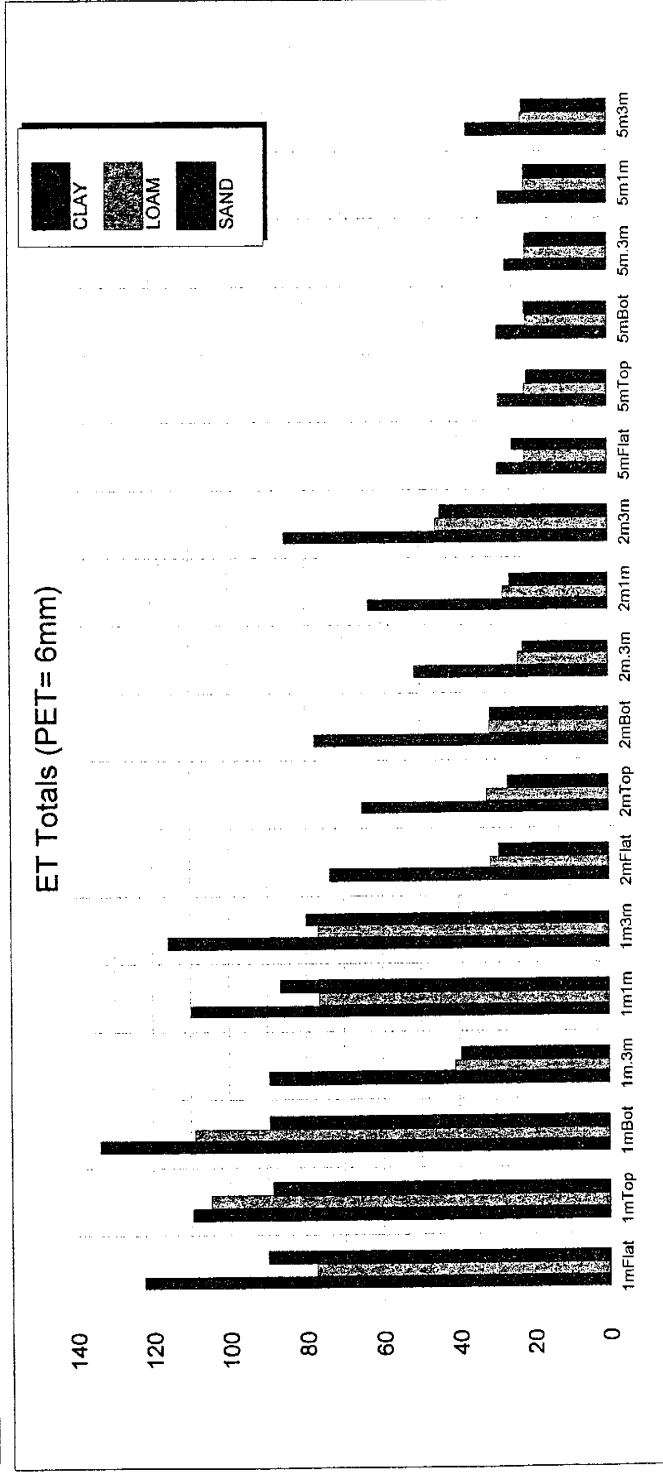
| | Cumulative Evaporation[cm] | | | Cumulative Transpiration[cm] | | | Cumulative Evapotranspiration[cm] | | | Cumulative Discharge[cm] | | | | | | | | | |
|----------|----------------------------|---------|-------|------------------------------|---------|---------|-----------------------------------|-------|-------|--------------------------|------|--------------|-------|-------|--------|-------|-------|-------|--|
| | (1) | (2) | (3) | (4) | (5) | (6) | (1) | (2) | (3) | (4) | (5) | (6) | (1) | (2) | (3) | (4) | (5) | (6) | |
| CLAY | | | | | | | | | | | | | | | | | | | |
| 1mFlat | | | | | 26.4186 | | | | | | | | | | | | | | |
| 1mTop | | | | | 24.6186 | | | | | | | | | | | | | | |
| 1mBottom | | | | | 29.0186 | | | | | | | | | | | | | | |
| 1m30cm | 67.0426 | 24.5282 | 15.23 | 25.7186 | 20.1002 | 177 | 60 | 19.18 | 63 | 63 | 64 | 83.1 | 195 | 64 | 11.55 | 68 | 67 | 70 | |
| 1m1m | 58.5326 | 20.2182 | 16.27 | 22.9186 | 22.9186 | 247 | 85 | 33.39 | 88 | 87 | 87 | 305.533 | 254 | 83 | 26.23 | 88 | 88 | 88 | |
| 1m3m | 85.4426 | 31.6282 | 16.95 | 34.9186 | 21.3002 | 239 | 79 | 41.09 | 80 | 81 | 81 | 95.324443 | 274 | 88 | 33.55 | 94 | 94 | 104 | |
| 2mFlat | | | | | 18.6786 | | | | | | | | | | | | | | |
| 2mTop | | | | | 18.3286 | | | | | | | | | | | | | | |
| 2mBottom | | | | | 19.5186 | | | | | | | | | | | | | | |
| 2m30cm | 41.6326 | 16.0932 | 15.24 | 19.5286 | 15.9002 | 90 | 31.9 | 11.67 | 32 | 32 | 32 | 28.131633 | 43.9 | 25.8 | 3.347 | 30 | 29 | 30 | |
| 2m1m | 35.2426 | 14.1082 | 16.27 | 18.5086 | 18.5286 | 135 | 47.4 | 14.36 | 45 | 45 | 45 | 170.243 | 118 | 39.4 | 6.568 | 41 | 41 | 41 | |
| 2m3m | 37.8426 | 14.9682 | 17.00 | 19.2686 | 14.2302 | 197 | 68 | 29.73 | 65 | 66 | 66 | 66.234843 | 80.23 | 61 | 20.34 | 63 | 62 | 68 | |
| 5mFlat | | | | | 18.4186 | | | | | | | | | | | | | | |
| 5mTop | | | | | 17.9186 | | | | | | | | | | | | | | |
| 5mBottom | | | | | 19.3186 | | | | | | | | | | | | | | |
| 5m30cm | 33.6426 | 13.6482 | 15.11 | 17.5186 | 14.2302 | 29.8 | 12.2 | 8.297 | 9.6 | 9.6 | 9.6 | 5.4.63.4426 | 19.63 | 4.93 | -0.004 | 5.3 | 5.3 | 5.4 | |
| 5m1m | 32.2426 | 12.9582 | 16.27 | 18.2186 | 18.2186 | 39.5 | 15.5 | 8.56 | 10.6 | 10.6 | 10.6 | 71.7426 | 18.6 | 6.7 | 0.167 | 6.6 | 6.6 | 6.6 | |
| 5m3m | 34.0426 | 13.6282 | 16.90 | 18.8186 | 18.9186 | 65.9 | 23.4 | 14.59 | 18.6 | 18.5 | 18.5 | 15.99.9426 | 28.82 | 14.8 | 1.715 | 14.7 | 14.7 | 15.9 | |
| LOAM | | | | | | | | | | | | | | | | | | | |
| 1mFlat | | | | | 15.5186 | | | | | | | | | | | | | | |
| 1mTop | | | | | 14.9186 | | | | | | | | | | | | | | |
| 1mBottom | | | | | 18.0086 | | | | | | | | | | | | | | |
| 1m30cm | 24.6426 | 10.7282 | 11.32 | | 14.2186 | 11.3302 | 79.2 | 29.2 | 27.91 | 27 | 27 | 22.3.103.843 | 33.63 | 17.8 | 17.4 | 19.3 | 19.3 | 20.1 | |
| 1m1m | 27.9426 | 11.9282 | 12.66 | | 15.6186 | 12.3702 | 184 | 64 | 61.04 | 61 | 61 | 211.943 | 164 | 54 | 52.24 | 54 | 54 | 54 | |
| 1m3m | 31.0426 | 13.4582 | 14.03 | | 16.8186 | 12.3702 | 179 | 60 | 56.95 | 60 | 60 | 63.210.043 | 75.37 | 52 | 51.24 | 55 | 55 | 63 | |
| 2mFlat | | | | | 15.4186 | 11.7502 | | | | | | | | | | | | | |
| 2mTop | | | | | 14.9186 | 11.5602 | | | | | | | | | | | | | |
| 2mBottom | | | | | 17.7186 | 12.7402 | | | | | | | | | | | | | |
| 2m30cm | 24.3426 | 10.5282 | 11.16 | | 14.2186 | 11.3402 | 30.6 | 13.1 | 13.22 | 9.7 | 9.7 | 4.8.54.9426 | 16.14 | 4.61 | 1.82 | 1.42 | 1.81 | 1.84 | |
| 2m1m | 27.8426 | 11.9282 | 12.47 | | 15.6186 | 12.3702 | 41 | 16 | 15.72 | 12.3 | 12.3 | 68.8426 | 17.3 | 5.6 | 6.029 | 23.3 | 23.3 | 27 | |
| 2m3m | 30.2426 | 12.9182 | 13.51 | | 16.8186 | 12.3702 | 91.1 | 32.6 | 31.38 | 29 | 29 | 27.121.343 | 39.37 | 72.1 | 23 | 23.25 | 0.08 | 0.08 | |
| 5mFlat | | | | | 15.4186 | | | | | | | | | | | | | | |
| 5mTop | | | | | 14.8186 | | | | | | | | | | | | | | |
| 5mBottom | | | | | 17.7186 | | | | | | | | | | | | | | |
| 5m30cm | 24.2426 | 10.5282 | 11.11 | | 14.2186 | 11.3902 | 24.5 | 11.3 | 11.3 | 7.7 | 7.7 | 3.01.48.7426 | 14.4 | -4.82 | -0.01 | -1.57 | 0.08 | 0.09 | |
| 5m1m | 27.7426 | 11.9282 | 12.44 | | 15.6186 | 12.3702 | 24.3 | 10.4 | 11.1 | 6.6 | 6.6 | 52.0426 | -2.51 | 0.02 | -0.8 | 0.08 | 0.08 | 0.08 | |
| 5m3m | 30.2426 | 12.9782 | 13.49 | | 16.8186 | 12.3702 | 28.3 | 10 | 14.04 | 6.2 | 6.2 | 2.8.58.5426 | 15.17 | -2.38 | 0.88 | -0.64 | 0.873 | 0.889 | |

TOTAL FLUXES

(5) = 183 Day ET Totals/803 Day Equilibrium
 (6) = 183 Day ET Totals (using real PET)/803 Day Equilibrium

| | Cumulative Evaporation [cm] | | Cumulative Transpiration [cm] | | Cumulative Evapotranspiration [cm] | | Cumulative Discharge[cm] | |
|-------------|-----------------------------|---------|-------------------------------|-------|------------------------------------|----------|--------------------------|-------|
| | (5) | (6) | (5) | (6) | (5) | (6) | (5) | (6) |
| CLAY | | | | | | | | |
| 1mFlat | 26.4186 | | 96 | | 122.42 | | 100 | |
| 1mTop | 24.6186 | | 85 | | 109.62 | | 87 | |
| 1mBot | 29.0186 | | 105 | | 134.02 | | 112 | |
| 1m3m | 25.7186 | 20.1002 | 64 | 63 | 89.72 | 83.10 | 67 | 70 |
| 1m1m | 22.9186 | | 87 | | 109.92 | | 88 | |
| 1m3m | 34.9186 | 21.3002 | 81 | 95 | 115.92 | 116.3002 | 94 | 104 |
| 2mFlat | 18.6786 | | 55 | | 73.68 | | 50 | |
| 2mTop | 18.3286 | | 47 | | 65.33 | | 42 | |
| 2mBot | 19.5186 | | 58 | | 77.52 | | 56 | |
| 2m3m | 19.5306 | 15.9002 | 32 | 28 | 51.53 | 43.9002 | 29 | 30 |
| 2m1m | 18.5286 | | 45 | | 63.53 | | 41 | |
| 2m3m | 19.2686 | 14.2302 | 66 | 66 | 85.27 | 80.2302 | 62 | 68 |
| 5mFlat | 18.4186 | | 11 | | 29.42 | | 7.4 | |
| 5mTop | 17.9186 | | 11.1 | | 29.02 | | 6.9 | |
| 5mBot | 19.3186 | | 10.1 | | 29.42 | | 7.5 | |
| 5m3m | 17.6186 | 14.2302 | 9.6 | 5.4 | 27.22 | 19.6302 | 5.3 | 5.4 |
| 5m1m | 18.2186 | | 10.6 | | 28.82 | | 6.6 | |
| 5m3m | 18.9186 | 13.8202 | 18.5 | 15 | 37.42 | 28.8202 | 14.7 | 15.9 |
| LOAM | | | | | | | | |
| 1mFlat | 15.5186 | | 62 | | 77.52 | | 68 | |
| 1mTop | 14.9186 | | 90 | | 104.92 | | 54 | |
| 1mBot | 18.0086 | | 91 | | 109.01 | | 84 | |
| 1m3m | 14.2186 | 11.3302 | 27 | 22.3 | 41.22 | 33.63 | 19.3 | 20.1 |
| 1m1m | 15.6186 | | 61 | | 76.62 | | 54 | |
| 1m3m | 16.8186 | 12.37 | 60 | 63 | 76.82 | 75.37 | 55 | 63 |
| 2mFlat | 15.4186 | | 16.1 | 11.7 | 31.52 | 23.45 | 9.2 | 9.5 |
| 2mTop | 14.9186 | 11.58 | 17.4 | 12.7 | 32.32 | 24.28 | 9.9 | 10.7 |
| 2mBot | 17.7186 | 12.74 | 13.9 | 11.2 | 31.62 | 23.94 | 9.8 | 10 |
| 2m3m | 14.2186 | 11.34 | 9.7 | 4.8 | 23.92 | 16.14 | 1.81 | 1.84 |
| 2m1m | 15.6186 | | 12.3 | | 27.92 | | 5.6 | |
| 2m3m | 16.8186 | 12.37 | 29 | 27.00 | 45.82 | 39.37 | 23.3 | 27 |
| 5mFlat | 15.4186 | | 6.8 | | 22.22 | | 0.08 | |
| 5mTop | 14.8186 | | 7.4 | | 22.22 | | 0.08 | |
| 5mBot | 17.7186 | | 4 | | 21.72 | | 0.08 | |
| 5m3m | 14.2186 | 11.39 | 7.7 | 3.01 | 21.92 | 14.40 | 0.08 | 0.09 |
| 5m1m | 15.6186 | | 6.6 | | 22.22 | | 0.08 | |
| 5m3m | 16.8186 | 12.37 | 6.2 | 2.80 | 23.02 | 15.17 | 0.873 | 0.889 |

| | Cumulative Evaporation [cm] | Cumulative Transpiration [cm] | Cumulative Evapotranspiration [cm] | Cumulative Discharges [cm] |
|-------------|-----------------------------|-------------------------------|------------------------------------|----------------------------|
| SAND | | | | |
| 1mFlat | 14.2186 | 76 | 90.22 | 69 |
| 1mTop | 18.9186 | 70 | 88.92 | 61 |
| 1mBot | 14.7186 | 75 | 89.72 | 72 |
| 1m.3m | 13.6186 | 26 | 39.62 | 17.7 |
| 1m1m | 14.7186 | 72 | 86.72 | 64 |
| 1m3m | 16.0186 | 64 | 80.02 | 57 |
| 2mFlat | 14.6186 | 14.7 | 29.32 | 6.8 |
| 2mTop | 14.2186 | 12.7 | 26.92 | 5.1 |
| 2mBot | 16.5186 | 14.9 | 31.42 | 9 |
| 2m.3m | 13.6186 | 9.2 | 22.82 | 1.12 |
| 2m1m | 14.8186 | 11.3 | 26.12 | 4 |
| 2m3m | 15.7186 | 29 | 44.72 | 22.3 |
| 5mFlat | 15.9186 | 9.5 | 25.42 | -0.02 |
| 5mTop | 14.2186 | 7.4 | 21.62 | -0.07 |
| 5mBot | 16.5186 | 5.6 | 22.12 | -0.06 |
| 5m.3m | 13.6186 | 8.3 | 21.92 | -0.07 |
| 5m1m | 14.8186 | 7.4 | 22.22 | -0.07 |
| 5m3m | 15.7186 | 6.9 | 22.62 | 0.421 |



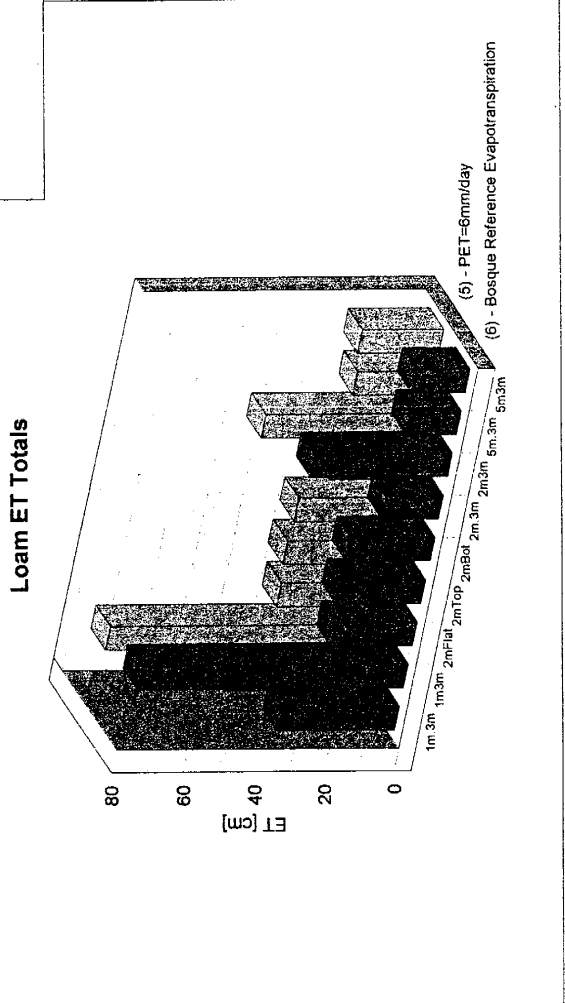
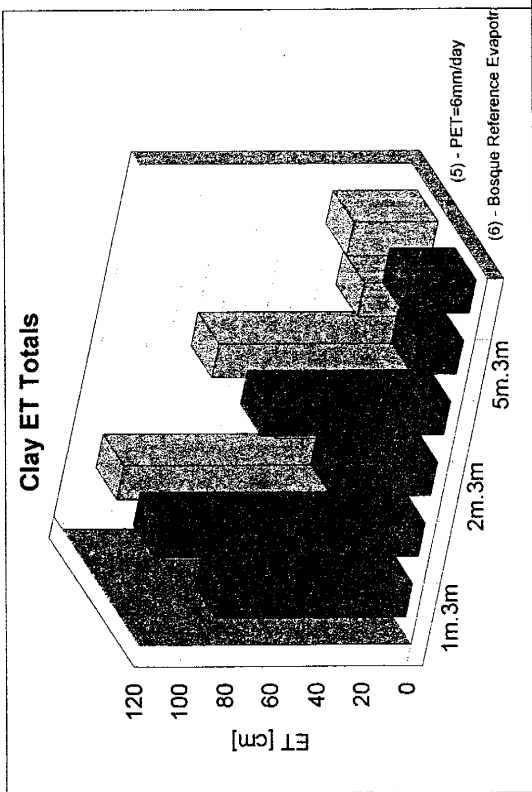
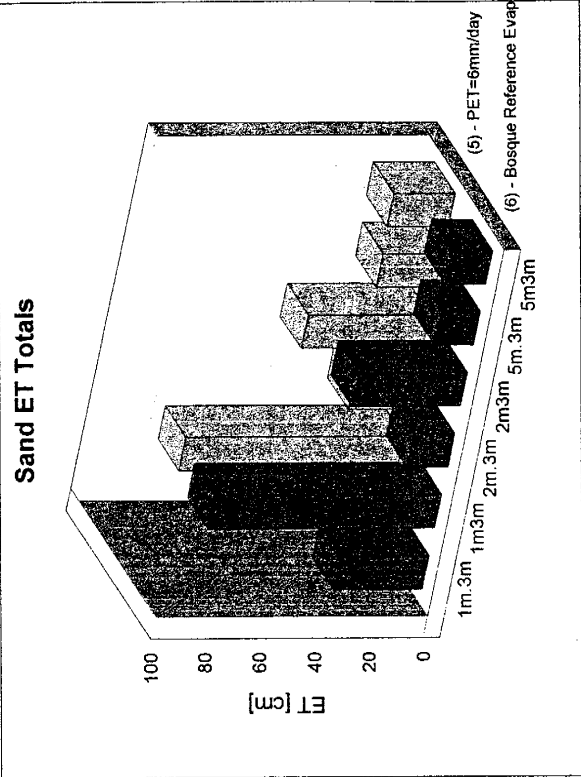
TOTAL FLUXES

(5) - PET=6mm/day

(6) - Bosque Reference Evapotranspiration

A-130

| | Cumulative Evap. [cm] | Cumulative Transp. [cm] | Cumulative ET [cm] | Cumulative Discharge[cm] |
|---------------|-----------------------|-------------------------|--------------------|--------------------------|
| | (5) | (6) | (5) | (6) |
| CLAY | | | | |
| <u>1m.3m</u> | 25.7186 | 20.1002 | 64 | 63 |
| <u>1m3m</u> | 34.9186 | 21.3002 | 81 | 95 |
| <u>2m.3m</u> | 19.5306 | 15.9002 | 32 | 28 |
| <u>2m3m</u> | 19.2686 | 14.2302 | 66 | 66 |
| <u>5m.3m</u> | 17.6186 | 14.2302 | 9.6 | 5.4 |
| <u>5m3m</u> | 18.9186 | 13.8202 | 18.5 | 15 |
| LOAM | | | | |
| <u>1m.3m</u> | 14.2186 | 11.3302 | 27 | 22.3 |
| <u>1m3m</u> | 16.8186 | 12.37 | 60 | 63 |
| <u>2mFlat</u> | 15.4186 | 11.75 | 16.1 | 11.7 |
| <u>2mTop</u> | 14.9186 | 11.58 | 17.4 | 12.7 |
| <u>2mBot</u> | 17.7186 | 12.74 | 13.9 | 11.2 |
| <u>2m.3m</u> | 14.2186 | 11.34 | 9.7 | 4.8 |
| <u>2m3m</u> | 16.8186 | 12.37 | 29 | 27.00 |
| <u>5m.3m</u> | 14.2186 | 11.39 | 7.7 | 3.01 |
| <u>5m3m</u> | 16.8186 | 12.37 | 6.2 | 2.80 |
| SAND | | | | |
| <u>1m.3m</u> | 13.6186 | 11.02 | 26 | 21.70 |
| <u>1m3m</u> | 16.0186 | 11.99 | 64 | 71.00 |
| <u>2m.3m</u> | 13.6186 | 11.34 | 9.2 | 3.60 |
| <u>2m3m</u> | 15.7186 | 11.99 | 29 | 28.00 |
| <u>5m.3m</u> | 13.6186 | 11.06 | 8.3 | 3.26 |
| <u>5m3m</u> | 15.7186 | 12.20 | 6.9 | 2.80 |



New Mexico Bureau
of
Geology and Mineral Resources

**IMPORTANCE OF GROUNDWATER DEPTH, SOIL TEXTURE AND ROOTING
DEPTH ON ARID RIPARIAN EVAPOTRANSPIRATION**

Volume II

By Behnaum Moayyad

An Independent Study Submitted to the
HYDROLOGY PROGRAM OF THE
EARTH AND ENVIRONMENTAL SCIENCE DEPARTMENT
In Partial Fulfillment of the Requirements
Of the Degree of
MASTER OF SCIENCE
NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

July 2001

Appendix B.1. Measured Evapotranspiration

B-1

| DOY | PRECIP mm/day | Saltcedar mm/day | Cottonwood mm/day | ETR_PM63 mm/day | Kc(SC) | Kc(CW) |
|-----|------------------|---------------------|----------------------|--------------------|--------|--------|
| 1 | 0 | 0.78 | 0.56 | | | |
| 2 | 0 | 0.82 | 0.29 | | | |
| 3 | 0 | 0.94 | 0.76 | | | |
| 4 | 0 | 0.95 | 0.55 | | | |
| 5 | 0 | 1.07 | 0.41 | | | |
| 6 | 0 | 1.06 | 0.53 | | | |
| 7 | 0 | 0.69 | 0.30 | | | |
| 8 | 0 | 0.63 | 0.20 | | | |
| 9 | 0 | 0.68 | 0.64 | | | |
| 10 | 0 | 0.91 | 0.66 | | | |
| 11 | 0 | 0.81 | 0.47 | | | |
| 12 | 0 | 0.83 | 0.32 | | | |
| 13 | 0 | 0.67 | 0.24 | | | |
| 14 | 0 | 0.79 | 0.63 | | | |
| 15 | 0 | 1.16 | 0.56 | | | |
| 16 | 0 | 0.69 | 0.33 | | | |
| 17 | 0 | 1.01 | 0.46 | | | |
| 18 | 0 | 0.56 | 0.16 | | | |
| 19 | 0 | 0.85 | 0.41 | | | |
| 20 | 0 | 0.84 | 0.55 | | | |
| 21 | 0 | 1.82 | 1.51 | | | |
| 22 | 0 | 1.08 | 1.24 | | | |
| 23 | 0 | 0.86 | 0.63 | | | |
| 24 | 0 | 0.83 | 0.33 | | | |
| 25 | 0 | 0.62 | 0.18 | | | |
| 26 | 0 | 1.02 | 0.58 | | | |
| 27 | 0 | 0.73 | 0.79 | | | |
| 28 | 0 | 1.24 | 1.41 | | | |
| 29 | 0 | 0.49 | 0.63 | | | |
| 30 | 0 | 1.26 | 1.96 | | | |
| 31 | 0 | 1.41 | 1.45 | | | |
| 32 | 0 | 1.15 | 1.03 | | | |
| 33 | 0 | 0.90 | 0.10 | | | |
| 34 | 0 | 1.08 | 0.43 | | | |
| 35 | 0 | 0.72 | 0.39 | | | |
| 36 | 0 | 0.40 | 0.29 | | | |
| 37 | 0 | 0.88 | 0.88 | | | |
| 38 | 0 | 0.83 | 0.49 | | | |
| 39 | 0 | 0.89 | 0.51 | | | |
| 40 | 0 | 1.08 | 0.39 | | | |
| 41 | 0 | 1.20 | 1.18 | | | |
| 42 | 0 | 1.05 | 1.50 | | | |
| 43 | 0 | 0.91 | 1.18 | | | |
| 44 | 0 | 1.08 | 0.53 | | | |
| 45 | 0 | 1.02 | 0.27 | | | |
| 46 | 0 | 1.34 | 1.33 | | | |
| 47 | 0 | 0.41 | 0.03 | | | |
| 48 | 0 | 0.82 | 0.65 | | | |
| 49 | 0 | 1.00 | 0.85 | | | |
| 50 | 0 | 0.81 | 0.41 | | | |
| 51 | 0 | 0.98 | 1.31 | | | |
| 52 | 0 | 0.83 | 0.81 | | | |
| 53 | 0 | 1.10 | 1.30 | | | |
| 54 | 0 | 0.97 | 0.51 | | | |
| 55 | 0 | 1.01 | 0.69 | | | |
| 56 | 0 | 0.85 | 0.18 | | | |
| 57 | 0 | 0.99 | 0.71 | | | |
| 58 | 0 | 0.90 | 0.32 | | | |
| 59 | 0 | 1.05 | 0.49 | | | |
| 60 | 0 | 1.11 | 0.60 | | | |
| 61 | 0 | 0.77 | 0.86 | | | |

| | | | | | | |
|-----|-------|------|------|-------|------|------|
| 62 | 0 | 0.88 | 0.84 | | | |
| 63 | 0 | 1.08 | 0.84 | | | |
| 64 | 0 | 1.23 | 0.90 | | | |
| 65 | 0 | 1.08 | 0.93 | | | |
| 66 | 0 | 0.94 | 0.99 | | | |
| 67 | 0 | 1.02 | 0.70 | | | |
| 68 | 0 | 1.04 | 1.00 | | | |
| 69 | 0 | 0.84 | 0.72 | | | |
| 70 | 0 | 1.07 | 1.01 | | | |
| 71 | 0 | 0.73 | 0.78 | | | |
| 72 | 0 | 1.35 | 1.16 | | | |
| 73 | 0 | 1.07 | 1.05 | | | |
| 74 | 0 | 0.90 | 0.40 | | | |
| 75 | 0 | 1.27 | 0.90 | | | |
| 76 | 6.096 | 1.34 | 1.74 | | | |
| 77 | 1.016 | 2.11 | 2.58 | | | |
| 78 | 0 | 1.72 | 1.14 | | | |
| 79 | 0 | 2.15 | 1.30 | | | |
| 80 | 0 | 1.87 | 1.30 | | | |
| 81 | 0 | 1.73 | 1.35 | | | |
| 82 | 0 | 1.37 | 0.72 | | | |
| 83 | 0 | 1.21 | 0.93 | | | |
| 84 | 0 | 1.07 | 0.67 | | | |
| 85 | 5.842 | 1.54 | 1.16 | | | |
| 86 | 0.254 | 3.01 | 2.37 | | | |
| 87 | 0 | 1.55 | 1.45 | | | |
| 88 | 0 | 1.84 | 0.87 | | | |
| 89 | 0 | 1.22 | 0.62 | | | |
| 90 | 0 | 1.72 | 1.67 | | | |
| 91 | 0 | 1.04 | 1.14 | | | |
| 92 | 0 | 1.07 | 1.18 | | | |
| 93 | 0 | 1.33 | 0.75 | | | |
| 94 | 0 | 0.69 | 0.57 | | | |
| 95 | 0 | 0.91 | 0.45 | 6.38 | 0.14 | 0.07 |
| 96 | 0 | 1.06 | 1.01 | 7.84 | 0.13 | 0.13 |
| 97 | 0 | 1.30 | 1.19 | 9.09 | 0.14 | 0.13 |
| 98 | 0 | 0.84 | 1.57 | 7.22 | 0.12 | 0.22 |
| 99 | 0 | 2.05 | 1.96 | 9.88 | 0.21 | 0.20 |
| 100 | 0 | 0.79 | 1.43 | 7.68 | 0.10 | 0.19 |
| 101 | 0 | 0.88 | 1.19 | 7.61 | 0.12 | 0.16 |
| 102 | 0 | 1.23 | 1.43 | 9.03 | 0.14 | 0.16 |
| 103 | 0 | 1.30 | 1.48 | 7.60 | 0.17 | 0.19 |
| 104 | 0 | 2.26 | 2.31 | 9.08 | 0.25 | 0.25 |
| 105 | 0 | 1.03 | 0.80 | 7.78 | 0.13 | 0.10 |
| 106 | 0 | 1.27 | 1.49 | 7.33 | 0.17 | 0.20 |
| 107 | 0 | 1.52 | 2.14 | 7.13 | 0.21 | 0.30 |
| 108 | 0 | 0.95 | 0.73 | 7.43 | 0.13 | 0.10 |
| 109 | 0 | 1.58 | 1.30 | 8.44 | 0.19 | 0.15 |
| 110 | 0 | 1.35 | 1.30 | 9.36 | 0.14 | 0.14 |
| 111 | 0 | 1.64 | 1.71 | 9.06 | 0.18 | 0.19 |
| 112 | 0 | 1.96 | 2.53 | 11.48 | 0.17 | 0.22 |
| 113 | 0 | 1.92 | 2.44 | 11.41 | 0.17 | 0.21 |
| 114 | 0 | 1.51 | 2.26 | 5.68 | 0.27 | 0.40 |
| 115 | 0 | 1.74 | 1.73 | 5.76 | 0.30 | 0.30 |
| 116 | 0 | 2.26 | 2.14 | 9.04 | 0.25 | 0.24 |
| 117 | 0 | 1.69 | 2.13 | 7.80 | 0.22 | 0.27 |
| 118 | 0 | 1.06 | 1.73 | 4.95 | 0.21 | 0.35 |
| 119 | 0 | 2.32 | 2.75 | 9.85 | 0.24 | 0.28 |
| 120 | 0 | 2.55 | 2.55 | 9.23 | 0.28 | 0.28 |
| 121 | 0 | 1.63 | 2.21 | 5.72 | 0.28 | 0.39 |
| 122 | 0 | 2.23 | 2.07 | 8.43 | 0.26 | 0.25 |
| 123 | 0 | 2.20 | 3.07 | 8.48 | 0.26 | 0.36 |
| 124 | 0 | 2.77 | 3.04 | 9.70 | 0.29 | 0.31 |
| 125 | 0 | 2.67 | 3.21 | 9.17 | 0.29 | 0.35 |
| 126 | 0 | 2.17 | 3.20 | 8.72 | 0.25 | 0.37 |
| 127 | 0 | 2.16 | 2.58 | 8.30 | 0.26 | 0.31 |
| 128 | 0 | 2.45 | 3.61 | 9.56 | 0.26 | 0.38 |

| | | | | | | |
|-----|-------|------|------|-------|------|------|
| 129 | 0 | 2.71 | 3.60 | 9.32 | 0.29 | 0.39 |
| 130 | 0 | 3.06 | 3.84 | 9.80 | 0.31 | 0.39 |
| 131 | 0 | 2.17 | 2.79 | 6.54 | 0.33 | 0.43 |
| 132 | 0 | 3.32 | 4.27 | 9.40 | 0.35 | 0.45 |
| 133 | 0 | 3.25 | 3.93 | 9.41 | 0.35 | 0.42 |
| 134 | 0 | 3.64 | 4.03 | 10.69 | 0.34 | 0.38 |
| 135 | 0 | 3.85 | 4.18 | 10.31 | 0.37 | 0.41 |
| 136 | 0 | 3.90 | 4.03 | 9.75 | 0.40 | 0.41 |
| 137 | 0 | 3.82 | 3.77 | 9.28 | 0.41 | 0.41 |
| 138 | 0 | 3.95 | 3.60 | 9.51 | 0.42 | 0.38 |
| 139 | 0 | 4.75 | 4.77 | 11.14 | 0.43 | 0.43 |
| 140 | 0 | 4.96 | 4.05 | 9.68 | 0.51 | 0.42 |
| 141 | 0 | 4.97 | 3.64 | 9.29 | 0.53 | 0.39 |
| 142 | 0 | 5.86 | 4.24 | 10.06 | 0.58 | 0.42 |
| 143 | 3.556 | 4.81 | 3.96 | 6.30 | 0.76 | 0.63 |
| 144 | 6.604 | 5.53 | 5.62 | 5.47 | 1.01 | 1.03 |
| 145 | 0 | 6.91 | 5.37 | 8.58 | 0.81 | 0.63 |
| 146 | 0 | 4.97 | 3.33 | 6.49 | 0.77 | 0.51 |
| 147 | 0 | 5.57 | 3.04 | 8.73 | 0.64 | 0.35 |
| 148 | 0.508 | 5.24 | 3.17 | 6.65 | 0.79 | 0.48 |
| 149 | 0.762 | 5.51 | 3.01 | 7.78 | 0.71 | 0.39 |
| 150 | 0 | 6.45 | 4.09 | 8.89 | 0.73 | 0.46 |
| 151 | 0 | 5.79 | 4.23 | 7.44 | 0.78 | 0.57 |
| 152 | 0 | 7.78 | 4.88 | 10.19 | 0.76 | 0.48 |
| 153 | 0 | 7.52 | 4.64 | 10.46 | 0.72 | 0.44 |
| 154 | 0 | 7.89 | 5.39 | 10.53 | 0.75 | 0.51 |
| 155 | 0 | 8.76 | 5.67 | 11.81 | 0.74 | 0.48 |
| 156 | 0 | 7.15 | 3.80 | 9.26 | 0.77 | 0.41 |
| 157 | 0 | 7.22 | 4.39 | 9.25 | 0.78 | 0.47 |
| 158 | 0 | 8.00 | 5.03 | 10.11 | 0.79 | 0.50 |
| 159 | 0 | 8.22 | 4.59 | 10.64 | 0.77 | 0.43 |
| 160 | 0 | 8.06 | 4.13 | 9.67 | 0.83 | 0.43 |
| 161 | 0 | 8.30 | 4.70 | 10.01 | 0.83 | 0.47 |
| 162 | 0 | 8.43 | 4.84 | 10.10 | 0.83 | 0.48 |
| 163 | 0 | 7.41 | 4.13 | 10.06 | 0.74 | 0.41 |
| 164 | 0 | 6.36 | 3.59 | 7.02 | 0.90 | 0.51 |
| 165 | 0 | 7.08 | 3.62 | 8.51 | 0.83 | 0.43 |
| 166 | 0 | 7.35 | 3.74 | 9.19 | 0.80 | 0.41 |
| 167 | 0 | 7.94 | 4.50 | 8.42 | 0.94 | 0.53 |
| 168 | 3.556 | 5.07 | 3.53 | 6.12 | 0.83 | 0.58 |
| 169 | 0 | 5.87 | 3.83 | 7.01 | 0.84 | 0.55 |
| 170 | 0 | 6.34 | 3.51 | 7.03 | 0.90 | 0.50 |
| 171 | 0 | 6.86 | 3.70 | 8.02 | 0.85 | 0.46 |
| 172 | 0 | 6.27 | 3.22 | 6.82 | 0.92 | 0.47 |
| 173 | 0 | 8.42 | 4.18 | 9.16 | 0.92 | 0.46 |
| 174 | 0 | 8.11 | 4.43 | 9.35 | 0.87 | 0.47 |
| 175 | 0 | 8.44 | 4.10 | 9.88 | 0.85 | 0.42 |
| 176 | 0 | 8.42 | 4.45 | 8.77 | 0.96 | 0.51 |
| 177 | 0 | 8.24 | 4.06 | 8.37 | 0.98 | 0.48 |
| 178 | 0 | 7.24 | 4.04 | 7.66 | 0.94 | 0.53 |
| 179 | 1.524 | 8.64 | 4.46 | 9.83 | 0.88 | 0.45 |
| 180 | 0 | 9.33 | 5.30 | 11.06 | 0.84 | 0.48 |
| 181 | 0 | 9.29 | 4.15 | 11.00 | 0.84 | 0.38 |
| 182 | 0 | 9.17 | 4.70 | 10.61 | 0.86 | 0.44 |
| 183 | 0 | 7.91 | 4.91 | 8.99 | 0.88 | 0.55 |
| 184 | 0 | 8.70 | 4.62 | 8.50 | 1.02 | 0.54 |
| 185 | 0.254 | 9.35 | 5.57 | 8.48 | 1.10 | 0.66 |
| 186 | 0.508 | 5.80 | 4.12 | 7.30 | 0.79 | 0.56 |
| 187 | 0.508 | 5.85 | 4.91 | 6.22 | 0.94 | 0.79 |
| 188 | 0 | 8.35 | 4.88 | 8.87 | 0.94 | 0.55 |
| 189 | 0 | 7.94 | 5.60 | 7.84 | 1.01 | 0.71 |
| 190 | 5.334 | 8.02 | 5.01 | 8.36 | 0.96 | 0.60 |
| 191 | 0 | 6.06 | 4.72 | 5.08 | 1.19 | 0.93 |
| 192 | 0 | 8.43 | 5.24 | 9.09 | 0.93 | 0.58 |
| 193 | 0 | 8.61 | 5.10 | 8.75 | 0.98 | 0.58 |
| 194 | 0 | 8.48 | 5.12 | 8.86 | 0.96 | 0.58 |
| 195 | 0 | 5.92 | 3.69 | 6.08 | 0.97 | 0.61 |

Appendix B.2. Daily Groundwater Level Data

Data logger data:

Data in units of cm below surface.

CCW=central saltcedar transect

CSC=central cottonwood transect

NCW=North cottonwood transect

B-7

Well:

CCW

CCW

CCW

CSC0

CSC2T

CSC3

NCW0

NCW1

NCW3T

NSC1

NSC3

NSC4

| Date | shallow | mid | deep | CSC0 | CSC2T | CSC3 | NCW0 | NCW1 | NCW3T | NSC1 | NSC3 | NSC4 |
|----------|---------|---------|---------|--------|---------|--------|------|------|--------|--------|------|------|
| 9/8/98 | | | | -244 | -286.59 | -370 | | -281 | -243 | | | |
| 9/9/98 | | | | -245 | -285.99 | -373 | | | | | | |
| 9/10/98 | -304.91 | -303 | | -246 | -287.73 | -376 | | | | -246.5 | -333 | |
| 9/11/98 | -304.89 | -304 | | -243 | -290.89 | -378 | | | | | | |
| 9/12/98 | -305.83 | -304 | | -241.3 | -291.44 | -376.8 | | | | | | |
| 9/13/98 | -306.28 | -305 | | -239.6 | -292.93 | -375.6 | | | | | | |
| 9/14/98 | -306.05 | -305 | | -237.9 | -294.43 | -374.4 | | | | | | |
| 9/15/98 | -304.61 | -303 | | -236.2 | -294.6 | -373.2 | | -267 | -223 | | | |
| 9/16/98 | -301.71 | -297 | | -234.5 | -291.6 | -372 | | | | | | |
| 9/17/98 | -295.48 | -295.2 | | -232.8 | -285.4 | -370.8 | | | | | | |
| 9/18/98 | -293.31 | -293.4 | | -231.1 | -282.88 | -369.6 | | | | | | |
| 9/19/98 | -292.03 | -291.6 | | -229.4 | -280.91 | -368.4 | | | | | | |
| 9/20/98 | -293.23 | -289.5 | | -228 | -279.1 | -367.2 | | -260 | -213.5 | | | |
| 9/21/98 | -290.23 | -288.5 | | -227 | -276.79 | -362 | | | | | | |
| 9/22/98 | -289.7 | -288 | | -226 | -275.42 | -362.2 | | -258 | -194 | | | |
| 9/23/98 | -289.41 | -288 | | -224 | -275.02 | -362.4 | | | | | | |
| 9/24/98 | -289.33 | -288 | | -224 | -276.01 | -362.2 | | | | | | |
| 9/25/98 | -289.34 | -288 | | -223 | -277.89 | -362 | | | | | | |
| 9/26/98 | -288.84 | -286 | | -222.3 | -279.46 | -361 | | | | | | |
| 9/27/98 | -288.12 | -284 | | -221.6 | -280.88 | -360 | | | | | | |
| 9/28/98 | -287.16 | -282 | | -220.9 | -282.04 | -359 | | | | | | |
| 9/29/98 | -285.84 | -281 | -285.94 | -220.2 | -282.59 | -358 | | | | | | |
| 9/30/98 | -284.68 | -280 | -284.97 | -219.5 | -281.67 | -357 | | | | | | |
| 10/1/98 | -283.08 | -279 | -283.21 | -218.8 | -275.85 | -356 | | | | | | |
| 10/2/98 | -281.52 | -278 | -281.91 | -218.1 | -272.86 | -355 | | | | | | |
| 10/3/98 | -280.71 | -277 | -280.94 | -218 | -271.07 | -355 | | -241 | -190 | | | |
| 10/4/98 | -281.14 | -277 | -281.2 | -217 | -268.81 | -354.4 | | | | | | |
| 10/5/98 | -280.49 | -277 | -280.48 | -216 | -266.47 | -353.8 | | | | | | |
| 10/6/98 | -279.53 | -276 | -279.53 | -215.5 | -264.68 | -353.2 | | | | | | |
| 10/7/98 | -278.8 | -275 | -278.86 | -214.5 | -263.85 | -352.6 | | | | | | |
| 10/8/98 | -278.48 | -275 | -278.61 | -213.5 | -263.2 | -352 | | | | | | |
| 10/9/98 | -279.22 | -276 | -279.44 | -213 | -263.25 | -351.4 | | | | | | |
| 10/10/98 | -280.55 | -275 | -280.78 | -212 | -263.74 | -350.8 | | | | | | |
| 10/11/98 | -281.68 | -274 | -281.98 | -211 | -265.52 | -350.2 | | | | | | |
| 10/12/98 | -281.98 | -274 | -282.34 | -210 | -265.89 | -349.6 | | | | | | |
| 10/13/98 | -281.75 | -274 | -282.41 | -209.5 | -266.3 | -349 | | | | | | |
| 10/14/98 | -280.54 | -273 | -281.75 | -208.5 | -266 | -348.4 | | | | | | |
| 10/15/98 | -278.39 | -271 | -279.89 | -207.5 | -265.51 | -347.8 | | | | | | |
| 10/16/98 | -277.34 | -270 | -278.55 | -206.5 | -267.06 | -347.2 | | | | | | |
| 10/17/98 | -277.01 | -267 | -278.13 | -205.5 | -269.71 | -346.6 | | | | | | |
| 10/18/98 | -276.07 | -267 | -277.82 | -204.5 | -270.82 | -346 | | | | | | |
| 10/19/98 | -275.88 | -266 | -278.03 | -204 | -272.73 | -345.4 | | | | | | |
| 10/20/98 | -275.01 | -266 | -277.22 | -204 | -272.37 | -344.8 | | | | | | |
| 10/21/98 | -266 | -266 | -278.11 | -203 | -270.33 | -344.2 | | | | | | |
| 10/22/98 | -269.76 | -266 | -284.6 | -202 | -267.75 | -343.6 | | | | | | |
| 10/23/98 | -265.44 | -266 | -273.17 | -202 | -264.68 | -343 | | | | | | |
| 10/24/98 | -263.98 | -266 | -271.74 | -201 | -262.23 | -342.4 | | | | | | |
| 10/25/98 | -262.69 | -266 | -270.4 | -200 | -259.73 | -341.8 | | | | | | |
| 10/26/98 | -261.45 | -266 | -269.32 | -199 | -258.13 | -341.2 | | | | | | |
| 10/27/98 | -259.86 | -266 | -268.28 | -198 | -256.76 | -340.6 | | | | | | |
| 10/28/98 | -257.61 | -266 | -267 | -197 | -254.84 | -340 | | | | | | |
| 10/29/98 | -255.6 | -266 | -265.82 | -196 | -253.84 | -339.4 | | | | | | |
| 10/30/98 | -254.96 | -266.09 | -265.51 | -195 | -251.64 | -338.8 | | | | | | |
| 10/31/98 | -258.93 | -265.67 | -266.6 | -194 | -248.77 | -338.2 | | | | | | |
| 11/1/98 | -263.14 | -264.78 | -267.64 | -194 | -253 | -338 | | -232 | -187 | -227 | -325 | |
| 11/2/98 | -262.31 | -263.86 | -267.9 | -192 | -255.34 | -337.6 | | | | | | |
| 11/3/98 | -262.13 | -263.76 | -269.98 | -190 | -254.75 | -337.2 | | | | | | |
| 11/4/98 | -262.2 | -263.87 | -271.77 | -188 | -254.32 | -336.8 | | | | | | |
| 11/5/98 | -262.21 | -263.88 | -270.92 | -186 | -253.53 | -336.4 | | | | | | |
| 11/6/98 | -262.24 | -263.8 | -270.01 | -184 | -252.43 | -336 | | | | | | |
| 11/7/98 | -262.27 | -264.01 | -271.34 | -182 | -250.95 | -335.6 | | | | | | |

| | | | | | | | | | | |
|----------|---------|---------|---------|---------|---------|--------|------|------|------|------|
| 11/8/98 | -261.92 | -263.6 | -267.41 | -180 | -248.8 | -335.2 | | | | |
| 11/9/98 | -261.67 | -262.93 | -265.29 | -178 | -247.34 | -334.8 | | | | |
| 11/10/98 | -261.81 | -263.72 | -270.79 | -176 | -247.34 | -334.4 | | | | |
| 11/11/98 | -262.03 | -263.9 | -265.7 | -174 | -246.81 | -334 | | | | |
| 11/12/98 | -262.28 | -264.13 | -263.22 | -172 | -245.87 | -333.6 | | | | |
| 11/13/98 | -262.38 | -264.28 | -263.53 | -170 | -244.25 | -334.2 | | | | |
| 11/14/98 | -262.4 | -264.27 | -263.35 | -168 | -243.16 | -334.8 | | | | |
| 11/15/98 | -262.49 | -264.31 | -263.32 | -166 | -242.19 | -335.4 | | | | |
| 11/16/98 | -262.68 | -264.47 | -263.58 | -164 | -241.35 | -336 | | | | |
| 11/17/98 | -262.81 | -264.56 | -263.51 | -162 | -240.4 | -336.6 | | | | |
| 11/18/98 | -262.78 | -264.52 | -263.88 | -160 | -239.29 | -337.2 | | | | |
| 11/19/98 | -262.62 | -264.51 | -263.74 | -158 | -238.22 | -337.8 | | | | |
| 11/20/98 | -262.32 | -264.38 | -263.59 | -156 | -237.23 | -338.4 | | | | |
| 11/21/98 | -262.03 | -264.09 | -262.76 | -154 | -236.63 | -339 | | | | |
| 11/22/98 | -261.65 | -263.43 | -263.13 | -152 | -236.21 | -339.6 | | | | |
| 11/23/98 | -261.17 | -262.91 | -264.93 | -151 | -236.21 | -340 | -248 | -208 | -210 | -328 |
| 11/24/98 | -260.94 | -262.56 | -260.89 | -152 | -235.24 | -339.7 | | | | |
| 11/25/98 | -260.86 | -262.84 | -260.46 | -153 | -234.71 | -339.4 | | | | |
| 11/26/98 | -260.71 | -262.78 | -258.56 | -154 | -233.77 | -339.1 | | | | |
| 11/27/98 | -260.53 | -262.57 | -256.93 | -155 | -232.95 | -338.8 | | | | |
| 11/28/98 | -260.28 | -262 | -256.41 | -156 | -232.08 | -338.5 | | | | |
| 11/29/98 | -260.27 | -261.95 | -257.77 | -157 | -231.34 | -338.2 | | | | |
| 11/30/98 | -260.17 | -262.51 | -259.34 | -158 | -229.65 | -337.8 | | | | |
| 12/1/98 | -259.97 | -262.25 | -257.88 | -159 | -231.13 | -337.4 | | | | |
| 12/2/98 | -260.41 | -262.06 | -255.01 | -160 | -231.4 | -337 | | | | |
| 12/3/98 | -259.95 | -261.62 | -253.99 | -161 | -230.11 | -336.6 | | | | |
| 12/4/98 | -259.1 | -261.31 | -253.84 | -162 | -228.91 | -336.2 | | | | |
| 12/5/98 | -258.95 | -261.09 | -252.89 | -163 | -229.99 | -335.8 | | | | |
| 12/6/98 | -258.93 | -261.13 | -253.1 | -164 | -229.81 | -335.4 | | | | |
| 12/7/98 | -259.3 | -261.8 | -254.32 | -165 | -230.81 | -335.2 | | | | |
| 12/8/98 | -259.6 | -261.98 | -252.98 | -166 | -232.15 | -335 | | | | |
| 12/9/98 | -259.42 | -261.66 | -251.42 | -167 | -233.36 | -334.8 | | | | |
| 12/10/98 | -259.95 | -262.54 | -255.13 | -168 | -235.41 | -334.6 | | | | |
| 12/11/98 | -260.24 | -262.59 | -253.37 | -169 | -235.78 | -334.7 | | | | |
| 12/12/98 | -260.5 | -262.84 | -253.72 | -170 | -236.9 | -334.8 | | | | |
| 12/13/98 | -260.91 | -263.28 | -254.93 | -171 | -238.08 | -334.9 | | | | |
| 12/14/98 | -261.37 | -263.57 | -252.75 | -172 | -238.96 | -335 | | | | |
| 12/15/98 | -261.9 | -264.1 | -254.19 | -173 | -240.42 | -335.1 | | | | |
| 12/16/98 | -262.23 | -264.56 | -255.72 | -174 | -242.06 | -335.2 | | | | |
| 12/17/98 | -262.25 | -264.5 | -254.17 | -176 | -242.84 | -335 | | | -203 | -327 |
| 12/18/98 | -261.99 | -263.92 | -255.54 | -175.25 | -242.59 | -334.8 | -233 | -181 | | |
| 12/19/98 | -262.32 | -264.19 | -261.95 | -174.5 | -242.11 | -334.6 | | | | |
| 12/20/98 | -262.23 | -264.1 | -258.25 | -173.75 | -240.42 | -334.4 | | | | |
| 12/21/98 | -262.36 | -264.38 | -259.01 | -173 | -239.77 | -334.3 | | | | |
| 12/22/98 | -262.49 | -264.5 | -258.22 | -172.25 | -240.52 | -334.1 | | | | |
| 12/23/98 | -262.57 | -264.51 | -258.72 | -171.5 | -240.72 | -333.9 | | | | |
| 12/24/98 | -262.97 | -265.17 | -258.68 | -170.75 | -240.92 | -333.7 | | | | |
| 12/25/98 | -263.15 | -265.3 | -258.75 | -170 | -241.12 | -333.5 | | | | |
| 12/26/98 | -263.09 | -265.09 | -258.88 | -169.25 | -241.39 | -333.3 | | | | |
| 12/27/98 | -263.13 | -265.15 | -263.04 | -168.5 | -241.09 | -333.1 | | | | |
| 12/28/98 | -263.23 | -265.29 | -265.24 | -167.75 | -240.79 | -332.9 | | | | |
| 12/29/98 | -263.26 | -265.36 | -262.24 | -167 | -240.49 | -332.7 | | | | |
| 12/30/98 | -263.05 | -265.03 | -261.69 | -166.25 | -240.19 | -332.5 | | | | |
| 12/31/98 | -262.99 | -265.01 | -260.94 | -165.5 | -239.89 | -332.3 | | | | |
| 1/1/99 | -262.69 | -264.59 | -262.17 | -164.75 | -239.59 | -332.1 | | | | |
| 1/2/99 | -262.76 | -264.85 | -262.13 | -164 | -239.29 | -332 | | | | |
| 1/3/99 | -262.74 | -264.88 | -262.52 | -163.25 | -240 | -331.8 | | | | |
| 1/4/99 | -262.7 | -264.81 | -261.97 | -162.5 | -239.7 | -331.6 | | | | |
| 1/5/99 | -262.63 | -264.59 | -261.44 | -161.75 | -239.4 | -331.4 | | | | |
| 1/6/99 | -262.55 | -264.51 | -261.02 | -161 | -239.1 | -331.2 | | | | |
| 1/7/99 | -262.01 | -263.94 | -259.22 | -160.25 | -238.8 | -331 | | | | |
| 1/8/99 | -261.2 | -263.17 | -260.78 | -159.5 | -238.5 | -330.8 | | | | |
| 1/9/99 | -260.47 | -262.67 | -261.69 | -158.75 | -238.2 | -330.7 | | | | |
| 1/10/99 | -259.64 | -261.91 | -259.67 | -158 | -237.9 | -330.5 | | | | |
| 1/11/99 | -258.9 | -261 | -255.59 | -157.25 | -237.6 | -330.4 | | | | |
| 1/12/99 | -258.25 | -260.21 | -253.14 | -156.5 | -237.3 | -330.3 | | | | |
| 1/13/99 | -258.1 | -260.37 | -259.1 | -155.75 | -237 | -330.2 | | | | |

| | | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| 3/22/99 | -250.12 | -249.42 | -254.83 | -104.99 | -201.7 | -307.4 | | -212.24 | -141.1 | -202.15 | -307.73 | |
| 3/23/99 | -249.61 | -248.91 | -256.28 | -112.69 | -206.91 | -308.4 | | -213.53 | -145.45 | -201.48 | -308 | |
| 3/24/99 | -250.01 | -249.42 | -259.04 | -117.25 | -211.98 | -310.4 | | -217.12 | -149.71 | -203.69 | -310.83 | |
| 3/25/99 | -250.55 | -250.04 | -260.32 | -124.92 | -216.28 | -315.4 | | -217.95 | -147.62 | -206.11 | -312.53 | |
| 3/26/99 | -250.58 | -250.02 | -256.22 | -132.18 | -214.97 | -319.95 | | -216.72 | -145.91 | -208.96 | -311.8 | |
| 3/27/99 | -249.66 | -249.02 | -256.88 | -129.25 | -216 | -319.6 | | -215.07 | -146.27 | -210.79 | -309.45 | |
| 3/28/99 | -249.21 | -248.53 | -260.58 | -129.83 | -216.23 | -319.35 | | -219.51 | -160.64 | -212.51 | -307.49 | |
| 3/29/99 | -249.05 | -248.41 | -260.71 | -124.08 | -214.24 | -318.49 | | -224.01 | -170.09 | -213.81 | -308.21 | |
| 3/30/99 | -250.32 | -249.84 | -255.97 | -110.8 | -210.02 | -318.59 | | -224.68 | -168.09 | -213.4 | -311.75 | |
| 3/31/99 | -253.57 | -254.13 | -258.76 | -116.47 | -211.26 | -319.9 | | -222.6 | -161.11 | -212.67 | -313.35 | |
| 4/1/99 | -253.37 | -252.23 | -257.42 | -123.77 | -215.01 | -322.25 | | -222.53 | -163.7 | -213.84 | -314.02 | |
| 4/2/99 | -254.39 | -253.26 | -257.56 | -129.39 | -218.85 | -324.85 | | -223.54 | -167.34 | -215.69 | -314.87 | |
| 4/3/99 | -254.81 | -253.67 | -254.99 | -127.66 | -218.53 | -324.03 | | -223.53 | -165.13 | -217.31 | -313.82 | |
| 4/4/99 | -254.62 | -253.42 | -253.6 | -123.18 | -216.04 | -322.31 | | -220.31 | -158.36 | -218.22 | -313.4 | |
| 4/5/99 | -254.36 | -253.13 | -253.99 | -118.51 | -214.37 | -321.88 | | -219.06 | -158.9 | -219.05 | -314.23 | |
| 4/6/99 | -253.71 | -252.53 | -251.8 | -107.1 | -208.43 | -317.65 | | -218.05 | -155.47 | -216.84 | -316.85 | |
| 4/7/99 | -253.33 | -252.17 | -250.1 | -111.03 | -207.93 | -317 | | -217.27 | -156.7 | -213.61 | -316.41 | |
| 4/8/99 | -254.31 | -253.21 | -250.97 | -116.09 | -210.99 | -319.84 | | -221.52 | -166.72 | -212.71 | -317.76 | |
| 4/9/99 | -255.45 | -254.44 | -246.69 | -121.14 | -213.29 | -322.12 | | -221.99 | -168.51 | -212.42 | -319.36 | |
| 4/10/99 | -257.28 | -256.19 | -252.71 | -131.12 | -219.12 | -326.24 | | -225.03 | -165.15 | -215.79 | -320.74 | |
| 4/11/99 | -258.55 | -257.44 | -253.38 | -135.54 | -222.57 | -328.48 | | -221.95 | -152.89 | -218.3 | -321.56 | |
| 4/12/99 | -258.53 | -257.37 | -252.13 | -135.98 | -223.18 | -328.11 | | -216.43 | -137.42 | -219.62 | -320.78 | |
| 4/13/99 | -258.06 | -256.89 | -248.45 | -134.62 | -223.24 | -328.46 | | -211.14 | -126.87 | -220.38 | -321 | |
| 4/14/99 | -257.3 | -256.13 | -250.29 | -133.06 | -222.52 | -328.19 | | -206.99 | -115.12 | -221.43 | -320.97 | |
| 4/15/99 | -255.68 | -257.46 | -254.34 | -137.73 | -224.86 | -329.4 | | -203.93 | -115.13 | -222.56 | -321.13 | |
| 4/16/99 | -253.73 | -252.54 | -256.48 | -136.7 | -224.48 | -328.8 | | -203.33 | -122.5 | -223.45 | -321.07 | |
| 4/17/99 | -252.86 | -251.66 | -255.57 | -139.95 | -225.22 | -328.39 | | -209.88 | -147.81 | -226.02 | -320.69 | |
| 4/18/99 | -252.58 | -251.37 | -254.46 | -141.5 | -225.41 | -326.85 | | -215.32 | -161.28 | -225.15 | -318.98 | |
| 4/19/99 | -252.97 | -251.73 | -250.48 | -141.61 | -225.17 | -326.1 | | -219.13 | -172.94 | -224.84 | -318.43 | |
| 4/20/99 | -254.72 | -253.59 | -249.11 | -143.32 | -226.96 | -328.44 | | -221.31 | -181.26 | -225.35 | -321.11 | |
| 4/21/99 | -258.06 | -256.91 | -249.31 | -145.82 | -229.56 | -330.88 | | -227.92 | -187.68 | -226.12 | -322.99 | |
| 4/22/99 | -260.49 | -259.34 | -252.31 | -151.39 | -231.99 | -332.71 | | -233.75 | -193.89 | -228.01 | -323.67 | |
| 4/23/99 | -263.11 | -261.95 | -259.02 | -174.6 | -239.74 | -337.54 | | -238.67 | -200.05 | -230.74 | -325.16 | |
| 4/24/99 | -265.34 | -264.19 | -259.75 | -190.42 | -247.76 | -342.51 | | -242.17 | -204.57 | -232.16 | -326.93 | -320 |
| 4/25/99 | -267.28 | -266.12 | -260.57 | -202.07 | -254.12 | -346.46 | -276 | -245.02 | -208.41 | -233.68 | -328.23 | |
| 4/26/99 | -268.65 | -267.52 | -260.44 | -210.86 | -259.06 | -348.72 | | -246.26 | -211.76 | -235.27 | -327.58 | |
| 4/27/99 | -269.98 | -268.74 | -262.37 | -217.54 | -263.26 | -350.84 | | -248.76 | -215.69 | -237.15 | -327.57 | |
| 4/28/99 | -271.01 | -269.74 | -261.27 | -138.9 | -240.81 | -340.86 | | -248.29 | -218.46 | -237.92 | -327.16 | |
| 4/29/99 | -272.08 | -270.81 | -263.37 | -118.27 | -225.76 | -331.69 | | -221.45 | -236.27 | -237.57 | -327.57 | |
| 4/30/99 | -273.42 | -272.19 | -266.15 | -111.29 | -221.44 | -328.46 | | -224.66 | -233.48 | -327.84 | -326 | |
| 5/1/99 | -274.11 | -274.5 | -270.2 | -107.51 | -215.93 | -324.97 | -273.34 | -259 | -229 | -229.18 | | |
| 5/2/99 | -275.24 | -277.5 | -273.49 | -108.36 | -214.74 | -323.89 | -272.82 | | -232.39 | -225.24 | | |
| 5/3/99 | -276.61 | -278.52 | -269.93 | -106.14 | -213.35 | -323.3 | -274.19 | | -234.96 | -221.72 | | |
| 5/4/99 | -277.79 | -280.28 | -271.22 | -96.614 | -211.71 | -324.95 | -278.87 | | -237.72 | -218.79 | | |
| 5/5/99 | -279.39 | -282.1 | -273.79 | -86.491 | -207.66 | -323.11 | -279.4 | | -240.94 | -211.74 | | |
| 5/6/99 | -281.26 | -283.48 | -273.85 | -84.426 | -204.84 | -320.37 | -278.66 | | -243.37 | -202.97 | | |
| 5/7/99 | -282.66 | -284.74 | -273.67 | -81.277 | -202.72 | -319.24 | -278.97 | | -245.43 | -195.67 | | |
| 5/8/99 | -283.92 | -286.01 | -273.05 | -81.144 | -201.53 | -318.15 | -277.94 | | -247.23 | -190.47 | | |
| 5/9/99 | -285.26 | -287.22 | -272.49 | -81.987 | -201.24 | -317.62 | -278.01 | | -249.09 | -187.8 | | |
| 5/10/99 | -286.5 | -288.51 | -274.11 | -83.657 | -202.02 | -318.11 | -278.05 | | -250.73 | -187.82 | | |
| 5/11/99 | -287.77 | -289.65 | -277.08 | -86.319 | -203.17 | -319.12 | -280.01 | | -252.87 | -188.45 | | |
| 5/12/99 | -288.96 | -291.11 | -277.78 | -87.632 | -205.22 | -321.44 | -281.62 | | -253.87 | -189.34 | | |
| 5/13/99 | -290.4 | -294.84 | -276.96 | -82.183 | -203.62 | -320.49 | -282.44 | | -256.22 | -186.47 | | |
| 5/14/99 | -291.82 | -293.61 | -278.82 | -79.421 | -202 | -318.86 | -278.73 | | -259.24 | -182.57 | | |
| 5/15/99 | -293 | -294.56 | -280.49 | -80.035 | -202.27 | -318.88 | -280.05 | | -260.32 | -181.17 | | |
| 5/16/99 | -294.03 | -295.71 | -281.61 | -78.827 | -202.17 | -319.18 | -279.99 | | -261.28 | -179.7 | | |
| 5/17/99 | -295.17 | -296.66 | -285.46 | -77.58 | -201.62 | -318.68 | -278.83 | | -262.01 | -178.28 | | |
| 5/18/99 | -296.12 | -297.22 | -284.05 | -76.354 | -200.64 | -317.42 | -276.97 | | -261.66 | -176.43 | | |
| 5/19/99 | -296.69 | -297.82 | -282.07 | -70.112 | -198.69 | -316.2 | -276.96 | | -260.86 | -161.54 | -319 | -318 |
| 5/20/99 | -297.33 | -298.63 | -285.2 | -64.239 | -184.51 | -299 | -277.32 | | -261.76 | -118.4 | | |
| 5/21/99 | -298.2 | -299.15 | -286.8 | -62.484 | -170.97 | -283 | -276.26 | | -262.27 | -121.44 | | |
| 5/22/99 | -298.73 | -299.43 | -290.44 | -61.647 | -173.93 | -267 | -276.71 | | -257.9 | -133.79 | | |
| 5/23/99 | -299.05 | -299.28 | -293.54 | -59.964 | -170.83 | -251 | -275.3 | | -252.79 | -131.47 | | |
| 5/24/99 | -298.94 | -296.79 | -292.76 | -57.215 | -166.09 | -230 | -271.25 | | -248.55 | -121.73 | | |
| 5/25/99 | -296.85 | -294.95 | -292.2 | -49.602 | -136.49 | -207.64 | -272 | -265 | -246.28 | -68.701 | | |
| 5/26/99 | -294.79 | -293.26 | -289.83 | -44.044 | -74.266 | -136.17 | -269.02 | | -245.37 | -35.074 | -270 | -297 |
| 5/27/99 | -293.19 | -290.94 | -287.48 | -49.705 | -69.802 | -147.5 | -269.55 | | -245.04 | -54.727 | -300.83 | |

| | | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 5/28/99 | -290.97 | -289.58 | -286.13 | -50.389 | -80 | -204.04 | -270.67 | -245.6 | -86.844 | -301.95 | | |
| 5/29/99 | -289.54 | -288.7 | -284.85 | -43.657 | -94.566 | -172.6 | -270.36 | -246.36 | -57.781 | -299.99 | | |
| 5/30/99 | -288.56 | -288.17 | -280.9 | -37.24 | -54.686 | -117.55 | -270.51 | -248.27 | -39.793 | -296.69 | | |
| 5/31/99 | -288.08 | -287.95 | -278.88 | -26.33 | -57.9 | -136.52 | -270.29 | -250.22 | -47.296 | -293.15 | | |
| 6/1/99 | -287.89 | -288.57 | -278.95 | -21.646 | -72.309 | -168.18 | -271.36 | -252.88 | -63.942 | -294.04 | | |
| 6/2/99 | -288.5 | -290.22 | -278.38 | -21.714 | -80.589 | -187.37 | -273.38 | -255.31 | -76.123 | -296.92 | | |
| 6/3/99 | -290.18 | -292.6 | -280.11 | -23.355 | -94.649 | -207.46 | -276.04 | -257.69 | -87.058 | -300.63 | | |
| 6/4/99 | -292.51 | -294.95 | -279.86 | -24.657 | -102.41 | -221.25 | -278.55 | -259.79 | -92.111 | -303.88 | | |
| 6/5/99 | -294.9 | -296.53 | -284.44 | -33.663 | -115.59 | -229 | -280.33 | -261.92 | -95.524 | -306.27 | | |
| 6/6/99 | -296.41 | -297.9 | -287.16 | -36.996 | -127.67 | -233.39 | -279.64 | -263.71 | -101.42 | -306.61 | | |
| 6/7/99 | -297.79 | -298.62 | -285.74 | -43.923 | -138.28 | -233.39 | -279.29 | -264.38 | -105.3 | -307.33 | | |
| 6/8/99 | -298.56 | -299.81 | -284.9 | -52.676 | -151.16 | -350 | -281.48 | -265.42 | -110.99 | -309.9 | | |
| 6/9/99 | -299.72 | -300.9 | -286.97 | -62.406 | -161.76 | -280 | -283.66 | -267.35 | -118.16 | -312.62 | | |
| 6/10/99 | -300.74 | -301.98 | -287.28 | -70.572 | -171.33 | -290 | -285.59 | -268.6 | -124.23 | -315.34 | | |
| 6/11/99 | -301.76 | -303.06 | -288.48 | -74.85 | -179.06 | -300 | -285.96 | -270.5 | -128.95 | -316.74 | | |
| 6/12/99 | -302.89 | -304.04 | -291.05 | -80.62 | -185.19 | -305 | -286.55 | -281 | -272.74 | -132.65 | -293 | -316.91 |
| 6/13/99 | -303.88 | -306.94 | -294.82 | -86.577 | -189.88 | -307 | -286.27 | -283 | -274.57 | -135.2 | -316.44 | |
| 6/14/99 | -304.72 | -306.09 | -299.72 | -87.363 | -192.9 | -313 | -286.43 | -286 | -275.36 | -136.19 | -303 | -316.91 |
| 6/15/99 | -305.16 | -307.76 | -302.69 | -83.817 | -194.26 | -310 | -287.64 | -275.94 | -136.19 | -318.79 | | |
| 6/16/99 | -305.7 | -308.35 | -303.21 | -78.807 | -194.28 | -307 | -284.6 | -276.74 | -136.36 | -315.92 | | |
| 6/17/99 | -306.23 | -308.02 | -300.98 | -79.834 | -191.59 | -307 | -281.59 | -277.5 | -135.39 | -301 | -313.13 | |
| 6/18/99 | -305.92 | -306.71 | -297.78 | -71.865 | -187.32 | -300 | -280.89 | -278 | -277.87 | -134.62 | -310.38 | |
| 6/19/99 | -305 | -305.66 | -299.62 | -67.636 | -172.65 | -280 | -278.83 | -277.75 | -94.422 | -307.9 | | |
| 6/20/99 | -304.34 | -305.28 | -298.14 | -63.652 | -167.65 | -264 | -276.6 | -277.74 | -107.91 | -305.12 | | |
| 6/21/99 | -303.93 | -304.52 | -297.98 | -61.459 | -172.38 | -275.5 | -278.36 | -280 | -277.9 | -116.23 | -291 | -303.61 |
| 6/22/99 | -303.2 | -305 | -302.64 | -64.828 | -176.9 | -283.94 | -277.9 | -277.98 | -121.89 | -295 | -306.84 | |
| 6/23/99 | -303.62 | -304.6 | -305.65 | -70 | -180.57 | -290.06 | -278.73 | -280 | -277.9 | -128 | -296 | -306.7 |
| 6/24/99 | -304.54 | -303.73 | -307.73 | -76.988 | -189.75 | -292 | -278.39 | -273.96 | -134.35 | -304.13 | | |
| 6/25/99 | -304.4 | -304.19 | -305.96 | -82.333 | -193.28 | -290.48 | -281.12 | -271.32 | -136.07 | -307.14 | | |
| 6/26/99 | -304.79 | -305.06 | -304.76 | -86.922 | -197.14 | -294.75 | -281.01 | -269.53 | -140.16 | -307.8 | | |
| 6/27/99 | -305.68 | -305.46 | -304.94 | -93.126 | -200.51 | -298.73 | -281.89 | -267.91 | -143.63 | -309.83 | | |
| 6/28/99 | -306.03 | -305.09 | -304.24 | -95.058 | -202.96 | -301.68 | -281.03 | -263.16 | -145.73 | -309.86 | | |
| 6/29/99 | -305.7 | -303.83 | -301.82 | -95.307 | -204.96 | -303.66 | -284.83 | -257.4 | -146.77 | -313.89 | | |
| 6/30/99 | -304.33 | -302.32 | -299.86 | -95.628 | -206.47 | -306.39 | -286.47 | -253.16 | -147.5 | -316.06 | | |
| 7/1/99 | -302.79 | -299.77 | -298.46 | -99.189 | -207.94 | -308.77 | -287.33 | -249.91 | -149.75 | -317.88 | | |
| 7/2/99 | -300.31 | -297.07 | -296.16 | -101.25 | -209.17 | -310.09 | -288.46 | -247.92 | -150.34 | -319.73 | | |
| 7/3/99 | -297.63 | -294.31 | -295.25 | -100.76 | -209.58 | -311.1 | -287.49 | -247.2 | -153.44 | -320.06 | | |
| 7/4/99 | -294.84 | -291.17 | -292.49 | -107.89 | -210.81 | -311.18 | -284.25 | -246.72 | -157.45 | -317.4 | | |
| 7/5/99 | -291.8 | -288.09 | -288.8 | -110.34 | -210.61 | -311.12 | -283.33 | -246.04 | -158.39 | -317.06 | | |
| 7/6/99 | -288.65 | -285.17 | -285.6 | -107.69 | -208.79 | -309.97 | -281.99 | -245.18 | -156.87 | -315.79 | | |
| 7/7/99 | -285.71 | -282.45 | -282.73 | -101.78 | -206.76 | -309.03 | -278.85 | -245.01 | -154.41 | -312.52 | | |
| 7/8/99 | -283.11 | -280.7 | -280.13 | -106.37 | -207.63 | -305.85 | -277.82 | -245.17 | -155.95 | -311.54 | | |
| 7/9/99 | -281.24 | -279.77 | -279.85 | -107.95 | -208.68 | -305.33 | -279.5 | -245.71 | -157.04 | -313.26 | | |
| 7/10/99 | -280.24 | -278.99 | -280.59 | -104.78 | -208 | -306.73 | -277.35 | -246.11 | -156.73 | -311.15 | | |
| 7/11/99 | -279.42 | -277.89 | -278.36 | -106.62 | -205.83 | -306.31 | -273.37 | -246.03 | -155.09 | -306.83 | | |
| 7/12/99 | -278.43 | -276.9 | -277.08 | -117.92 | -210.18 | -302.35 | -272.42 | -247.03 | -160.14 | -306.02 | | |
| 7/13/99 | -277.39 | -276.12 | -274.88 | -113.69 | -209.11 | -303.81 | -274.42 | -248.32 | -156.14 | -308.22 | | |
| 7/14/99 | -276.62 | -275.64 | -273.89 | -131.13 | -214.95 | -304.11 | -276.89 | -250.12 | -162.25 | -310.32 | | |
| 7/15/99 | -276.12 | -276.09 | -273.86 | -132.01 | -216.74 | -307.65 | -279.63 | -252.05 | -163.15 | -311.99 | | |
| 7/16/99 | -276.46 | -279.11 | -275.9 | -126.59 | -216.53 | -310.26 | -281.82 | -254.61 | -162.72 | -313.88 | | |
| 7/17/99 | -279.39 | -281.49 | -279.45 | -129.31 | -216.84 | -311.91 | -280.8 | -256.57 | -165.11 | -313.76 | | |
| 7/18/99 | -281.64 | -280.82 | -280.41 | -124.44 | -214.04 | -312.25 | -272.02 | -255.02 | -162.68 | -304.42 | | |
| 7/19/99 | -281.37 | -275.75 | -277.31 | -100.41 | -203.71 | -308.51 | -267.17 | -249.65 | -152.44 | -298.62 | | |
| 7/20/99 | -276.58 | -272.86 | -274.09 | -106.07 | -201.4 | -299.42 | -270.48 | -246.04 | -149.99 | -302.23 | | |
| 7/21/99 | -273.64 | -271.4 | -272.33 | -107.21 | -201.61 | -298.26 | -270.93 | -246.65 | -149.33 | -303.46 | | |
| 7/22/99 | -271.95 | -270.73 | -271.76 | -105.23 | -199.34 | -299.12 | -267.22 | -247.81 | -148.1 | -299.78 | | |
| 7/23/99 | -271.49 | -271.88 | -272.18 | -113.83 | -202.83 | -298.67 | -267.09 | -262 | -249.48 | -150.88 | -300 | -301.25 |
| 7/24/99 | -272.46 | -274.42 | -276.94 | -119.01 | -206.23 | -300.48 | -267.77 | -251.68 | -154.48 | -300.56 | | |
| 7/25/99 | -275.26 | -277.37 | -280.15 | -127.86 | -210.72 | -303.19 | -270.19 | -254.13 | -160.03 | -302.21 | | |
| 7/26/99 | -278.2 | -280.02 | -283.41 | -137.13 | -215.56 | -306.78 | -270.69 | -256.6 | -168.49 | -302.59 | | |
| 7/27/99 | -280.87 | -282.32 | -286.82 | -138.86 | -217.96 | -310.01 | -275 | -258.76 | -172.54 | -306.72 | | |
| 7/28/99 | -283.12 | -285.11 | -289.43 | -139.77 | -220.01 | -313.05 | -278.45 | -261.08 | -175.9 | -310.37 | | |
| 7/29/99 | -285.88 | -287.56 | -289.59 | -139.28 | -220.98 | -315.82 | -281.14 | -262.99 | -178.13 | -312.71 | | |
| 7/30/99 | -288.35 | -289.93 | -290.28 | -158.5 | -228.79 | -317.5 | -281.93 | -265.05 | -187.06 | -313.83 | | |
| 7/31/99 | -290.68 | -291.95 | -291 | -165.41 | -232.55 | -321.79 | -282.5 | -267.23 | -192.45 | -314.79 | | |
| 8/1/99 | -292.76 | -293.03 | -292.58 | -149.91 | -228.02 | -324.32 | -277.2 | -268.64 | -194.88 | -309.9 | | |
| 8/2/99 | -293.89 | -294.23 | -294.59 | -145.39 | -227.86 | -321.07 | -283.23 | -269.62 | -197.4 | -315.72 | | |

| | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| 8/3/99 | -294.93 | -295.49 | -294.55 | -126.93 | -224.13 | -322.73 | -281.81 | -270.48 | -197.99 | -314.87 |
| 8/4/99 | -296.17 | -295.23 | -293.23 | -93.224 | -209.56 | -320.34 | -276.58 | -270.24 | -178.75 | -309.4 |
| 8/5/99 | -296.03 | -294.61 | -292.18 | -72.084 | -178.14 | -310.37 | -274.12 | -269.36 | -117.99 | -304.21 |
| 8/6/99 | -295.43 | -294.2 | -293.68 | -52.479 | -107.04 | -293.99 | -273.21 | -268.48 | -87.307 | -301.28 |
| 8/7/99 | -295.03 | -294.43 | -293.95 | -62.593 | -107.71 | -250.43 | -275.05 | -268.1 | -94.115 | -301.98 |
| 8/8/99 | -295.29 | -295.64 | -293.52 | -69.802 | -144.47 | -220.46 | -276.93 | -269.36 | -109.01 | -303.96 |
| 8/9/99 | -296.5 | -296.27 | -292.9 | -75.102 | -158.11 | -248.04 | -276.12 | -269.9 | -117.46 | -303.18 |
| 8/10/99 | -297.17 | -295.61 | -292.11 | -71.184 | -161.82 | -262.86 | -272.67 | -269.81 | -115.6 | -299.85 |
| 8/11/99 | -296.56 | -294.93 | -293.06 | -54.212 | -125.17 | -267.61 | -270.5 | -269.81 | -82.927 | -296.56 |
| 8/12/99 | -295.82 | -293.83 | -292.78 | -55.623 | -98.413 | -250.04 | -266.75 | -269.44 | -75.317 | -289.99 |
| 8/13/99 | -294.81 | -294.67 | -293.07 | -60.842 | -133.24 | -214.03 | -271.26 | -270.17 | -95.25 | -293.86 |
| 8/14/99 | -295.6 | -295.98 | -292.26 | -67.017 | -149 | -239.89 | -273.24 | -271.13 | -105.6 | -295.3 |
| 8/15/99 | -296.92 | -296.74 | -293.72 | -72.624 | -160.08 | -257.29 | -272.73 | -272.33 | -112.6 | -295.28 |
| 8/16/99 | -297.7 | -296.77 | -295.27 | -75.046 | -166.61 | -269.18 | -271.2 | -272.9 | -115.42 | -293.97 |
| 8/17/99 | -297.77 | -297.51 | -294.36 | -79.361 | -171.63 | -276.45 | -272.92 | -273.48 | -118.13 | -295.61 |
| 8/18/99 | -298.47 | -298.75 | -293.25 | -83.512 | -176.66 | -281.88 | -276.93 | -274.45 | -121.85 | -299.85 |
| 8/19/99 | -299.59 | -299.57 | -295.36 | -84.703 | -180.04 | -288.11 | -276.05 | -275.06 | -124.74 | -299.73 |
| 8/20/99 | -300.47 | -299.94 | -296.81 | -88.04 | -183.41 | -291.58 | -277.29 | -275.71 | -128.12 | -301.54 |
| 8/21/99 | -300.92 | -300.43 | -296.19 | -89.865 | -186.3 | -294.53 | -278.41 | -275.88 | -129.94 | -302.41 |
| 8/22/99 | -301.37 | -300.82 | -297.58 | -92.315 | -188.63 | -296.96 | -276 | -276.54 | -132.34 | -300.85 |
| 8/23/99 | -301.8 | -300.39 | -298.94 | -94.095 | -190.31 | -298.42 | -274.3 | -276.52 | -133.83 | -299.3 |
| 8/24/99 | -301.35 | -300.6 | -300.31 | -97.404 | -192.67 | -299.38 | -274.13 | -277.05 | -134.89 | -299.26 |
| 8/25/99 | -301.48 | -301.17 | -300.33 | -99.513 | -194.28 | -302 | -278.39 | -277.51 | -135.96 | -302.7 |
| 8/26/99 | -302.09 | -301.87 | -300.66 | -99.764 | -195.38 | -304 | -279.41 | -277.77 | -137.37 | -304.31 |
| 8/27/99 | -302.74 | -302.32 | -302.55 | -102 | -198 | -306 | -280.96 | -278.01 | -140.97 | -299 -305.32 |
| 8/28/99 | -303.5 | -303 | -305.3 | -98.492 | -198.31 | -310 | -280 | -279 | -140.11 | -304.56 |
| 8/29/99 | -303.99 | -304 | -306.72 | -97.432 | -197.1 | -312 | -277.42 | -280 | -140.13 | -301.88 |
| 8/30/99 | -304.53 | -304.8 | -308.85 | -101.47 | -199.07 | -310.96 | -277.43 | -280 | -142.37 | -302.22 |
| 8/31/99 | -304.19 | -304.6 | -309.09 | -101.52 | -199.56 | -310.94 | -277.87 | -280 | -142.86 | -302.5 |
| 9/1/99 | -304.41 | -304 | -309.27 | -105.54 | -200.94 | -311.42 | -276.75 | -280 | -145.46 | -301.76 |
| 9/2/99 | -304.64 | -303 | -307.86 | -110.88 | -203.46 | -311.96 | -277.73 | -280 | -148.21 | -302.84 |
| 9/3/99 | -304.63 | -302.77 | -306.07 | -106.65 | -202.81 | -313.81 | -276.87 | -280 | -147.41 | -302.27 |
| 9/4/99 | -304.73 | -301.66 | -303.82 | -104.74 | -200.92 | -313.57 | -272.9 | -280 | -146.4 | -298.46 |
| 9/5/99 | -303.88 | -300.93 | -303.69 | -95.819 | -197.98 | -310.99 | -271.03 | -280 | -143.84 | -296.64 |
| 9/6/99 | -303.22 | -300.47 | -303.06 | -100.62 | -197.77 | -308.73 | -272.77 | -280 | -144.02 | -296 |
| 9/7/99 | -302.25 | -301.32 | -303.34 | -106.65 | -201.75 | -308.7 | -274.62 | -280 | -148.54 | -299.92 |
| 9/8/99 | -302.43 | -302.29 | -304.74 | -110.37 | -204.81 | -311.9 | -275.57 | -280 | -152.58 | -301.35 |
| 9/9/99 | -303.38 | -303.08 | -304.51 | -110.84 | -205.42 | -314.44 | -277.84 | -280 | -152.28 | -303.31 |
| 9/10/99 | -304.12 | -303.61 | -305.09 | -112.54 | -206.12 | -315.55 | -279.35 | -280 | -154.26 | -304.4 |
| 9/11/99 | -304.65 | -304.19 | -306.31 | -113.84 | -207.48 | -316.25 | -281.53 | -280 | -156.17 | -306.68 |
| 9/12/99 | -305.25 | -305.13 | -308.34 | -116.36 | -209.55 | -317.84 | -282.27 | -280 | -158.29 | -308.47 |
| 9/13/99 | -306.16 | -305.24 | -308.91 | -115.53 | -208.5 | -319.85 | -280.17 | -279 | -157.63 | -306.77 |
| 9/14/99 | -306.27 | -305.12 | -307.88 | -114.09 | -206.85 | -318.63 | -281.09 | -279 | -155.83 | -307.43 |
| 9/15/99 | -306.15 | -304.95 | -307.47 | -112.11 | -206.65 | -318.46 | -280.13 | -278 | -155.75 | -306.81 |
| 9/16/99 | -305.99 | -305.29 | -308.38 | -108.71 | -205.64 | -318.25 | -281.49 | -278 | -154.19 | -308.18 |
| 9/17/99 | -306.31 | -304.72 | -308.72 | -105.27 | -203.78 | -317.84 | -278.63 | -277 | -152.53 | -305.62 |
| 9/18/99 | -305.77 | -302.69 | -304.84 | -105.62 | -201.61 | -316.25 | -274.45 | -276.41 | -150.46 | -301.38 |
| 9/19/99 | -303.72 | -300.72 | -303.91 | -106.42 | -200.32 | -313.28 | -270.87 | -275.21 | -151.72 | -297.72 |
| 9/20/99 | -301.85 | -299.19 | -302.77 | -106.37 | -199.98 | -310.7 | -270.06 | -273.99 | -151.53 | -297.11 |
| 9/21/99 | -300.31 | -299.14 | -303.96 | -105.8 | -200.15 | -310.05 | -272.48 | -273.98 | -151.28 | -299.54 |
| 9/22/99 | -300.18 | -299.73 | -303.04 | -105.54 | -200.72 | -310.96 | -274.16 | -273.87 | -151.3 | -300.92 |
| 9/23/99 | -300.77 | -299.99 | -301.91 | -105.87 | -201.01 | -312.12 | -274.81 | -273.12 | -151.47 | -301.35 |
| 9/24/99 | -301.03 | -299.05 | -302.03 | -101.75 | -198.66 | -312.44 | -271.26 | -274 | -268.9 | -298.33 |
| 9/25/99 | -299.76 | -299.15 | -301.3 | -101.84 | -198.89 | -310.25 | -273.65 | -265.01 | -147.45 | -301 -294.93 |
| 9/26/99 | -299.13 | -299.5 | -299.68 | -106.27 | -200.81 | -310.26 | -273.83 | -262.07 | -149.68 | -303.38 |
| 9/27/99 | -299.49 | -299.14 | -301.88 | -110.24 | -202.77 | -309.94 | -273.28 | -260.17 | -152.95 | -303.13 |
| 9/28/99 | -299.13 | -299.54 | -305.7 | -113.71 | -206 | -311.06 | -276.24 | -258.58 | -156.68 | -307.13 |
| 9/29/99 | -299.46 | -299.75 | -305.83 | -119.75 | -208.81 | -314.53 | -277.83 | -257.14 | -159.43 | -308.83 |
| 9/30/99 | -299.61 | -299.79 | -301.94 | -124.56 | -211.1 | -316.57 | -278.13 | -255.54 | -161.33 | -308.81 |
| 10/1/99 | -299.64 | -299.38 | -300.16 | -124.81 | -211.62 | -317.82 | -277.68 | -254.7 | -162 | -308.57 |
| 10/2/99 | -299.28 | -300.07 | -299.91 | -125.76 | -213.36 | -318.11 | -280.94 | -252.73 | -163.48 | -312.59 |
| 10/3/99 | -299.91 | -298.24 | -300.65 | -128.55 | -213.66 | -320.4 | -278.11 | -248.02 | -164.94 | -310.55 |
| 10/4/99 | -298.18 | -294.37 | -298.72 | -132.76 | -214.01 | -319.75 | -273.76 | -244.62 | -167.89 | -306.22 |
| 10/5/99 | -294.4 | -290.95 | -294.93 | -134.44 | -213.93 | -317.56 | -272.69 | -242.23 | -169.43 | -305.37 |
| 10/6/99 | -290.98 | -288.96 | -290.02 | -139.12 | -216.16 | -316.36 | -274.01 | -240.11 | -172.22 | -306.62 |
| 10/7/99 | -288.95 | -287.7 | -290.39 | -142.28 | -218.19 | -317.9 | -276.14 | -239.45 | -174.63 | -309.59 |
| 10/8/99 | -287.63 | -286.64 | -291.91 | -141 | -219.1 | -320.14 | -279.37 | -239.15 | -175.34 | -313.86 |

| | | | | | | | | | | | |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10/9/99 | -286.52 | -285.58 | -290.2 | -139.39 | -218.82 | -322.02 | -280.04 | -238.48 | -174.9 | -314.55 | |
| 10/10/99 | -285.47 | -284.52 | -289.13 | -137.93 | -218.18 | -322.34 | -279.48 | -238.02 | -174.76 | -314.38 | |
| 10/11/99 | -284.37 | -283.4 | -288.1 | -136.98 | -217.23 | -322.12 | -277.3 | -237.48 | -175.44 | -312.26 | |
| 10/12/99 | -283.27 | -282.26 | -285.94 | -135.41 | -216.42 | -320.79 | -277.85 | -236.85 | -174.86 | -312.99 | |
| 10/13/99 | -282.13 | -281.01 | -284.92 | -136.31 | -216.1 | -320.2 | -277.85 | -236.15 | -175.84 | -313.26 | |
| 10/14/99 | -280.88 | -279.5 | -282.83 | -136.96 | -215.91 | -319.67 | -276.94 | -235.18 | -176.64 | -311.98 | |
| 10/15/99 | -279.37 | -278.43 | -281.92 | -137.89 | -216.01 | -318.95 | -277.69 | -265 | -235.06 | -177.58 | -312.57 |
| 10/16/99 | -278.14 | -277.84 | -280.09 | -141.06 | -217.5 | -318.82 | -277.83 | -235.12 | -179.39 | -321 | -314.3 |
| 10/17/99 | -277.21 | -275.97 | -279.49 | -140.95 | -216.99 | -320.11 | -275.54 | -235.36 | -179.88 | -311.96 | |
| 10/18/99 | -275.34 | -273.4 | -274.49 | -137.45 | -213.01 | -319.48 | -272.04 | -235.2 | -178.24 | -307.56 | |
| 10/19/99 | -272.79 | -270.9 | -272.25 | -128.4 | -208.91 | -315.07 | -269.9 | -235.66 | -173.07 | -305.41 | |
| 10/20/99 | -270.28 | -268.56 | -269.09 | -117.25 | -202.98 | -311.58 | -271.27 | -234.65 | -165.89 | -306.81 | |
| 10/21/99 | -267.97 | -266.78 | -267.48 | -114.71 | -200.56 | -308.39 | -271.83 | -234.43 | -163.05 | -307.51 | |
| 10/22/99 | -266.12 | -265.15 | -266.43 | -114.02 | -199.34 | -307.36 | -271.54 | -234.41 | -161.38 | -307.15 | |
| 10/23/99 | -264.47 | -263.51 | -264.8 | -113.98 | -198.37 | -306.4 | -271.02 | -234.33 | -160.55 | -306.59 | |
| 10/24/99 | -262.85 | -261.85 | -263.13 | -115.67 | -198.4 | -305.45 | -272.09 | -234.4 | -160.49 | -307.67 | |
| 10/25/99 | -261.15 | -260.35 | -261.08 | -120.47 | -200.42 | -305.5 | -274.12 | -234 | -162.08 | -310.09 | |
| 10/26/99 | -259.63 | -259.32 | -259.99 | -123.07 | -202.59 | -307.26 | -278.24 | -233.7 | -163.36 | -314.21 | |
| 10/27/99 | -258.55 | -258.76 | -261.05 | -130.05 | -206.22 | -309.97 | -279.57 | -233.81 | -167.35 | -316.1 | |
| 10/28/99 | -257.86 | | 258 | -129.68 | -222.87 | -313 | -279 | -232 | -169.22 | -315 | |
| 10/29/99 | -256.42 | | -253.49 | -134.06 | -225.94 | -316.05 | -280.76 | -271 | 229 | -173.3 | -316.17 |
| 10/30/99 | -255.23 | | -250.86 | -136.84 | -227.63 | -317.82 | -278.72 | -227.07 | -177.64 | -314 | -315.56 |
| 10/31/99 | -253.19 | | -248.95 | -137.33 | -226.53 | -318.42 | -272.41 | -225.34 | -178.69 | -308.69 | |
| 11/1/99 | -251.31 | | -247.13 | -139.2 | -225.73 | -315.72 | -266.96 | -222.93 | -180.32 | -302.64 | |
| 11/2/99 | -248.83 | | -245.18 | -123.47 | -215.38 | -312.25 | -266.29 | -220.08 | -173.06 | -301.72 | |
| 11/3/99 | -245.76 | | -242.55 | -110.85 | -208.56 | -307.28 | -272.27 | -218.03 | -164.32 | -308.79 | |
| 11/4/99 | -243.18 | | -243.12 | -109.83 | -208 | -306.27 | -273.77 | -216.61 | -161.88 | -310.52 | |
| 11/5/99 | -241.37 | | -242.07 | -109.53 | -207.75 | -306.16 | -273.38 | -215.13 | -160.17 | -310.33 | |
| 11/6/99 | -239.9 | | -239.66 | -110.65 | -207.43 | -305.97 | -271.68 | -213.59 | -159.33 | -308.48 | |
| 11/7/99 | -238.19 | | -240.08 | -109.02 | -206.17 | -304.22 | -271.38 | -212.34 | -158.57 | -308.18 | |
| 11/8/99 | -236.53 | | -237.61 | -107.97 | -205.52 | -303.31 | -272.36 | -211.3 | -158.73 | -309.03 | |
| 11/9/99 | -234.94 | | -233.7 | -108.04 | -206 | -303.06 | -273.92 | -210.57 | -158.69 | -311.34 | |
| 11/10/99 | -233.74 | | -234.33 | -109 | -206.51 | -303.97 | -273.9 | -209.93 | -158.76 | -311.51 | |
| 11/11/99 | -232.71 | | -236.59 | -110.45 | -207.1 | -304.01 | -273.92 | -209.24 | -161 | -311.58 | |
| 11/12/99 | -231.71 | | -235.67 | -113.89 | -209.25 | -303.75 | -274.11 | -209.53 | -164.52 | -311.79 | |
| 11/13/99 | -230.86 | | -231.69 | -114.48 | -210.16 | -304.61 | -274.42 | -211.01 | -166.51 | -312.11 | |
| 11/14/99 | -230.72 | | -234.42 | -114.13 | -210.55 | -305.84 | -274.88 | -212.39 | -168.46 | -312.62 | |
| 11/15/99 | -231.52 | | -236.39 | -113.11 | -210.07 | -306.98 | -275.04 | -212.79 | -168.94 | -312.65 | |
| 11/16/99 | -231.82 | | -234.3 | -113.51 | -210.12 | -307.02 | -275.2 | -212.52 | -166.97 | -312.77 | |
| 11/17/99 | -231.4 | | -233.74 | -113.4 | -209.9 | -306.73 | -275.23 | -211.84 | -164.32 | -312.75 | |
| 11/18/99 | -230.81 | | -235.77 | -113.55 | -210.08 | -306.4 | -274.84 | -212.02 | -163.39 | -312.79 | |
| 11/19/99 | -230.6 | | -237.08 | -110.71 | -208.48 | -306.62 | -273.18 | -212.65 | -162.57 | -310.93 | |
| 11/20/99 | -231.09 | | -234.59 | -108.38 | -205.83 | -306.25 | -270.73 | -211.57 | -160.9 | -306.84 | |
| 11/21/99 | -230.77 | | -236.01 | -110.05 | -207.79 | -303.28 | -273.9 | -211.78 | -161.4 | -310.71 | |
| 11/22/99 | -232.47 | | -239.05 | -112.34 | -210.26 | -305.52 | -274.75 | -213.35 | -163.43 | -312.4 | |
| 11/23/99 | -235.23 | | -242.9 | -112.4 | -211 | -308.19 | -275.53 | -214.27 | -164.15 | -312.84 | |
| 11/24/99 | -237.4 | | -242.06 | -111.06 | -210.24 | -309.6 | -275.63 | -214.48 | -164.41 | -312.88 | |
| 11/25/99 | -238.46 | | -241.57 | -109.58 | -209.4 | -309.42 | -276.07 | -214.21 | -166.22 | -312.73 | |
| 11/26/99 | -239.04 | | -242.08 | -108.74 | -208.93 | -309.23 | -276.18 | -214.06 | -167.88 | -313.1 | |
| 11/27/99 | -239.3 | | -244.89 | -110.48 | -210.07 | -309.12 | -276.25 | -214.4 | -171.97 | -313.7 | |
| 11/28/99 | -239.46 | | -246.53 | -112.13 | -211.28 | -309.67 | -276.36 | -214.61 | -174.04 | -314.19 | |
| 11/29/99 | -239.54 | | -248.48 | -112.19 | -211.3 | -310.44 | -276.37 | -214.39 | -175.67 | -314.47 | |
| 11/30/99 | -239.24 | | -247.11 | -112.87 | -211.27 | -310.42 | -276.3 | -213.41 | -177.24 | -314.24 | |
| 12/1/99 | -238.11 | | -243.94 | -113.95 | -211.19 | -309.66 | -275.85 | -211.55 | -178.39 | -313.66 | |
| 12/2/99 | -236.33 | | -242.61 | -116.76 | -212.4 | -308.43 | -275.73 | -211.23 | -181.02 | -314.19 | |
| 12/3/99 | -235.27 | | -240.11 | -115.65 | -211.67 | -308.03 | -276.04 | -210.9 | -181.88 | -314.88 | |
| 12/4/99 | -234.69 | | -241.69 | -111.65 | -210.41 | -307.68 | -276.42 | -213.01 | -180.74 | -315.79 | |
| 12/5/99 | -235.42 | | -241.31 | -109.62 | -208.92 | -309.18 | -276.5 | -213 | -179.22 | -315.27 | |
| 12/6/99 | -235.14 | | -239.35 | -108.21 | -207.65 | -308.23 | -276.44 | -212.21 | -180.07 | -314.75 | |
| 12/7/99 | -234.49 | | -238.14 | -108.82 | -207.59 | -307.09 | -276.41 | -211.21 | -180.99 | -314.72 | |
| 12/8/99 | -234.04 | | -234.21 | -109.29 | -207.94 | -306.36 | -276.4 | -210.89 | -182.03 | -315.58 | |
| 12/9/99 | -234.11 | | -239.96 | -111.98 | -210.21 | -306.6 | -276.75 | -212.55 | -184.76 | -315.88 | |
| 12/10/99 | -235.01 | | -237.15 | -115.43 | -212.02 | -308.45 | -276.76 | -210.63 | -185.88 | -315.23 | |
| 12/11/99 | -234.72 | | -238.74 | -115.22 | -212.37 | -308.61 | -276.81 | -210.14 | -187.15 | -316.4 | |
| 12/12/99 | -235.24 | | -241.53 | -115.19 | -213.08 | -309.52 | -277.09 | -211.25 | -188.69 | -317.01 | |
| 12/13/99 | -236.04 | | -237.75 | -113.89 | -212.21 | -310.97 | -277.18 | -209.9 | -189.64 | -316.09 | |
| 12/14/99 | -235.55 | | -239.07 | -114.16 | -212.7 | -310.53 | -277.18 | -210.53 | -191.46 | -317.5 | |

| | | | | | | | | | | | |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| 12/15/99 | -235.93 | -239.74 | -114.87 | -213.37 | -311.24 | -277.57 | -251 | -211.32 | -192.08 | -317.46 | B-14 |
| 12/16/99 | -236.28 | -236.53 | -114.72 | -212.98 | -311.88 | -277.68 | | -209.57 | -193.39 | -317.48 | |
| 12/17/99 | -235.64 | -236.5 | -115.66 | -213.52 | -311.24 | -277.82 | | -210 | -195.45 | -318.02 | |
| 12/18/99 | -235.15 | -234.67 | -114.64 | -212.66 | -311.38 | -277.86 | | -209.4 | -196.62 | -317.23 | |
| 12/19/99 | -234.33 | -234.02 | -231.1 | -116.75 | -213.42 | -310.68 | -276.18 | -209.87 | -192.34 | -316.9 | |
| 12/20/99 | -233.52 | -233.61 | -224.72 | -119.7 | -211.49 | -310.1 | -275.11 | -210.61 | -193.38 | -317 | |
| 12/21/99 | | -233.08 | -224.87 | -118.82 | -210.85 | -303.28 | -274.99 | -210.45 | -186.44 | -316.92 | |
| 12/22/99 | | -232.93 | -225.66 | -118.09 | -210.42 | -302.89 | -274.86 | -210.69 | -182.62 | -316.71 | |
| 12/23/99 | | -232.8 | -227.25 | -118.35 | -210.57 | -302.76 | -275 | -210.75 | -179.36 | -316.63 | |
| 12/24/99 | | -232.4 | -228.13 | -118.1 | -210.28 | -302.79 | -275.08 | -210.45 | -178.36 | -316.45 | |
| 12/25/99 | | -232.17 | -227.75 | -117.47 | -209.8 | -302.46 | -274.86 | -210.25 | -178.05 | -316.29 | |
| 12/26/99 | | -232.1 | -227.09 | -115.64 | -208.7 | -302.14 | -274.67 | -210.33 | -176.34 | -316.07 | |
| 12/27/99 | | -231.99 | -227.24 | -116.43 | -209.1 | -301.75 | -274.7 | -209.78 | -175.52 | -316.11 | |
| 12/28/99 | | -231.85 | -229.54 | -116.47 | -209.09 | -301.77 | -274.68 | -209.06 | -175.97 | -315.91 | |
| 12/29/99 | | -231.42 | -229.61 | -115.69 | -208.34 | -301.71 | -274.49 | -207.43 | -176.42 | -315.67 | |
| 12/30/99 | | -231.62 | -227.91 | -115.91 | -208.67 | -300.98 | -274.52 | -207.96 | -176.93 | -316.03 | |
| 12/31/99 | | -231.76 | -226.72 | -115.94 | -208.7 | -301.43 | -274.55 | -207.46 | -175.98 | -315.7 | |
| 1/1/00 | | -231.77 | -228.37 | -116.15 | | -301.47 | -274.49 | -207.86 | -176.68 | -315.71 | |
| 1/2/00 | | -232.57 | -227.77 | -116.16 | | -301.36 | -274.77 | -209.07 | -178.27 | -315.99 | |
| 1/3/00 | | -234.63 | -229.01 | -115.73 | | -302.23 | -275.17 | -212.18 | -178.5 | -316.86 | |
| 1/4/00 | | -237.04 | -232.07 | -117.21 | | -303.87 | -275.68 | -213.48 | -179.02 | -316.58 | |
| 1/5/00 | | -238.18 | -232.23 | -119.76 | | -304.9 | -275.8 | -212.3 | -179.77 | -316.45 | |
| 1/6/00 | | -239.7 | -237.49 | -121.29 | | -305.15 | -276.1 | -214.67 | -182.26 | -317.26 | |
| 1/7/00 | | -240.52 | -238.23 | -119.75 | | -306.49 | -276.33 | -214.77 | -181.87 | -317.01 | |
| 1/8/00 | | -240.62 | -233.47 | -121.01 | | -306.64 | -276.37 | -213 | -184.58 | -316.92 | |
| 1/9/00 | | -240.82 | -231.92 | -124.11 | | -306.73 | -276.54 | -213.63 | -187.95 | -317.6 | |
| 1/10/00 | | -240.91 | -232.06 | -124.87 | | -307.61 | -276.75 | -213.03 | -189.96 | -317.91 | |
| 1/11/00 | | -240.84 | -231.71 | -122.29 | | -308.25 | -276.67 | -212.2 | -190.06 | -317.95 | |
| 1/12/00 | | -240.93 | -231.17 | -120.85 | | -308.03 | -276.34 | -212.4 | -189.04 | -317.99 | |
| 1/13/00 | | -241.39 | -231.65 | -120.53 | | -307.85 | -276.32 | -214.38 | -188.82 | -318.07 | |
| 1/14/00 | | -241.35 | -229.72 | -120.13 | | -308.25 | -276.14 | -213.82 | -188.36 | -317.58 | |
| 1/15/00 | | -241.01 | -229.13 | -119.49 | | -307.97 | -275.85 | -212.65 | -185.82 | -317.4 | |
| 1/16/00 | | -240.89 | -231.3 | -119.48 | | -307.35 | -275.66 | -212.3 | -184.91 | -317.21 | |
| 1/17/00 | | -240.86 | -235.49 | -119.2 | | -307.25 | -275.5 | -211.53 | -184.8 | -317.14 | |
| 1/18/00 | | -240.79 | -240.06 | -116.82 | | -307.25 | -275.25 | -211.34 | -181.08 | -316.69 | |
| 1/19/00 | | -240.25 | -242.3 | -116.58 | | -306.78 | -274.99 | -211.13 | -178.46 | -316.4 | |
| 1/20/00 | | -239.72 | -244.73 | -116.64 | | -306.2 | -274.96 | -211.54 | -176.72 | -316.21 | |
| 1/21/00 | | -238.81 | -243.57 | -115.91 | | -305.91 | -274.75 | -209.58 | -175.66 | -315.92 | |
| 1/22/00 | | -238.1 | -245.74 | -115.52 | | -305.33 | -274.57 | -210 | -174.9 | -316.07 | |
| 1/23/00 | | -237.52 | -247.27 | -114.96 | | -305.2 | -274.46 | -210.68 | -174.33 | -316.05 | |
| 1/24/00 | | -236.68 | -247.16 | -114.5 | | -305.07 | -274.34 | -209.61 | -173.57 | -315.52 | |
| 1/25/00 | | -236.04 | -247.19 | -112.95 | | -304.49 | -274.19 | -208.83 | -172.79 | -315.34 | |
| 1/26/00 | | -235.17 | -245.21 | -112.2 | | -303.93 | -273.98 | -207.32 | -172.8 | -315 | |
| 1/27/00 | | -235.38 | -245.13 | -111.07 | | -303.18 | -274.1 | -209.87 | -173.08 | -315.79 | |
| 1/28/00 | | -236.41 | -246.72 | -110.9 | | -303.5 | -273.96 | -210.74 | -172.98 | -315.46 | |
| 1/29/00 | | -238.13 | -245.95 | -110.04 | | -303.98 | -274.14 | -211.3 | -172.69 | -315.36 | |
| 1/30/00 | | -238.8 | -243.81 | -111.87 | | -304.47 | -274.15 | -210.71 | -173.27 | -315.19 | |
| 1/31/00 | | -238.82 | -245.12 | -116.39 | | -304.56 | -274.12 | -210.09 | -174.02 | -315.27 | |
| 2/1/00 | | -239.16 | -246.84 | -116.72 | | -305.24 | -274.17 | -211.22 | -175.17 | -315.89 | |
| 2/2/00 | | -239.2 | -247.53 | -116.6 | | -306.31 | -274.4 | -211.32 | -175.34 | -315.84 | |
| 2/3/00 | | -238.72 | -245.77 | -116.85 | | -306.78 | -274.18 | -210.12 | -173.93 | -315.39 | |
| 2/4/00 | | -238.61 | -243.88 | -122.16 | | -306.18 | -274.2 | -210.06 | -175.44 | -315.88 | |
| 2/5/00 | | -238.48 | -244.21 | -122.18 | | -307.25 | -274.46 | -210.2 | -176.67 | -315.93 | |
| 2/6/00 | | -238.66 | -245.19 | -120.78 | | -307.65 | -274.47 | -211.29 | -178.16 | -316.32 | |
| 2/7/00 | | -239.09 | -245.33 | -119.61 | | -307.81 | -274.51 | -211.64 | -179.32 | -316.61 | |
| 2/8/00 | | -238.86 | -245.69 | -118.11 | | -308.27 | -274.52 | -211 | -178.59 | -316.07 | |
| 2/9/00 | | -238.16 | -243.88 | -118.92 | | -307.56 | -274.02 | -209.08 | -177.43 | -315.15 | |
| 2/10/00 | | -238.04 | -244.08 | -116.6 | | -306.57 | -273.88 | -209.27 | -177.55 | -315.51 | |
| 2/11/00 | | -238.22 | -245.73 | -113.43 | | -306.34 | -273.83 | -209.6 | -176.07 | -315.75 | |
| 2/12/00 | | -238.07 | -246.12 | -111.7 | | -305.82 | -273.6 | -209.44 | -174.06 | -314.91 | |
| 2/13/00 | | -238.41 | -248.33 | -112.17 | | -304.9 | -273.72 | -209.82 | -173.57 | -315.41 | |
| 2/14/00 | | -238.96 | -250.14 | -113.52 | | -304.94 | -273.87 | -210.37 | -174.17 | -315.62 | |
| 2/15/00 | | -239.1 | -250.24 | -112.43 | | -305.7 | -273.94 | -251 | -210.76 | -174.82 | |
| 2/16/00 | | -239.02 | -249.37 | -111.83 | | -305.77 | -273.97 | -210.73 | -175.52 | -315.22 | |
| 2/17/00 | | -238.53 | -247.31 | -111.19 | | -305.44 | -274 | -209.41 | -176.13 | -314.89 | |
| 2/18/00 | | -239.59 | -249.94 | -108.82 | | -304.72 | -274.46 | -211.57 | -176.46 | -316.43 | |
| 2/19/00 | | -240.33 | -250.9 | -109.31 | | -305.51 | -274.78 | -212.56 | -176.13 | -316.39 | |

| | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| 2/20/00 | -240.58 | -251.09 | -109.72 | -305.38 | -274.82 | -211.8 | -176.04 | -316.05 | B-15 |
| 2/21/00 | -240.72 | -250.67 | -109.52 | -305.16 | -274.84 | -210.79 | -175.77 | -315.99 | |
| 2/22/00 | -241.04 | -250.38 | -109.68 | -305.3 | -274.85 | -210.72 | -176.22 | -316.54 | |
| 2/23/00 | -241.32 | -249.98 | -109.52 | -305.7 | -274.88 | -211.22 | -175.87 | -316.11 | |
| 2/24/00 | -241.24 | -247.45 | -109.65 | -305.79 | -274.78 | -210.26 | -174.28 | -315.44 | |
| 2/25/00 | -242 | -249.44 | -107.99 | -305.53 | -274.98 | -211.42 | -174.1 | -316.75 | |
| 2/26/00 | -242.6 | -249.34 | -108.14 | -306.09 | -275.17 | -212.17 | -174.59 | -316.84 | |
| 2/27/00 | -242.36 | -246.7 | -108.97 | -306.54 | -275.21 | -211.49 | -174.86 | -316.21 | |
| 2/28/00 | -241.62 | -245.65 | -108.88 | -306.37 | -274.98 | -210.3 | -175.03 | -315.67 | |
| 2/29/00 | -242.44 | -243.75 | -109.3 | -305.89 | -274.3 | -211.04 | -175 | -317.4 | -303 |
| 3/1/00 | -241.97 | -243.47 | -112.79 | -307.27 | -273.14 | -210.44 | -174.52 | -317.04 | |
| 3/2/00 | -240 | -241.79 | -117.45 | -307.65 | -266.48 | -210.39 | -177.52 | -309.79 | |
| 3/3/00 | -238.05 | -239.6 | -120.08 | -305.11 | -270.33 | -209.27 | -180.76 | -314.25 | |
| 3/4/00 | -236.54 | -237.65 | -114.7 | -307.15 | -271.53 | -207.68 | -180.41 | -315.7 | |
| 3/5/00 | -235.4 | -236.12 | -117.75 | -306.64 | -271.53 | -206.65 | -182.06 | -316.08 | |
| 3/6/00 | -234.87 | -235.68 | -119.6 | -306.85 | -270.42 | -207.22 | -184.14 | -315.14 | |
| 3/7/00 | -233.02 | -233.9 | -122.07 | -307.18 | -262.55 | -207.3 | -185.75 | -306.35 | |
| 3/8/00 | -232.51 | -233.76 | -123.45 | -303.11 | -265.27 | -208.47 | -186.51 | -308.72 | |
| 3/9/00 | -231.46 | -233.07 | -121.6 | -304.09 | -265.39 | -206.4 | -186.4 | -309.75 | |
| 3/10/00 | -227.46 | -229.6 | -124.32 | -303.89 | -263.14 | -204.87 | -187.55 | -307.53 | |
| 3/11/00 | -223.49 | -225.68 | -128.02 | -299.98 | -266.91 | -202.52 | -189.12 | -311.91 | |
| 3/12/00 | -217.86 | -220 | -122.89 | -299.55 | -267.78 | -199.67 | -188.81 | -313.07 | |
| 3/13/00 | -207.89 | -209.74 | -126.46 | -297.66 | -267.45 | -197.38 | -190.64 | -313.48 | |
| 3/14/00 | -191.14 | -192.48 | -127.48 | -297.46 | -266.65 | -194.75 | -191.81 | -312.83 | |
| 3/15/00 | -175.63 | -176.97 | -130.55 | -296.73 | -267.26 | -192.27 | -192.73 | -313.69 | |
| 3/16/00 | -158.72 | -160.43 | -131.03 | -296.75 | -268.23 | -190.11 | -193.86 | -316.03 | |
| 3/17/00 | -133.5 | -135.41 | -133.24 | -297.24 | -268.84 | -186.85 | -194.97 | -316.05 | |
| 3/18/00 | -98.08 | -100.24 | -135.92 | -296.84 | -270.52 | -183.93 | -196.73 | -319.25 | |
| 3/19/00 | -51.41 | -55.759 | -137.17 | -298.18 | -270.14 | -179.72 | -198.35 | -318.19 | |
| 3/20/00 | -28.243 | -34.336 | -125.09 | -297.62 | -268.44 | -174.27 | -195.42 | -316.48 | |
| 3/21/00 | -15.5 | -22.036 | -113.71 | -294.64 | -266.5 | -171.18 | -191.49 | -316.59 | |
| 3/22/00 | -7.17 | -14.334 | -100.73 | -291.91 | -258.73 | -163.6 | -185.65 | -306.85 | |
| 3/23/00 | -23.3 | -29.489 | -98.649 | -286.13 | -257.46 | -159.65 | -178.41 | -306.39 | |
| 3/24/00 | -22.1 | -28.814 | -98.28 | -281.72 | -256.86 | -158.8 | -173.99 | -306.73 | |
| 3/25/00 | -14.83 | -21.4 | -97.239 | -280.77 | -255.95 | -155.75 | -171.02 | -306.23 | |
| 3/26/00 | -11.223 | -17.098 | -101.04 | -279.88 | -254.09 | -151.72 | -170.1 | -304.33 | |
| 3/27/00 | -8.402 | -12.977 | -97.384 | -279 | -253.54 | -147.62 | -168.45 | -303.92 | |
| 3/28/00 | -10.883 | -15.133 | -105.13 | -277.74 | -254.06 | -144.95 | -174.16 | -305.41 | |
| 3/29/00 | -7.062 | -12.612 | -109.61 | -279.43 | -254.06 | -142.93 | -181.49 | -307.06 | |
| 3/30/00 | -3.09 | -8.0059 | -108.33 | -281.7 | -251.91 | -137.94 | -186.69 | -304.59 | |
| 3/31/00 | -2.4319 | -7.6444 | -105.71 | -280.46 | -251.08 | -134.01 | -188.28 | -305.17 | |
| 4/1/00 | -1.7812 | -7.8935 | -106.12 | -279.76 | -249.92 | -130.18 | -190.16 | -304.78 | |
| 4/2/00 | -0.9 | -7.3854 | -105.44 | -279.49 | -248.54 | -127.08 | -190.32 | -303.78 | |
| 4/3/00 | -4.01 | -10.059 | -91.158 | -278.93 | -245.29 | -125.51 | -183.71 | -301.06 | |
| 4/4/00 | -23.97 | -29.033 | -101.32 | -275.9 | -244.87 | -134.76 | -180.36 | -299.99 | |
| 4/5/00 | -26.266 | -31.697 | -104.82 | -276.31 | -248.59 | -139.76 | -180.57 | -302.83 | |
| 4/6/00 | -8.8511 | -15.617 | -109.56 | -278.73 | -249.08 | -135.69 | -182.12 | -303.98 | |
| 4/7/00 | -4.0316 | -11.308 | -115.89 | -279.63 | -249.7 | -125.82 | -184.42 | -306.73 | |
| 4/8/00 | -4.4 | -11.971 | -121.77 | -282.5 | -248.42 | -122.64 | -187.38 | -306.21 | |
| 4/9/00 | -5.16 | -12.901 | -122.94 | -284.38 | -248.15 | -122.28 | -188.36 | -305.56 | |
| 4/10/00 | -5.2154 | -13.368 | -122.73 | -284.7 | -249.27 | -121.49 | -189.37 | -307.92 | |
| 4/11/00 | -11.21 | -20.092 | -123.24 | -285.96 | -251.85 | -127.53 | -190.87 | -311.22 | |
| 4/12/00 | -18.031 | -27.492 | -118.76 | -288.47 | -251.59 | -135.21 | -190.27 | -309.2 | |
| 4/13/00 | -16.9 | -27.41 | -123.75 | -287.16 | -253.73 | -137.18 | -191.52 | -310.16 | |
| 4/14/00 | -17.654 | -28.367 | -126.78 | -288.04 | -256.07 | -137.08 | -192.98 | -311.98 | |
| 4/15/00 | -32.32 | -42.34 | -126.12 | -289.88 | -256.83 | -143.28 | -194.26 | -313.91 | |
| 4/16/00 | -31.176 | -40.54 | -126.11 | -291.49 | -253.23 | -147.74 | -195.09 | -309.12 | |
| 4/17/00 | -19.169 | -27.728 | -127.8 | -289.49 | -252.72 | -144.77 | -195.62 | -307.75 | |
| 4/18/00 | -17.7 | -25.616 | -124.48 | -288.47 | -255.67 | -142.49 | -195.26 | -311.07 | |
| 4/19/00 | -19.817 | -14.392 | -122.71 | -289.5 | -254.13 | -143.97 | -195.28 | -310.53 | |
| 4/20/00 | -42.604 | -31.926 | -119.67 | -288.7 | -256.38 | -150.57 | -194.79 | -312.21 | |
| 4/21/00 | -53.25 | -42.612 | -119.67 | -289.87 | -258.15 | -154.26 | -194.31 | -312.87 | |
| 4/22/00 | -28.088 | -23.707 | -120.41 | -290.35 | -259.43 | -152.93 | -195.2 | -313.92 | |
| 4/23/00 | -15.4 | -15.26 | -117.09 | -290.85 | -257.73 | -148.4 | -194.32 | -313.01 | |
| 4/24/00 | -3.58 | -5.9363 | -114.9 | -289.16 | -251.42 | -133.87 | -192.66 | -307.24 | |
| 4/25/00 | -2.0933 | -5.9442 | -111.09 | -285.3 | -250.25 | -122.51 | -188.96 | -307.85 | |
| 4/26/00 | -2.9107 | -7.7932 | -115.66 | -284.44 | -249.39 | -121.93 | -189.47 | -307.97 | |

Datalogger data:

SCW=South cottonwood transect SSC= South saltcedar transect

B-17

Well:

| <u>Date</u> | <u>SCW1</u> | <u>SCW2T</u> | <u>SCW3</u> | <u>SSC00</u> | <u>SSC0</u> | <u>SSC1</u> | <u>SSC3T</u> | <u>SSC5</u> | <u>SSC6</u> |
|-------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|
| 9/8/98 | | -301.8 | -269.91 | | | -275.92 | -285.68 | -325 | |
| 9/9/98 | | -302.2 | -269.99 | | | -273.77 | -285.06 | | |
| 9/10/98 | | -302.54 | -271.97 | | | -275.47 | -286.81 | | |
| 9/11/98 | | -303.41 | -272.24 | | | -276.85 | -288.06 | -328 | |
| 9/12/98 | | -304.63 | -273.08 | | | -278.23 | -289.89 | | |
| 9/13/98 | | -305.35 | -273.43 | | | -279.28 | -290.89 | | |
| 9/14/98 | | -305.6 | -274.39 | | | -280.46 | -291.94 | | |
| 9/15/98 | -317 | -306.64 | -276.08 | | | -280.58 | -292.42 | | |
| 9/16/98 | | -300.1 | -267.68 | | | -276.53 | -289.64 | | |
| 9/17/98 | | -296.53 | -262.14 | | | -272.4 | -286.58 | | |
| 9/18/98 | | -294.56 | -258.38 | | | -270.18 | -284.78 | | |
| 9/19/98 | | -293.33 | -256.81 | | | -268.51 | -283.27 | | |
| 9/20/98 | | -292.55 | -257.85 | | | -266.95 | -281.25 | | |
| 9/21/98 | | -291.41 | -257.56 | | | -266.63 | -278.86 | | |
| 9/22/98 | -301 | -291.25 | -259.26 | | | -265.7 | -278.45 | -320 | |
| 9/23/98 | | -291.03 | -256.23 | | | -265.4 | -277.92 | | |
| 9/24/98 | | -291.26 | -254.45 | | | -266.04 | -278.47 | | |
| 9/25/98 | | -291.75 | -254.57 | | | -267.23 | -279 | -323 | |
| 9/26/98 | | -291.46 | -255.02 | | | -269.04 | -279 | | |
| 9/27/98 | | -290.74 | -252.94 | | | -271.1 | -280.24 | | |
| 9/28/98 | | -289.76 | -248.88 | | | -272.4 | -281.09 | | |
| 9/29/98 | -300.09 | -288.54 | -244.66 | | | -272.87 | -281.19 | | |
| 9/30/98 | -300.2 | -287.61 | -246.71 | | | -270.34 | -279.41 | | |
| 10/1/98 | -297.32 | -285.5 | -247.23 | | | -264.92 | -275.64 | | |
| 10/2/98 | -295.15 | -284.08 | -244.85 | | | -261.33 | -275.34 | | |
| 10/3/98 | -294.53 | -283.39 | -249.94 | | | -260.85 | -274.73 | -315 | |
| 10/4/98 | -293.51 | -282.92 | -252.01 | | | -260.95 | -271.97 | | |
| 10/5/98 | -292.49 | -282.03 | -250.17 | | | -255.97 | -270.29 | | |
| 10/6/98 | -291.32 | -281.22 | -260.84 | | | -253.14 | -269.33 | | |
| 10/7/98 | -290.84 | -280.73 | -270.79 | | | -250.53 | -267.54 | | |
| 10/8/98 | -290.12 | -280.69 | -280.77 | | | -242.1 | -268.46 | | |
| 10/9/98 | -291.09 | -280.3 | -290.12 | | | -244.82 | -264.99 | | |
| 10/10/98 | -292.45 | -279.58 | -298.69 | | | -243.81 | -264.38 | | |
| 10/11/98 | -294.81 | -280.82 | -308.95 | | | -243.85 | -264.24 | | |
| 10/12/98 | -294.79 | -281.04 | -304.64 | | | -244.1 | -264.12 | | |
| 10/13/98 | -294.73 | -281 | -295.01 | | | -244.1 | -264.19 | | |
| 10/14/98 | -293.46 | -279.9 | -279.55 | | | -244.33 | -264.07 | | |
| 10/15/98 | -291.25 | -277.68 | -263.31 | | | -244.31 | -264.02 | | |
| 10/16/98 | -291.03 | -276.15 | -252.55 | | | -244.75 | -264.34 | | |
| 10/17/98 | -292.02 | -275.72 | -250.26 | | | -245.65 | -264.63 | | |
| 10/18/98 | -291.87 | -275.49 | -249.37 | | | -246.11 | -264.87 | | |
| 10/19/98 | -292.81 | -275.86 | -251.91 | | | -247.82 | -265.62 | | |
| 10/20/98 | -291.31 | -274.74 | -267.56 | | | -247.12 | -264.96 | | |
| 10/21/98 | -288.92 | -272.98 | -288.01 | | | -245.44 | -263.73 | | |
| 10/22/98 | -287.11 | -271.37 | -301.65 | | | -243.51 | -261.88 | | |
| 10/23/98 | -285 | -269.87 | -296.04 | | | -240.73 | -259.26 | | |
| 10/24/98 | -283.49 | -268.46 | -287.44 | | | -238.45 | -256.65 | | |
| 10/25/98 | -281.65 | -267.21 | -275.57 | | | -236.92 | -254.22 | | |
| 10/26/98 | -280.98 | -266.22 | -260.85 | | | -236.09 | -251.83 | | |
| 10/27/98 | -281.11 | -265.28 | -250.47 | | | -235.18 | -250.59 | | |
| 10/28/98 | -279.67 | -264.04 | -249.5 | | | -234.29 | -248.02 | | |
| 10/29/98 | -278.5 | -263.02 | -244.11 | | | -231.29 | -246.26 | | |
| 10/30/98 | -277.72 | -262.26 | -233.61 | | | -230.67 | -244.19 | | |
| 10/31/98 | -277.67 | -261.47 | -228.41 | | | -231.04 | -242.09 | | |
| 11/1/98 | -277.01 | -260.75 | -228 | | | -229.67 | -240.74 | -283 | |
| 11/2/98 | -275.06 | -262.35 | -229.39 | | | -228.51 | -237.71 | | |
| 11/3/98 | -276.43 | -262.52 | -228.58 | | | -227.12 | -236.95 | | |
| 11/4/98 | -277.77 | -262.82 | -228.25 | | | -226.23 | -236.47 | | |
| 11/5/98 | -277.89 | -263.01 | -227.28 | | | -225.14 | -235.81 | | |
| 11/6/98 | -277.77 | -263.14 | -226.79 | | | -223.36 | -234.73 | | |
| 11/7/98 | -278.89 | -263.13 | -227.95 | | | -221.86 | -233.82 | | |
| 11/8/98 | -277.73 | -262.77 | -226.02 | | | -220.52 | -232.8 | | |

| | | | | | | |
|----------|---------|---------|---------|---------|---------|------|
| 11/9/98 | -277.2 | -262.37 | -226.71 | -220.51 | -232.38 | |
| 11/10/98 | -278.75 | -262.86 | -227.71 | -221.45 | -233.45 | |
| 11/11/98 | -278.81 | -263.36 | -226.08 | -220.81 | -233.25 | |
| 11/12/98 | -279.52 | -263.57 | -226.4 | -219.95 | -232.69 | |
| 11/13/98 | -279.66 | -263.68 | -226.44 | -218.82 | -231.93 | |
| 11/14/98 | -279.7 | -263.7 | -226.11 | -218.45 | -231.77 | |
| 11/15/98 | -279.43 | -263.88 | -226.18 | -217.92 | -231.52 | |
| 11/16/98 | -279.93 | -264.11 | -226.29 | -217.35 | -231.18 | |
| 11/17/98 | -279.77 | -264.31 | -226.57 | -216.99 | -230.99 | |
| 11/18/98 | -279.93 | -264.15 | -226.72 | -216.81 | -230.84 | |
| 11/19/98 | -280.01 | -263.77 | -226.74 | -216.83 | -230.95 | |
| 11/20/98 | -279.51 | -263.28 | -225.74 | -216.66 | -230.67 | |
| 11/21/98 | -279.03 | -263.09 | -224.91 | -216.07 | -230.42 | |
| 11/22/98 | -279.48 | -262.64 | -225.1 | -215.67 | -230.17 | |
| 11/23/98 | -278.22 | -261.98 | -226.36 | -215.85 | -230.4 | -284 |
| 11/24/98 | -277.71 | -261.7 | -224.82 | -215.19 | -229.94 | |
| 11/25/98 | -278.32 | -261.58 | -225.4 | -214.75 | -229.78 | |
| 11/26/98 | -278.02 | -261.39 | -224.6 | -213.93 | -229.26 | |
| 11/27/98 | -277.76 | -261.17 | -224.05 | -213.39 | -228.81 | |
| 11/28/98 | -276.78 | -260.87 | -223.61 | -212.87 | -228.25 | |
| 11/29/98 | -277.01 | -260.61 | -224 | -212.69 | -228 | |
| 11/30/98 | -277.97 | -260.77 | -224.95 | -213.11 | -228.44 | |
| 12/1/98 | -277.41 | -260.6 | -223.19 | -212.13 | -227.57 | |
| 12/2/98 | -276.55 | -260.27 | -223.52 | -211.37 | -226.85 | |
| 12/3/98 | -276.24 | -260.02 | -223.34 | -210.78 | -226.61 | |
| 12/4/98 | -276.94 | -259.97 | -222.83 | -210.36 | -226.23 | |
| 12/5/98 | -276.45 | -259.89 | -222.73 | -209.59 | -225.65 | |
| 12/6/98 | -276.93 | -260.05 | -223.07 | -209.35 | -225.47 | |
| 12/7/98 | -277.61 | -260.75 | -225.23 | -210.05 | -226.18 | |
| 12/8/98 | -277.58 | -261.38 | -224.48 | -210.31 | -226.5 | |
| 12/9/98 | -277.24 | -261.36 | -225.05 | -210.19 | -226.33 | |
| 12/10/98 | -278.35 | -261.89 | -226.13 | -211.94 | -227.7 | |
| 12/11/98 | -278.52 | -262.37 | -225.47 | -212.11 | -227.97 | |
| 12/12/98 | -279.01 | -262.81 | -226.02 | -212.54 | -228.54 | |
| 12/13/98 | -279.49 | -263.18 | -226.42 | -213.14 | -229.13 | |
| 12/14/98 | -279.96 | -263.73 | -226.49 | -213.62 | -229.53 | |
| 12/15/98 | -280.82 | -264.2 | -227.25 | -214.3 | -230.2 | |
| 12/16/98 | -281.28 | -264.6 | -227.62 | -214.98 | -230.86 | |
| 12/17/98 | -280.34 | -264.52 | -227.19 | -215.04 | -230.81 | |
| 12/18/98 | -280.08 | -264.13 | -232.98 | -214.29 | -229.95 | -285 |
| 12/19/98 | -281.06 | -264.25 | -228.3 | -214.73 | -230 | |
| 12/20/98 | -280.92 | -264.13 | -226.84 | -214.47 | -229.78 | |
| 12/21/98 | -281.17 | -264.27 | -228.07 | -214.83 | -230.19 | |
| 12/22/98 | -280.91 | -264.4 | -227.3 | -214.78 | -229.9 | |
| 12/23/98 | -281.33 | -264.51 | -227.42 | -214.32 | -230.15 | |
| 12/24/98 | -281.78 | -265 | -228.75 | -214.46 | -230.62 | |
| 12/25/98 | -281.92 | -265.28 | -228.04 | -213.55 | -230.32 | |
| 12/26/98 | -281.65 | -265.33 | -227.76 | -212.34 | -229.7 | |
| 12/27/98 | -282.07 | -265.45 | -228.17 | -212.31 | -229.92 | |
| 12/28/98 | -282.14 | -265.62 | -228.13 | -212.75 | -230.51 | |
| 12/29/98 | -282.29 | -265.71 | -228.28 | -212.33 | -230.52 | |
| 12/30/98 | -281.66 | -265.62 | -228.07 | -211.53 | -230.06 | |
| 12/31/98 | -281.5 | -265.55 | -228.44 | -211 | -229.89 | |
| 1/1/99 | -280.79 | -265.27 | -228.45 | -210.34 | -229.36 | |
| 1/2/99 | -282.36 | -265.6 | -228.49 | -210.76 | -229.84 | |
| 1/3/99 | -282.61 | -265.67 | -228.62 | -210.45 | -229.9 | |
| 1/4/99 | -282.73 | -265.86 | -228.76 | -210.01 | -229.75 | |
| 1/5/99 | -282.78 | -265.95 | -228.15 | -209.34 | -229.47 | |
| 1/6/99 | -282.87 | -265.95 | -227.77 | -209.19 | -229.53 | |
| 1/7/99 | -281.48 | -265.48 | -227.04 | -208.74 | -229.23 | |
| 1/8/99 | -281.33 | -264.72 | -226.77 | -208.44 | -229.13 | |
| 1/9/99 | -281.55 | -264 | -226.73 | -208.57 | -229.3 | |
| 1/10/99 | -280.83 | -263.29 | -224.56 | -208.01 | -228.94 | |
| 1/11/99 | -279.78 | -262.54 | -223.11 | -207.65 | -228.55 | |
| 1/12/99 | -277.84 | -261.88 | -223 | -207.35 | -228.14 | |
| 1/13/99 | -280.27 | -262.08 | -224.2 | -207.53 | -228.63 | |
| 1/14/99 | -280.31 | -262.1 | -223.13 | -206 | -228.38 | |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 1/15/99 | -261.92 | -222.39 | | -204.7 | -227.43 | | |
| 1/16/99 | -261.3 | -222.06 | | -204.1 | -226.92 | | |
| 1/17/99 | -260.73 | -222.25 | | -203.88 | -226.72 | | |
| 1/18/99 | -260.29 | -221.77 | | -203.49 | -226.14 | | |
| 1/19/99 | -259.82 | -220.63 | | -202.72 | -225.43 | | |
| 1/20/99 | -259.31 | -220.28 | | -201.93 | -224.72 | | |
| 1/21/99 | -258.83 | -219.68 | | -201.18 | -223.92 | | |
| 1/22/99 | -259.03 | -221.59 | | -201.96 | -224.73 | | |
| 1/23/99 | -259.55 | -220.87 | | -202.01 | -224.56 | | |
| 1/24/99 | -260.14 | -221.43 | | -202.14 | -224.56 | | |
| 1/25/99 | -260.68 | -221.98 | | -202.5 | -224.88 | | |
| 1/26/99 | -260.82 | -222.93 | | -202.24 | -224.8 | | |
| 1/27/99 | -261.13 | -222.65 | | -202.45 | -225.11 | | |
| 1/28/99 | -261.31 | -223.36 | | -202.13 | -225.05 | | |
| 1/29/99 | -261.6 | -223.49 | | -202.75 | -225.54 | | |
| 1/30/99 | -277.46 | -261.81 | -225.83 | -202.48 | -225.39 | | |
| 1/31/99 | -277.4 | -261.71 | -227.97 | -173 | -201.73 | -224.81 | -287 |
| 2/1/99 | -277.28 | -261.6 | -228.18 | | -201.18 | -224.84 | |
| 2/2/99 | -277.02 | -261.53 | -228.38 | | -200.12 | -224.1 | |
| 2/3/99 | -276.77 | -261.41 | -228.21 | | -199.37 | -223.5 | |
| 2/4/99 | -277.08 | -261.72 | -229 | | -199.44 | -223.6 | |
| 2/5/99 | -277.23 | -261.79 | -228.99 | -169.37 | -199.49 | -225.28 | -288.52 |
| 2/6/99 | -277.05 | -261.68 | -228.8 | -169.03 | | -226.38 | -288.25 |
| 2/7/99 | -276.55 | -261.26 | -228.14 | -169.17 | | -225.96 | -288.19 |
| 2/8/99 | -276.15 | -260.83 | -227.65 | -170.23 | | -226.1 | -288.31 |
| 2/9/99 | -275.85 | -260.43 | -227.39 | -170.33 | | -225.93 | -288.4 |
| 2/10/99 | -275.21 | -259.75 | -226.27 | -169.41 | | -225.05 | -286.59 |
| 2/11/99 | -275.71 | -260.28 | -227.54 | -170.53 | | -225.91 | -288.53 |
| 2/12/99 | -275.45 | -260.29 | -227.12 | -168.64 | | -224.91 | -287.63 |
| 2/13/99 | -275.38 | -260.24 | -226.82 | -166.98 | | -223.99 | -286.84 |
| 2/14/99 | -275.5 | -262.88 | -226.66 | -165.44 | | -223.21 | -285.41 |
| 2/15/99 | -275.67 | -260.45 | -226.86 | -164.41 | | -222.98 | -285.1 |
| 2/16/99 | -276.04 | -260.85 | -227.51 | -164.46 | | -223.15 | -286.89 |
| 2/17/99 | -275.9 | -260.78 | -227.28 | -163.57 | | -222.82 | -286.37 |
| 2/18/99 | -275.82 | -260.6 | -227.28 | -163.11 | | -222.54 | -286.97 |
| 2/19/99 | -275.76 | -260.57 | -227.19 | -162.57 | | -222.01 | -286.73 |
| 2/20/99 | -276.3 | | -228.2 | | | | -287.52 |
| 2/21/99 | -276.71 | | -228.97 | | | | -286.87 |
| 2/22/99 | -276.99 | | -229.12 | | | | -286.67 |
| 2/23/99 | -277.41 | | -229.87 | | | | -287.6 |
| 2/24/99 | -277.59 | | -229.85 | | | | -287.74 |
| 2/25/99 | -277.45 | | -229.5 | -162.49 | -192 | | -287.33 |
| 2/26/99 | -277.16 | -261 | -231 | -162.62 | | | -286.62 |
| 2/27/99 | -276.85 | | -229.16 | -163.53 | | | -288 |
| 2/28/99 | -276.59 | | -228.96 | -163.6 | | | -287.75 |
| 3/1/99 | -276.05 | -262.08 | -228.33 | -161.51 | | | -286.92 |
| 3/2/99 | -273.83 | -260.71 | -227.57 | -162.52 | | | -285.06 |
| 3/3/99 | -271.46 | -258.81 | -226.09 | -162.47 | | | -282.31 |
| 3/4/99 | -271.02 | -258.02 | -224.92 | -161.74 | | | -281.38 |
| 3/5/99 | -269.86 | -257.19 | -224.6 | -164.57 | | | -281.4 |
| 3/6/99 | -269.1 | -256.42 | -223.7 | -168 | | | -280.75 |
| 3/7/99 | -269.15 | -255.82 | -222.38 | -169.73 | | | -280.36 |
| 3/8/99 | -269.05 | -255.45 | -221.93 | -172.66 | | | -282.86 |
| 3/9/99 | -269.66 | -255.35 | -221.12 | -172.12 | | | -283.57 |
| 3/10/99 | -270.65 | -255.65 | -220.61 | -171.97 | | | -284.96 |
| 3/11/99 | -270.39 | -255.22 | -219.95 | -172.45 | | | -284.16 |
| 3/12/99 | -271.13 | -255.61 | -220.15 | -175.84 | | | -28.266 |
| 3/13/99 | -271.27 | -256.08 | -221.05 | -178.05 | | | -287.51 |
| 3/14/99 | -271.77 | -256.82 | -221.93 | -177.68 | | | -287.53 |
| 3/15/99 | -271.72 | -257.1 | -222.46 | -175.43 | | | -286.41 |
| 3/16/99 | -271.63 | -257.14 | -222.6 | -171.13 | | | -284.97 |
| 3/17/99 | -272.3 | -257.66 | -223.32 | -171.47 | | | -286.91 |
| 3/18/99 | -271.37 | -257.04 | -222.89 | -173.43 | | | -287.29 |
| 3/19/99 | -269.04 | -255.11 | -221.1 | -174.34 | | | -284.79 |
| 3/20/99 | -267.88 | -253.91 | -219.76 | -170.43 | | | -282.8 |
| 3/21/99 | -266.83 | -252.82 | -218.46 | -164.85 | | | -280.33 |
| 3/22/99 | -266.13 | -252.06 | -217.62 | -162.73 | | | -278.97 |

| | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|------|---------|---------|---------|
| 3/23/99 | -265.97 | -251.54 | -217.17 | -164.09 | | | | -279.01 | |
| 3/24/99 | -267.4 | -252.14 | -217.28 | -166.55 | | | | -281.25 | |
| 3/25/99 | -268.19 | -252.52 | -217.24 | -169.39 | | | | -282.51 | |
| 3/26/99 | -267.96 | -252.33 | -215.76 | -120 | -172.51 | -198 | | -281.31 | |
| 3/27/99 | -266.38 | -251.19 | -215.12 | -180.23 | | | -220.2 | -281.27 | |
| 3/28/99 | -265.53 | -251.61 | -216.81 | -181.19 | | | -220.3 | -280.93 | |
| 3/29/99 | -265.71 | -251.72 | -217.12 | -180.45 | | | -219.47 | -280.38 | |
| 3/30/99 | -268.27 | -253.42 | -217.97 | -175.65 | | | -228.03 | -280.63 | |
| 3/31/99 | -273.82 | -254.76 | -220.85 | -120 | -174.86 | -198 | -218.99 | -280.69 | |
| 4/1/99 | -271.14 | -255.75 | -220.15 | -177.35 | | | -220.53 | -283.95 | |
| 4/2/99 | -272.33 | -256.95 | -221.36 | -180.89 | | | -223.07 | -285.34 | |
| 4/3/99 | -272.03 | -257.29 | -222.26 | -181.61 | | | -223.42 | -285.42 | |
| 4/4/99 | -271.77 | -257.34 | -222.43 | -180.06 | | | -222.06 | -284.36 | |
| 4/5/99 | -270.99 | -257.08 | -222.84 | -179.33 | | | -221.43 | -283.5 | |
| 4/6/99 | -270.66 | -256.49 | -222 | -174.3 | | | -218.38 | -282.49 | |
| 4/7/99 | -270.38 | -256.07 | -221.52 | -172.48 | | | -216.96 | -281.54 | |
| 4/8/99 | -272.05 | -257.41 | -222.71 | -173.79 | | | -218.18 | -282.84 | |
| 4/9/99 | -273.76 | -258.93 | -223.5 | -175.07 | | | -219.55 | -283.25 | |
| 4/10/99 | -275.59 | -260.72 | -225.57 | -180.37 | | | -223.41 | -287.02 | |
| 4/11/99 | -276.77 | -261.89 | -226.8 | -184.33 | | | -226.21 | -289.25 | |
| 4/12/99 | -276.17 | -261.75 | -226.96 | -186.04 | | | -227.2 | -289.46 | |
| 4/13/99 | -276.33 | -261.64 | -226.6 | -186.91 | | | -227.71 | -288.9 | |
| 4/14/99 | -276.45 | -261.46 | -226.24 | -186.93 | | | -228.02 | -289.78 | |
| 4/15/99 | -275.43 | -260.03 | -223.94 | -189.56 | | | -229.48 | -291.32 | |
| 4/16/99 | -273.71 | -257.96 | -221.21 | -190.14 | | | -229.6 | -291.21 | |
| 4/17/99 | -272.37 | -256.89 | -220.64 | -191.67 | | | -230 | -290.38 | |
| 4/18/99 | -270.79 | -256.19 | -221.02 | -192.79 | | | -229.48 | -288.47 | |
| 4/19/99 | -270.19 | -256.21 | -221.69 | -193.38 | | | -229.04 | -287.21 | |
| 4/20/99 | -272.44 | -258.25 | -223.37 | -194.48 | | | -230.08 | -287.9 | |
| 4/21/99 | -275.8 | -261.55 | -226.06 | -196.87 | | | -232.54 | -289.66 | |
| 4/22/99 | -277.77 | -263.93 | -229.3 | -200.5 | | | -234.71 | -291.24 | |
| 4/23/99 | -280.3 | -266.48 | -233.1 | -208.18 | | | -239.3 | -295.11 | -372 |
| 4/24/99 | -282.35 | -268.8 | -235.6 | -215.35 | | | -243.77 | -297.77 | |
| 4/25/99 | -284.11 | -270.77 | -237.79 | -221.13 | | | -247.55 | -299.99 | |
| 4/26/99 | -284.64 | -272.18 | -239.78 | -226.37 | | | -250.59 | -300.9 | |
| 4/27/99 | -285.37 | -273.53 | -241.88 | -231.17 | | | -253.3 | -301.99 | |
| 4/28/99 | -285.28 | -274.48 | -243.41 | -209.88 | | | -245.24 | -300.61 | |
| 4/29/99 | -286.07 | -275.63 | -245.17 | -194.54 | | | -236.86 | -298.03 | |
| 4/30/99 | -287.38 | -276.9 | -247.1 | -130 | -189.65 | -209 | -232.67 | -296.5 | -365.1 |
| 5/1/99 | -287 | -277.41 | -249.44 | | | | -227.91 | -294.06 | -364.17 |
| 5/2/99 | -289.25 | -279.14 | -250.09 | | | | -226.12 | -293.01 | -364.11 |
| 5/3/99 | -290.04 | -280.15 | -251.35 | | | | -224.72 | -291.56 | -365.59 |
| 5/4/99 | -292.46 | -282.05 | -253.33 | | | | -224.27 | -292.98 | -370.48 |
| 5/5/99 | -294.07 | -283.95 | -255.66 | | | | -221.66 | -295.09 | -369.7 |
| 5/6/99 | -294.64 | -285.26 | -257.53 | | | | -217.88 | -293.39 | -367.71 |
| 5/7/99 | -295.44 | -286.52 | -259.1 | | | | -214.13 | -291.76 | -367.29 |
| 5/8/99 | -296.15 | -287.82 | -260.92 | | | | -211.62 | -289.84 | -365.43 |
| 5/9/99 | -296.78 | -288.96 | -262.57 | | | | -210.82 | -288.28 | -364.63 |
| 5/10/99 | -297.75 | -290.21 | -264.35 | | | | -211.43 | -287.91 | -364.33 |
| 5/11/99 | -298.78 | -291.35 | -266.02 | | | | -213.08 | -288.81 | -366.11 |
| 5/12/99 | -300.11 | -292.99 | -267.69 | | | | -216.13 | -291.26 | -368.35 |
| 5/13/99 | -301.16 | -294.48 | -270.19 | | | | -216.97 | -291.77 | -367.62 |
| 5/14/99 | -301.78 | -295.33 | -270.92 | | | | -216.25 | -291.12 | -365.23 |
| 5/15/99 | -302.4 | -296.23 | -272.28 | | | | -216.41 | -291.05 | -366.12 |
| 5/16/99 | -303.29 | -297.37 | -273.64 | | | | -216.87 | -291.79 | -366.42 |
| 5/17/99 | -303.65 | -298.19 | -274.75 | | | | -216.93 | -291.74 | -365.1 |
| 5/18/99 | -303.5 | -298.59 | -275.53 | -112.62 | | | -216.11 | -290.47 | -363.3 |
| 5/19/99 | -303.99 | -299.22 | -276.27 | -103.97 | -151 | -190 | -218.54 | -288.42 | -363.23 |
| 5/20/99 | -304.74 | -300.08 | -277.33 | -79.387 | | | -199.46 | -276.62 | -360.46 |
| 5/21/99 | -304.45 | -300.33 | -278.04 | -75.157 | | | -188.07 | -270.03 | -356.76 |
| 5/22/99 | -304.48 | -300.54 | -278.45 | -66.604 | | | -185.37 | -267.27 | -355.94 |
| 5/23/99 | -304.11 | -300.25 | -278.23 | -63.44 | | | -179.82 | -262.27 | -354.26 |
| 5/24/99 | -301.3 | -297.57 | -275.33 | -58.497 | | | -169.9 | -251.84 | -349.68 |
| 5/25/99 | -302.95 | -298.35 | -275.35 | -46.464 | | | -137.33 | -231.25 | -345.07 |
| 5/26/99 | -297.5 | -294.69 | -272.14 | -37.701 | -56 | -90 | -90.098 | -202.57 | -338.15 |
| 5/27/99 | -294.91 | -291.78 | -268.58 | -40.505 | | | -96.576 | -200.66 | -335.34 |
| 5/28/99 | -294.16 | -290.28 | -266.46 | -43.102 | | | -115.62 | -210.53 | -338.97 |

| | | | | | | | | | |
|---------|---------|---------|---------|---------|------|------|---------|---------|---------|
| 5/29/99 | -293.2 | -289.44 | -265.59 | -43.611 | | | -83.128 | -195.09 | -335.15 |
| 5/30/99 | -291.92 | -288.8 | -265.74 | -40.401 | | | -64.159 | -180.16 | -329.99 |
| 5/31/99 | -290.68 | -288.29 | -266.29 | -37.482 | | | -58.68 | -174.15 | -325.4 |
| 6/1/99 | -291.12 | -289.05 | -267.61 | -36.264 | | | -60.657 | -175.19 | -325.07 |
| 6/2/99 | -293.01 | -290.98 | -269.68 | -36.606 | | | -66.454 | -179.1 | -327.58 |
| 6/3/99 | -295.68 | -293.62 | -272.3 | -39.329 | | | -77.215 | -187.76 | -332.38 |
| 6/4/99 | -297.8 | -295.53 | -273.84 | -40.469 | | | -81.313 | -192.94 | -336.19 |
| 6/5/99 | -299.17 | -296.83 | -275.15 | -41.596 | | | -86.421 | -199.07 | -338.67 |
| 6/6/99 | -300.56 | -298.6 | -277.24 | -42.488 | | | -88.837 | -203.41 | -339.22 |
| 6/7/99 | -301.33 | -299.7 | -278.46 | -43.818 | | | -103.89 | -209.58 | -340.21 |
| 6/8/99 | -303.24 | -301.38 | -279.71 | -45.717 | | | -122.42 | -220.83 | -344.5 |
| 6/9/99 | -304.84 | -302.74 | -280.94 | -48.122 | -97 | -125 | -140.99 | -233.69 | -349.24 |
| 6/10/99 | -306.34 | -304.03 | -282.16 | -50.744 | | | -156.91 | -245.07 | -354.95 |
| 6/11/99 | -307.51 | -305.27 | -283.32 | -53.6 | | | -169.69 | -254.51 | -358.95 |
| 6/12/99 | -308.36 | -306.27 | -284.52 | -61.021 | -128 | -165 | -179.83 | -263.04 | -355.73 |
| 6/13/99 | -309.1 | -306.57 | -285.43 | -59.024 | -129 | -169 | -191.72 | -269.28 | -352.77 |
| 6/14/99 | -312.74 | -306.08 | -285.58 | -67.05 | -134 | -176 | -199.01 | -273.56 | -355.26 |
| 6/15/99 | -310.66 | -306.61 | -286.12 | -105.09 | | | -201.59 | -276.97 | -357.11 |
| 6/16/99 | -310.67 | -307.22 | -286.91 | -111.58 | | | -203.05 | -279.3 | -355.54 |
| 6/17/99 | -309.27 | -306.82 | -287.24 | -112.86 | -138 | -179 | -205.5 | -281.07 | -353.06 |
| 6/18/99 | -307.81 | -307.69 | -288.09 | -110.33 | | | -202 | -277.05 | -350.24 |
| 6/19/99 | -307.28 | -305.86 | -288.26 | -102.15 | | | -191.13 | -266.94 | -348.08 |
| 6/20/99 | -306.18 | -305.23 | -288.11 | -100.35 | -130 | -151 | -186.86 | -263.48 | -350.1 |
| 6/21/99 | -307.95 | -304.34 | -287.83 | -97.692 | | | -187.96 | -261.92 | -351.21 |
| 6/22/99 | -306.05 | -304.83 | -288.05 | -94.083 | -127 | -162 | -189.41 | -265.39 | -354.2 |
| 6/23/99 | -308 | -305.65 | -289.2 | -95.7 | -131 | -166 | -195 | -267.4 | -355.51 |
| 6/24/99 | -309.96 | -307.49 | -290.18 | -97.127 | | | -203.99 | -269.85 | -355.29 |
| 6/25/99 | -311.17 | -308.14 | -290.58 | -99.018 | | | -207.21 | -272.82 | -358.96 |
| 6/26/99 | -312.34 | -309.08 | -291.32 | -101.88 | | | -211.61 | -276.13 | -360.27 |
| 6/27/99 | -312.88 | -309.54 | -291.76 | -105.35 | | | -215.05 | -278.89 | -361.6 |
| 6/28/99 | -312.74 | -309.26 | -290.72 | -108.71 | | | -217.88 | -280.48 | -361.74 |
| 6/29/99 | -313.1 | -308.04 | -287.21 | -111.71 | | | -220.14 | -282.12 | -365.72 |
| 6/30/99 | -312.93 | -306.37 | -283.26 | -114.06 | | | -222.21 | -284.11 | -368.89 |
| 7/1/99 | -310.32 | -302.72 | -278.38 | -116.17 | | | -224.21 | -286.62 | -370.46 |
| 7/2/99 | -306.86 | -298.3 | -273.03 | -118.21 | | | -226.04 | -289.07 | -372.47 |
| 7/3/99 | -303.07 | -294.05 | -268.28 | -120.1 | | | -227.97 | -291.1 | -372.44 |
| 7/4/99 | -298.82 | -289.69 | -263.63 | -122.18 | | | -229.37 | -291.76 | -369.92 |
| 7/5/99 | -294.85 | -285.38 | -259.22 | -124.26 | | | -229.38 | -291.56 | -369.06 |
| 7/6/99 | -291.5 | -281.43 | -254.87 | -125.86 | | | -228.71 | -290.75 | -367.04 |
| 7/7/99 | -288.31 | -278.26 | -251.62 | -126.8 | | | -227.7 | -287.84 | -362.22 |
| 7/8/99 | -287.32 | -277.18 | -250.57 | -127.55 | | | -227.41 | -286 | -360.1 |
| 7/9/99 | -287.89 | -277.51 | -250.89 | -128.36 | | | -227.69 | -285.85 | -361.39 |
| 7/10/99 | -287.84 | -277.28 | -250.59 | -129 | | | -227.51 | -286.22 | -360.13 |
| 7/11/99 | -285.88 | -276.09 | -249.83 | -128.38 | | | -225.54 | -283.45 | -356.07 |
| 7/12/99 | -284.43 | -274.82 | -248.74 | -129.4 | | | -227.64 | -282.72 | -355.08 |
| 7/13/99 | -283.61 | -273.76 | -247.56 | -130.23 | | | -227.86 | -283.66 | -357.55 |
| 7/14/99 | -283.44 | -273.14 | -246.97 | -131.55 | | | -229.96 | -285.4 | -360.09 |
| 7/15/99 | -285.15 | -274.51 | -248.31 | -133.6 | | | -230.47 | -287.52 | -362.73 |
| 7/16/99 | -289.27 | -278.98 | -252.78 | -134.83 | | | -231.85 | -289.7 | -364.75 |
| 7/17/99 | -291.11 | -281.42 | -256.59 | -135.98 | | | -232.33 | -290.15 | -363.74 |
| 7/18/99 | -289.1 | -280.76 | -256.75 | -136.2 | | | -229.93 | -286.92 | -355.95 |
| 7/19/99 | -282.78 | -274.3 | -249.57 | -134.19 | | | -223.37 | -280.82 | -349.55 |
| 7/20/99 | -280.54 | -270.71 | -244.5 | -127.19 | | | -219.57 | -279.92 | -353.63 |
| 7/21/99 | -279.43 | -269.4 | -243.85 | -122.93 | | | -218.28 | -280.12 | -354.44 |
| 7/22/99 | -278.5 | -269.31 | -245.11 | -120.61 | -151 | -184 | -217.7 | -278.39 | -350.74 |
| 7/23/99 | -279.87 | -271.98 | -248.35 | -120.01 | | | -220.13 | -277.53 | -351.22 |
| 7/24/99 | -283.08 | -276.1 | -252.08 | -122.26 | | | -223.57 | -278.71 | -352.37 |
| 7/25/99 | -286.36 | -279.55 | -255.63 | -125.86 | | | -227.28 | -280.62 | -354.6 |
| 7/26/99 | -288.74 | -282.36 | -258.69 | -132.27 | | | -231.02 | -282.7 | -354.84 |
| 7/27/99 | -291.44 | -284.91 | -261.33 | -136.9 | | | -233.42 | -285.01 | -358.66 |
| 7/28/99 | -294.53 | -287.8 | -264.23 | -139.64 | | | -235.72 | -287.97 | -361.78 |
| 7/29/99 | -297.28 | -290.58 | -266.71 | -141.24 | | | -237.11 | -289.68 | -364.41 |
| 7/30/99 | -299.69 | -293.23 | -269.23 | -144.17 | | | -241.45 | -290.95 | -365.42 |
| 7/31/99 | -301.61 | -295.54 | -272.22 | -148.34 | | | -244.28 | -292.97 | -365.9 |
| 8/1/99 | -301.47 | -296.66 | -274.86 | -151.53 | | | -244.16 | -292.81 | -360.6 |
| 8/2/99 | -303.28 | -298.11 | -276.75 | -152.23 | | | -245.65 | -294.36 | -366.03 |
| 8/3/99 | -304.36 | -299.39 | -278.21 | -150.28 | | | -243.25 | -294.86 | -365.32 |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 8/4/99 | -302.63 | -298.96 | -278.67 | -132.05 | -232.79 | -290.29 | -359.46 |
| 8/5/99 | -301.36 | -298.35 | -278.67 | -76.479 | -191.71 | -268.61 | -353.62 |
| 8/6/99 | -300.59 | -297.83 | -278.73 | -31.329 | -140.7 | -252.46 | -348.33 |
| 8/7/99 | -300.87 | -298.06 | -279.07 | -55.628 | -140.71 | -252.88 | -347.66 |
| 8/8/99 | -302.39 | -299.31 | -280.02 | -68.975 | -160.9 | -258.17 | -349.65 |
| 8/9/99 | -302.5 | -299.69 | -280.43 | -76.827 | -170.77 | -259.24 | -345.6 |
| 8/10/99 | -301.29 | -299.1 | -280.43 | -77.688 | -172.44 | -253.61 | -337.59 |
| 8/11/99 | -299.92 | -298.36 | -280.54 | -44.696 | -143.34 | -237.25 | -330.63 |
| 8/12/99 | -297.88 | -297.08 | -280.18 | -44.053 | -121.69 | -222.03 | -324.22 |
| 8/13/99 | -299.22 | -297.97 | -280.74 | -53.008 | -142.22 | -228.07 | -325.29 |
| 8/14/99 | -301.07 | -298.26 | -281.43 | -63.136 | -154.96 | -233.01 | -328.7 |
| 8/15/99 | -302.26 | -298.82 | -282.51 | -78.567 | -166.29 | -239.51 | -330.28 |
| 8/16/99 | -301.41 | -298.92 | -283.1 | -87.11 | -174.42 | -244.27 | -329.69 |
| 8/17/99 | -301.8 | -299.55 | -283.55 | -91.793 | -179.69 | -248.33 | -331.8 |
| 8/18/99 | -301.59 | -300.81 | -283.86 | -97.232 | -184.95 | -252.66 | -336.64 |
| 8/19/99 | -303.28 | -301.9 | -284.66 | -100.97 | -189.76 | -256.3 | -337.49 |
| 8/20/99 | -304 | -301.63 | -285.08 | -105.3 | -193.58 | -259.47 | -339.12 |
| 8/21/99 | -302.12 | -302.38 | -285 | -110.8 | -198.07 | -261.59 | -341.07 |
| 8/22/99 | -302.44 | -302.78 | -285.38 | -115.21 | -202.11 | -264.42 | -340.35 |
| 8/23/99 | -302.57 | -302.36 | -285.33 | -117.77 | -205.2 | -266.41 | -339.04 |
| 8/24/99 | -302.16 | -302.35 | -285.56 | -119.77 | -207.79 | -268.2 | -339.22 |
| 8/25/99 | -301.7 | -303.13 | -286.11 | -123.05 | -210.17 | -270.13 | -342.77 |
| 8/26/99 | -302.44 | -303.93 | -286.56 | -125.3 | -212.31 | -272.24 | -344.64 |
| 8/27/99 | -304.6 | -304.43 | -287.75 | -129.3 | -212.86 | -275 | -345.5 |
| 8/28/99 | -304.69 | -305 | -288.29 | -128.91 | -216.77 | -278.97 | |
| 8/29/99 | -303.5 | -305 | -288.49 | -130.21 | -215.53 | -277.41 | |
| 8/30/99 | -303.72 | -306 | -289.12 | -131.67 | -217.03 | -278.16 | |
| 8/31/99 | -304.1 | -306 | -289.33 | -133.13 | -217.75 | -278.34 | |
| 9/1/99 | -304.05 | -307 | -289.69 | -133.91 | -219.1 | -278.95 | |
| 9/2/99 | -304.34 | -308 | -289.77 | -134.98 | -221.05 | -279.81 | |
| 9/3/99 | -304.31 | -309.13 | -289.85 | -136.82 | -221.49 | -280.16 | |
| 9/4/99 | -302.52 | -307.81 | -289.39 | -137.92 | -221.18 | -278.66 | |
| 9/5/99 | -301.47 | -306.22 | -289.12 | -138.85 | -220.14 | -277.84 | |
| 9/6/99 | -301.35 | -304.64 | -288.54 | -138.94 | -218.64 | -277.61 | |
| 9/7/99 | -302.82 | -305.29 | -288.83 | -139.35 | -221.16 | -278.37 | |
| 9/8/99 | -303.85 | -306.45 | -289.84 | -140.46 | -223.78 | -280.17 | |
| 9/9/99 | -304.82 | -307.14 | -290.36 | -141.81 | -224.8 | -281.46 | |
| 9/10/99 | -305.24 | -307.89 | -290.15 | -143.04 | -225.23 | -281.98 | |
| 9/11/99 | -306.41 | -308.67 | -290.61 | -144 | -226.51 | -283.32 | |
| 9/12/99 | -307.65 | -309.76 | -292.02 | -145.11 | -228.44 | -285.36 | |
| 9/13/99 | -307.06 | -309.47 | -292.74 | -145.99 | -228.38 | -285.96 | |
| 9/14/99 | -306.78 | -308.54 | -291.7 | -146.27 | -226.97 | -285.55 | |
| 9/15/99 | -306.52 | -307.85 | -291.48 | -146.25 | -226.37 | -285.82 | |
| 9/16/99 | -307.27 | -308.1 | -291.82 | -145.96 | -226.63 | -286.8 | |
| 9/17/99 | -308.3 | -308.05 | -291.92 | -145.16 | -224.8 | -286.48 | |
| 9/18/99 | -308.39 | -305.47 | -289.55 | -143.53 | -223.01 | -283.4 | |
| 9/19/99 | -309.45 | -304.69 | -287.99 | -143.06 | -222.12 | -281.57 | |
| 9/20/99 | -307.96 | -303.55 | -287.4 | -142.71 | -221.67 | -280.43 | |
| 9/21/99 | -309.07 | -303.42 | -287.56 | -142.64 | -221.82 | -281.18 | |
| 9/22/99 | -308.8 | -302.78 | -287.58 | -142 | -222.61 | -282.3 | |
| 9/23/99 | -306.48 | -302.68 | -287.05 | -142 | -223.07 | -282.96 | |
| 9/24/99 | -306.62 | -304.01 | -286.48 | -141.75 | -221.61 | -281.87 | |
| 9/25/99 | -307.12 | -306.24 | -287.13 | -140.11 | -220.63 | -282.62 | -383 |
| 9/26/99 | -308.11 | -306.37 | -287.15 | -139.51 | -221.3 | -283.65 | |
| 9/27/99 | -307.78 | -306.1 | -286.89 | -141.89 | -223.17 | -284.57 | |
| 9/28/99 | -309.75 | -306.87 | -287.24 | -145.57 | -226.09 | -287.28 | |
| 9/29/99 | -309.89 | -306.5 | -287.01 | -149.4 | -227.75 | -288.72 | |
| 9/30/99 | -310.12 | -305.48 | -286.53 | -151.93 | -229.06 | -289.15 | |
| 10/1/99 | -310.29 | -304.93 | -286.03 | -153.55 | -230.05 | -289.06 | |
| 10/2/99 | -311.24 | -305.63 | -285.89 | -155.6 | -231.77 | -290.91 | |
| 10/3/99 | -310.45 | -301.59 | -281.25 | -157.1 | -232.99 | -291.81 | |
| 10/4/99 | -307.56 | -295.87 | -275.64 | -159.32 | -233.67 | -291.42 | |
| 10/5/99 | -303.35 | -291.63 | -270.83 | -161.23 | -233.66 | -290.09 | |
| 10/6/99 | -296.08 | -288.65 | -267.97 | -163.74 | -234.98 | -289.78 | |
| 10/7/99 | -297.54 | -287.45 | -266.04 | -166.43 | -236.6 | -290.94 | |
| 10/8/99 | -301.07 | -287.29 | -263.93 | -168.86 | -237.85 | -293.61 | |
| 10/9/99 | -298.89 | -284.87 | -261.23 | -169.87 | -238.37 | -294.83 | |

-147

-185

-157

-191

| | | | | | | | | | |
|----------|---------|---------|---------|---------|------|------|---------|---------|------|
| 10/10/99 | -295.9 | -284.66 | -259.98 | -169.64 | | | -238.56 | -295.34 | |
| 10/11/99 | -296.52 | -284.04 | -259.39 | -169.84 | | | -238.43 | -295.16 | |
| 10/12/99 | -295.51 | -282.2 | -258 | -169.87 | | | -238.15 | -294.63 | |
| 10/13/99 | -294.41 | -280.6 | -255.88 | -169.15 | | | -237.92 | -294.16 | |
| 10/14/99 | -290.84 | -277.71 | -253.07 | -169.31 | | | -237.68 | -292.63 | |
| 10/15/99 | -287.9 | -275.97 | -250.11 | -170.41 | | | -237.36 | -291.18 | |
| 10/16/99 | -285.79 | -274.48 | -247.17 | -170.17 | -185 | -213 | -237.76 | -292.2 | -371 |
| 10/17/99 | -283.48 | -271.83 | -244.32 | -168.37 | | | -236.5 | -291.5 | |
| 10/18/99 | -280.21 | -268.55 | -241.01 | -168.86 | | | -233.11 | -287.7 | |
| 10/19/99 | -277.53 | -265.65 | -238.33 | -166.47 | | | -229.87 | -284.67 | |
| 10/20/99 | -273.94 | -263.09 | -235.54 | -158.1 | | | -225.37 | -282.46 | |
| 10/21/99 | -271.75 | -261.23 | -233.21 | -152.1 | | | -222.73 | -280.99 | |
| 10/22/99 | -270.86 | -259.48 | -231.02 | -148.47 | | | -220.95 | -279.62 | |
| 10/23/99 | -269.32 | -257.44 | -228.42 | -147.17 | | | -219.7 | -278.4 | |
| 10/24/99 | -267.58 | -255.42 | -225.87 | -146.33 | | | -218.78 | -277.47 | |
| 10/25/99 | -266.58 | -253.67 | -223.47 | -146.69 | | | -218.88 | -277.47 | |
| 10/26/99 | -266.33 | -252.3 | -221.3 | -147.27 | | | -219.62 | -278.5 | |
| 10/27/99 | -266.92 | -249.76 | -219.65 | -149.66 | | | -221.34 | -279.95 | |
| 10/28/99 | -266.1 | -249.06 | -218.2 | -150.72 | | | -222.85 | -279.9 | |
| 10/29/99 | -265.47 | -241.47 | -217.48 | -151.25 | | | -224.03 | -280.5 | |
| 10/30/99 | -264.66 | -238.67 | -212.69 | -154.87 | -171 | -200 | -225.18 | -281.37 | -341 |
| 10/31/99 | -261.85 | -235.94 | -210.03 | -156.59 | | | -224.11 | -277.95 | |
| 11/1/99 | -259.33 | -232.91 | -206.48 | -157.88 | | | -223.09 | -275.5 | |
| 11/2/99 | -256.06 | -230.17 | -204.27 | -152.7 | | | -219.89 | -273.05 | |
| 11/3/99 | -254.65 | -228.2 | -201.75 | -140.76 | | | -216.15 | -272.39 | |
| 11/4/99 | -253.8 | -226.75 | -199.71 | -136.19 | | | -214.7 | -272.17 | |
| 11/5/99 | -253.09 | -225.88 | -198.66 | -135.71 | | | -214.28 | -272.45 | |
| 11/6/99 | -251.14 | -225.41 | -199.68 | -135.76 | | | -213.55 | -271.58 | |
| 11/7/99 | -249.45 | -223.56 | -197.67 | -134.66 | | | -212.45 | -270.47 | |
| 11/8/99 | -248.22 | -221.99 | -195.76 | -133.99 | | | -211.65 | -269.56 | |
| 11/9/99 | -247.83 | -220.98 | -194.13 | -133.36 | | | -211.65 | -270.7 | |
| 11/10/99 | -247.13 | -219.96 | -192.8 | -134.03 | | | -211.64 | -271.39 | |
| 11/11/99 | -246 | -218.7 | -191.4 | -133.73 | | | -211.48 | -271.29 | |
| 11/12/99 | -245.02 | -217.98 | -190.93 | -133.54 | | | -211.42 | -271.18 | |
| 11/13/99 | -244.98 | -218.6 | -192.23 | -134.01 | | | -211.8 | -271.4 | |
| 11/14/99 | -246.61 | -220.29 | -193.97 | -134.99 | | | -212.55 | -272.28 | |
| 11/15/99 | -246.48 | -220.36 | -194.24 | -134.66 | | | -212.59 | -272.63 | |
| 11/16/99 | -245.67 | -219.53 | -193.4 | -134.21 | | | -212.63 | -272.65 | |
| 11/17/99 | -246.14 | -219.26 | -192.39 | -133.67 | | | -212.51 | -272.73 | |
| 11/18/99 | -246.69 | -219.47 | -192.25 | -134.2 | | | -212.68 | -273.27 | |
| 11/19/99 | -249.49 | -221.5 | -193.52 | -135.38 | | | -212.65 | -273.41 | |
| 11/20/99 | -246.02 | -220.32 | -194.63 | -132.34 | | | -210.72 | -270.36 | |
| 11/21/99 | -244.15 | -221.08 | -198.01 | -131.92 | | | -210.86 | -270.53 | |
| 11/22/99 | -246.2 | -223.89 | -201.58 | -134.09 | | | -212.63 | -273.02 | |
| 11/23/99 | -248.03 | -226.09 | -204.14 | -135.31 | | | -213.78 | -274.89 | |
| 11/24/99 | -246.03 | -225.69 | -205.35 | -132.74 | | | -213.27 | -275.15 | |
| 11/25/99 | -246.95 | -226.55 | -206.14 | -131.28 | | | -213.14 | -275.18 | |
| 11/26/99 | -246.4 | -226.33 | -206.26 | -130.44 | | | -213.04 | -275.25 | |
| 11/27/99 | -246.17 | -226.22 | -206.26 | -131.84 | | | -213.35 | -275.6 | |
| 11/28/99 | -248.06 | -227.17 | -206.29 | -133.85 | | | -213.6 | -275.76 | |
| 11/29/99 | -249.16 | -227.44 | -205.73 | -133.4 | | | -213.13 | -275.38 | |
| 11/30/99 | -248.3 | -226.25 | -204.21 | -131.31 | | | -212.3 | -274.39 | |
| 12/1/99 | -243.25 | -222.86 | -202.46 | -130.37 | | | -211.13 | -272.68 | |
| 12/2/99 | -241.99 | -221.53 | -201.07 | -130.58 | | | -210.93 | -272.36 | |
| 12/3/99 | -246.9 | -223.6 | -200.29 | -132.03 | | | -210.97 | -272.34 | |
| 12/4/99 | -253.21 | -227.25 | -201.29 | -131.36 | | | -211.06 | -274.07 | |
| 12/5/99 | -249.85 | -225.42 | -200.98 | -129.06 | | | -210.3 | -273.81 | |
| 12/6/99 | -247.1 | -223.53 | -199.95 | -125.8 | | | -209.49 | -273.22 | |
| 12/7/99 | -246.28 | -222.8 | -199.32 | -124.1 | | | -209.2 | -272.81 | |
| 12/8/99 | -247.85 | -223.65 | -199.44 | -124.96 | | | -209.56 | -273.43 | |
| 12/9/99 | -251.9 | -226.41 | -200.92 | -127.33 | | | -210.46 | -274.88 | |
| 12/10/99 | -245.91 | -223.19 | -200.46 | -128.43 | | | -210.96 | -274.38 | |
| 12/11/99 | -247.63 | -224.39 | -201.15 | -131.3 | | | -212.02 | -275.14 | |
| 12/12/99 | -249.76 | -225.89 | -202.02 | -134.29 | | | -213.31 | -276.77 | |
| 12/13/99 | -246.25 | -223.78 | -201.31 | -133.32 | | | -213.19 | -276.56 | |
| 12/14/99 | -249.66 | -225.8 | -201.94 | -134.86 | | | -213.77 | -277.29 | |
| 12/15/99 | -249.19 | -225.76 | -202.32 | -135.93 | | | -214.26 | -277.98 | |

| | | | | | | | | | |
|----------|---------|---------|---------|---------|------|------|---------|---------|------|
| 12/16/99 | -246.15 | -223.57 | -200.99 | -134.01 | | | -214.11 | -277.79 | |
| 12/17/99 | -246.47 | -223.2 | -199.93 | -134.86 | | | -214.67 | -277.97 | |
| 12/18/99 | -245.35 | -221.95 | -198.55 | -135.9 | | | -214.41 | -277.55 | |
| 12/19/99 | -245.16 | -227.06 | -198.88 | -136.67 | -151 | -184 | -211.71 | -276.93 | -356 |
| 12/20/99 | -245.55 | -226.52 | -198.42 | -138.76 | | | -211.09 | -276.91 | |
| 12/21/99 | -244.98 | -225.83 | -197.62 | -138.45 | | | -210.79 | -276.5 | |
| 12/22/99 | -244.7 | -225.53 | -197.5 | -137.05 | | | -210.61 | -275.64 | |
| 12/23/99 | -244.54 | -225.32 | -197.24 | -136.81 | | | -210.36 | -275.68 | |
| 12/24/99 | -244.2 | -224.9 | -196.6 | -136.74 | | | -209.96 | -275.45 | |
| 12/25/99 | -243.91 | -224.66 | -196.27 | -136.26 | | | -209.85 | -275.56 | |
| 12/26/99 | -243.66 | -224.54 | -196.21 | -136.45 | | | -209.01 | -274.89 | |
| 12/27/99 | -243.5 | -224.37 | -195.95 | -136.95 | | | -209.32 | -274.93 | |
| 12/28/99 | -243.39 | -224.29 | -195.82 | -137.01 | | | -209.29 | -274.83 | |
| 12/29/99 | -242.89 | -223.92 | -195.27 | -135.69 | | | -208.67 | -274.41 | |
| 12/30/99 | -243.26 | -224.18 | -195.67 | -137.05 | | | -208.89 | -274.54 | |
| 12/31/99 | -243.3 | -224.38 | -196.04 | -136.37 | | | -208.74 | -274.46 | |
| 1/1/00 | -243.83 | -224.59 | -196.32 | -134.95 | | | -208.39 | -274.29 | |
| 1/2/00 | -244.79 | -225.81 | -197.89 | -135.1 | | | -208.58 | -274.62 | |
| 1/3/00 | -248.16 | -228.47 | -201.25 | -134.85 | | | -209.55 | -275.4 | |
| 1/4/00 | -249.58 | -231.5 | -204.96 | -135.39 | | | -210.33 | -276.23 | |
| 1/5/00 | -250.32 | -232.86 | -206.3 | -134.76 | | | -210.35 | -276.35 | |
| 1/6/00 | -252.04 | -234.37 | -208.11 | -135.24 | | | -211.64 | -277.34 | |
| 1/7/00 | -251.95 | -235.13 | -208.97 | -135.81 | | | -211.72 | -277.73 | |
| 1/8/00 | -252.1 | -235.25 | -209 | -133.9 | | | -211.53 | -277.66 | |
| 1/9/00 | -252.93 | -235.5 | -209.19 | -134.7 | | | -212.23 | -277.94 | |
| 1/10/00 | -252.95 | -235.63 | -209.2 | -136.05 | | | -212.7 | -278.34 | |
| 1/11/00 | -252.76 | -235.55 | -209.08 | -135.17 | | | -212.31 | -278.37 | |
| 1/12/00 | -253.3 | -235.74 | -209.45 | -133.97 | | | -212.02 | -278.17 | |
| 1/13/00 | -255.12 | -236.3 | -210.27 | -134.2 | | | -212.39 | -278.36 | |
| 1/14/00 | -253.05 | -236.37 | -210.29 | -133.95 | | | -211.86 | -278.11 | |
| 1/15/00 | -249.26 | -236.09 | -209.83 | -132.98 | | | -211.32 | -277.79 | |
| 1/16/00 | -248.55 | -235.92 | -209.71 | -132.55 | | | -211.15 | -277.68 | |
| 1/17/00 | -251.62 | -235.96 | -209.81 | -132.54 | | | -210.93 | -277.57 | |
| 1/18/00 | -252.67 | -235.93 | -209.76 | -132.18 | | | -210.54 | -277.36 | |
| 1/19/00 | -252.75 | -235.19 | -208.92 | -130.83 | | | -209.95 | -276.91 | |
| 1/20/00 | -252.38 | -234.47 | -208.09 | -130.2 | | | -209.6 | -276.49 | |
| 1/21/00 | -251.17 | -233.33 | -206.68 | -129.95 | | | -209.25 | -275.95 | |
| 1/22/00 | -251.94 | -232.5 | -205.58 | -130.91 | | | -209.2 | -275.68 | |
| 1/23/00 | -250.97 | -231.73 | -204.84 | -131.27 | | | -209.15 | -275.48 | |
| 1/24/00 | -248.65 | -230.8 | -203.62 | -130.62 | | | -208.4 | -274.95 | |
| 1/25/00 | -248.35 | -230.06 | -202.74 | -129.52 | | | -207.68 | -274.42 | |
| 1/26/00 | -247.23 | -229.18 | -201.64 | -127.82 | | | -206.82 | -273.8 | |
| 1/27/00 | -250.63 | -229.46 | -202.17 | -128.49 | | | -206.84 | -273.88 | |
| 1/28/00 | -249.7 | -231.3 | -204.68 | -127.77 | | | -206.47 | -273.78 | |
| 1/29/00 | -252.58 | -233.79 | -207.58 | -126.23 | | | -206.37 | -274.09 | |
| 1/30/00 | -253.71 | -234.55 | -208.24 | -124.93 | | | -206.28 | -274.26 | |
| 1/31/00 | -254.52 | -234.43 | -207.99 | -124.09 | | | -206.17 | -274.36 | |
| 2/1/00 | -258.13 | -234.69 | -208.44 | -124.04 | | | -206.59 | -274.7 | |
| 2/2/00 | -259.27 | -234.69 | -208.39 | -123.83 | | | -206.73 | -274.85 | |
| 2/3/00 | -255 | -234.15 | -207.58 | -122.91 | | | -206.23 | -274.48 | |
| 2/4/00 | -254.14 | -234.02 | -207.42 | -124.99 | | | -207.12 | -274.75 | |
| 2/5/00 | -253.53 | -233.91 | -207.17 | -127.38 | | | -207.77 | -275.1 | |
| 2/6/00 | -255.41 | -234.14 | -207.48 | -128.59 | | | -208.24 | -275.38 | |
| 2/7/00 | -256.32 | -234.58 | -208.19 | -128.71 | | | -208.45 | -275.61 | |
| 2/8/00 | -253.94 | -234.34 | -207.77 | -128.35 | | | -208.01 | -275.38 | |
| 2/9/00 | -253.85 | -233.59 | -206.88 | -126.94 | | | -207.22 | -274.76 | |
| 2/10/00 | -256.13 | -233.49 | -206.89 | -126.25 | | | -207.05 | -274.56 | |
| 2/11/00 | -255.44 | -233.67 | -207.23 | -125.62 | | | -206.64 | -274.48 | |
| 2/12/00 | -252.71 | -233.56 | -207.17 | -124.24 | | | -205.9 | -274.05 | |
| 2/13/00 | -253.4 | -234.03 | -207.74 | -123.73 | | | -205.76 | -274.02 | |
| 2/14/00 | -253.25 | -234.65 | -208.52 | -124.81 | | | -206.45 | -274.26 | |
| 2/15/00 | -252.47 | -234.72 | -208.62 | -126.19 | | | -206.61 | -274.38 | |
| 2/16/00 | -253.74 | -234.62 | -208.49 | -125.32 | | | -205.82 | -274.17 | |
| 2/17/00 | -251.31 | -234.14 | -207.76 | -122.77 | | | -204.85 | -273.67 | |
| 2/18/00 | -257.41 | -235.35 | -209.37 | -121.16 | | | -204.99 | -274.14 | |
| 2/19/00 | -257.46 | -236.21 | -210.42 | -120.05 | | | -204.96 | -274.32 | |
| 2/20/00 | -251.89 | -236.56 | -210.62 | -120.19 | | | -204.97 | -274.44 | |

| | | | | | | | | | | |
|---------|---------|---------|---------|---------|------|------|--|--|---------|---------|
| 2/21/00 | -249.77 | -236.86 | -210.89 | -120.36 | | | | | -205.08 | -274.59 |
| 2/22/00 | -253.07 | -237.25 | -211.43 | -120.62 | | | | | -205.31 | -274.89 |
| 2/23/00 | -251.54 | -237.65 | -211.93 | -120.82 | | | | | -205.49 | -275.11 |
| 2/24/00 | -250.02 | -237.75 | -211.98 | -120.1 | | | | | -205.26 | -275.06 |
| 2/25/00 | -253.16 | -238.48 | -212.83 | -120.76 | | | | | -205.82 | -275.68 |
| 2/26/00 | -256.97 | -239.09 | -213.67 | -120.94 | | | | | -206.32 | -276.12 |
| 2/27/00 | -252.67 | -238.88 | -213.17 | -121.33 | | | | | -206.41 | -276.1 |
| 2/28/00 | -250.38 | -238.11 | -212.19 | -121.22 | | | | | -206.03 | -275.86 |
| 2/29/00 | -259.5 | -238.99 | -213.31 | 121 | -141 | -179 | | | -207.5 | -278 |
| 3/1/00 | | -238.89 | -212.28 | -121.09 | | | | | -208.79 | -276.32 |
| 3/2/00 | | -236.33 | -210.26 | -124.46 | | | | | -208.68 | -273.82 |
| 3/3/00 | | -234.01 | -207.23 | -129.16 | | | | | -209.76 | -273.95 |
| 3/4/00 | | -231.97 | -204.11 | -130.04 | | | | | -209.78 | -274.8 |
| 3/5/00 | | -230.39 | -202.26 | -131.26 | | | | | -210.33 | -274.96 |
| 3/6/00 | | -229.64 | -201.51 | -133.86 | | | | | -211.35 | -275.31 |
| 3/7/00 | | -227.7 | -200.76 | -135.63 | | | | | -210.5 | -271.89 |
| 3/8/00 | | -227.55 | -201.62 | -138.38 | | | | | -210.77 | -271.31 |
| 3/9/00 | | -225.98 | -196.97 | -138.83 | | | | | -211.25 | -272.97 |
| 3/10/00 | | -219.68 | -188.33 | -139.31 | | | | | -210.56 | -271.47 |
| 3/11/00 | | -213.74 | -180.11 | -141.87 | | | | | -211.7 | -272.83 |
| 3/12/00 | | -204.56 | -160.41 | -142.54 | | | | | -211.49 | -273.46 |
| 3/13/00 | | -186.64 | -123.24 | -143.68 | | | | | -212.44 | -273.69 |
| 3/14/00 | | -162.18 | -95.408 | -146.68 | | | | | -212.94 | -273.4 |
| 3/15/00 | | -141.92 | -75.517 | -149.25 | | | | | -214 | -273.75 |
| 3/16/00 | | -108.64 | -47.806 | -152.5 | | | | | -215.7 | -275.07 |
| 3/17/00 | | -65.7 | -27.516 | -155.26 | | | | | -216.97 | -276.08 |
| 3/18/00 | | -35.905 | -15.89 | -158.16 | | | | | -219.11 | -278.11 |
| 3/19/00 | | -21.859 | -8.7697 | -159.77 | | | | | -220.44 | -279.29 |
| 3/20/00 | | -18.024 | -6.8698 | -158.43 | | | | | -218.84 | -278.93 |
| 3/21/00 | | -12.678 | -3.347 | -153.08 | | | | | -216.78 | -278.39 |
| 3/22/00 | | -8.5046 | -0.7501 | -139.61 | | | | | -210.23 | -273.45 |
| 3/23/00 | | -19.567 | -8.5821 | -132.25 | | | | | -205.96 | -270.32 |
| 3/24/00 | | -17.613 | -7.1896 | -127.76 | | | | | -204.02 | -269.37 |
| 3/25/00 | | -13.683 | -4.5834 | -124.83 | | | | | -202.7 | -268.68 |
| 3/26/00 | | -11.393 | -3.1156 | -123.31 | | | | | -202 | -267.82 |
| 3/27/00 | | -9.8186 | -2.0484 | -121.8 | | | | | -200.6 | -266.98 |
| 3/28/00 | | -11.252 | -2.9835 | -123.28 | | | | | -201.85 | -267.15 |
| 3/29/00 | | -8.4257 | -0.9531 | -129.48 | | | | | -204.88 | -268.83 |
| 3/30/00 | | -5.4368 | 1.1864 | -133.36 | | | | | -205.28 | -268.59 |
| 3/31/00 | | -4.8421 | 1.7275 | -133.87 | | | | | -204.62 | -268.24 |
| 4/1/00 | | -4.3439 | 2.1997 | -134.75 | | | | | -204.68 | -268.23 |
| 4/2/00 | | -3.8995 | 2.7791 | -135.17 | | | | | -204.24 | -267.8 |
| 4/3/00 | | -6.5842 | 0.3197 | -124.61 | | | | | -201 | -266.48 |
| 4/4/00 | | -19.951 | -8.9478 | -122.18 | | | | | -201 | -265.33 |
| 4/5/00 | | -19.062 | -7.5221 | -126.25 | | | | | -202.58 | -265.87 |
| 4/6/00 | | -9.001 | -0.6466 | -130.72 | | | | | -204.61 | -266.68 |
| 4/7/00 | | -5.9589 | 1.5016 | -135.87 | | | | | -207.11 | -268.84 |
| 4/8/00 | | -6.3536 | 1.1204 | -141.08 | | | | | -209.61 | -270.57 |
| 4/9/00 | | -6.8827 | 0.9513 | -143.05 | | | | | -210.45 | -271.03 |
| 4/10/00 | | -7.0697 | 0.8718 | -145.93 | | | | | -211.75 | -272.27 |
| 4/11/00 | | -11.77 | -2.5498 | -149.35 | | | | | -213.94 | -274.48 |
| 4/12/00 | | -16.847 | -5.6861 | -149.68 | | | | | -213.47 | -274.36 |
| 4/13/00 | | -15.816 | -4.7127 | -149.3 | | | | | -214.02 | -274.3 |
| 4/14/00 | | -16.404 | -5.0528 | -149.84 | | | | | -215.58 | -275.72 |
| 4/15/00 | | -25.269 | -10.956 | -153.48 | | | | | -217.14 | -276.9 |
| 4/16/00 | | -23.351 | -9.3359 | -155.2 | | | | | -217.04 | -275.32 |
| 4/17/00 | | -16.824 | -5.0757 | -156.21 | | | | | -216.49 | -273.71 |
| 4/18/00 | | -16.436 | -4.7727 | -155.87 | | | | | -216.77 | -275.03 |
| 4/19/00 | | -17.622 | -5.688 | -155.93 | | | | | -216.71 | -275.17 |
| 4/20/00 | | -31.625 | -14.207 | -155.45 | | | | | -216.51 | -275.56 |
| 4/21/00 | | -36.313 | -15.823 | -152.78 | | | | | -216.04 | -275.86 |
| 4/22/00 | | -22.432 | -7.8858 | -151.32 | | | | | -216.91 | -276.57 |
| 4/23/00 | | -14.34 | -2.8487 | -152.24 | | | | | -216.76 | -276.46 |
| 4/24/00 | | -6.3747 | 2.0656 | -151.67 | | | | | -215.19 | -273.82 |
| 4/25/00 | | -5.8761 | 2.3509 | -148.9 | | | | | -213.74 | -273.38 |
| 4/26/00 | | -6.3229 | 2.0125 | -147.97 | | | | | -214.67 | -273.99 |
| 4/27/00 | | -5.3375 | 2.8875 | -149.34 | | | | | -217.25 | -276.29 |

Data for wells without Waterlogger sensors

B-27

Well:

| <u>Date</u> | <u>CSC1</u> | <u>SB1</u> | <u>SB2</u> | <u>NCW2</u> | <u>NSC2</u> | <u>SCW0</u> | <u>SSC2</u> | <u>SSC4</u> |
|-------------|-------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| 9/8/98 | -245.5 | | | -255 | | | -285 | -272 |
| 9/10/98 | | | | | -304 | | | |
| 9/11/98 | -252 | | | | | | | -274 |
| 9/15/99 | | | | -235 | | | | |
| 9/20/98 | -238 | | | -231 | | | | |
| 9/22/99 | | | | -222 | | | -281 | -268 |
| 9/25/98 | -234 | | | | | | | -268 |
| 10/3/98 | -230 | | | -206 | | | -276 | -262.5 |
| 11/1/98 | -207 | | | -203 | -284 | | -235 | -231 |
| 11/23/98 | -186 | | | -222 | -276 | | -224 | -231 |
| 12/18/98 | -186 | | | -196 | -275 | | -221 | -227 |
| 1/31/99 | -164 | | | -168 | -265 | | -216 | -225 |
| 2/5/99 | -156 | | | | -263 | | -217 | -223 |
| 2/19/99 | -139 | -255 | -253 | | -365 | | | |
| 2/25/99 | | | | -201 | | | -218 | -220 |
| 2/27/99 | | -256 | -258 | | -264 | | | |
| 3/26/99 | -157 | | | | | | -213 | -219 |
| 3/31/99 | | -245 | -244 | -184 | | | -214 | -219 |
| 4/15/99 | | | | -142 | | | | |
| 4/22/99 | | | | | | | | |
| 4/23/99 | | | | | | -306 | | -231 |
| 4/30/99 | -154 | | | | -291 | | -232 | |
| 5/1/99 | | -246 | -248 | -236 | | -304 | | |
| 5/13/99 | | | | | | -310 | | -220 |
| 5/19/99 | -127 | | | | -260 | | -205 | -104 |
| 5/26/99 | | -235 | -237 | -201 | -157 | -300 | -93 | |
| 5/27/99 | -55 | | | | | | | -151 |
| 6/9/99 | -101 | | | | | | -118 | -193 |
| 6/12/99 | -121 | | | -270 | -221 | | -181 | -201 |
| 6/13/99 | -126 | -258 | -262 | -273 | | -313 | -185 | -205 |
| 6/14/99 | -127 | -260 | -261 | -274 | -228 | -312 | -193 | -211 |
| 6/17/99 | -125 | | | | -223 | | -196 | |
| 6/18/99 | | -252 | -252 | -264 | | -303 | | -197 |
| 6/20/99 | -116 | | | -275 | -211 | -296 | -177 | -192 |
| 6/22/99 | -115 | -243 | -244 | | -219 | | -178 | -198 |
| 6/23/99 | -117 | | | -277 | -221 | -352 | -184 | -215 |
| 7/22/99 | -129 | -240 | -241 | -250 | -236 | -287 | -202 | -209 |
| 8/27/99 | -126 | -258 | -259 | -274 | -228 | -300 | -203 | -218 |
| 9/25/99 | -126 | -255 | -257 | -268 | -237 | -297 | -209 | -232 |
| 10/16/99 | -154 | -267 | -269 | -247 | -259 | -303 | -230 | -220 |
| 10/30/99 | -145 | -261 | -262 | -241 | -252 | -300 | -200 | -210 |
| 12/19/99 | -132 | -249 | -251 | -226 | -261 | -296 | -202 | -209 |
| 2/29/99 | -140 | -243 | -246 | -227 | -255 | -298 | -198 | -225 |
| 5/15/00 | -158 | -240 | -242 | -221 | -280 | -274 | -230 | |

Appendix B.3 Neutron Probe Data

B-28

Appendix B.3.1. Water content calibration

Average Calibration curve - excluded Factory and SSC2T-jelle calibrations

constant: 0.350726

intercept: 0.032282

Average Calibration comes from a regression though the averaged volumetric water content points from the following other calibration curves in the Bosque sites: wells CSC2T, SSC3T, NCW3T & SCW2T

| | | | | |
|------------------------------------------------------|----------|----------|---------------------|-----------|
| <u>FACTORY CALIBRATION (from only 2 data points)</u> | | | Regression Output: | |
| Standard count | 11098 | Constant | | -0.006078 |
| count | ratio | vol% H2O | Std Err of Y Est | n/a |
| 18864 | 1.699766 | 0.365 | R Squared | 1 |
| 309 | 0.027843 | 0 | No. of Observations | 2 |
| | | | Degrees of Freedom | 0 |
| | | | X Coefficient(s) | 0.218312 |
| | | | Std Err of Coef. | n/a |

Well CSC2T calibration; All data points used

Regression Output:

| | |
|---------------------|-----------|
| Constant | -0.046199 |
| Std Err of Y Est | 0.03956 |
| R Squared | 0.844298 |
| No. of Observations | 12 |
| Degrees of Freedom | 10 |
| X Coefficient(s) | 0.313315 |
| Std Err of Coef. | 0.042548 |

Well SSC2T calibration; All data points used

(obtained by Jelle Beekma)

Regression Output:

| | |
|---------------------|-----------|
| Constant | -0.063672 |
| Std Err of Y Est | 0.038622 |
| R Squared | 0.860573 |
| No. of Observations | 12 |
| Degrees of Freedom | 10 |
| X Coefficient(s) | 0.395397 |
| Std Err of Coef. | 0.050328 |

Well SSC2T calibration; All data points used

(obtained by Behnaum Moayyad)

Regression Output:

| | |
|---------------------|-----------|
| Constant | -0.025715 |
| Std Err of Y Est | 0.019147 |
| R Squared | 0.941279 |
| No. of Observations | 8 |
| Degrees of Freedom | 6 |
| X Coefficient(s) | 0.360703 |
| Std Err of Coef. | 0.03678 |

Well NCW3T calibration; All data points used

Regression Output:

| | |
|---------------------|-----------|
| Constant | -0.034014 |
| Std Err of Y Est | 0.058902 |
| R Squared | 0.6086 |
| No. of Observations | 10 |
| Degrees of Freedom | 8 |
| X Coefficient(s) | 0.306152 |
| Std Err of Coef. | 0.086803 |

Well NCW3T calibration; no topsoil data used

Regression Output:

| | |
|---------------------|-----------|
| Constant | -0.047908 |
| Std Err of Y Est | 0.040343 |
| R Squared | 0.792218 |
| No. of Observations | 9 |
| Degrees of Freedom | 7 |
| X Coefficient(s) | 0.307149 |
| Std Err of Coef. | 0.059454 |

SCW2T Well Calibration all points

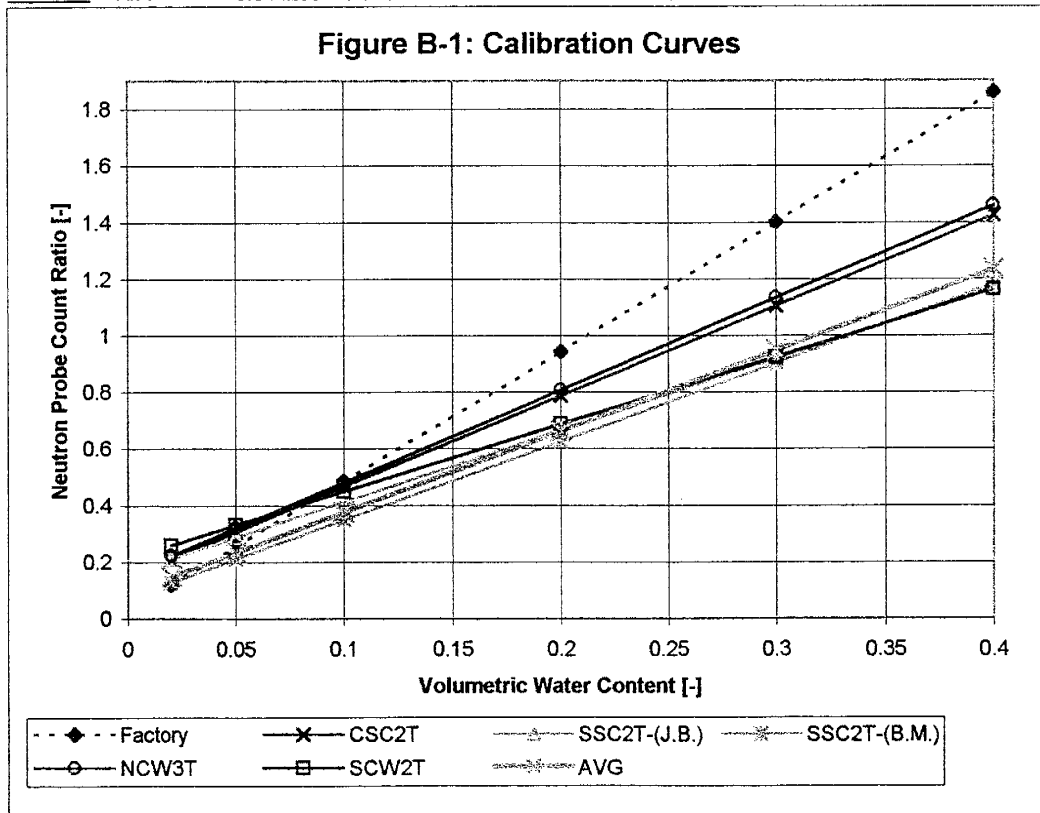
Regression Output:

| | |
|---------------------|-----------|
| Constant | -0.089315 |
| Std Err of Y Est | 0.052898 |
| R Squared | 0.768048 |
| No. of Observations | 13 |
| Degrees of Freedom | 11 |
| X Coefficient(s) | 0.421736 |
| Std Err of Coef. | 0.069879 |

Los Alamos Labs Calibrations (Abeelee 1978) for different access holes done on crushed tuff with Troxler Electronic Model 1255SN8835 probe
 Theta = a + b(Ratio)

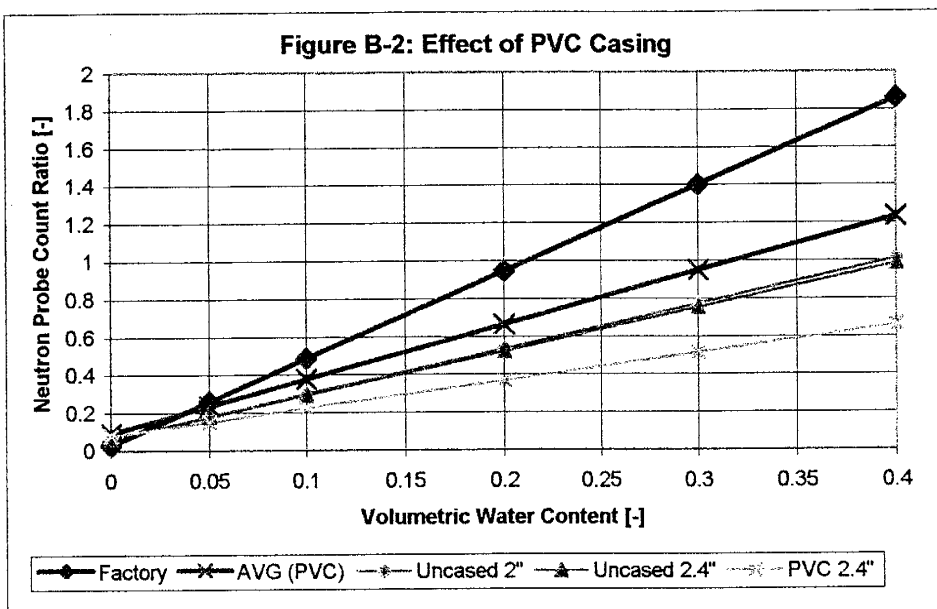
| Casing | Hole Diameter (r inches) | Diameter | a | b | r squared |
|----------|--------------------------|----------|--------|-------|-----------|
| Aluminum | 0.051 | 2 | -0.03 | 0.42 | 0.997 |
| Aluminum | 0.063 | 2&1/2 | -0.03 | 0.444 | 0.995 |
| Aluminum | 0.076 | 3 | -0.034 | 0.475 | 0.996 |
| Uncased | 0.051 | 2 | -0.026 | 0.422 | 0.993 |
| Uncased | 0.06 | 2&1/2 | -0.027 | 0.435 | 0.993 |
| Uncased | 0.063 | 2&1/3 | -0.028 | 0.444 | 0.992 |
| Uncased | 0.076 | 3 | -0.029 | 0.468 | 0.993 |
| Uncased | 0.102 | 4 | -0.032 | 0.527 | 0.988 |
| PVC | 0.06 | 2&1/3 | -0.053 | 0.686 | 0.994 |
| PVC | 0.113 | 4&1/2 | -0.131 | 1.597 | 0.981 |
| Iron | 0.076 | 3 | -0.045 | 0.648 | 0.991 |
| Iron | 0.102 | 4 | -0.058 | 0.762 | 0.981 |

| Theta | COUNT RATIOS | | | | | | Average excludes Factory & SSC2T-jelle calibrations |
|----------------|--------------|----------|------------|------------|----------|----------|-----------------------------------------------------|
| | Factory | CSC2T | SSC2T-(J.) | SSC2T-(B.) | NCW3T | SCW2T | AVG |
| 0.02 | 0.119455 | 0.211286 | 0.211112 | 0.126725 | 0.221098 | 0.259191 | 0.149068 |
| 0.05 | 0.256873 | 0.307036 | 0.286883 | 0.209896 | 0.31877 | 0.330325 | 0.234605 |
| 0.1 | 0.485904 | 0.46662 | 0.413155 | 0.348514 | 0.481557 | 0.448883 | 0.377166 |
| 0.2 | 0.943965 | 0.785787 | 0.665699 | 0.62575 | 0.807132 | 0.685998 | 0.662289 |
| 0.3 | 1.402026 | 1.104955 | 0.918244 | 0.902987 | 1.132706 | 0.923113 | 0.947412 |
| 0.4 | 1.860087 | 1.424123 | 1.170788 | 1.180223 | 1.458281 | 1.160228 | 1.232535 |
| R ² | N/A | 0.844298 | 0.860573 | 0.941279 | 0.792218 | 0.768048 | |



For 2 inch pipes

| Theta | Our | | Los Alamos Access Hole Calibrations (crushed Tuff) | | |
|-------|--------------|-----------------------|----------------------------------------------------|----------------------|-----------------------|
| | Sand Factory | Calibration AVG (PVC) | 2 inch Uncased | 2 & 1/3 inch Uncased | 2 & 1/3 inch PVC 2.4" |
| 0 | 0.027843 | 0.092043 | 0.061611 | 0.062069 | 0.077259 |
| 0.05 | 0.256873 | 0.234605 | 0.180095 | 0.177011 | 0.150146 |
| 0.1 | 0.485904 | 0.377166 | 0.298578 | 0.291954 | 0.223032 |
| 0.2 | 0.943965 | 0.662289 | 0.535545 | 0.521839 | 0.368805 |
| 0.3 | 1.402026 | 0.947412 | 0.772512 | 0.751724 | 0.514577 |
| 0.4 | 1.860087 | 1.232535 | 1.009479 | 0.981609 | 0.66035 |



PVC Effect on Calibration Curve

| Theta = m * Ratio + b | Slope | Intercept | Difference in slope | | Difference in intercept | |
|-----------------------------|-------|-----------|---------------------|--------|-------------------------|--------|
| | | | absolute | % | absolute | % |
| Factory curve (2" Aluminum) | 0.218 | -0.00608 | | | | |
| Bosque AVG (2" PVC) | 0.351 | -0.0323 | 0.133 | 61.009 | -0.02622 | 431.25 |
| Los Alamos (2.4" Uncased) | 0.435 | -0.027 | | | | |
| Los Alamos (2.4" PVC) | 0.686 | -0.053 | 0.251 | 57.701 | -0.026 | 96.296 |

*note: In the Los Alamos study calibrations for similar diameter holes are very similar

| | | | | |
|----------------|-------|------|----------|----------------|
| Factory | 0.218 | 61 | -0.00608 | Factory-Bosque |
| Bosque PVC | 0.351 | 57.7 | -0.0323 | Los Alamos |
| Los Alamos | 0.435 | | -0.027 | |
| Los Alamos PVC | 0.686 | | -0.053 | |

Appendix B.3.2. Soil moisture data

Well CSC2T Data

Theta = volumetric water content [-] AVG = average soil moisture

| depth | 9/11/98 | 9/25/98 | 11/1/98 | 11/29/98 | 12/17/98 | 2/19/99 | 3/26/99 | 5/19/99 | 6/9/99 |
|---------------------|---------|---------|---------|----------|----------|---------|---------|---------|---------|
| [cm] | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta |
| -12 | 0.03541 | 0.03674 | 0.13697 | 0.05675 | 0.06509 | 0.08385 | 0.06245 | 0.05059 | 0.22471 |
| -27 | 0.05254 | 0.05172 | 0.06842 | 0.05068 | 0.05095 | 0.06353 | 0.05418 | 0.05481 | 0.27477 |
| -42 | 0.0542 | 0.05407 | 0.05372 | 0.05665 | 0.04855 | 0.05644 | 0.05276 | 0.05361 | 0.29093 |
| -57 | 0.05619 | 0.05447 | 0.05226 | 0.06713 | 0.0564 | 0.04891 | 0.05799 | 0.06091 | 0.32487 |
| -72 | 0.06268 | 0.06181 | 0.06143 | 0.07255 | 0.0682 | 0.05952 | 0.07149 | 0.07068 | 0.35007 |
| -87 | 0.07264 | 0.06884 | 0.07015 | 0.09283 | 0.07215 | 0.07146 | 0.07501 | 0.08799 | 0.36296 |
| -102 | 0.07895 | 0.07421 | 0.07328 | 0.11708 | 0.11356 | 0.11263 | 0.12061 | 0.1869 | 0.36994 |
| -117 | 0.13042 | 0.122 | 0.11314 | 0.11766 | 0.12082 | 0.12377 | 0.13695 | 0.23166 | 0.36334 |
| -125 | 0.14172 | 0.13498 | 0.12268 | 0.22365 | 0.15896 | 0.17297 | 0.24049 | 0.25459 | 0.38457 |
| -147 | | 0.16837 | 0.15999 | 0.29606 | 0.24263 | 0.26958 | 0.31078 | | |
| -170 | 0.23525 | 0.23356 | 0.2283 | 0.33333 | 0.29568 | | | | |
| -220 | 0.3099 | 0.30819 | 0.28663 | | 0.32988 | | | | |
| -270 | 0.29909 | 0.30788 | 0.31956 | | | | | | |
| AvgProfile Moisture | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG |
| Top 25cm: | 0.04458 | 0.04477 | 0.10025 | 0.0535 | 0.05752 | 0.07296 | 0.05802 | 0.05285 | 0.25153 |
| Top 72cm: | 0.0534 | 0.0529 | 0.07386 | 0.0617 | 0.05844 | 0.06272 | 0.06053 | 0.05914 | 0.29904 |
| 72cm to saturated: | 0.24299 | 0.23538 | 0.22956 | 0.24646 | 0.24808 | 0.18343 | 0.21958 | 0.21845 | 0.4219 |
| Profile to WL: | 0.1878 | 0.18659 | 0.18753 | 0.16788 | 0.18572 | 0.12374 | 0.14125 | 0.12628 | 0.34933 |

| depth | 6/13/99 | 6/17/99 | 6/20/99 | 7/22/99 | 8/28/99 | 9/25/99 | 10/16/99 | 10/30/99 | 12/19/99 |
|---------------------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| [cm] | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta |
| -12 | 0.19521 | 0.17483 | 0.17242 | 0.12973 | 0.17363 | 0.14047 | 0.12135 | 0.12222 | 0.12198 |
| -27 | 0.22599 | 0.20483 | 0.19543 | 0.13615 | 0.19362 | 0.14272 | 0.12094 | 0.12424 | 0.12715 |
| -42 | 0.23298 | 0.21762 | 0.2026 | 0.13691 | 0.20232 | 0.14399 | 0.1244 | 0.12209 | 0.1279 |
| -57 | 0.26748 | 0.24816 | 0.23651 | 0.15984 | 0.23232 | 0.20272 | 0.14222 | 0.14262 | 0.15135 |
| -72 | 0.26748 | 0.29031 | 0.28643 | 0.19356 | 0.2729 | 0.24653 | 0.17623 | 0.18017 | 0.18551 |
| -87 | 0.3059 | 0.33171 | 0.32568 | 0.23433 | 0.31362 | 0.30571 | 0.21603 | 0.21212 | 0.22418 |
| -102 | 0.34128 | 0.34271 | 0.34617 | 0.29919 | 0.34331 | 0.31339 | 0.278 | 0.28571 | 0.2834 |
| -117 | 0.3478 | 0.33443 | 0.33577 | 0.30758 | 0.32885 | 0.3112 | 0.30002 | 0.2975 | 0.30602 |
| -125 | 0.36269 | 0.35106 | 0.35555 | 0.32047 | 0.34957 | 0.33053 | 0.30533 | 0.3072 | 0.32224 |
| -147 | | | | 0.38128 | 0.38899 | 0.38507 | 0.38044 | 0.3834 | 0.38306 |
| AvgProfile Moisture | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG |
| Top 25cm: | 0.2117 | 0.1909 | 0.18475 | 0.13317 | 0.18434 | 0.14168 | 0.12113 | 0.1233 | 0.12475 |
| Top 72cm: | 0.24231 | 0.23176 | 0.223 | 0.15394 | 0.21909 | 0.17869 | 0.13937 | 0.14063 | 0.14534 |
| 72cm to saturated: | 0.38621 | 0.38707 | 0.38842 | 0.35044 | 0.38829 | 0.37206 | 0.33704 | 0.33899 | 0.34616 |
| Profile to WL: | 0.30177 | 0.29621 | 0.29176 | 0.25331 | 0.30424 | 0.27639 | 0.23939 | 0.241 | 0.24697 |

Well SCW2T Data

| depth | 9/11/98 | 9/15/98 | 9/25/98 | 10/9/98 | 11/1/98 | 11/29/98 | 12/18/98 | 1/30/99 | 2/26/99 | 3/31 |
|---------------------|---------|---------|---------|---------|---------|----------|----------|---------|---------|-------|
| [cm] | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta |
| -20 | 0.13359 | 0.13394 | 0.1294 | 0.11911 | 0.20975 | 0.14574 | 0.17045 | 0.1635 | 0.16497 | 0.147 |
| -35 | 0.14451 | 0.14117 | 0.14127 | 0.13886 | 0.17125 | 0.17178 | 0.10014 | 0.09677 | 0.09517 | 0.159 |
| -50 | 0.08702 | 0.08519 | 0.08673 | 0.08151 | 0.10593 | 0.10637 | 0.05827 | 0.05676 | 0.0588 | 0.095 |
| -65 | 0.06536 | 0.06716 | 0.06129 | 0.06173 | 0.0609 | 0.06264 | 0.048 | 0.04827 | 0.04787 | 0.067 |
| -80 | 0.06074 | 0.05868 | 0.05424 | 0.05187 | 0.0508 | | | | | |
| -95 | 0.05788 | 0.05692 | 0.0519 | 0.04923 | 0.0464 | 0.05085 | 0.0504 | 0.05086 | 0.0548 | 0.049 |
| -103 | 0.05788 | 0.05468 | 0.05121 | 0.05255 | 0.05134 | | | | | |
| -125 | | | 0.05014 | 0.04821 | 0.05385 | 0.05177 | 0.06189 | 0.06253 | 0.06197 | 0.053 |
| -145 | 0.06829 | 0.06671 | 0.05895 | 0.05858 | 0.06811 | 0.05981 | 0.24742 | 0.25224 | 0.26155 | 0.216 |
| -170 | | | 0.1836 | 0.18683 | 0.285 | 0.23736 | 0.1294 | 0.13486 | 0.13885 | 0.152 |
| -195 | 0.11732 | 0.11426 | 0.10738 | 0.10878 | 0.12582 | 0.13122 | 0.20268 | 0.20445 | 0.21203 | 0.249 |
| -216 | | | 0.12551 | 0.13941 | 0.21032 | 0.19622 | | | | |
| -245 | 0.18307 | 0.17278 | 0.19338 | 0.2262 | | | | | | |
| -270 | | | | | | | | | | |
| AvgProfile Moisture | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG |
| Top 35cm: | 0.13827 | 0.13704 | 0.13449 | 0.12758 | 0.19325 | 0.1569 | 0.14032 | 0.1349 | 0.13506 | 0.152 |
| 35 to 125cm: | 0.06659 | 0.06554 | 0.05917 | 0.05718 | 0.06173 | 0.06622 | 0.0554 | 0.05543 | 0.0565 | 0.065 |
| 125cm to saturated: | 0.1268 | 0.12158 | 0.13688 | 0.14752 | 0.1778 | 0.16122 | 0.18929 | 0.19325 | 0.20004 | 0.205 |
| Profile to WL: | 0.09891 | 0.0961 | 0.09386 | 0.0974 | 0.12417 | 0.12166 | 0.12157 | 0.12259 | 0.12587 | 0.135 |

| depth | 5/13/99 | 5/25/99 | 6/13/99 | 6/18/99 | 7/23/99 | 8/29/99 | 9/24/99 | 10/15/99 | 10/29/99 | ##### |
|---------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|-------|
| [cm] | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta | Theta |
| -20 | 0.14576 | 0.15773 | 0.1398 | 0.13949 | 0.157 | 0.14704 | 0.13742 | 0.13993 | 0.14062 | 0.132 |
| -35 | 0.08498 | 0.11174 | 0.08179 | 0.08321 | 0.09462 | 0.08502 | 0.08003 | 0.08067 | 0.08039 | 0.079 |
| -50 | 0.06192 | 0.07165 | 0.05875 | 0.05792 | 0.06112 | 0.05548 | 0.04712 | 0.05659 | 0.05756 | 0.045 |
| -65 | 0.04958 | 0.05376 | 0.04791 | 0.04665 | 0.04861 | 0.04572 | 0.04137 | 0.04678 | 0.04518 | 0.041 |
| -80 | | 0.0471 | 0.04443 | 0.0439 | 0.04775 | 0.04499 | 0.04383 | 0.04517 | 0.04383 | 0.042 |
| -95 | 0.04705 | 0.04723 | 0.04657 | 0.04558 | 0.04493 | 0.0451 | 0.04414 | 0.04419 | 0.04442 | 0.042 |
| -103 | | 0.05125 | 0.05001 | 0.04823 | 0.04879 | 0.04938 | 0.04996 | 0.05091 | 0.04777 | 0.047 |
| -125 | 0.05848 | 0.06259 | 0.0542 | 0.05853 | 0.05741 | 0.05631 | 0.05826 | 0.05992 | 0.05607 | 0.07 |
| -145 | 0.20197 | 0.30508 | 0.2151 | 0.21381 | 0.22723 | 0.21316 | 0.21558 | 0.21888 | 0.22037 | 0.272 |
| -170 | 0.12475 | 0.11888 | 0.10956 | 0.11073 | 0.10911 | 0.10627 | 0.10499 | 0.10656 | 0.13969 | 0.25 |
| -195 | 0.14081 | 0.13922 | 0.12156 | 0.11956 | 0.16284 | 0.11679 | 0.11998 | 0.14059 | 0.25725 | |
| -216 | 0.24392 | | | | | | | | | |
| -245 | | | 0.22198 | 0.24976 | 0.23491 | 0.16606 | 0.16279 | 0.21145 | | |
| -270 | | | 0.34865 | 0.34047 | | | 0.26618 | 0.33873 | | |
| AvgProfile Moisture | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG | AVG |
| Top 35cm: | 0.11971 | 0.13802 | 0.11494 | 0.11537 | 0.13027 | 0.12046 | 0.11283 | 0.11453 | 0.11481 | 0.109 |
| 35 to 125cm: | 0.0547 | 0.07587 | 0.06802 | 0.06842 | 0.06999 | 0.06721 | 0.0646 | 0.0689 | 0.06687 | 0.067 |
| 125cm to saturated: | 0.17659 | 0.17934 | 0.20288 | 0.20658 | 0.18122 | 0.14728 | 0.17217 | 0.20259 | 0.20472 | 0.26 |
| Profile to WL: | 0.12071 | 0.11182 | 0.13132 | 0.1333 | 0.11626 | 0.09945 | 0.11514 | 0.1314 | 0.11325 | 0.115 |

Appendix B.4. Salinity Data

| Groundwater Salinity (Total Dissolved Solids) Data | | Data in units of parts per million | | | | | | | | | |
|----------------------------------------------------|--------|------------------------------------|--------|--------|-------------|--------|-------------------------------|--------|--------|--------|--------|
| Well: | | CCW=central cottonwood transect | | | | | NCW=North cottonwood transect | | | | |
| Well: | | SCW=South cottonwood transect | | | | | SSC= South saltcedar transect | | | | |
| Date | NCW0 | NCW1 | NCW2 | NCW3T | shallow mid | deep | SCW0 | SCW1 | SCW2I | SCW3 | |
| 9/21/98 | 1018.6 | 719.32 | 737.64 | 830.6 | 891 | 2096.8 | 909.3 | 1004.3 | 881.5 | | |
| 10/3/98 | 689.46 | 587.67 | 546.95 | 629.74 | 696.24 | 1750.8 | 742.39 | 755.96 | 612.1 | | |
| 10/30/98 | 670.46 | 582.24 | 651.46 | 762.06 | 717.77 | 9 | 759.35 | 1003.6 | 761.39 | | |
| 11/23/98 | 689.46 | 652.82 | 723.39 | 841.4 | 744.42 | 1818.6 | 801.43 | 777 | 683.35 | | |
| 12/18/98 | 803.46 | 834.68 | 965.65 | 898.46 | 874.04 | 1791.5 | 1093.2 | 1045.7 | 926.3 | | |
| 1/30/99 | 823.82 | 767.5 | 1026.7 | 936.4 | 843.5 | 1642.2 | 1027.4 | 1035.5 | 876.07 | | |
| 2/26/99 | 785.14 | 658.24 | 755.28 | 821.1 | 848.25 | 1513.3 | 990.76 | 997.5 | 788.53 | | |
| 3/31/99 | 886.93 | 597.17 | 635.85 | 846.89 | 894.39 | 1479.4 | 990.76 | 1004.3 | 831.96 | | |
| 5/1/99 | 834.68 | 654.85 | 578.17 | 603.28 | 812.96 | 839.43 | 1370.8 | 1005.7 | 874.04 | 941.22 | 770.89 |
| 5/25/99 | 806.86 | 690.14 | 546.27 | 549.67 | 896.43 | 820.43 | 1340.9 | 920.86 | 861.14 | 912.7 | 737.64 |
| 6/13/99 | 654.85 | 534.74 | 505.56 | 484.52 | 817.7 | 759.35 | 1245.2 | 810.25 | 830.6 | 836.04 | 646.03 |
| 6/14/99 | 667.74 | 543.56 | 515.74 | 483.16 | 793.9 | 729.5 | 1220.8 | 760.71 | 838.75 | 819.75 | 648.74 |
| 6/18/99 | 540.84 | 481.8 | 455.34 | 426.84 | 660.95 | 657.56 | 659.6 | 747.14 | 736.28 | 527.27 | |
| 6/21/99 | 559.85 | 470.27 | 442.45 | 396.98 | 629.06 | 614.81 | 1072.2 | 435.66 | 760.03 | 712.53 | 580.88 |
| 7/23/99 | 804.14 | 601.92 | 614.81 | 597.85 | 876.07 | 886.93 | 1364 | 1065.4 | 1059.3 | 1038.3 | 825.86 |
| 8/29/99 | 918.15 | 618.2 | 627.71 | 616.17 | 858.4 | 870.64 | 1254.7 | 1084.4 | 1131.9 | 1100 | 950.04 |
| 9/25/99 | 934.43 | 609.38 | 614.81 | 605.31 | | | 1218.8 | 1167.9 | 1133.3 | 1128.5 | |
| 10/29/99 | 920.18 | 641.28 | 618.88 | 601.24 | 815 | 850.96 | 1136.7 | 1157 | 1014.5 | 1072.2 | 806.18 |

| SB=South Bosque weather station | | Data in units of parts per million | | | | | | | | | |
|---------------------------------|--------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Date | NSC0 | NSC1 | NSC2 | NSC3 | CSC0 | CSC1 | CSC2I | CSC3 | RIVER | SB1 | SB2 |
| 9/21/98 | 1018.6 | 719.32 | 737.64 | 830.6 | 891 | 2096.8 | 909.3 | 1004.3 | 881.5 | | |
| 10/3/98 | 689.46 | 587.67 | 546.95 | 629.74 | 696.24 | 1750.8 | 742.39 | 755.96 | 612.1 | | |
| 11/1/98 | 670.46 | 582.24 | 651.46 | 762.06 | 717.77 | 9 | 759.35 | 1003.6 | 761.39 | | |
| 11/23/98 | 689.46 | 652.81 | 723.39 | 841.77 | 399.02 | 616.17 | 755.96 | 335.91 | | | |
| 12/17/98 | 803.46 | 834.68 | 965.65 | 567.99 | 517.77 | 848.93 | 863.18 | 471.63 | | | |
| 1/31/99 | 823.82 | 767.5 | 1026.7 | 527.95 | 508.95 | 1060.7 | 641.96 | 386.8 | | | |
| 2/19/99 | 785.14 | 658.24 | 755.28 | 512.34 | 521.16 | 829.93 | 658.92 | 375.94 | 2924.8 | 1913.7 | |
| 4/5/99 | 886.93 | 597.17 | 635.85 | 479.09 | 838.75 | 503.52 | 630.42 | 400.37 | 2789 | 1845.8 | |
| 4/30/99 | 834.68 | 654.85 | 578.17 | 603.28 | 406.48 | 813.64 | 532.7 | 481.81 | 432.27 | 2361.5 | 1269 |
| 5/19/99 | 806.86 | 690.14 | 546.27 | 549.67 | 407.16 | 651.46 | 470.27 | 272.8 | 2191.9 | 1052.5 | |
| 6/12/99 | 654.85 | 534.74 | 505.56 | 484.52 | 367.8 | 576.81 | 422.09 | 347.44 | 230.05 | 1906.9 | 1255.4 |
| 6/14/99 | 667.74 | 543.56 | 515.74 | 483.16 | 375.94 | 605.31 | 1255.4 | 348.12 | 252.44 | 1832.2 | 1341.6 |
| 6/17/99 | 540.84 | 481.81 | 455.34 | 426.84 | 339.98 | 561.88 | 1133.3 | 414.62 | 234.12 | 1479.3 | 920.18 |
| 6/20/99 | 559.85 | 470.27 | 442.45 | 396.98 | 287.05 | 837.39 | 536.77 | 415.98 | 220.55 | 1737.2 | 809.57 |
| 7/22/99 | 804.14 | 601.92 | 614.81 | 597.85 | 373.91 | 1380.3 | 1574.4 | 715.24 | 446.52 | 2870.5 | 1459 |
| 8/27/99 | 918.15 | 618.2 | 627.71 | 616.17 | 675.89 | 1126.5 | 1321.2 | 758.67 | 272.8 | 2700.8 | 1292.7 |
| 9/25/99 | 934.43 | 609.38 | 614.81 | 605.31 | 335.91 | 1037.6 | 1832.2 | 734.25 | 313.51 | 1575 | 1243.9 |
| 10/30/99 | 920.18 | 641.28 | 618.88 | 601.24 | 323.01 | 595.13 | 1818.6 | 931.72 | 386.8 | 2266.5 | 1233 |

| <u>Date</u> | <u>SSC00</u> | <u>SSC0</u> | <u>SSC1</u> | <u>SSC2</u> | <u>SSC3I</u> | <u>SSC4</u> | <u>SSC5</u> | <u>SSC6</u> |
|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 9/21/98 | | | 827.21 | 1319.2 | 1927.2 | 1146.8 | 788.53 | |
| 10/3/98 | | | 675.89 | 1112.9 | 1125.1 | 1026.7 | 669.78 | |
| 11/1/98 | | | 583.6 | 1350.4 | 761.39 | 1003.6 | 646.03 | |
| 11/23/98 | | | 523.2 | 881.5 | 823.14 | 1070.8 | 659.6 | |
| 12/17/98 | | | 604.63 | 1045 | 1181.4 | 1287.3 | 1010.4 | |
| 1/31/99 | | 727.46 | 628.38 | 736.96 | 1034.2 | 774.28 | 1202.5 | |
| 2/19/99 | | 834 | 681.99 | 872 | 897.79 | 952.08 | 1253.4 | |
| 4/5/99 | 462.13 | 926.29 | 848.93 | 799.39 | 960.9 | 888.29 | 1124.4 | |
| 4/30/99 | 445.16 | 840.79 | 844.86 | 844.86 | 902.54 | 902.54 | 931.04 | 712.53 |
| 5/19/99 | 429.55 | 448.55 | 918.82 | 926.97 | 880.14 | 1029.4 | 1012.5 | 741.71 |
| 5/27/99 | 421.41 | 424.8 | 950.04 | 739 | 743.07 | 466.88 | | 649.42 |
| 6/12/99 | 371.19 | 392.91 | 1044.4 | 1079 | 694.21 | 405.12 | 323.69 | 604.63 |
| 6/14/99 | 380.69 | 407.16 | 1355.2 | 1102.7 | 707.1 | 421.41 | 436.34 | 601.24 |
| 6/17/99 | 357.62 | 380.69 | 1214 | 1043.7 | 1716.9 | 658.92 | 471.63 | 515.74 |
| 6/20/99 | 346.09 | 384.77 | 1125.1 | 1110.9 | 2470.1 | 538.13 | 552.38 | 471.63 |
| 6/22/99 | 452.63 | 675.89 | 985.33 | 1124.4 | 2422.6 | 456.02 | 526.59 | 414.62 |
| 7/22/99 | 477.73 | 441.77 | 1615.1 | 1662.6 | 1757.6 | 627.71 | 719.99 | 848.25 |
| 8/27/99 | 432.27 | 428.88 | 1587.9 | 977.18 | 1492.9 | 652.81 | 595.13 | 717.28 |
| 9/25/99 | 415.3 | 506.91 | 1506.5 | 1023.3 | 1334.1 | 631.78 | 544.92 | 689.46 |
| 10/30/99 | 407.16 | 443.8 | 1547.2 | 1326.7 | 1178.7 | 819.75 | 532.02 | 678.6 |

$$F_T = 0.4470 + 1.4034 \cdot \exp(-T/26.815)$$

$$EC_{25dAgC} = F_T \cdot EC_T$$

Soil Electrical Conductivity Data

Units: dS/m
 V=vertical measure H=horizontal measurements
 D= Distance along transect from West to East

| Central Saltcedar Transect | | 11/29/98 | | 1/16/99 | | 2/26/99 | | 4/5/99 | | 6/13/99 | | 7/22/99 | | 8/29/99 | | 9/25/99 | | 10/30/99 | | | |
|----------------------------|------|----------|------|---------|------|---------|------|--------|------|---------|------|---------|------|---------|------|---------|------|----------|------|------|------|
| D [m] | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | |
| 0 | 15.7 | 15.7 | 17.6 | 28.6 | 11 | 5.33 | 23.5 | 11.7 | 15 | 13.4 | 33.7 | 27.6 | 29.7 | 19.5 | 17.5 | 12.7 | 9.11 | 6.49 | 14.6 | 9.58 | |
| 5 | 22.9 | 18.4 | 17.1 | 12.3 | 26.4 | 15.2 | 23.7 | 16.9 | 27.2 | 18.8 | 26.2 | 30.9 | 26.2 | 28.9 | 25.5 | 22.8 | 11.3 | 10.1 | 6.84 | 11.4 | 7.84 |
| 10 | 21.5 | 22 | 11.3 | 20.3 | 18.2 | 9.14 | 4.44 | 21.8 | 14.1 | 4.44 | 21.8 | 28.7 | 25.5 | 31.2 | 30.3 | 16.2 | 22.4 | 14.5 | 11.5 | 10.3 | 5.69 |
| 15 | 19.1 | 14.8 | 11.9 | 11.4 | 25 | 24.9 | 10.9 | 4.23 | 36.1 | 37.5 | 50 | 47 | 42.5 | 44.1 | 18.5 | 18.8 | 17.2 | 19.4 | 13.1 | 10.8 | 12.3 |
| 20 | 13.4 | 11.1 | 24.7 | 15.3 | 11.9 | 4.95 | 8.45 | 5.04 | 16.3 | 15.9 | 16.2 | 21.5 | 28.7 | 23.4 | 24.5 | 28.6 | 12.4 | 10.7 | 9.01 | 6.49 | 11.5 |
| 25 | 13.1 | 11.9 | 18.8 | 23.5 | 9.99 | 0.95 | 17.9 | 18.6 | 17.5 | 16.1 | 21.2 | 19.3 | 20 | 17.3 | 11.2 | 11.2 | 11.2 | 11.2 | 8.8 | 11.3 | 8.16 |
| 30 | 32.5 | 21.6 | | | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | | | | | |
| 40 | 34 | 29.2 | | | | | | | | | | | | | | | | | | | |
| 45 | 24.8 | 22.3 | | | | | | | | | | | | | | | | | | | |
| 50 | 12.2 | 12.9 | 8.48 | 13.8 | 9.67 | 0.57 | 10.4 | 2.22 | 15 | 13.3 | 13.7 | 13.4 | 27.5 | 26.2 | 26.6 | 25.6 | 19.7 | 15.4 | 14 | 7.73 | 13.3 |
| 55 | 15.7 | 13.9 | 10.3 | 10.9 | 9.03 | 0.19 | 16.2 | 19.8 | 12.5 | 10.8 | 18.7 | 22.1 | 20.5 | 21.9 | 14.4 | 10.9 | 9.01 | 7.02 | 11.9 | 7.84 | |
| 60 | 15.1 | 15.9 | 11.5 | 10.7 | 11.6 | 0.38 | 9.6 | 4.64 | 18 | 18.8 | 20 | 21.5 | 27.5 | 30.3 | 25.5 | 29 | 15.6 | 15.5 | 12 | 11 | 14.1 |
| 65 | 18.7 | 19.7 | | | | | | | | | | | | | | | | | | | |
| 70 | 15.7 | 14.5 | 11.8 | 12.3 | 10.6 | 4.19 | 10.4 | 6.65 | 23.7 | 22.8 | 36.2 | 35.8 | 30.7 | 34.9 | 17.2 | 15.7 | 15.6 | 11.9 | 16.2 | 11.9 | |
| 75 | 17 | 16.4 | 14.1 | 12.9 | 6.28 | 10.4 | 6.65 | 22.5 | 21.6 | 28.7 | 24.2 | 32.5 | 40 | 31.5 | 35.9 | 16.2 | 15.4 | 11.8 | 9.24 | 12.9 | 9.9 |
| 80 | 15.7 | 14.5 | 11 | 13.1 | 12.1 | 6.09 | 10.8 | 7.86 | 19.4 | 19.2 | 13.7 | 12.1 | 18.3 | 28.9 | 18.8 | 28.5 | 15.7 | 14.4 | 12.6 | 8.42 | 14 |
| 85 | 16 | 13.6 | 8.93 | 12.4 | 12.4 | 3.81 | 10.1 | 5.24 | 16.2 | 14.8 | 22 | 33.1 | 21.3 | 26.9 | 21.3 | 16.2 | 15.8 | 9.87 | 18.9 | 8.16 | |
| 90 | 18.8 | 15.7 | 18.6 | 13.3 | 11.6 | 3.81 | 19.7 | 8.47 | 30 | 18.1 | 18.7 | 20.2 | 32.9 | 40 | 22.7 | 19.3 | 15.5 | 14.9 | 13.7 | 10.5 | 14.8 |
| 95 | 20.8 | 17.5 | | | | | | | | | | | | | | | | | | | |
| 100 | 18.1 | 16.1 | 14.4 | 11.1 | 14 | 4.95 | 13.1 | 6.05 | 22 | 15.7 | 19.5 | 13.4 | 25 | 20.2 | 31.7 | 37.1 | 16.3 | 15.9 | 16.4 | 10.5 | 17.3 |
| 105 | 17.1 | 12.4 | 13.7 | 14.6 | 14.5 | 6.28 | 15.2 | 5.85 | 27 | 21.6 | 24.4 | 21 | 33.4 | 25.5 | 33.8 | 34.2 | 19.9 | 16.8 | 18 | 13.5 | 17.6 |
| 110 | 15.5 | 11.9 | 19.1 | 15.8 | 16.8 | 6.28 | 15.2 | 5.85 | 27 | 21.6 | 24.4 | 21 | 33.4 | 25.5 | 33.8 | 34.2 | 19.9 | 16.8 | 18 | 13.5 | 17.6 |
| 115 | 18.8 | 15.2 | 21.4 | 17 | 18.2 | 8.95 | 18 | 10.3 | 26.8 | 24.9 | 34.6 | 39 | 38.2 | 40.4 | 18.5 | 15.7 | 17.5 | 11.8 | 16.9 | 10.7 | |
| 120 | 20.7 | 17.3 | 21.3 | 18.9 | 20.5 | 10.7 | 18.4 | 14.1 | 28.6 | 23.4 | 29.3 | 31.5 | 35.7 | 43 | 36.7 | 26.5 | 18.2 | 14.5 | 16.5 | 11.4 | 19.9 |
| 125 | 22.3 | 17.3 | 23.5 | 22.5 | 20.3 | 11.8 | 17.7 | 12.1 | 29.1 | 23.6 | 28.1 | 22.3 | 32.6 | 21 | 36.9 | 26 | 19.1 | 15 | 20.6 | 13.1 | 18.6 |
| 130 | 27.1 | 19.8 | | | | | | | | | | | | | | | | | | | |
| 135 | 21.5 | 15.7 | | | | | | | | | | | | | | | | | | | |
| 140 | 26.9 | 20.6 | | | | | | | | | | | | | | | | | | | |
| 145 | 24.9 | 19.8 | 38.8 | 37.8 | 24.2 | 12 | 38.6 | 24.8 | 40.6 | 28 | 45.1 | 42 | 47.7 | 43.3 | 38.6 | 31.5 | 24.7 | 18.6 | 25 | 14.9 | 21.9 |
| 150 | 23.3 | 21 | 51.1 | 44.8 | 29.2 | 17.3 | 38.6 | 24.8 | 49.5 | 35.3 | 45.1 | 42 | 47.7 | 43.3 | 38.6 | 31.5 | 24.7 | 18.6 | 25 | 14.9 | 21.9 |
| 155 | 50.3 | 39.9 | 53.7 | 45.3 | 46.9 | 30.1 | 59.3 | 46 | 74.2 | 64.1 | 90.3 | 86.5 | 101 | 87 | 96.9 | 88.1 | 39.2 | 31.7 | 38.4 | 26.3 | 38.5 |
| 160 | 39.9 | 40.1 | 45.8 | 42.2 | 60.9 | 36.7 | 75.7 | 53.3 | 88.3 | 70.4 | 80.5 | 68.2 | 88.5 | 92.1 | 91.4 | 84.3 | 33.3 | 25.3 | 41.2 | 27.3 | 37.8 |
| 165 | 51.9 | 38.6 | 50.9 | 38.3 | 57.1 | 37.5 | 78 | 59.3 | 88.3 | 70.4 | 80.5 | 68.2 | 88.5 | 92.1 | 91.4 | 84.3 | 33.3 | 25.3 | 41.2 | 27.3 | 37.8 |
| 170 | 58.5 | 41.5 | 65.8 | 57.4 | 62 | 44.4 | 71.9 | 50.2 | 75.7 | 59.9 | 84.2 | 65.6 | 104 | 81.9 | 78.8 | 63.1 | 31 | 24.3 | 29.2 | 18.1 | 27.4 |
| 175 | 55.2 | 43.1 | 54.5 | 50.5 | | | 62.1 | 40 | 84.9 | 73.1 | 65.9 | 60.3 | 93.1 | 74.9 | 101 | 93.8 | 37 | 28 | 41.4 | 25.3 | 29.1 |
| 180 | 49.2 | 37.6 | | | | | 53.8 | 32.7 | 58 | 38.1 | 115 | 122 | 101 | 111 | 139 | 119 | 44.6 | 37.5 | 54.6 | 33.5 | 42 |
| 185 | 53.8 | 37.7 | 71 | 49 | 70.9 | 50.1 | 68.6 | 39 | 93.7 | 72.9 | 106 | 119 | 73.3 | 53.7 | 74.7 | 108 | 41 | 32.1 | 38.8 | 25.8 | 35.1 |
| 190 | 47 | 34.2 | | | | | 66.6 | 42.3 | 79.3 | 55 | 87.9 | 68.8 | 79.3 | 58.9 | 79.2 | 60 | 76.5 | 75.9 | 28.7 | 23.8 | 30.5 |
| 195 | 42 | 28.3 | 43.5 | 31.7 | 47.1 | 29.7 | 69.4 | 45 | 64.9 | 46.8 | 59.8 | 48.6 | 64 | 45.1 | 67 | 54 | 29.8 | 26.2 | 34.7 | 21.2 | 28.5 |

IRON BLOCKADE

IRON BLOCKADE

IRON BLOCKADE

IRON BLOCKADE

Soil Electrical Conductivity Data Temperature Correction: $EC_{25degC} = F_T * EC_T$ $F_T = -0.4470 + 1.4034 * \exp(-T/26.815)$

Units: dS/m V=vertical measurements H=horizontal measurements
 D= Distance along transect from West to East

| DATE | 9/5/98 | | 11/29/98 | | 1/16/99 | | 2/26/99 | | 4/5/99 | | 6/13/99 | | 6/22/99 | | 7/22/99 | | 8/28/99 | | 9/25/99 | | 10/30/99 | | | | | | | | | | | | |
|------|--------|------|----------|------|---------|------|---------|------|--------|------|---------|------|---------|---------|---------|---------|---------|------|---------|------|----------|------|------|------|------|------|------|------|--|--|--|--|--|
| | D[m] | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | | | | | | | | | | |
| 0 | 16 | 15.4 | 7.3 | 13.6 | 10.5 | 3.25 | 11.2 | 10.7 | 14.5 | 13.2 | 35.7 | 53.8 | 42.6 | 62.2 | 19.4 | 28.7 | 15.1 | 19.4 | 7.2 | 5.37 | 6 | 2.89 | | | | | | | | | | | |
| 5 | 18.4 | 25.5 | 7.72 | 13.3 | 9.44 | 4.87 | 10.9 | 9.29 | | | 38.1 | 55.1 | 42.6 | 59.8 | 21.2 | 27.1 | 15.3 | 19.6 | 7.4 | 5.47 | 6.25 | 4.9 | | | | | | | | | | | |
| 10 | 20.7 | 21.8 | | 10.5 | 5.37 | 10.5 | 10.4 | 15.6 | 12.7 | 39.3 | 57.7 | 50.1 | 55 | 24.3 | 30.5 | 15.8 | 19.2 | 7.7 | 6.81 | 6.5 | 6.01 | | | | | | | | | | | | |
| 15 | 20.7 | 22.6 | 8.82 | 11.8 | 8 | 7.87 | 11.6 | 8.58 | 13.1 | 13.8 | 45.3 | 68.2 | 49 | 60 | 24.2 | 33.3 | 13.5 | 18.4 | 8.99 | 8.06 | 7.62 | 5.56 | | | | | | | | | | | |
| 20 | 25 | 24.6 | | 8.26 | 7 | 8.49 | 9.89 | 11.7 | 12.3 | 38.1 | 53.8 | 53.3 | 76.2 | 26.2 | 35.7 | 19.1 | 21.7 | 10.6 | 7.68 | 8.87 | 7.9 | | | | | | | | | | | | |
| 25 | 29.2 | 29.4 | 19.2 | 14.7 | 15.1 | 7.37 | 14.2 | 10.1 | 16.5 | 12.3 | 42.9 | 56.4 | 77.3 | 78.7 | 29.9 | 31.5 | 17.9 | 18.4 | 12.7 | 11.8 | 9.74 | 6.45 | | | | | | | | | | | |
| 30 | 14.5 | 26.6 | | | | | | | 12.6 | 17 | 47.7 | 64.3 | 72.9 | 71.2 | 38.1 | 38.5 | 20 | 24.7 | 12.5 | 11.9 | 11.6 | 7.68 | | | | | | | | | | | |
| 35 | 37.2 | 30.3 | 12.4 | 17.4 | 12.2 | 8.62 | 7.87 | 1.19 | 18.9 | 16.8 | 28.6 | 64.3 | 44.6 | 68.7 | 35.6 | 38.9 | 20.4 | 22.1 | 10.6 | 9.41 | 9.62 | 7.68 | | | | | | | | | | | |
| 40 | 27.2 | 28.5 | | | | | | | 14.2 | 8.49 | 16 | 11.9 | | 40.5 | 53.8 | 49 | 67.5 | 37.1 | 42.7 | 19.5 | 22.4 | 10.7 | 9.98 | | | | | | | | | | |
| 45 | 31.4 | 32.4 | | | | | | | 19.6 | 16 | 56 | 40.6 | 60.9 | 79.9 | 37.4 | 45.3 | 17 | 19.9 | 11.7 | 9.79 | 11.5 | 8.68 | | | | | | | | | | | |
| 50 | 32.9 | 28.4 | | | | | | | 14.2 | 8.74 | 16.2 | 11.3 | 15.4 | 12.7 | 62 | 64.3 | 58.8 | 82.4 | 22.7 | 22.8 | 13.9 | 10.7 | 13.6 | 8.57 | | | | | | | | | |
| 55 | 35 | 32.2 | 16.7 | 14.8 | 14.9 | 11.2 | | | 18.6 | 11.2 | 16.9 | 14.5 | 26.1 | 22.8 | 62 | 61.6 | 88.7 | 43.2 | 45.8 | 23.3 | 26.9 | 16.4 | 18.9 | 14 | 10.5 | | | | | | | | |
| 60 | 36.1 | 35.6 | | | | | | | 20.5 | 11.9 | 20.7 | 16.7 | 25.1 | 21.4 | 53.6 | 66.9 | 69 | 84.9 | 45.7 | 53.4 | 29.1 | 32.4 | 18.2 | 17.6 | 15.4 | 11.9 | | | | | | | |
| 65 | 36.3 | 34.3 | | | | | | | 19 | 11.9 | 20.6 | 14.9 | 29.5 | 25.2 | 65.5 | 81.3 | 66.8 | 83.7 | 42.8 | 55 | 23.4 | 28.4 | 15.9 | 15.6 | 17.1 | 12.1 | | | | | | | |
| 70 | 38.8 | 40.6 | | | | | | | 19.4 | 21.2 | 17 | 9.99 | 16.9 | 16.3 | 21.1 | 20.8 | 63.1 | 85.2 | 63.7 | 67.5 | 40.7 | 57.5 | 26.4 | 27.5 | 29.3 | 19.3 | 12.7 | 10.4 | | | | | |
| 75 | 39.9 | 37.9 | 16 | 16.8 | | | | | 28.8 | 20.4 | | | | | | | 52.4 | 72.1 | 81.9 | 76.2 | 42.4 | 53.5 | 25.2 | 29.1 | 31.5 | 19 | 24.4 | 15.6 | | | | | |
| 80 | 40.1 | 44.4 | | | | | | | 50.2 | 21.3 | 55.1 | 31.9 | 11.3 | 102 | 154 | 88.3 | 67.1 | 77.7 | 34.1 | 32.7 | 32.5 | 24.7 | 24.3 | 17.2 | | | | | | | | | |
| 85 | 29.2 | 29.9 | | | | | | | 32.6 | 24.4 | 40.1 | 39.6 | 89.4 | 93.1 | 104 | 88.3 | 71.7 | 78.6 | 36.5 | 35.4 | 30 | 25 | 22.6 | 16.4 | | | | | | | | | |
| 90 | 50.9 | 36.1 | | | | | | | 32.6 | 24.4 | 40.1 | 39.6 | 89.4 | 93.1 | 104 | 88.3 | 71.7 | 78.6 | 36.5 | 35.4 | 30 | 25 | 22.6 | 16.4 | | | | | | | | | |
| 95 | 60.5 | 58.2 | | | | | | | 32.6 | 24.4 | 40.1 | 39.6 | 89.4 | 93.1 | 104 | 88.3 | 71.7 | 78.6 | 36.5 | 35.4 | 30 | 25 | 22.6 | 16.4 | | | | | | | | | |
| 100 | 60.2 | 67.9 | 22.3 | 18.4 | 32.9 | 25.9 | 32.1 | 22.2 | 31 | 22.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | 59.2 | 67.8 | 14.5 | 15.9 | 32.1 | 22.2 | | | 50.2 | 21.3 | 55.1 | 31.9 | 11.3 | 102 | 154 | 88.3 | 67.1 | 77.7 | 34.1 | 32.7 | 32.5 | 24.7 | 24.3 | 17.2 | | | | | | | | | |
| 110 | 70 | 73.3 | 35.8 | 34.4 | 37.2 | 23.6 | 35.6 | 27.6 | 46.1 | 42.5 | 110 | 102 | FLOODED | FLOODED | FLOODED | FLOODED | 90.8 | 97.6 | 39.4 | 35.6 | 30.8 | 27.3 | 23.8 | 17.9 | | | | | | | | | |
| 115 | 69.6 | 63.5 | 42.6 | 34.9 | 33.4 | 21.9 | 32.8 | 25.4 | 47.4 | 42.1 | 92.9 | 85.7 | 90.8 | 85.7 | 54 | 56 | 36.5 | 38.4 | 29.7 | 23.2 | 25.2 | 29.2 | 20 | | | | | | | | | | |
| 120 | 66.6 | 66 | | | | | | | 47.4 | 42.1 | 92.9 | 85.7 | 90.8 | 85.7 | 54 | 56 | 36.5 | 38.4 | 29.7 | 23.2 | 25.2 | 29.2 | 20 | | | | | | | | | | |
| 130 | 44.8 | 40.2 | 36.8 | 25.2 | 20.8 | 11.1 | 22.4 | 20.2 | 26.4 | 20.7 | 39.4 | 31.8 | 60.8 | 60.1 | 62.9 | 65.6 | 52.1 | 52.3 | 32.1 | 23.1 | 24.5 | 26.9 | 16.7 | 20.2 | 12.3 | | | | | | | | |
| 135 | 38.6 | 34.9 | | | | | | | 26.6 | 14.5 | 21 | 17.3 | 69.1 | 64 | 67.5 | 81.9 | 50.9 | 57.1 | 29.6 | 24.8 | 19.1 | 14.3 | 20.1 | 13.3 | | | | | | | | | |
| 140 | 28.6 | 25 | 21.1 | 26.1 | 27.9 | 16.2 | 19.7 | 16.8 | 30.6 | 31.7 | 69.1 | 64 | 67.5 | 81.9 | 50.9 | 57.1 | 29.6 | 24.8 | 19.1 | 14.3 | 20.1 | 13.3 | | | | | | | | | | | |
| 145 | 32 | 26.5 | 18.6 | 26.6 | 32.3 | 16.5 | 18.5 | 18.7 | 31.1 | 32.8 | 62 | 57.6 | 58.2 | 62.7 | 57 | 69.1 | 49.4 | 56.6 | 26.7 | 24.1 | 19.1 | 13.7 | 18 | | | | | | | | | | |
| 150 | 30.3 | 22.1 | 28.4 | 22.4 | 55.3 | 28.5 | | | 31.1 | 32.8 | 62 | 57.6 | 58.2 | 62.7 | 57 | 69.1 | 49.4 | 56.6 | 26.7 | 24.1 | 19.1 | 13.7 | 18 | | | | | | | | | | |
| 155 | 31.1 | 26 | 29.4 | 22.1 | 100 | 50 | 26.4 | 20.7 | 39.4 | 31.8 | 60.8 | 60.1 | 62.9 | 65.6 | 52.1 | 52.3 | 32.1 | 23.1 | 24.5 | 26.9 | 16.7 | 20.2 | 12.3 | | | | | | | | | | |
| 160 | 35.2 | 27.1 | 39.8 | 27.3 | 74.1 | 36.5 | | | 69.1 | 76.8 | 73.9 | 83.9 | 57 | 55.5 | 34.3 | 29.2 | 26.3 | 17.8 | 25.3 | 16.4 | | | | | | | | | | | | | |
| 165 | 35.7 | 27.1 | 104 | 61.7 | 66.3 | 38.5 | 28.5 | 21.5 | 38.6 | 39.4 | 67.9 | 75.5 | 83.4 | 83.9 | 54 | 52.8 | 34.5 | 32.6 | 28.8 | 16.6 | 26.9 | 17.9 | | | | | | | | | | | |
| 170 | 50.3 | 34 | 81 | 54.4 | 54.5 | 27 | | | 64.3 | 67.8 | 78.6 | 89.2 | 55.6 | 57.6 | 35.9 | 32.9 | 24.2 | 19.2 | 28.8 | 16 | | | | | | | | | | | | | |
| 175 | 83.8 | 54.6 | | | | | | | 66.2 | 32.4 | 52.3 | 32.7 | 67.9 | 56.5 | 78.6 | 71.7 | 91.7 | 90.5 | 53.5 | 59.1 | 44.5 | 37.8 | 45.6 | 26.9 | 37.8 | | | | | | | | |
| 180 | 111 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 185 | 60.3 | 39.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 190 | 50.6 | 34.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 195 | 55.9 | 37.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 65.5 | 44.5 | 60.1 | 36 | 65.8 | 32.1 | 98.1 | 55.1 | 126 | 88.1 | 111 | 90.9 | 144 | 122 | 72.3 | 55.1 | 47.1 | 46 | 39.7 | 26 | 41 | 27.8 | | | | | | | | | | | |

DATE 9/5/98 11/29/98 1/16/99 2/26/99 4/5/99 6/13/99 6/22/99 7/22/99 8/28/99 9/25/99 10/30/99

Soil Electrical Conductivity Data Temperature Correction: $EC_{25degC} = F_T * EC_T$ $F_T = 0.4470 + 1.4034 * \exp(-T/26.815)$

Units: $\mu S/m$ V=vertical measurements H=horizontal measurements

South Cottonwood Transect D= Distance along transect from East to West

| D [m] | 11/29/98 | | 1/16/99 | | 2/27/99 | | 4/5/99 | | 6/13/99 | | 7/22/99 | | 8/28/99 | | 9/25/99 | | 10/30/99 | | |
|-------|----------|------|---------|------|---------|------|--------|------|---------|------|---------|------|---------|------|---------|------|----------|------|-----|
| | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | V | H | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 10 | 11.9 | 10.6 | 10.4 | 4.87 | 12.1 | 5.73 | | 14.1 | 5.75 | 22.6 | 8.06 | 25.9 | 35.8 | 8.76 | 7.2 | 14.1 | 8.96 | 23.9 | 5.9 |
| 15 | | | 10.7 | 5.62 | 9.99 | 3.42 | | 10.2 | 1.37 | 9.53 | 2.69 | 16.3 | 29.9 | 7.17 | 3.42 | 10.5 | 5.51 | 9 | 2.8 |
| 20 | 15.6 | 15.1 | 13.4 | 7.99 | 9.62 | 4.27 | | 11.5 | 8.49 | 14.3 | 9.41 | 25.7 | 44 | 9.22 | 14 | 11.9 | 10.7 | 7.6 | 5.8 |
| 25 | 12.9 | 13.6 | 10.7 | 6.5 | 9.74 | 5.12 | | 16.7 | 13.4 | 16.7 | 13.4 | 31.6 | 45.2 | 8.88 | 8.54 | 11.6 | 11.3 | 7.4 | 5.6 |
| 30 | | | | | | | | 14.3 | 9.12 | 15.5 | 14.8 | 29.5 | 32.4 | 9.9 | 10 | 12.4 | 11.2 | 8.2 | 6 |
| 35 | 11.3 | 9.02 | 9.72 | 4.25 | 7.74 | 1.83 | | 14.3 | 8.12 | 15.5 | 14.8 | 33 | 40.9 | 7.28 | 8.17 | 11.6 | 10.7 | 7.2 | 6 |
| 40 | 12.8 | 15 | 11.3 | 6.87 | 11.4 | 7.32 | | 11 | 5.75 | 11.9 | 10.8 | 24.3 | 25.3 | 5.92 | 9.39 | 11.1 | 10.9 | 7.1 | 5.3 |
| 45 | | | 10.5 | 9.99 | 10.2 | 10.1 | | 15.5 | 13.4 | 14.3 | 26.2 | 30.6 | 7.51 | 10.9 | 11.5 | 11.6 | 7 | 4.8 | 4.8 |
| 50 | 14.3 | 14.5 | 11.6 | 7.87 | 10.7 | 10.9 | | 14.8 | 7.62 | 14.3 | 12.1 | 28.7 | 28.5 | 8.19 | 6.95 | 11.8 | 10.5 | 6.9 | 5.4 |
| 55 | 15.6 | 17.4 | 4.86 | 3.12 | 7.99 | 4.27 | | 13.6 | 9.37 | 14.3 | 14.8 | 26.8 | 40.9 | 7.4 | 7.56 | 10.7 | 8.68 | 7.4 | 4.8 |
| 60 | 18.9 | 33.2 | 14.7 | 12 | 11.2 | 5.37 | | 5.76 | 7.87 | 8.34 | 12.1 | 17.5 | 37.2 | 5.01 | 9.39 | 9.85 | 8.82 | 5.7 | 3 |
| 65 | 14.6 | 28.6 | | | | | | 14.3 | 6.72 | 22.6 | 33.7 | 7.4 | 8.78 | 9.98 | 9.51 | 7.6 | 6 | | |
| 70 | 9.23 | 22.6 | | | | | | 18.3 | 16.1 | 30.1 | 40.1 | 8.19 | 5.49 | 11.8 | 12.1 | 7.8 | 5.7 | | |
| 75 | 15.3 | 32 | | | | | | 14.6 | 12.1 | 26.9 | 39.4 | 10.6 | 8.9 | 11.6 | 11.6 | 7.7 | 5.8 | | |
| 80 | | | | | | | | 13.7 | 8.06 | 21.6 | 32 | 6.64 | 7.93 | 10.5 | 9.14 | 7.2 | 5.4 | | |
| 85 | 18.6 | 31.1 | | | | | | 9.99 | 8.06 | 17 | 15.4 | 6.17 | 7.68 | 9.87 | 8.74 | 7.4 | 4.2 | | |
| 90 | 16.4 | 23.8 | | | | | | 12.5 | 14.8 | 20.7 | 34.4 | 6.17 | 9.27 | 10.2 | 10.6 | 7.6 | 6.7 | | |
| 95 | | | | | | | | 20 | 18.8 | 31.1 | 42.4 | 9.66 | 12.7 | 11.7 | 12 | 8.5 | 6.6 | | |
| 100 | 19.8 | 23.3 | | | | | | 15 | 12.1 | 21.1 | 36.2 | 7.45 | 8.05 | 11.5 | 9.81 | 7.6 | 5.4 | | |
| 105 | | | | | | | | 15 | 10.8 | 29.9 | 38.3 | 8.73 | 8.05 | 11.2 | 9.54 | 8.1 | 5 | | |
| 110 | 15.5 | 19.4 | | | | | | 16.2 | 12.1 | 29.8 | 37.5 | 8.88 | 7.68 | 11.1 | 9.51 | 8.5 | 4.9 | | |
| 115 | 23.5 | 20.9 | | | | | | 15 | 9.41 | 31.1 | 35.7 | 8.76 | 7.44 | 11.5 | 9.51 | 7.6 | 5.7 | | |
| 120 | 18.3 | 19.4 | | | | | | 15 | 8.06 | 36.7 | 24.5 | 7.97 | 8.9 | 11.9 | 8.54 | 8.8 | 5.4 | | |
| 125 | | | | | | | | 17.5 | 13.4 | 28.3 | 27.5 | 7.74 | 7.2 | 11.4 | 9.23 | 8.3 | 4.4 | | |
| 130 | 14.5 | 16.6 | | | | | | 18.7 | 14.8 | 36.1 | 34.2 | 8.31 | 8.66 | 11.1 | 9.23 | 7.9 | 5.8 | | |
| 135 | 15.4 | 16.1 | | | | | | 17.9 | 22.2 | 17.5 | 13.4 | 28.5 | 29.5 | 9.22 | 8.78 | 11.1 | 10.7 | 7.8 | 5.5 |
| 140 | | | | | | | | 12.5 | 8.06 | 26.3 | 29.5 | 8.42 | 7.2 | 11 | 9.65 | 8.2 | 5.6 | | |
| 145 | 18.3 | 15.4 | | | | | | 15 | 9.41 | 25.7 | 27.1 | 7.28 | 7.93 | 9.72 | 8.68 | 6.5 | 4.5 | | |
| 150 | | | | | | | | 12.5 | 12.1 | 19.7 | 21.7 | 6.37 | 7.44 | 8.06 | 8.82 | 6.4 | 4.2 | | |
| 155 | 15.2 | 14.7 | | | | | | 16.1 | 8.42 | 23.7 | 16.1 | 30.6 | 31.6 | 8.08 | 8.29 | 10.5 | 9.51 | 7.2 | 4.7 |

| <u>SSC 3T</u> | | | | | <u>SB</u> | | | | |
|---------------|----------------|-----------------|---------------|----------------|-----------------|----------------|-----------------|---------------|----------------|
| <u>Depth</u> | <u>Sample#</u> | <u>18O corr</u> | <u>D corr</u> | <u>% Water</u> | <u>Depth</u> | <u>Sample#</u> | <u>18O corr</u> | <u>D corr</u> | <u>% Water</u> |
| water | 1water | | | | 5 #30 | 30 | 10.7 | -126.1 | 5.05 |
| water | 2water | | | | 5 #31 | 31 | 10.9 | | 4.13 |
| | 5 | 1 | | | 25 #31 | 31 | | -33.1 | 2.7 |
| | 10 | 2 | | | 25 #32 | 32 | 3.49 | -54.5 | 2.81 |
| | 20 | 3 | | | 50 #34 | 34 | -4.69 | -72.8 | 4.14 |
| | 30 | 4 | -8.9 | -78.5 | 22 50 #34 | 34 | | -67.5 | 4.14 |
| | 30 | 4 | -8.9 | | 22 50 #35 | 35 | | -66 | 4.3 |
| | 40 | 5 | | | 75 #36 | 36 | -6.7 | -74 | 14.2 |
| | 50 | 6 | | | 75 #37 | 37 | -6.6 | -70.6 | 13.74 |
| | 60 7 * | | -8.4 | -79.2 | 24.46 100 #38 | 38 | -9 | -87 | 27.35 |
| | 60 7 * | | -8.3 | | 24.46 100 #38 d | 38 | -9 | | 27.35 |
| | 70 | 8 | | | 100 #39 | 39 | -8.9 | -83.9 | 26.49 |
| | 90 | 9 | | | 125 #40 | 40 | -9.4 | -83.1 | 19.06 |
| | 110 | 10 | | | 125 #40 d | 40 | | -84.6 | 19.06 |
| | 130 | 11 | | | 150 #42 | 42 | -9.1 | -90.3 | 7.17 |
| | 140 | 12 | | | 150 #43 | 43 | -8.4 | -78.6 | 6.66 |
| | 150 | 13 | -10.6 | -91.7 | 24.21 225 #46 | 46 | -10.6 | -92 | 24.19 |
| | 170 | 14 | | | 250 #47 | 47 | -10.1 | -91 | 21.95 |
| | 190 | 15 | | | | | | | |
| | 210 | 16 | | | | | | | |
| | 230 | 17 | | | | | | | |
| | 250 | 18 | -9.4 | -84.9 | 27.02 | | | | |
| | 250 | 18 | | | -87 | 27.02 | | | |

* Possible hydrocarbon contamination

| | <u>SMOW</u> | |
|-------|-------------|----------|
| | <u>18 O</u> | <u>D</u> |
| R/SSC | 0 | 10 |
| CSC | -5 | -30 |
| CAN | -8 | -54 |
| SB | -10 | -70 |
| SCW | -12 | -86 |
| ? | -13 | -94 |
| CAN | -20 | -150 |

Waters

Plants
27.0=39.75

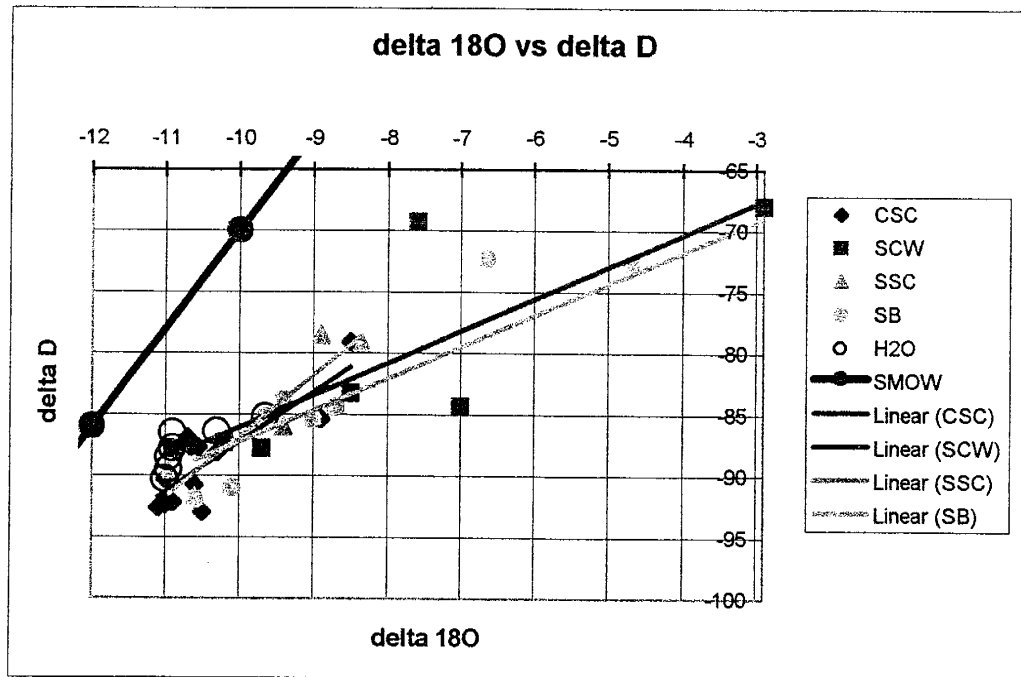
Correction for O
Correction for D
 $Y=1.1125D+32.313$

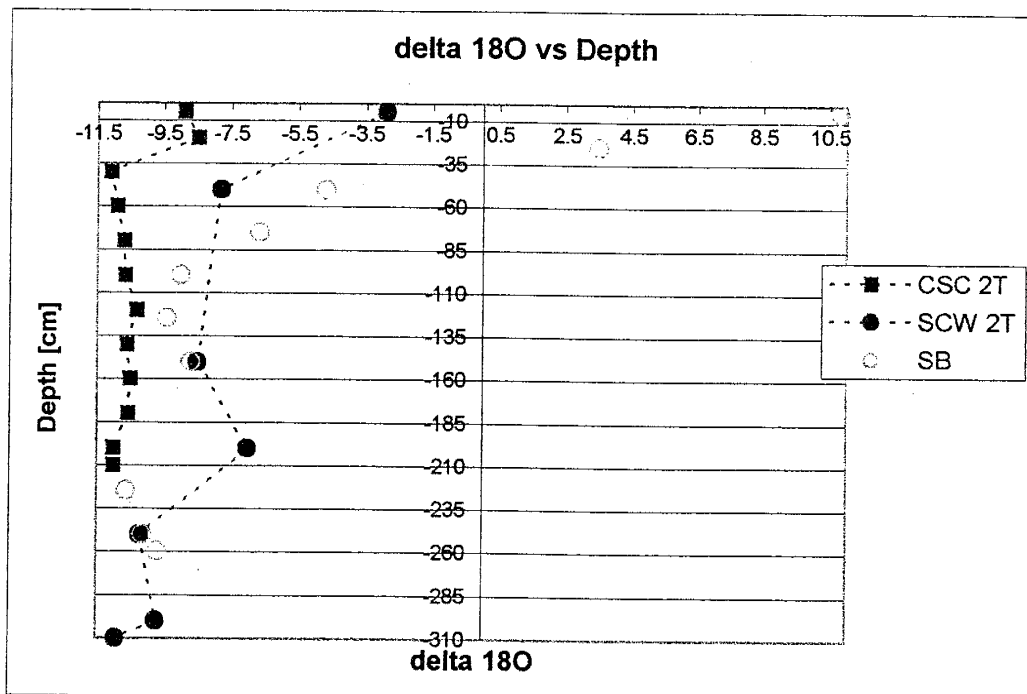
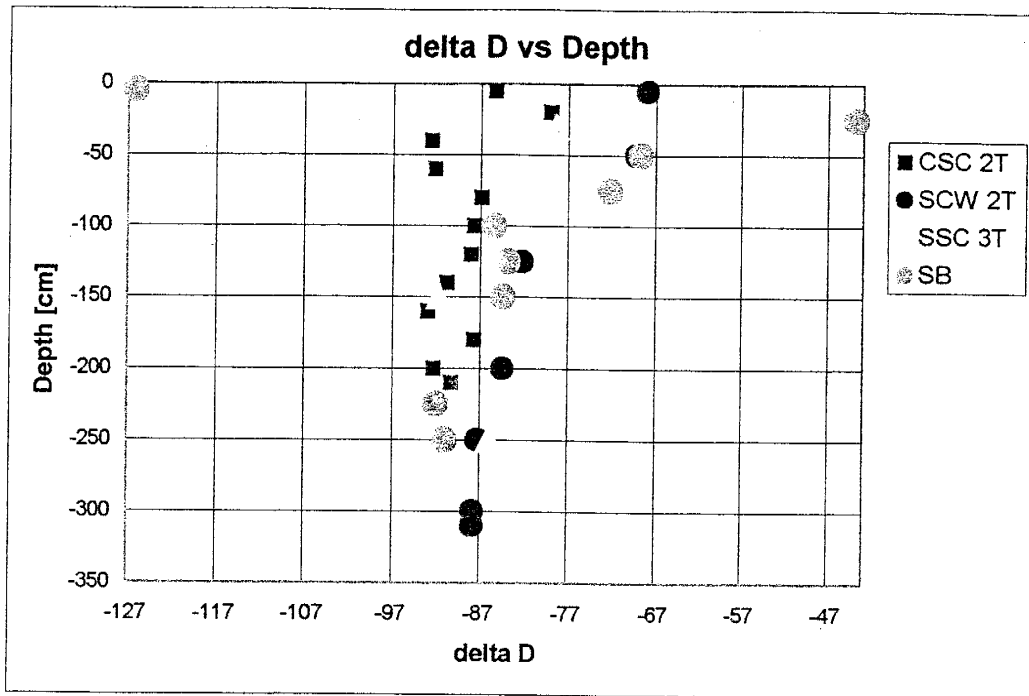
B-44

Waters

Plants

| <u>Sample #</u> | <u>18O corr</u> | <u>D corr</u> | <u>Sample ID</u> | <u>18O corr</u> | <u>D corr</u> | <u>% Water</u> | <u>Species</u> |
|-------------------|-----------------|---------------|------------------|-----------------|---------------|----------------|-------------------|
| SSC River #3W | -10.9 | -106.2 | CSC 2T #3L | 7.6 | -30.3 | 72.62 | SC |
| SSC River #4W | -11 | -89.5 | CSC 2T #4L | 6.8 | -31.9 | 69.82 | SC |
| CSC 2T #7W | -11 | -88.8 | CSC 2T #12L | 4.2 | -54.6 | 72.49 | SC |
| CSC 2T #8W | -11 | -91.8 | SCW 2T #7L | 14.7 | | 59.19 | CW |
| SB Canal #9W | -10.9 | -86.5 | SCW 2T #8L | -126.25 | | 69.14 | CW |
| SB canal #9W d | | -86 | SCW 2T #9L | 14.2 | | 68.63 | willow |
| SB Canal #10W | -10.9 | -156.8 | SCW 2T #10L | 12.9 | | 67.13 | willow |
| SB2 Well #11 | -9.7 | -83.8 | SCW 2T #13 | 6.2 | | 66.29 | CW week later |
| SB2 Well #12 | -9.6 | -86.7 | SCW 2T #14 | 6.1 | | 64.83 | willow week later |
| SCW 2T Well #13W | -10.3 | -83.8 | SSC | | | | SC |
| SCW 2T Well #14W | -10.3 | -87.7 | SSC 3T #11L | -127.45 | | 78.63 | SC |
| SCW 2T Well #14Wd | | -87.8 | SB #5L | 13 | | 72.58 | short herbs |
| SCW 2T Canal #15W | -10.9 | -87.8 | SB #6L | 11.2 | | 77.09 | short herbs |
| SCW 2T Land #16 | -11 | -89.2 | | | | | |





Appendix C.1. Bosque Model Input Data

C-1

SOUTH COTTONWOOD PROFILE

| <u>depth_cm</u> | <u>R</u> | <u>Material</u> | <u>Layer</u> |
|-----------------|----------|-----------------|--------------|
| 0 | 0 | 1 | 1 |
| 0.1 | 0 | 1 | 1 |
| 0.2 | 0 | 1 | 1 |
| 0.3 | 0 | 1 | 1 |
| 0.4 | 0 | 1 | 1 |
| 0.5 | 0.1 | 1 | 1 |
| 0.6 | 0.15 | 1 | 1 |
| 0.7 | 0.2 | 1 | 1 |
| 0.8 | 0.25 | 1 | 1 |
| 0.9 | 0.3 | 1 | 1 |
| 1 | 0.35 | 1 | 1 |
| 1.2 | 0.4 | 1 | 1 |
| 1.4 | 0.4275 | 1 | 1 |
| 1.6 | 0.4275 | 1 | 1 |
| 1.8 | 0.4275 | 1 | 1 |
| 2 | 0.4275 | 1 | 1 |
| 2.25 | 0.4275 | 1 | 1 |
| 2.5 | 0.4275 | 1 | 1 |
| 2.75 | 0.4275 | 1 | 1 |
| 3 | 0.4275 | 1 | 1 |
| 3.25 | 0.4275 | 1 | 1 |
| 3.5 | 0.4275 | 1 | 1 |
| 3.75 | 0.4275 | 1 | 1 |
| 4 | 0.4275 | 1 | 1 |
| 4.25 | 0.4275 | 1 | 1 |
| 4.5 | 0.4275 | 1 | 1 |
| 4.75 | 0.4275 | 1 | 1 |
| 5 | 0.4275 | 2 | 2 |
| 5.25 | 0.4275 | 2 | 2 |
| 5.5 | 0.4275 | 2 | 2 |
| 5.75 | 0.4275 | 2 | 2 |
| 6 | 0.4275 | 2 | 2 |
| 6.25 | 0.4275 | 2 | 2 |
| 6.5 | 0.4275 | 2 | 2 |
| 6.75 | 0.4275 | 2 | 2 |
| 7 | 0.4275 | 2 | 2 |
| 7.25 | 0.43 | 2 | 2 |
| 7.5 | 0.435 | 2 | 2 |
| 7.75 | 0.44 | 2 | 2 |
| 8 | 0.445 | 2 | 2 |
| 8.5 | 0.45 | 2 | 2 |
| 9 | 0.455 | 2 | 2 |
| 9.5 | 0.5 | 2 | 2 |
| 10 | 0.55 | 2 | 2 |
| 10.5 | 0.6 | 2 | 2 |
| 11 | 0.65 | 2 | 2 |
| 11.5 | 0.7 | 2 | 2 |
| 12 | 0.75 | 2 | 2 |
| 12.5 | 0.8 | 2 | 2 |
| 13 | 0.85 | 2 | 2 |
| 13.5 | 0.9 | 2 | 2 |
| 14 | 0.95 | 2 | 2 |

R= root density function

SCW Overall Stratigraphy

composite texture 4/11/99

| <u>Depth Interval (cm)</u> | <u>Texture</u> | <u>Material</u> |
|----------------------------|----------------|-----------------|
| 0 | 5 Silt | 1 |
| 0 | 30 SiCL | 2 |
| 30 | 60 v.f. LS | 3 |
| 60 | 100 v.f. S | 4 |
| 100 | 245 f. S | 5 |
| 245 | 400 LS | 6 |

v.f. = very fine, S = sand, LS = loamy sand,
SiCL = Silty Clay Loam

SCW Material Hydraulic Properties

| <u>Material</u> | <u>Qr</u> | <u>Qs</u> | <u>Alpha</u> | <u>n</u> | <u>Ks</u> | <u>l</u> |
|-----------------|-----------|-----------|--------------|----------|-----------|----------|
| 1 | 0.034 | 0.46 | 0.016 | 2.17 | 25 | 0.5 |
| 2 | 0.07 | 0.44 | 0.0114 | 1.97 | 15.67 | 0.5 |
| 3 | 0.035 | 0.37 | 0.022 | 2.85 | 125 | 0.5 |
| 4 | 0.025 | 0.36 | 0.025 | 3.5 | 860 | 0.5 |
| 5 | 0.03 | 0.37 | 0.025 | 3.2 | 272.4 | 0.5 |
| 6 | 0.035 | 0.38 | 0.02 | 3 | 150 | 0.5 |

Qr = residual volumetric water content,

Qs = saturated volumetric water content

Alpha, n & l = van Genuchten parameters

Ks = saturated hydraulic conductivity

| | | | |
|-------|------|---|---|
| 14.5 | 1 | 2 | 2 |
| 15 | 1 | 2 | 2 |
| 15.5 | 1 | 2 | 2 |
| 16 | 1 | 2 | 2 |
| 16.5 | 1 | 2 | 2 |
| 17 | 0.98 | 2 | 2 |
| 17.5 | 0.95 | 2 | 2 |
| 18 | 0.9 | 2 | 2 |
| 18.5 | 0.85 | 2 | 2 |
| 19 | 0.8 | 2 | 2 |
| 19.5 | 0.75 | 2 | 2 |
| 20 | 0.7 | 2 | 2 |
| 20.5 | 0.65 | 2 | 2 |
| 21 | 0.6 | 2 | 2 |
| 21.5 | 0.55 | 2 | 2 |
| 22 | 0.5 | 2 | 2 |
| 22.5 | 0.45 | 2 | 2 |
| 23 | 0.4 | 2 | 2 |
| 23.5 | 0.35 | 2 | 2 |
| 24 | 0.35 | 2 | 2 |
| 24.5 | 0.35 | 2 | 2 |
| 25 | 0.35 | 2 | 2 |
| 25.25 | 0.36 | 2 | 2 |
| 25.5 | 0.37 | 2 | 2 |
| 25.8 | 0.38 | 2 | 2 |
| 25.9 | 0.39 | 2 | 2 |
| 26 | 0.4 | 3 | 3 |
| 26.1 | 0.41 | 3 | 3 |
| 26.2 | 0.42 | 3 | 3 |
| 26.5 | 0.43 | 3 | 3 |
| 27 | 0.44 | 3 | 3 |
| 27.5 | 0.46 | 3 | 3 |
| 28 | 0.48 | 3 | 3 |
| 28.5 | 0.5 | 3 | 3 |
| 29 | 0.52 | 3 | 3 |
| 29.5 | 0.54 | 3 | 3 |
| 30 | 0.56 | 3 | 3 |
| 30.5 | 0.58 | 3 | 3 |
| 31 | 0.6 | 3 | 3 |
| 31.5 | 0.6 | 3 | 3 |
| 32 | 0.6 | 3 | 3 |
| 32.5 | 0.6 | 3 | 3 |
| 33 | 0.6 | 3 | 3 |
| 33.5 | 0.6 | 3 | 3 |
| 34 | 0.6 | 3 | 3 |
| 34.5 | 0.6 | 3 | 3 |
| 35 | 0.6 | 3 | 3 |
| 35.5 | 0.6 | 3 | 3 |
| 36 | 0.6 | 3 | 3 |
| 36.5 | 0.6 | 3 | 3 |
| 37 | 0.6 | 3 | 3 |
| 37.5 | 0.59 | 3 | 3 |
| 38 | 0.58 | 3 | 3 |
| 38.5 | 0.57 | 3 | 3 |
| 39 | 0.56 | 3 | 3 |
| 39.5 | 0.55 | 3 | 3 |
| 40 | 0.54 | 3 | 3 |
| 40.5 | 0.52 | 3 | 3 |
| 41 | 0.51 | 3 | 3 |

| | | | |
|------|------|---|---|
| 41.5 | 0.5 | 3 | 3 |
| 42 | 0.49 | 3 | 3 |
| 42.5 | 0.48 | 3 | 3 |
| 43 | 0.47 | 3 | 3 |
| 43.5 | 0.46 | 3 | 3 |
| 44 | 0.45 | 3 | 3 |
| 44.5 | 0.43 | 3 | 3 |
| 45 | 0.41 | 3 | 3 |
| 45.5 | 0.4 | 3 | 3 |
| 46 | 0.38 | 3 | 3 |
| 46.5 | 0.36 | 3 | 3 |
| 47 | 0.34 | 3 | 3 |
| 47.5 | 0.32 | 3 | 3 |
| 48 | 0.3 | 3 | 3 |
| 48.5 | 0.28 | 3 | 3 |
| 49 | 0.27 | 3 | 3 |
| 49.5 | 0.26 | 3 | 3 |
| 50 | 0.25 | 3 | 3 |
| 50.5 | 0.24 | 3 | 3 |
| 51 | 0.23 | 3 | 3 |
| 51.5 | 0.22 | 3 | 3 |
| 52 | 0.21 | 3 | 3 |
| 52.5 | 0.2 | 3 | 3 |
| 53 | 0.19 | 3 | 3 |
| 53.5 | 0.18 | 3 | 3 |
| 54 | 0.17 | 3 | 3 |
| 54.5 | 0.16 | 3 | 3 |
| 55 | 0.15 | 3 | 3 |
| 55.5 | 0.15 | 3 | 3 |
| 56 | 0.15 | 3 | 3 |
| 56.5 | 0.15 | 3 | 3 |
| 57 | 0.15 | 3 | 3 |
| 57.5 | 0.15 | 3 | 3 |
| 58 | 0.15 | 3 | 3 |
| 58.5 | 0.15 | 3 | 3 |
| 59 | 0.15 | 3 | 3 |
| 59.5 | 0.15 | 3 | 3 |
| 59.8 | 0.15 | 3 | 3 |
| 59.9 | 0.15 | 3 | 3 |
| 60 | 0.15 | 3 | 3 |
| 60.1 | 0.15 | 4 | 4 |
| 60.2 | 0.15 | 4 | 4 |
| 60.5 | 0.15 | 4 | 4 |
| 61 | 0.15 | 4 | 4 |
| 61.5 | 0.15 | 4 | 4 |
| 62 | 0.15 | 4 | 4 |
| 62.5 | 0.15 | 4 | 4 |
| 63 | 0.15 | 4 | 4 |
| 63.5 | 0.15 | 4 | 4 |
| 64 | 0.15 | 4 | 4 |
| 64.5 | 0.15 | 4 | 4 |
| 65 | 0.15 | 4 | 4 |
| 65.5 | 0.15 | 4 | 4 |
| 66 | 0.15 | 4 | 4 |
| 66.5 | 0.15 | 4 | 4 |
| 67 | 0.15 | 4 | 4 |
| 67.5 | 0.15 | 4 | 4 |
| 68 | 0.15 | 4 | 4 |
| 68.5 | 0.15 | 4 | 4 |

| | | | |
|-------|------|---|---|
| 69 | 0.15 | 4 | 4 |
| 69.5 | 0.15 | 4 | 4 |
| 70 | 0.15 | 4 | 4 |
| 70.5 | 0.15 | 4 | 4 |
| 71 | 0.15 | 4 | 4 |
| 71.5 | 0.15 | 4 | 4 |
| 72 | 0.15 | 4 | 4 |
| 72.5 | 0.15 | 4 | 4 |
| 73 | 0.15 | 4 | 4 |
| 73.5 | 0.15 | 4 | 4 |
| 74 | 0.15 | 4 | 4 |
| 74.5 | 0.15 | 4 | 4 |
| 75 | 0.15 | 4 | 4 |
| 75.5 | 0.14 | 4 | 4 |
| 76 | 0.13 | 4 | 4 |
| 76.5 | 0.12 | 4 | 4 |
| 77 | 0.11 | 4 | 4 |
| 77.5 | 0.1 | 4 | 4 |
| 78 | 0.1 | 4 | 4 |
| 78.5 | 0.1 | 4 | 4 |
| 79 | 0.1 | 4 | 4 |
| 79.5 | 0.1 | 4 | 4 |
| 80 | 0.1 | 4 | 4 |
| 81 | 0.1 | 4 | 4 |
| 82 | 0.1 | 4 | 4 |
| 83 | 0.1 | 4 | 4 |
| 84 | 0.1 | 4 | 4 |
| 85 | 0.1 | 4 | 4 |
| 86 | 0.1 | 4 | 4 |
| 87 | 0.1 | 4 | 4 |
| 88 | 0.1 | 4 | 4 |
| 89 | 0.1 | 4 | 4 |
| 90 | 0.1 | 4 | 4 |
| 91 | 0.1 | 4 | 4 |
| 92 | 0.1 | 4 | 4 |
| 93 | 0.1 | 4 | 4 |
| 94 | 0.1 | 4 | 4 |
| 95 | 0.1 | 4 | 4 |
| 96 | 0.1 | 4 | 4 |
| 97 | 0.1 | 4 | 4 |
| 98 | 0.1 | 4 | 4 |
| 99 | 0.1 | 4 | 4 |
| 99.5 | 0.1 | 4 | 4 |
| 99.8 | 0.1 | 4 | 4 |
| 99.9 | 0.1 | 4 | 4 |
| 100 | 0.1 | 5 | 5 |
| 100.1 | 0.1 | 5 | 5 |
| 100.2 | 0.1 | 5 | 5 |
| 100.5 | 0.1 | 5 | 5 |
| 101 | 0.1 | 5 | 5 |
| 102 | 0.1 | 5 | 5 |
| 103 | 0.1 | 5 | 5 |
| 104 | 0.1 | 5 | 5 |
| 105 | 0.1 | 5 | 5 |
| 106 | 0.1 | 5 | 5 |
| 107 | 0.1 | 5 | 5 |
| 108 | 0.1 | 5 | 5 |
| 109 | 0.09 | 5 | 5 |
| 110 | 0.08 | 5 | 5 |

| | | | |
|-----|------|---|---|
| 111 | 0.07 | 5 | 5 |
| 112 | 0.06 | 5 | 5 |
| 113 | 0.05 | 5 | 5 |
| 114 | 0.05 | 5 | 5 |
| 115 | 0.05 | 5 | 5 |
| 116 | 0.05 | 5 | 5 |
| 117 | 0.05 | 5 | 5 |
| 118 | 0.05 | 5 | 5 |
| 119 | 0.05 | 5 | 5 |
| 120 | 0.05 | 5 | 5 |
| 121 | 0.05 | 5 | 5 |
| 122 | 0.05 | 5 | 5 |
| 123 | 0.06 | 5 | 5 |
| 124 | 0.07 | 5 | 5 |
| 125 | 0.08 | 5 | 5 |
| 126 | 0.09 | 5 | 5 |
| 127 | 0.1 | 5 | 5 |
| 128 | 0.12 | 5 | 5 |
| 129 | 0.14 | 5 | 5 |
| 130 | 0.16 | 5 | 5 |
| 131 | 0.18 | 5 | 5 |
| 132 | 0.2 | 5 | 5 |
| 133 | 0.22 | 5 | 5 |
| 134 | 0.24 | 5 | 5 |
| 135 | 0.26 | 5 | 5 |
| 136 | 0.28 | 5 | 5 |
| 137 | 0.3 | 5 | 5 |
| 138 | 0.32 | 5 | 5 |
| 139 | 0.34 | 5 | 5 |
| 140 | 0.36 | 5 | 5 |
| 141 | 0.38 | 5 | 5 |
| 142 | 0.4 | 5 | 5 |
| 143 | 0.42 | 5 | 5 |
| 144 | 0.44 | 5 | 5 |
| 145 | 0.46 | 5 | 5 |
| 146 | 0.48 | 5 | 5 |
| 147 | 0.5 | 5 | 5 |
| 148 | 0.52 | 5 | 5 |
| 149 | 0.54 | 5 | 5 |
| 150 | 0.56 | 5 | 5 |
| 151 | 0.58 | 5 | 5 |
| 152 | 0.6 | 5 | 5 |
| 153 | 0.62 | 5 | 5 |
| 154 | 0.64 | 5 | 5 |
| 155 | 0.66 | 5 | 5 |
| 156 | 0.68 | 5 | 5 |
| 157 | 0.7 | 5 | 5 |
| 158 | 0.72 | 5 | 5 |
| 159 | 0.74 | 5 | 5 |
| 160 | 0.75 | 5 | 5 |
| 161 | 0.75 | 5 | 5 |
| 162 | 0.75 | 5 | 5 |
| 163 | 0.75 | 5 | 5 |
| 164 | 0.75 | 5 | 5 |
| 165 | 0.75 | 5 | 5 |
| 166 | 0.75 | 5 | 5 |
| 167 | 0.75 | 5 | 5 |
| 168 | 0.75 | 5 | 5 |
| 169 | 0.75 | 5 | 5 |

| | | | |
|-----|------|---|---|
| 170 | 0.75 | 5 | 5 |
| 171 | 0.75 | 5 | 5 |
| 172 | 0.75 | 5 | 5 |
| 173 | 0.75 | 5 | 5 |
| 174 | 0.75 | 5 | 5 |
| 175 | 0.75 | 5 | 5 |
| 176 | 0.74 | 5 | 5 |
| 177 | 0.73 | 5 | 5 |
| 178 | 0.72 | 5 | 5 |
| 179 | 0.71 | 5 | 5 |
| 180 | 0.7 | 5 | 5 |
| 181 | 0.69 | 5 | 5 |
| 182 | 0.68 | 5 | 5 |
| 183 | 0.67 | 5 | 5 |
| 184 | 0.66 | 5 | 5 |
| 185 | 0.65 | 5 | 5 |
| 186 | 0.64 | 5 | 5 |
| 187 | 0.63 | 5 | 5 |
| 188 | 0.62 | 5 | 5 |
| 189 | 0.61 | 5 | 5 |
| 190 | 0.6 | 5 | 5 |
| 191 | 0.59 | 5 | 5 |
| 192 | 0.58 | 5 | 5 |
| 193 | 0.57 | 5 | 5 |
| 194 | 0.56 | 5 | 5 |
| 195 | 0.55 | 5 | 5 |
| 196 | 0.54 | 5 | 5 |
| 197 | 0.53 | 5 | 5 |
| 198 | 0.52 | 5 | 5 |
| 199 | 0.51 | 5 | 5 |
| 200 | 0.5 | 5 | 5 |
| 201 | 0.5 | 5 | 5 |
| 202 | 0.5 | 5 | 5 |
| 203 | 0.5 | 5 | 5 |
| 204 | 0.5 | 5 | 5 |
| 205 | 0.5 | 5 | 5 |
| 206 | 0.5 | 5 | 5 |
| 207 | 0.5 | 5 | 5 |
| 208 | 0.5 | 5 | 5 |
| 209 | 0.5 | 5 | 5 |
| 210 | 0.5 | 5 | 5 |
| 211 | 0.5 | 5 | 5 |
| 212 | 0.5 | 5 | 5 |
| 213 | 0.5 | 5 | 5 |
| 214 | 0.5 | 5 | 5 |
| 215 | 0.5 | 5 | 5 |
| 216 | 0.5 | 5 | 5 |
| 217 | 0.5 | 5 | 5 |
| 218 | 0.5 | 5 | 5 |
| 219 | 0.5 | 5 | 5 |
| 220 | 0.5 | 5 | 5 |
| 221 | 0.5 | 5 | 5 |
| 222 | 0.5 | 5 | 5 |
| 223 | 0.5 | 5 | 5 |
| 224 | 0.49 | 5 | 5 |
| 225 | 0.48 | 5 | 5 |
| 226 | 0.47 | 5 | 5 |
| 227 | 0.46 | 5 | 5 |
| 228 | 0.45 | 5 | 5 |

| | | | |
|-------|-------|---|---|
| 229 | 0.44 | 5 | 5 |
| 230 | 0.43 | 5 | 5 |
| 231 | 0.42 | 5 | 5 |
| 232 | 0.41 | 5 | 5 |
| 233 | 0.4 | 5 | 5 |
| 234 | 0.38 | 5 | 5 |
| 235 | 0.36 | 5 | 5 |
| 236 | 0.34 | 5 | 5 |
| 237 | 0.32 | 5 | 5 |
| 238 | 0.3 | 5 | 5 |
| 239 | 0.28 | 5 | 5 |
| 240 | 0.26 | 5 | 5 |
| 241 | 0.24 | 5 | 5 |
| 242 | 0.22 | 5 | 5 |
| 243 | 0.2 | 5 | 5 |
| 244 | 0.19 | 5 | 5 |
| 244.5 | 0.185 | 5 | 5 |
| 245 | 0.18 | 6 | 6 |
| 245.5 | 0.175 | 6 | 6 |
| 246 | 0.17 | 6 | 6 |
| 247 | 0.16 | 6 | 6 |
| 248 | 0.15 | 6 | 6 |
| 249 | 0.14 | 6 | 6 |
| 250 | 0.13 | 6 | 6 |
| 251 | 0.12 | 6 | 6 |
| 252 | 0.11 | 6 | 6 |
| 253 | 0.1 | 6 | 6 |
| 254 | 0.09 | 6 | 6 |
| 255 | 0.08 | 6 | 6 |
| 256 | 0.07 | 6 | 6 |
| 257 | 0.06 | 6 | 6 |
| 258 | 0.05 | 6 | 6 |
| 259 | 0.04 | 6 | 6 |
| 260 | 0.03 | 6 | 6 |
| 261 | 0.02 | 6 | 6 |
| 262 | 0.01 | 6 | 6 |
| 263 | 0 | 6 | 6 |
| 264 | 0 | 6 | 6 |
| 265 | 0 | 6 | 6 |
| 266 | 0 | 6 | 6 |
| 267 | 0 | 6 | 6 |
| 268 | 0 | 6 | 6 |
| 269 | 0 | 6 | 6 |
| 270 | 0 | 6 | 6 |
| 271 | 0 | 6 | 6 |
| 272 | 0 | 6 | 6 |
| 273 | 0 | 6 | 6 |
| 274 | 0 | 6 | 6 |
| 275 | 0 | 6 | 6 |
| 276 | 0 | 6 | 6 |
| 277 | 0 | 6 | 6 |
| 278 | 0 | 6 | 6 |
| 279 | 0 | 6 | 6 |
| 280 | 0 | 6 | 6 |
| 281 | 0 | 6 | 6 |
| 282 | 0 | 6 | 6 |
| 283 | 0 | 6 | 6 |
| 284 | 0 | 6 | 6 |
| 285 | 0 | 6 | 6 |

| | | | |
|-----|---|---|---|
| 286 | 0 | 6 | 6 |
| 287 | 0 | 6 | 6 |
| 288 | 0 | 6 | 6 |
| 289 | 0 | 6 | 6 |
| 290 | 0 | 6 | 6 |
| 291 | 0 | 6 | 6 |
| 292 | 0 | 6 | 6 |
| 293 | 0 | 6 | 6 |
| 294 | 0 | 6 | 6 |
| 295 | 0 | 6 | 6 |
| 296 | 0 | 6 | 6 |
| 297 | 0 | 6 | 6 |
| 298 | 0 | 6 | 6 |
| 299 | 0 | 6 | 6 |
| 300 | 0 | 6 | 6 |
| 301 | 0 | 6 | 6 |
| 302 | 0 | 6 | 6 |
| 303 | 0 | 6 | 6 |
| 304 | 0 | 6 | 6 |
| 305 | 0 | 6 | 6 |
| 306 | 0 | 6 | 6 |
| 307 | 0 | 6 | 6 |
| 308 | 0 | 6 | 6 |
| 309 | 0 | 6 | 6 |
| 310 | 0 | 6 | 6 |
| 311 | 0 | 6 | 6 |
| 312 | 0 | 6 | 6 |
| 313 | 0 | 6 | 6 |
| 314 | 0 | 6 | 6 |
| 315 | 0 | 6 | 6 |
| 316 | 0 | 6 | 6 |
| 317 | 0 | 6 | 6 |
| 318 | 0 | 6 | 6 |
| 319 | 0 | 6 | 6 |
| 320 | 0 | 6 | 6 |
| 321 | 0 | 6 | 6 |
| 322 | 0 | 6 | 6 |
| 323 | 0 | 6 | 6 |
| 324 | 0 | 6 | 6 |
| 325 | 0 | 6 | 6 |
| 326 | 0 | 6 | 6 |
| 327 | 0 | 6 | 6 |
| 328 | 0 | 6 | 6 |
| 329 | 0 | 6 | 6 |
| 330 | 0 | 6 | 6 |
| 331 | 0 | 6 | 6 |
| 332 | 0 | 6 | 6 |
| 333 | 0 | 6 | 6 |
| 334 | 0 | 6 | 6 |
| 335 | 0 | 6 | 6 |
| 336 | 0 | 6 | 6 |
| 337 | 0 | 6 | 6 |
| 338 | 0 | 6 | 6 |
| 339 | 0 | 6 | 6 |
| 340 | 0 | 6 | 6 |
| 341 | 0 | 6 | 6 |
| 342 | 0 | 6 | 6 |
| 343 | 0 | 6 | 6 |
| 344 | 0 | 6 | 6 |

| | | | |
|-----|---|---|---|
| 345 | 0 | 6 | 6 |
| 346 | 0 | 6 | 6 |
| 347 | 0 | 6 | 6 |
| 348 | 0 | 6 | 6 |
| 349 | 0 | 6 | 6 |
| 350 | 0 | 6 | 6 |
| 351 | 0 | 6 | 6 |
| 352 | 0 | 6 | 6 |
| 353 | 0 | 6 | 6 |
| 354 | 0 | 6 | 6 |
| 355 | 0 | 6 | 6 |
| 356 | 0 | 6 | 6 |
| 357 | 0 | 6 | 6 |
| 358 | 0 | 6 | 6 |
| 359 | 0 | 6 | 6 |
| 360 | 0 | 6 | 6 |

Appendix C.2. Bosque Model Input Data

C-10

CENTRAL SALT CEDAR PROFILE

| depth, cm | R | Material | Layer |
|-----------|---------|----------|-------|
| 0 | 0 | 1 | 1 |
| 0.1 | 0 | 1 | 1 |
| 0.2 | 0 | 1 | 1 |
| 0.3 | 0 | 1 | 1 |
| 0.4 | 0 | 1 | 1 |
| 0.5 | 0 | 1 | 1 |
| 0.6 | 0.25 | 1 | 1 |
| 0.7 | 0.3 | 1 | 1 |
| 0.8 | 0.4 | 1 | 1 |
| 0.9 | 0.45 | 1 | 1 |
| 1 | 0.5 | 1 | 1 |
| 1.2 | 0.6 | 1 | 1 |
| 1.6 | 0.7 | 1 | 1 |
| 2 | 0.8 | 1 | 1 |
| 3 | 0.9 | 1 | 1 |
| 4 | 0.91071 | 1 | 1 |
| 5 | 0.85714 | 1 | 1 |
| 6 | 0.80357 | 1 | 1 |
| 7 | 0.75 | 1 | 1 |
| 8 | 0.69643 | 1 | 1 |
| 9 | 0.73438 | 1 | 1 |
| 10 | 0.77232 | 1 | 1 |
| 11 | 0.81027 | 1 | 1 |
| 12 | 0.84822 | 1 | 1 |
| 13 | 0.88616 | 1 | 1 |
| 14 | 0.92411 | 1 | 1 |
| 15 | 0.96205 | 1 | 1 |
| 16 | 1 | 1 | 1 |
| 17 | 0.9375 | 1 | 1 |
| 18 | 0.875 | 1 | 1 |
| 19 | 0.8125 | 1 | 1 |
| 20 | 0.75 | 1 | 1 |
| 21 | 0.6875 | 1 | 1 |
| 22 | 0.625 | 1 | 1 |
| 23 | 0.5625 | 1 | 1 |
| 24 | 0.5 | 1 | 1 |
| 25 | 0.50446 | 1 | 1 |
| 26 | 0.50893 | 1 | 1 |
| 27 | 0.51339 | 1 | 1 |
| 28 | 0.51786 | 1 | 1 |
| 29 | 0.52232 | 1 | 1 |
| 30 | 0.52679 | 1 | 1 |
| 31 | 0.53125 | 1 | 1 |
| 32 | 0.53571 | 1 | 1 |
| 33 | 0.54241 | 1 | 1 |
| 34 | 0.54911 | 1 | 1 |
| 35 | 0.5558 | 1 | 1 |
| 36 | 0.5625 | 1 | 1 |
| 37 | 0.5692 | 1 | 1 |
| 38 | 0.57589 | 1 | 1 |
| 39 | 0.58259 | 1 | 1 |

R= root density function

CSC Overall Stratigraphy

composite texture 4/11/99

| Depth Interval, cm | Texture | Material |
|--------------------|------------|----------|
| 0 | 60 SiL | 1 |
| 60 | 80 SCL | 2 |
| 80 | 160 SL | 3 |
| 160 | 200 v.f. S | 4 |
| 200 | 300 SCL | 2 |
| 300 | 380 LS | 5 |

v.f. = very fine, S = sand, LS = loamy sand,

SCL = Sandy Clay Loam, SL = sandy loam, SiL = silty loam

CSC Material Hydraulic Properties

| Material | Qr | Qs | Alpha | n | Ks | I |
|----------|--------|--------|--------|--------|-------|-----|
| 1 | 0.059 | 0.3885 | 0.0057 | 2.9667 | 2.98 | 0.5 |
| 2 | 0.06 | 0.39 | 0.0075 | 2.35 | 1 | 0.5 |
| 3 | 0.0445 | 0.3806 | 0.0073 | 2.738 | 1.317 | 0.5 |
| 4 | 0.03 | 0.4055 | 0.0123 | 3.1994 | 172.4 | 0.5 |
| 5 | 0.045 | 0.36 | 0.0115 | 2.775 | 150 | 0.5 |

Qr = residual volumetric water content,

Qs = saturated volumetric water content

Alpha, n & I = van Genuchten parameters

Ks = saturated hydraulic conductivity

| | | | |
|------|---------|---|---|
| 40 | 0.58929 | 1 | 1 |
| 41 | 0.58036 | 1 | 1 |
| 42 | 0.57143 | 1 | 1 |
| 43 | 0.5625 | 1 | 1 |
| 44 | 0.55357 | 1 | 1 |
| 45 | 0.54464 | 1 | 1 |
| 46 | 0.53571 | 1 | 1 |
| 47 | 0.52679 | 1 | 1 |
| 48 | 0.51786 | 1 | 1 |
| 49 | 0.47991 | 1 | 1 |
| 50 | 0.44196 | 1 | 1 |
| 51 | 0.40402 | 1 | 1 |
| 52 | 0.36607 | 1 | 1 |
| 53 | 0.32813 | 1 | 1 |
| 54 | 0.29018 | 1 | 1 |
| 55 | 0.25223 | 1 | 1 |
| 56 | 0.21429 | 1 | 1 |
| 57 | 0.21205 | 1 | 1 |
| 58 | 0.20982 | 1 | 1 |
| 58.5 | 0.20871 | 1 | 1 |
| 59 | 0.20759 | 1 | 1 |
| 59.5 | 0.20647 | 2 | 2 |
| 60 | 0.20536 | 2 | 2 |
| 61 | 0.20313 | 2 | 2 |
| 62 | 0.20089 | 2 | 2 |
| 63 | 0.19866 | 2 | 2 |
| 64 | 0.19643 | 2 | 2 |
| 65 | 0.21429 | 2 | 2 |
| 66 | 0.23214 | 2 | 2 |
| 67 | 0.25 | 2 | 2 |
| 68 | 0.26786 | 2 | 2 |
| 69 | 0.28572 | 2 | 2 |
| 70 | 0.30357 | 2 | 2 |
| 71 | 0.32143 | 2 | 2 |
| 72 | 0.33929 | 2 | 2 |
| 73 | 0.33036 | 2 | 2 |
| 74 | 0.32143 | 2 | 2 |
| 75 | 0.3125 | 2 | 2 |
| 76 | 0.30357 | 2 | 2 |
| 77 | 0.29464 | 2 | 2 |
| 78 | 0.28571 | 2 | 2 |
| 79 | 0.27679 | 2 | 2 |
| 79.5 | 0.27232 | 2 | 2 |
| 80 | 0.26786 | 3 | 3 |
| 80.5 | 0.27121 | 3 | 3 |
| 81 | 0.27455 | 3 | 3 |
| 82 | 0.28125 | 3 | 3 |
| 83 | 0.28795 | 3 | 3 |
| 84 | 0.29464 | 3 | 3 |
| 85 | 0.30134 | 3 | 3 |
| 86 | 0.30804 | 3 | 3 |
| 87 | 0.31473 | 3 | 3 |
| 88 | 0.32143 | 3 | 3 |
| 89 | 0.36607 | 3 | 3 |
| 90 | 0.41072 | 3 | 3 |
| 91 | 0.45536 | 3 | 3 |
| 92 | 0.5 | 3 | 3 |
| 93 | 0.54464 | 3 | 3 |
| 94 | 0.58929 | 3 | 3 |

| | | | |
|-----|---------|---|---|
| 95 | 0.63393 | 3 | 3 |
| 96 | 0.67857 | 3 | 3 |
| 97 | 0.67098 | 3 | 3 |
| 98 | 0.66338 | 3 | 3 |
| 99 | 0.65578 | 3 | 3 |
| 100 | 0.64819 | 3 | 3 |
| 101 | 0.64059 | 3 | 3 |
| 102 | 0.63299 | 3 | 3 |
| 103 | 0.6254 | 3 | 3 |
| 104 | 0.6178 | 3 | 3 |
| 105 | 0.6102 | 3 | 3 |
| 106 | 0.60261 | 3 | 3 |
| 107 | 0.59501 | 3 | 3 |
| 108 | 0.58742 | 3 | 3 |
| 109 | 0.57982 | 3 | 3 |
| 110 | 0.57222 | 3 | 3 |
| 111 | 0.56463 | 3 | 3 |
| 112 | 0.55703 | 3 | 3 |
| 113 | 0.54943 | 3 | 3 |
| 114 | 0.54184 | 3 | 3 |
| 115 | 0.53424 | 3 | 3 |
| 116 | 0.52664 | 3 | 3 |
| 117 | 0.51905 | 3 | 3 |
| 118 | 0.51145 | 3 | 3 |
| 119 | 0.50386 | 3 | 3 |
| 120 | 0.49626 | 3 | 3 |
| 121 | 0.48866 | 3 | 3 |
| 122 | 0.48107 | 3 | 3 |
| 123 | 0.47347 | 3 | 3 |
| 124 | 0.46587 | 3 | 3 |
| 125 | 0.45828 | 3 | 3 |
| 126 | 0.45068 | 3 | 3 |
| 127 | 0.44308 | 3 | 3 |
| 128 | 0.43549 | 3 | 3 |
| 129 | 0.42789 | 3 | 3 |
| 130 | 0.4203 | 3 | 3 |
| 131 | 0.4127 | 3 | 3 |
| 132 | 0.4051 | 3 | 3 |
| 133 | 0.39751 | 3 | 3 |
| 134 | 0.38991 | 3 | 3 |
| 135 | 0.38231 | 3 | 3 |
| 136 | 0.37472 | 3 | 3 |
| 137 | 0.36712 | 3 | 3 |
| 138 | 0.35952 | 3 | 3 |
| 139 | 0.35193 | 3 | 3 |
| 140 | 0.34433 | 3 | 3 |
| 141 | 0.33674 | 3 | 3 |
| 142 | 0.32914 | 3 | 3 |
| 143 | 0.32154 | 3 | 3 |
| 144 | 0.31395 | 3 | 3 |
| 145 | 0.30635 | 3 | 3 |
| 146 | 0.29875 | 3 | 3 |
| 147 | 0.29116 | 3 | 3 |
| 148 | 0.28356 | 3 | 3 |
| 149 | 0.27596 | 3 | 3 |
| 150 | 0.26837 | 3 | 3 |
| 151 | 0.26077 | 3 | 3 |
| 152 | 0.25318 | 3 | 3 |
| 153 | 0.24558 | 3 | 3 |

| | | | |
|-------|---------|---|---|
| 154 | 0.23798 | 3 | 3 |
| 155 | 0.23039 | 3 | 3 |
| 156 | 0.22279 | 3 | 3 |
| 157 | 0.21519 | 3 | 3 |
| 158 | 0.2076 | 3 | 3 |
| 158.5 | 0.2038 | 3 | 3 |
| 159 | 0.2 | 3 | 3 |
| 160.5 | 0.2 | 4 | 4 |
| 160 | 0.2 | 4 | 4 |
| 161 | 0.21 | 4 | 4 |
| 162 | 0.22 | 4 | 4 |
| 163 | 0.23 | 4 | 4 |
| 164 | 0.24 | 4 | 4 |
| 165 | 0.25 | 4 | 4 |
| 166 | 0.26 | 4 | 4 |
| 167 | 0.27 | 4 | 4 |
| 168 | 0.28 | 4 | 4 |
| 169 | 0.29 | 4 | 4 |
| 170 | 0.3 | 4 | 4 |
| 171 | 0.3 | 4 | 4 |
| 172 | 0.295 | 4 | 4 |
| 173 | 0.29 | 4 | 4 |
| 174 | 0.285 | 4 | 4 |
| 175 | 0.28 | 4 | 4 |
| 176 | 0.275 | 4 | 4 |
| 177 | 0.27 | 4 | 4 |
| 178 | 0.265 | 4 | 4 |
| 179 | 0.26 | 4 | 4 |
| 180 | 0.255 | 4 | 4 |
| 181 | 0.25 | 4 | 4 |
| 182 | 0.245 | 4 | 4 |
| 183 | 0.24 | 4 | 4 |
| 184 | 0.235 | 4 | 4 |
| 185 | 0.23 | 4 | 4 |
| 186 | 0.225 | 4 | 4 |
| 187 | 0.22 | 4 | 4 |
| 188 | 0.215 | 4 | 4 |
| 189 | 0.21 | 4 | 4 |
| 190 | 0.205 | 4 | 4 |
| 191 | 0.2 | 4 | 4 |
| 192 | 0.195 | 4 | 4 |
| 193 | 0.19 | 4 | 4 |
| 194 | 0.185 | 4 | 4 |
| 195 | 0.18 | 4 | 4 |
| 196 | 0.175 | 4 | 4 |
| 197 | 0.17 | 4 | 4 |
| 198 | 0.165 | 4 | 4 |
| 199 | 0.16 | 4 | 4 |
| 199.5 | 0.1575 | 4 | 4 |
| 200 | 0.155 | 2 | 5 |
| 200.5 | 0.1525 | 2 | 5 |
| 201 | 0.1475 | 2 | 5 |
| 202 | 0.1425 | 2 | 5 |
| 203 | 0.1375 | 2 | 5 |
| 204 | 0.1325 | 2 | 5 |
| 205 | 0.1275 | 2 | 5 |
| 206 | 0.1225 | 2 | 5 |
| 207 | 0.1175 | 2 | 5 |
| 208 | 0.1125 | 2 | 5 |

| | | | |
|-----|--------|---|---|
| 209 | 0.1075 | 2 | 5 |
| 210 | 0.1025 | 2 | 5 |
| 211 | 0.0975 | 2 | 5 |
| 212 | 0.0925 | 2 | 5 |
| 213 | 0.0875 | 2 | 5 |
| 214 | 0.0825 | 2 | 5 |
| 215 | 0.0775 | 2 | 5 |
| 216 | 0.0725 | 2 | 5 |
| 217 | 0.0675 | 2 | 5 |
| 218 | 0.0625 | 2 | 5 |
| 219 | 0.0585 | 2 | 5 |
| 220 | 0.0555 | 2 | 5 |
| 221 | 0.0535 | 2 | 5 |
| 222 | 0.0525 | 2 | 5 |
| 223 | 0.0515 | 2 | 5 |
| 224 | 0.0505 | 2 | 5 |
| 225 | 0.0495 | 2 | 5 |
| 226 | 0.0485 | 2 | 5 |
| 227 | 0.0475 | 2 | 5 |
| 228 | 0.0465 | 2 | 5 |
| 229 | 0.0455 | 2 | 5 |
| 230 | 0.0445 | 2 | 5 |
| 231 | 0.0435 | 2 | 5 |
| 232 | 0.0425 | 2 | 5 |
| 233 | 0.0415 | 2 | 5 |
| 234 | 0.0405 | 2 | 5 |
| 235 | 0.0395 | 2 | 5 |
| 236 | 0.0385 | 2 | 5 |
| 237 | 0.0375 | 2 | 5 |
| 238 | 0.0365 | 2 | 5 |
| 239 | 0.0355 | 2 | 5 |
| 240 | 0.0345 | 2 | 5 |
| 241 | 0.0335 | 2 | 5 |
| 242 | 0.0325 | 2 | 5 |
| 243 | 0.0315 | 2 | 5 |
| 244 | 0.0305 | 2 | 5 |
| 245 | 0.0295 | 2 | 5 |
| 246 | 0.0285 | 2 | 5 |
| 247 | 0.0275 | 2 | 5 |
| 248 | 0.0265 | 2 | 5 |
| 249 | 0.0255 | 2 | 5 |
| 250 | 0.0245 | 2 | 5 |
| 251 | 0.0235 | 2 | 5 |
| 252 | 0.0225 | 2 | 5 |
| 253 | 0.0215 | 2 | 5 |
| 254 | 0.0205 | 2 | 5 |
| 255 | 0.0195 | 2 | 5 |
| 256 | 0.0185 | 2 | 5 |
| 257 | 0.0175 | 2 | 5 |
| 258 | 0.0165 | 2 | 5 |
| 259 | 0.0155 | 2 | 5 |
| 260 | 0.0145 | 2 | 5 |
| 261 | 0.0135 | 2 | 5 |
| 262 | 0.0125 | 2 | 5 |
| 263 | 0.0115 | 2 | 5 |
| 264 | 0.0105 | 2 | 5 |
| 265 | 0.01 | 2 | 5 |
| 266 | 0.01 | 2 | 5 |
| 267 | 0.01 | 2 | 5 |

| | | | |
|-------|-------|---|---|
| 268 | 0.01 | 2 | 5 |
| 269 | 0.01 | 2 | 5 |
| 270 | 0.01 | 2 | 5 |
| 271 | 0.007 | 2 | 5 |
| 272 | 0.004 | 2 | 5 |
| 273 | 0.001 | 2 | 5 |
| 274 | 0 | 2 | 5 |
| 275 | 0 | 2 | 5 |
| 276 | 0 | 2 | 5 |
| 277 | 0 | 2 | 5 |
| 278 | 0 | 2 | 5 |
| 279 | 0 | 2 | 5 |
| 280 | 0 | 2 | 5 |
| 281 | 0 | 2 | 5 |
| 282 | 0 | 2 | 5 |
| 283 | 0 | 2 | 5 |
| 284 | 0 | 2 | 5 |
| 285 | 0 | 2 | 5 |
| 286 | 0 | 2 | 5 |
| 287 | 0 | 2 | 5 |
| 288 | 0 | 2 | 5 |
| 289 | 0 | 2 | 5 |
| 290 | 0 | 2 | 5 |
| 291 | 0 | 2 | 5 |
| 292 | 0 | 2 | 5 |
| 293 | 0 | 2 | 5 |
| 294 | 0 | 2 | 5 |
| 295 | 0 | 2 | 5 |
| 296 | 0 | 2 | 5 |
| 297 | 0 | 2 | 5 |
| 298 | 0 | 2 | 5 |
| 299 | 0 | 2 | 5 |
| 299.5 | 0 | 3 | 5 |
| 300 | 0 | 5 | 6 |
| 300.5 | 0 | 5 | 6 |
| 301 | 0 | 5 | 6 |
| 302 | 0 | 5 | 6 |
| 303 | 0 | 5 | 6 |
| 304 | 0 | 5 | 6 |
| 305 | 0 | 5 | 6 |
| 306 | 0 | 5 | 6 |
| 307 | 0 | 5 | 6 |
| 308 | 0 | 5 | 6 |
| 309 | 0 | 5 | 6 |
| 310 | 0 | 5 | 7 |
| 311 | 0 | 5 | 7 |
| 312 | 0 | 5 | 7 |
| 313 | 0 | 5 | 7 |
| 314 | 0 | 5 | 7 |
| 315 | 0 | 5 | 7 |
| 316 | 0 | 5 | 7 |
| 317 | 0 | 5 | 7 |
| 318 | 0 | 5 | 7 |
| 319 | 0 | 5 | 7 |
| 320 | 0 | 5 | 7 |
| 321 | 0 | 5 | 7 |
| 322 | 0 | 5 | 7 |
| 323 | 0 | 5 | 7 |
| 324 | 0 | 5 | 7 |

| | | | |
|-----|---|---|---|
| 325 | 0 | 5 | 7 |
| 326 | 0 | 5 | 7 |
| 327 | 0 | 5 | 7 |
| 328 | 0 | 5 | 7 |
| 329 | 0 | 5 | 7 |
| 330 | 0 | 5 | 7 |
| 331 | 0 | 5 | 7 |
| 332 | 0 | 5 | 7 |
| 333 | 0 | 5 | 7 |
| 334 | 0 | 5 | 7 |
| 335 | 0 | 5 | 7 |
| 336 | 0 | 5 | 7 |
| 337 | 0 | 5 | 7 |
| 338 | 0 | 5 | 7 |
| 339 | 0 | 5 | 7 |
| 340 | 0 | 5 | 7 |
| 341 | 0 | 5 | 7 |
| 342 | 0 | 5 | 7 |
| 343 | 0 | 5 | 7 |
| 344 | 0 | 5 | 7 |
| 345 | 0 | 5 | 7 |
| 346 | 0 | 5 | 7 |
| 347 | 0 | 5 | 7 |
| 348 | 0 | 5 | 7 |
| 349 | 0 | 5 | 7 |
| 350 | 0 | 5 | 7 |

Appendix C.3. Bosque Model Input Data

C-17

SOUTH SALT CEDAR PROFILE

| depth, cm | R | Material | Layer |
|-----------|-------|----------|-------|
| 0 | 0 | 1 | 1 |
| 0.1 | 0.1 | 1 | 1 |
| 0.2 | 0.2 | 1 | 1 |
| 0.3 | 0.3 | 1 | 1 |
| 0.4 | 0.4 | 1 | 1 |
| 0.5 | 0.5 | 1 | 1 |
| 0.6 | 0.6 | 1 | 1 |
| 0.7 | 0.7 | 1 | 1 |
| 0.8 | 0.8 | 1 | 1 |
| 0.9 | 0.9 | 1 | 1 |
| 1 | 1 | 1 | 1 |
| 1.2 | 1 | 1 | 1 |
| 1.6 | 1 | 1 | 1 |
| 2 | 1 | 1 | 1 |
| 3 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 |
| 5 | 0.967 | 1 | 1 |
| 6 | 0.933 | 1 | 1 |
| 7 | 0.9 | 1 | 1 |
| 8 | 0.867 | 1 | 1 |
| 9 | 0.831 | 1 | 1 |
| 10 | 0.795 | 1 | 1 |
| 11 | 0.759 | 1 | 1 |
| 12 | 0.723 | 1 | 1 |
| 13 | 0.687 | 1 | 1 |
| 14 | 0.651 | 1 | 1 |
| 15 | 0.615 | 1 | 1 |
| 16 | 0.579 | 1 | 1 |
| 17 | 0.583 | 1 | 1 |
| 18 | 0.588 | 1 | 1 |
| 19 | 0.592 | 1 | 1 |
| 20 | 0.597 | 1 | 1 |
| 21 | 0.601 | 1 | 1 |
| 22 | 0.605 | 1 | 1 |
| 23 | 0.61 | 1 | 1 |
| 24 | 0.614 | 1 | 1 |
| 24.5 | 0.609 | 1 | 1 |
| 25 | 0.604 | 2 | 2 |
| 25.5 | 0.599 | 2 | 2 |
| 26 | 0.594 | 2 | 2 |
| 27 | 0.584 | 2 | 2 |
| 28 | 0.574 | 2 | 2 |
| 29 | 0.564 | 2 | 2 |
| 30 | 0.554 | 2 | 2 |
| 31 | 0.544 | 2 | 2 |
| 32 | 0.534 | 2 | 2 |
| 33 | 0.521 | 2 | 2 |
| 34 | 0.507 | 2 | 2 |
| 35 | 0.494 | 2 | 2 |
| 36 | 0.48 | 2 | 2 |
| 37 | 0.467 | 2 | 2 |
| 38 | 0.453 | 2 | 2 |

R= root density function

SSC Overall Stratigraphy

composite horizon

| Depth Interval, cm | Texture | Material |
|--------------------|----------|----------|
| 0 | 25 SiCL | 1 |
| 25 | 70 SL | 2 |
| 70 | 120 SCL | 3 |
| 120 | 215 SL | 2 |
| 215 | 250 Clay | 4 |
| 250 | 290 f. S | 5 |
| 290 | 350 SiCL | 1 |
| 350 | 400 S | 6 |

f. = fine, S = sand, SL = sandy loam, SiCL = silty clay loam
SCL = Sandy Clay Loam, SiL = silty loam, C = clay

SSC Material Hydraulic Properties

| Material | Qr | Qs | Alpha | n | Ks | l |
|----------|--------|--------|--------|-------|-------|-----|
| 1 | 0.059 | 0.39 | 0.0057 | 2.967 | 5.298 | 0.5 |
| 2 | 0.0213 | 0.4542 | 0.0082 | 3.116 | 71.17 | 0.5 |
| 3 | 0.0445 | 0.38 | 0.0073 | 2.738 | 1.317 | 0.5 |
| 4 | 0.05 | 0.4 | 0.0057 | 2.6 | 0.5 | 0.5 |
| 5 | 0.03 | 0.4055 | 0.0123 | 3.199 | 172.4 | 0.5 |
| 6 | 0.03 | 0.38 | 0.0138 | 3.816 | 350 | 0.5 |

Qr = residual volumetric water content,

Qs = saturated volumetric water content

Alpha, n & l = van Genuchten parameters

Ks = saturated hydraulic conductivity

| | | | |
|------|-------|---|---|
| 39 | 0.44 | 2 | 2 |
| 40 | 0.426 | 2 | 2 |
| 41 | 0.429 | 2 | 2 |
| 42 | 0.431 | 2 | 2 |
| 43 | 0.433 | 2 | 2 |
| 44 | 0.435 | 2 | 2 |
| 45 | 0.437 | 2 | 2 |
| 46 | 0.439 | 2 | 2 |
| 47 | 0.441 | 2 | 2 |
| 48 | 0.443 | 2 | 2 |
| 49 | 0.425 | 2 | 2 |
| 50 | 0.408 | 2 | 2 |
| 51 | 0.39 | 2 | 2 |
| 52 | 0.372 | 2 | 2 |
| 53 | 0.355 | 2 | 2 |
| 54 | 0.337 | 2 | 2 |
| 55 | 0.32 | 2 | 2 |
| 56 | 0.302 | 2 | 2 |
| 57 | 0.309 | 2 | 2 |
| 58 | 0.317 | 2 | 2 |
| 59 | 0.325 | 2 | 2 |
| 60 | 0.332 | 2 | 2 |
| 61 | 0.34 | 2 | 2 |
| 62 | 0.348 | 2 | 2 |
| 63 | 0.355 | 2 | 2 |
| 64 | 0.363 | 2 | 2 |
| 65 | 0.368 | 2 | 2 |
| 66 | 0.372 | 2 | 2 |
| 67 | 0.377 | 2 | 2 |
| 68 | 0.382 | 2 | 2 |
| 69 | 0.387 | 2 | 2 |
| 69.5 | 0.389 | 2 | 2 |
| 70 | 0.392 | 3 | 3 |
| 70.5 | 0.394 | 3 | 3 |
| 71 | 0.397 | 3 | 3 |
| 72 | 0.402 | 3 | 3 |
| 73 | 0.388 | 3 | 3 |
| 74 | 0.374 | 3 | 3 |
| 75 | 0.36 | 3 | 3 |
| 76 | 0.346 | 3 | 3 |
| 77 | 0.332 | 3 | 3 |
| 78 | 0.318 | 3 | 3 |
| 79 | 0.305 | 3 | 3 |
| 80 | 0.291 | 3 | 3 |
| 81 | 0.283 | 3 | 3 |
| 82 | 0.276 | 3 | 3 |
| 83 | 0.269 | 3 | 3 |
| 84 | 0.261 | 3 | 3 |
| 85 | 0.254 | 3 | 3 |
| 86 | 0.246 | 3 | 3 |
| 87 | 0.239 | 3 | 3 |
| 88 | 0.232 | 3 | 3 |
| 89 | 0.216 | 3 | 3 |
| 90 | 0.201 | 3 | 3 |
| 91 | 0.186 | 3 | 3 |
| 92 | 0.171 | 3 | 3 |
| 93 | 0.156 | 3 | 3 |
| 94 | 0.141 | 3 | 3 |
| 95 | 0.126 | 3 | 3 |

| | | | |
|-------|-------|---|---|
| 96 | 0.111 | 3 | 3 |
| 97 | 0.126 | 3 | 3 |
| 98 | 0.141 | 3 | 3 |
| 99 | 0.156 | 3 | 3 |
| 100 | 0.171 | 3 | 3 |
| 101 | 0.186 | 3 | 3 |
| 102 | 0.201 | 3 | 3 |
| 103 | 0.216 | 3 | 3 |
| 104 | 0.232 | 3 | 3 |
| 105 | 0.227 | 3 | 3 |
| 106 | 0.223 | 3 | 3 |
| 107 | 0.219 | 3 | 3 |
| 108 | 0.215 | 3 | 3 |
| 109 | 0.211 | 3 | 3 |
| 110 | 0.207 | 3 | 3 |
| 111 | 0.203 | 3 | 3 |
| 112 | 0.199 | 3 | 3 |
| 113 | 0.204 | 3 | 3 |
| 114 | 0.208 | 3 | 3 |
| 115 | 0.212 | 3 | 3 |
| 116 | 0.217 | 3 | 3 |
| 117 | 0.221 | 3 | 3 |
| 118 | 0.225 | 3 | 3 |
| 119 | 0.229 | 3 | 3 |
| 119.5 | 0.232 | 3 | 3 |
| 120 | 0.234 | 2 | 4 |
| 120.5 | 0.247 | 2 | 4 |
| 121 | 0.26 | 2 | 4 |
| 122 | 0.286 | 2 | 4 |
| 123 | 0.312 | 2 | 4 |
| 124 | 0.338 | 2 | 4 |
| 125 | 0.365 | 2 | 4 |
| 126 | 0.391 | 2 | 4 |
| 127 | 0.417 | 2 | 4 |
| 128 | 0.443 | 2 | 4 |
| 129 | 0.442 | 2 | 4 |
| 130 | 0.442 | 2 | 4 |
| 131 | 0.441 | 2 | 4 |
| 132 | 0.44 | 2 | 4 |
| 133 | 0.44 | 2 | 4 |
| 134 | 0.439 | 2 | 4 |
| 135 | 0.438 | 2 | 4 |
| 136 | 0.438 | 2 | 4 |
| 137 | 0.426 | 2 | 4 |
| 138 | 0.414 | 2 | 4 |
| 139 | 0.402 | 2 | 4 |
| 140 | 0.39 | 2 | 4 |
| 141 | 0.379 | 2 | 4 |
| 142 | 0.367 | 2 | 4 |
| 143 | 0.355 | 2 | 4 |
| 144 | 0.343 | 2 | 4 |
| 145 | 0.347 | 2 | 4 |
| 146 | 0.35 | 2 | 4 |
| 147 | 0.353 | 2 | 4 |
| 148 | 0.356 | 2 | 4 |
| 149 | 0.359 | 2 | 4 |
| 150 | 0.362 | 2 | 4 |
| 151 | 0.365 | 2 | 4 |
| 152 | 0.368 | 2 | 4 |

| | | | |
|-----|-------|---|---|
| 153 | 0.366 | 2 | 4 |
| 154 | 0.363 | 2 | 4 |
| 155 | 0.36 | 2 | 4 |
| 156 | 0.358 | 2 | 4 |
| 157 | 0.355 | 2 | 4 |
| 158 | 0.352 | 2 | 4 |
| 159 | 0.35 | 2 | 4 |
| 160 | 0.347 | 2 | 4 |
| 161 | 0.344 | 2 | 4 |
| 162 | 0.342 | 2 | 4 |
| 163 | 0.339 | 2 | 4 |
| 164 | 0.336 | 2 | 4 |
| 165 | 0.334 | 2 | 4 |
| 166 | 0.331 | 2 | 4 |
| 167 | 0.328 | 2 | 4 |
| 168 | 0.326 | 2 | 4 |
| 169 | 0.323 | 2 | 4 |
| 170 | 0.32 | 2 | 4 |
| 171 | 0.317 | 2 | 4 |
| 172 | 0.315 | 2 | 4 |
| 173 | 0.312 | 2 | 4 |
| 174 | 0.309 | 2 | 4 |
| 175 | 0.307 | 2 | 4 |
| 176 | 0.304 | 2 | 4 |
| 177 | 0.301 | 2 | 4 |
| 178 | 0.299 | 2 | 4 |
| 179 | 0.296 | 2 | 4 |
| 180 | 0.293 | 2 | 4 |
| 181 | 0.291 | 2 | 4 |
| 182 | 0.288 | 2 | 4 |
| 183 | 0.285 | 2 | 4 |
| 184 | 0.283 | 2 | 4 |
| 185 | 0.28 | 2 | 4 |
| 186 | 0.277 | 2 | 4 |
| 187 | 0.275 | 2 | 4 |
| 188 | 0.272 | 2 | 4 |
| 189 | 0.269 | 2 | 4 |
| 190 | 0.267 | 2 | 4 |
| 191 | 0.258 | 2 | 4 |
| 192 | 0.25 | 2 | 4 |
| 193 | 0.242 | 2 | 4 |
| 194 | 0.233 | 2 | 4 |
| 195 | 0.225 | 2 | 4 |
| 196 | 0.223 | 2 | 4 |
| 197 | 0.221 | 2 | 4 |
| 198 | 0.219 | 2 | 4 |
| 199 | 0.216 | 2 | 4 |
| 200 | 0.214 | 2 | 4 |
| 201 | 0.212 | 2 | 4 |
| 202 | 0.21 | 2 | 4 |
| 203 | 0.208 | 2 | 4 |
| 204 | 0.206 | 2 | 4 |
| 205 | 0.204 | 2 | 4 |
| 206 | 0.201 | 2 | 4 |
| 207 | 0.199 | 2 | 4 |
| 208 | 0.197 | 2 | 4 |
| 209 | 0.195 | 2 | 4 |
| 210 | 0.193 | 2 | 4 |
| 211 | 0.191 | 2 | 4 |

| | | | |
|-------|-------|---|---|
| 212 | 0.189 | 2 | 4 |
| 213 | 0.186 | 2 | 4 |
| 214 | 0.184 | 2 | 4 |
| 214.5 | 0.183 | 2 | 4 |
| 215 | 0.182 | 4 | 5 |
| 215.5 | 0.181 | 4 | 5 |
| 216 | 0.18 | 4 | 5 |
| 217 | 0.16 | 4 | 5 |
| 218 | 0.156 | 4 | 5 |
| 219 | 0.152 | 4 | 5 |
| 220 | 0.148 | 4 | 5 |
| 221 | 0.144 | 4 | 5 |
| 222 | 0.14 | 4 | 5 |
| 223 | 0.136 | 4 | 5 |
| 224 | 0.132 | 4 | 5 |
| 225 | 0.128 | 4 | 5 |
| 226 | 0.124 | 4 | 5 |
| 227 | 0.12 | 4 | 5 |
| 228 | 0.116 | 4 | 5 |
| 229 | 0.112 | 4 | 5 |
| 230 | 0.108 | 4 | 5 |
| 231 | 0.104 | 4 | 5 |
| 232 | 0.1 | 4 | 5 |
| 233 | 0.096 | 4 | 5 |
| 234 | 0.092 | 4 | 5 |
| 235 | 0.088 | 4 | 5 |
| 236 | 0.084 | 4 | 5 |
| 237 | 0.08 | 4 | 5 |
| 238 | 0.076 | 4 | 5 |
| 239 | 0.072 | 4 | 5 |
| 240 | 0.068 | 4 | 5 |
| 241 | 0.064 | 4 | 5 |
| 242 | 0.06 | 4 | 5 |
| 243 | 0.056 | 4 | 5 |
| 244 | 0.052 | 4 | 5 |
| 245 | 0.048 | 4 | 5 |
| 246 | 0.044 | 4 | 5 |
| 247 | 0.04 | 4 | 5 |
| 248 | 0.036 | 4 | 5 |
| 249 | 0.032 | 4 | 5 |
| 249.5 | 0.03 | 4 | 5 |
| 250 | 0.028 | 4 | 5 |
| 250.5 | 0.026 | 5 | 6 |
| 251 | 0.024 | 5 | 6 |
| 252 | 0.02 | 5 | 6 |
| 253 | 0.016 | 5 | 6 |
| 254 | 0.012 | 5 | 6 |
| 255 | 0.008 | 5 | 6 |
| 256 | 0.004 | 5 | 6 |
| 257 | 0 | 5 | 6 |
| 258 | 0 | 5 | 6 |
| 259 | 0 | 5 | 6 |
| 260 | 0 | 5 | 6 |
| 261 | 0 | 5 | 6 |
| 262 | 0 | 5 | 6 |
| 263 | 0 | 5 | 6 |
| 264 | 0 | 5 | 6 |
| 265 | 0 | 5 | 6 |
| 266 | 0 | 5 | 6 |

| | | | |
|-------|---|---|---|
| 267 | 0 | 5 | 6 |
| 268 | 0 | 5 | 6 |
| 269 | 0 | 5 | 6 |
| 270 | 0 | 5 | 6 |
| 271 | 0 | 5 | 6 |
| 272 | 0 | 5 | 6 |
| 273 | 0 | 5 | 6 |
| 274 | 0 | 5 | 6 |
| 275 | 0 | 5 | 6 |
| 276 | 0 | 5 | 6 |
| 277 | 0 | 5 | 6 |
| 278 | 0 | 5 | 6 |
| 279 | 0 | 5 | 6 |
| 280 | 0 | 5 | 6 |
| 281 | 0 | 5 | 6 |
| 282 | 0 | 5 | 6 |
| 283 | 0 | 5 | 6 |
| 284 | 0 | 5 | 6 |
| 285 | 0 | 5 | 6 |
| 286 | 0 | 5 | 6 |
| 287 | 0 | 5 | 6 |
| 288 | 0 | 5 | 6 |
| 289 | 0 | 5 | 6 |
| 289.5 | 0 | 5 | 6 |
| 290 | 0 | 1 | 7 |
| 290.5 | 0 | 1 | 7 |
| 291 | 0 | 1 | 7 |
| 292 | 0 | 1 | 7 |
| 293 | 0 | 1 | 7 |
| 294 | 0 | 1 | 7 |
| 295 | 0 | 1 | 7 |
| 296 | 0 | 1 | 7 |
| 297 | 0 | 1 | 7 |
| 298 | 0 | 1 | 7 |
| 299 | 0 | 1 | 7 |
| 300 | 0 | 1 | 7 |
| 301 | 0 | 1 | 7 |
| 302 | 0 | 1 | 7 |
| 303 | 0 | 1 | 7 |
| 304 | 0 | 1 | 7 |
| 305 | 0 | 1 | 7 |
| 306 | 0 | 1 | 7 |
| 307 | 0 | 1 | 7 |
| 308 | 0 | 1 | 7 |
| 309 | 0 | 1 | 7 |
| 310 | 0 | 1 | 7 |
| 311 | 0 | 1 | 7 |
| 312 | 0 | 1 | 7 |
| 313 | 0 | 1 | 7 |
| 314 | 0 | 1 | 7 |
| 315 | 0 | 1 | 7 |
| 316 | 0 | 1 | 7 |
| 317 | 0 | 1 | 7 |
| 318 | 0 | 1 | 7 |
| 319 | 0 | 1 | 7 |
| 320 | 0 | 1 | 7 |
| 321 | 0 | 1 | 7 |
| 322 | 0 | 1 | 7 |
| 323 | 0 | 1 | 7 |

| | | | |
|-------|---|---|---|
| 324 | 0 | 1 | 7 |
| 325 | 0 | 1 | 7 |
| 326 | 0 | 1 | 7 |
| 327 | 0 | 1 | 7 |
| 328 | 0 | 1 | 7 |
| 329 | 0 | 1 | 7 |
| 330 | 0 | 1 | 7 |
| 331 | 0 | 1 | 7 |
| 332 | 0 | 1 | 7 |
| 333 | 0 | 1 | 7 |
| 334 | 0 | 1 | 7 |
| 335 | 0 | 1 | 7 |
| 336 | 0 | 1 | 7 |
| 337 | 0 | 1 | 7 |
| 338 | 0 | 1 | 7 |
| 339 | 0 | 1 | 7 |
| 340 | 0 | 1 | 7 |
| 341 | 0 | 1 | 7 |
| 342 | 0 | 1 | 7 |
| 343 | 0 | 1 | 7 |
| 344 | 0 | 1 | 7 |
| 345 | 0 | 1 | 7 |
| 346 | 0 | 1 | 7 |
| 347 | 0 | 1 | 7 |
| 348 | 0 | 1 | 7 |
| 349 | 0 | 1 | 7 |
| 349.5 | 0 | 1 | 7 |
| 350 | 0 | 6 | 8 |
| 350.5 | 0 | 6 | 8 |
| 351 | 0 | 6 | 8 |
| 352 | 0 | 6 | 8 |
| 353 | 0 | 6 | 8 |
| 354 | 0 | 6 | 8 |
| 355 | 0 | 6 | 8 |
| 356 | 0 | 6 | 8 |
| 357 | 0 | 6 | 8 |
| 358 | 0 | 6 | 8 |
| 359 | 0 | 6 | 8 |
| 360 | 0 | 6 | 8 |
| 361 | 0 | 6 | 8 |
| 362 | 0 | 6 | 8 |
| 363 | 0 | 6 | 8 |
| 364 | 0 | 6 | 8 |
| 365 | 0 | 6 | 8 |
| 366 | 0 | 6 | 8 |
| 367 | 0 | 6 | 8 |
| 368 | 0 | 6 | 8 |
| 369 | 0 | 6 | 8 |
| 370 | 0 | 6 | 8 |
| 371 | 0 | 6 | 8 |
| 372 | 0 | 6 | 8 |
| 373 | 0 | 6 | 8 |
| 374 | 0 | 6 | 8 |
| 375 | 0 | 6 | 8 |
| 376 | 0 | 6 | 8 |
| 377 | 0 | 6 | 8 |
| 378 | 0 | 6 | 8 |
| 379 | 0 | 6 | 8 |
| 380 | 0 | 6 | 8 |

| | | | |
|-----|---|---|---|
| 381 | 0 | 6 | 8 |
| 382 | 0 | 6 | 8 |
| 383 | 0 | 6 | 8 |
| 384 | 0 | 6 | 8 |
| 385 | 0 | 6 | 8 |
| 386 | 0 | 6 | 8 |
| 387 | 0 | 6 | 8 |
| 388 | 0 | 6 | 8 |
| 389 | 0 | 6 | 8 |
| 390 | 0 | 6 | 8 |
| 391 | 0 | 6 | 8 |
| 392 | 0 | 6 | 8 |
| 393 | 0 | 6 | 8 |
| 394 | 0 | 6 | 8 |
| 395 | 0 | 6 | 8 |
| 396 | 0 | 6 | 8 |
| 397 | 0 | 6 | 8 |
| 398 | 0 | 6 | 8 |
| 399 | 0 | 6 | 8 |
| 400 | 0 | 6 | 8 |

Appendix C.4. Bosque Model Input Data

C-25

BOSQUE MODELS WEATHER INPUT

| Day | Precipitation | Potential | hCrit | Reference Transpiration [cm] | |
|-----|---------------|------------------|--------|------------------------------|------------|
| | [cm] | Evaporation [cm] | | Saltcedar | Cottonwood |
| 1 | 0 | 0.588 | 100000 | 0 | 0 |
| 2 | 0 | 0.756 | 100000 | 0 | 0 |
| 3 | 0.6096 | 0.28 | 100000 | 0 | 0 |
| 4 | 0.1016 | 0.252 | 100000 | 0 | 0 |
| 5 | 0 | 0.504 | 100000 | 0 | 0 |
| 6 | 0 | 0.672 | 100000 | 0 | 0 |
| 7 | 0 | 0.812 | 100000 | 0 | 0 |
| 8 | 0 | 0.812 | 100000 | 0 | 0 |
| 9 | 0 | 0.812 | 100000 | 0 | 0 |
| 10 | 0 | 0.756 | 100000 | 0 | 0 |
| 11 | 0 | 0.588 | 100000 | 0 | 0 |
| 12 | 0.5842 | 0.448 | 100000 | 0 | 0 |
| 13 | 0.0254 | 0.672 | 100000 | 0 | 0 |
| 14 | 0 | 0.756 | 100000 | 0 | 0 |
| 15 | 0 | 0.84 | 100000 | 0 | 0 |
| 16 | 0 | 0.812 | 100000 | 0 | 0 |
| 17 | 0 | 1.036 | 100000 | 0 | 0 |
| 18 | 0 | 1.008 | 100000 | 0 | 0 |
| 19 | 0 | 0.476 | 100000 | 0 | 0 |
| 20 | 0 | 0.2286 | 100000 | 0 | 0 |
| 21 | 0 | 0.588 | 100000 | 0 | 0 |
| 22 | 0 | 0.7 | 100000 | 0 | 0 |
| 23 | 0 | 0.868 | 100000 | 0.12414 | 0.062 |
| 24 | 0 | 0.98 | 100000 | 0.13205 | 0.12 |
| 25 | 0 | 0.784 | 100000 | 0.11236 | 0.1027 |
| 26 | 0 | 1.064 | 100000 | 0.12349 | 0.2313 |
| 27 | 0 | 0.868 | 100000 | 0.18013 | 0.1722 |
| 28 | 0 | 0.84 | 100000 | 0.08659 | 0.1569 |
| 29 | 0 | 0.98 | 100000 | 0.11324 | 0.1527 |
| 30 | 0 | 0.84 | 100000 | 0.11402 | 0.133 |
| 31 | 0 | 1.008 | 100000 | 0.17232 | 0.1964 |
| 32 | 0 | 0.84 | 100000 | 0.20876 | 0.2133 |
| 33 | 0 | 0.812 | 100000 | 0.10786 | 0.083 |
| 34 | 0 | 0.784 | 100000 | 0.13531 | 0.1593 |
| 35 | 0 | 0.812 | 100000 | 0.17341 | 0.2436 |
| 36 | 0 | 0.924 | 100000 | 0.11871 | 0.0912 |
| 37 | 0 | 1.008 | 100000 | 0.18895 | 0.1555 |
| 38 | 0 | 1.008 | 100000 | 0.14583 | 0.1398 |
| 39 | 0 | 1.232 | 100000 | 0.22332 | 0.2325 |
| 40 | 0 | 1.26 | 100000 | 0.21523 | 0.2779 |
| 41 | 0 | 0.616 | 100000 | 0.10368 | 0.1319 |
| 42 | 0 | 0.644 | 100000 | 0.17166 | 0.256 |
| 43 | 0 | 0.98 | 100000 | 0.29678 | 0.294 |
| 44 | 0 | 0.868 | 100000 | 0.21691 | 0.2055 |
| 45 | 0 | 0.532 | 100000 | 0.11503 | 0.1456 |
| 46 | 0 | 1.064 | 100000 | 0.22736 | 0.3711 |
| 47 | 0 | 1.008 | 100000 | 0.23737 | 0.2809 |
| 48 | 0 | 0.616 | 100000 | 0.16989 | 0.1699 |
| 49 | 0 | 0.924 | 100000 | 0.26259 | 0.357 |
| 50 | 0 | 0.924 | 100000 | 0.24443 | 0.227 |
| 51 | 0 | 1.064 | 100000 | 0.27653 | 0.3856 |
| 52 | 0 | 1.008 | 100000 | 0.28818 | 0.3158 |

hCrit = maximum negative soil water pressure at surface

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 53 | 0 | 0.952 | 100000 | 0.2775 | 0.333 |
| 54 | 0 | 0.924 | 100000 | 0.22999 | 0.3391 |
| 55 | 0 | 1.036 | 100000 | 0.2702 | 0.3219 |
| 56 | 0 | 1.008 | 100000 | 0.25776 | 0.3807 |
| 57 | 0 | 1.092 | 100000 | 0.318 | 0.4219 |
| 58 | 0 | 0.728 | 100000 | 0.22716 | 0.2851 |
| 59 | 0 | 1.036 | 100000 | 0.34378 | 0.4425 |
| 60 | 0 | 1.036 | 100000 | 0.36651 | 0.4713 |
| 61 | 0 | 1.176 | 100000 | 0.40651 | 0.4911 |
| 62 | 0 | 1.12 | 100000 | 0.38093 | 0.4227 |
| 63 | 0 | 1.064 | 100000 | 0.39681 | 0.4311 |
| 64 | 0 | 1.036 | 100000 | 0.41456 | 0.428 |
| 65 | 0 | 1.036 | 100000 | 0.4259 | 0.4211 |
| 66 | 0 | 1.204 | 100000 | 0.49997 | 0.4553 |
| 67 | 0 | 1.064 | 100000 | 0.45344 | 0.4554 |
| 68 | 0 | 1.008 | 100000 | 0.51715 | 0.4223 |
| 69 | 0 | 1.12 | 100000 | 0.59904 | 0.4385 |
| 70 | 0.3556 | 0.7 | 100000 | 0.4078 | 0.295 |
| 71 | 0.6604 | 0.616 | 100000 | 0.47058 | 0.3876 |
| 72 | 0 | 0.952 | 100000 | 0.96235 | 0.9791 |
| 73 | 0 | 0.7 | 100000 | 0.56392 | 0.4382 |
| 74 | 0 | 0.98 | 100000 | 0.7508 | 0.5023 |
| 75 | 0.0508 | 0.728 | 100000 | 0.4644 | 0.2532 |
| 76 | 0.0762 | 0.84 | 100000 | 0.66137 | 0.4003 |
| 77 | 0 | 0.98 | 100000 | 0.69411 | 0.3791 |
| 78 | 0 | 0.812 | 100000 | 0.589 | 0.3735 |
| 79 | 0 | 1.12 | 100000 | 0.87162 | 0.6362 |
| 80 | 0 | 1.148 | 100000 | 0.87661 | 0.5496 |
| 81 | 0 | 1.148 | 100000 | 0.82493 | 0.509 |
| 82 | 0 | 1.26 | 100000 | 0.94465 | 0.6446 |
| 83 | 0 | 1.008 | 100000 | 0.74749 | 0.4844 |
| 84 | 0 | 1.008 | 100000 | 0.77799 | 0.4134 |
| 85 | 0 | 1.092 | 100000 | 0.85201 | 0.5184 |
| 86 | 0 | 1.148 | 100000 | 0.90919 | 0.5718 |
| 87 | 0 | 1.064 | 100000 | 0.82143 | 0.4586 |
| 88 | 0 | 1.092 | 100000 | 0.90955 | 0.4665 |
| 89 | 0 | 1.12 | 100000 | 0.92878 | 0.5255 |
| 90 | 0 | 1.092 | 100000 | 0.91124 | 0.5229 |
| 91 | 0 | 0.784 | 100000 | 0.57793 | 0.3216 |
| 92 | 0 | 0.924 | 100000 | 0.83616 | 0.4728 |
| 93 | 0 | 1.008 | 100000 | 0.83845 | 0.429 |
| 94 | 0 | 0.924 | 100000 | 0.73844 | 0.3764 |
| 95 | 0.3556 | 0.672 | 100000 | 0.63307 | 0.359 |
| 96 | 0 | 0.784 | 100000 | 0.64892 | 0.4515 |
| 97 | 0 | 0.784 | 100000 | 0.65657 | 0.4283 |
| 98 | 0 | 0.896 | 100000 | 0.80765 | 0.4475 |
| 99 | 0 | 0.756 | 100000 | 0.64617 | 0.3484 |
| 100 | 0 | 1.008 | 100000 | 0.92684 | 0.476 |
| 101 | 0 | 1.036 | 100000 | 0.95227 | 0.4729 |
| 102 | 0 | 1.092 | 100000 | 0.94735 | 0.5172 |
| 103 | 0 | 0.98 | 100000 | 0.83708 | 0.4069 |
| 104 | 0 | 0.924 | 100000 | 0.88718 | 0.4686 |
| 105 | 0 | 0.84 | 100000 | 0.82658 | 0.4071 |
| 106 | 0.1524 | 1.064 | 100000 | 1.00477 | 0.5611 |
| 107 | 0 | 1.232 | 100000 | 1.08283 | 0.5591 |
| 108 | 0 | 1.204 | 100000 | 1.01589 | 0.5768 |
| 109 | 0 | 1.148 | 100000 | 0.96956 | 0.4328 |
| 110 | 0 | 0.98 | 100000 | 0.84742 | 0.434 |
| 111 | 0 | 0.924 | 100000 | 0.81311 | 0.5047 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 171 | 0 | 0.616 | 100000 | 0.57878 | 0.3721 |
| 172 | 0 | 0.672 | 100000 | 0.74392 | 0.4456 |
| 173 | 2.1336 | 0.476 | 100000 | 0.49058 | 0.31 |
| 174 | 0 | 0.812 | 100000 | 1.19731 | 0.6617 |
| 175 | 0 | 0.868 | 100000 | 0.8747 | 0.4721 |
| 176 | 0 | 0.588 | 100000 | 0.57833 | 0.3197 |
| 177 | 0 | 0.784 | 100000 | 0.76184 | 0.4617 |
| 178 | 0 | 0.868 | 100000 | 0.87409 | 0.4652 |
| 179 | 0 | 0.616 | 100000 | 0.57921 | 0.3538 |
| 180 | 0 | 0.588 | 100000 | 0.725 | 0.3313 |
| 181 | 0 | 0.924 | 100000 | 0.98942 | 0.5655 |
| 182 | 0 | 0.896 | 100000 | 0.83585 | 0.5356 |
| 183 | 0.5842 | 0.476 | 100000 | 0.4185 | 0.2465 |
| 184 | 0.0254 | 0.504 | 100000 | 0.58588 | 0.4134 |
| 185 | 0.254 | 0.616 | 100000 | 0.65277 | 0.5004 |
| 186 | 0.127 | 0.616 | 100000 | 0.6713 | 0.5004 |
| 187 | 0.2794 | 0.28 | 100000 | 0.33524 | 0.2355 |
| 188 | 0.8382 | 0.616 | 100000 | 0.77374 | 0.7838 |
| 189 | 0.0254 | 0.532 | 100000 | 0.57152 | 0.4275 |
| 190 | 0 | 0.728 | 100000 | 0.8198 | 0.6347 |
| 191 | 0 | 0.7 | 100000 | 0.67996 | 0.4994 |
| 192 | 0 | 0.644 | 100000 | 0.6159 | 0.39 |
| 193 | 0.127 | 0.532 | 100000 | 0.56347 | 0.3492 |
| 194 | 0.0254 | 0.672 | 100000 | 0.70648 | 0.4246 |
| 195 | 0 | 0.728 | 100000 | 0.71191 | 0.519 |
| 196 | 0 | 0.784 | 100000 | 0.75588 | 0.5058 |
| 197 | 0 | 0.784 | 100000 | 0.74656 | 0.5076 |
| 198 | 0 | 0.924 | 100000 | 0.87884 | 0.5478 |
| 199 | 0 | 0.728 | 100000 | 0.57579 | 0.3815 |
| 200 | 0 | 0.672 | 100000 | 0.56972 | 0.3478 |
| 201 | 0 | 0.756 | 100000 | 0.64707 | 0.4038 |
| 202 | 0 | 0.756 | 100000 | 0.66303 | 0.4038 |
| 203 | 0 | 0.756 | 100000 | 0.67461 | 0.4281 |
| 204 | 0 | 0.784 | 100000 | 0.65836 | 0.4622 |
| 205 | 0 | 0.756 | 100000 | 0.59389 | 0.3895 |
| 206 | 0 | 0.756 | 100000 | 0.62148 | 0.3805 |
| 207 | 0 | 0.644 | 100000 | 0.62837 | 0.3688 |
| 208 | 0 | 0.7 | 100000 | 0.62701 | 0.3998 |
| 209 | 0 | 0.644 | 100000 | 0.44264 | 0.3156 |
| 210 | 0 | 0.728 | 100000 | 0.55682 | 0.4062 |
| 211 | 0 | 0.7 | 100000 | 0.50621 | 0.3482 |
| 212 | 0 | 0.672 | 100000 | 0.52695 | 0.3193 |
| 213 | 0 | 0.756 | 100000 | 0.57739 | 0.3637 |
| 214 | 0 | 0.728 | 100000 | 0.44493 | 0.3164 |
| 215 | 0 | 0.7 | 100000 | 0.49635 | 0.3129 |
| 216 | 0.1778 | 0.588 | 100000 | 0.43157 | 0.2987 |
| 217 | 0.5334 | 0.112 | 100000 | 0.10005 | 0.0617 |
| 218 | 0 | 0.392 | 100000 | 1.0578 | 1.0306 |
| 219 | 0 | 0.448 | 100000 | 0.39315 | 0.3677 |
| 220 | 0 | 0.504 | 100000 | 0.37939 | 0.322 |
| 221 | 0 | 0.616 | 100000 | 0.37831 | 0.3852 |
| 222 | 0 | 0.644 | 100000 | 0.34403 | 0.2976 |
| 223 | 0 | 0.616 | 100000 | 0.28049 | 0.2396 |
| 224 | 0 | 0.588 | 100000 | 0.21043 | 0.1399 |
| 225 | 0 | 0.616 | 100000 | 0.23105 | 0.1314 |
| 226 | 0 | 0.644 | 100000 | 0.20863 | 0.0744 |
| 227 | 0 | 0.476 | 100000 | 0.16025 | 0.0981 |
| 228 | 0 | 0.616 | 100000 | 0.21209 | 0.1294 |
| 229 | 0 | 0.728 | 100000 | 0.22724 | 0.1436 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 230 | 0 | 0.476 | 100000 | 0.15233 | 0.1084 |
| 231 | 0 | 0.56 | 100000 | 0.14502 | 0.0514 |
| 232 | 0 | 0.7 | 100000 | 0.22717 | 0.1102 |
| 233 | 0 | 0.504 | 100000 | 0.16174 | 0.1022 |
| 234 | 0 | 0.42 | 100000 | 0.10978 | 0.0703 |
| 235 | 0 | 0.56 | 100000 | 0.1488 | 0.0584 |
| 236 | 0 | 0.588 | 100000 | 0.18273 | 0.0792 |
| 237 | 0 | 0.644 | 100000 | 0.17279 | 0.081 |
| 238 | 0 | 0.532 | 100000 | 0.1414 | 0.0758 |
| 239 | 0 | 0.504 | 100000 | 0.13151 | 0.0575 |
| 240 | 0 | 0.504 | 100000 | 0.12523 | 0.0432 |
| 241 | 0 | 0.616 | 100000 | 0.17068 | 0.051 |
| 242 | 0 | 0.588 | 100000 | 0.13175 | 0.0957 |
| 243 | 0 | 0.616 | 100000 | 0.17134 | 0.0936 |
| 244 | 0 | 0.56 | 100000 | 0.14299 | 0.0713 |
| 245 | 0 | 0.672 | 100000 | 0.17344 | 0.0756 |
| 246 | 0 | 0.588 | 100000 | 0.13621 | 0.0764 |
| 247 | 0 | 0.532 | 100000 | 0.11304 | 0.0756 |
| 248 | 0 | 0.532 | 100000 | 0.1486 | 0.0761 |
| 249 | 0 | 0.448 | 100000 | 0.12891 | 0.0295 |
| 250 | 0 | 0.476 | 100000 | 0.12289 | 0.052 |
| 251 | 0 | 0.448 | 100000 | 0.08928 | 0.0346 |
| 252 | 0 | 0.476 | 100000 | 0.13887 | 0.0722 |
| 253 | 0 | 0.42 | 100000 | 0.09475 | 0.0559 |
| 254 | 0 | 0.392 | 100000 | 0 | 0 |
| 255 | 0 | 0.392 | 100000 | 0 | 0 |
| 256 | 0 | 0.364 | 100000 | 0 | 0 |
| 257 | 0 | 0.42 | 100000 | 0 | 0 |
| 258 | 0 | 0.42 | 100000 | 0 | 0 |
| 259 | 0 | 0.476 | 100000 | 0 | 0 |
| 260 | 0 | 0.448 | 100000 | 0 | 0 |
| 261 | 0 | 0.42 | 100000 | 0 | 0 |
| 262 | 0 | 0.336 | 100000 | 0 | 0 |
| 263 | 0 | 0.476 | 100000 | 0 | 0 |
| 264 | 0 | 0.392 | 100000 | 0 | 0 |
| 265 | 0.0508 | 0.28 | 100000 | 0 | 0 |
| 266 | 0 | 0.28 | 100000 | 0 | 0 |
| 267 | 0 | 0.28 | 100000 | 0 | 0 |
| 268 | 0 | 0.336 | 100000 | 0 | 0 |
| 269 | 0.0254 | 0.392 | 100000 | 0 | 0 |
| 270 | 0 | 0.224 | 100000 | 0 | 0 |
| 271 | 0 | 0.28 | 100000 | 0 | 0 |
| 272 | 0 | 0.336 | 100000 | 0 | 0 |
| 273 | 0 | 0.364 | 100000 | 0 | 0 |
| 274 | 0 | 0.336 | 100000 | 0 | 0 |
| 275 | 0 | 0.448 | 100000 | 0 | 0 |
| 276 | 0 | 0.364 | 100000 | 0 | 0 |
| 277 | 0 | 0.308 | 100000 | 0 | 0 |
| 278 | 0 | 0.364 | 100000 | 0 | 0 |
| 279 | 0 | 0.364 | 100000 | 0 | 0 |
| 280 | 0 | 0.308 | 100000 | 0 | 0 |
| 281 | 0 | 0.28 | 100000 | 0 | 0 |
| 282 | 0 | 0.14 | 100000 | 0 | 0 |
| 283 | 0 | 0.056 | 100000 | 0 | 0 |
| 284 | 0 | 0.196 | 100000 | 0 | 0 |
| 285 | 0 | 0.224 | 100000 | 0 | 0 |
| 286 | 0 | 0.308 | 100000 | 0 | 0 |
| 287 | 0.2032 | 0.056 | 100000 | 0 | 0 |
| 288 | 0 | 0.196 | 100000 | 0 | 0 |

| | | | | | |
|-----|---|-------|--------|---|---|
| 289 | 0 | 0.196 | 100000 | 0 | 0 |
| 290 | 0 | 0.14 | 100000 | 0 | 0 |
| 291 | 0 | 0.252 | 100000 | 0 | 0 |
| 292 | 0 | 0.28 | 100000 | 0 | 0 |
| 293 | 0 | 0.392 | 100000 | 0 | 0 |
| 294 | 0 | 0.336 | 100000 | 0 | 0 |
| 295 | 0 | 0.308 | 100000 | 0 | 0 |
| 296 | 0 | 0.308 | 100000 | 0 | 0 |
| 297 | 0 | 0.364 | 100000 | 0 | 0 |
| 298 | 0 | 0.364 | 100000 | 0 | 0 |
| 299 | 0 | 0.336 | 100000 | 0 | 0 |
| 300 | 0 | 0.336 | 100000 | 0 | 0 |
| 301 | 0 | 0.308 | 100000 | 0 | 0 |
| 302 | 0 | 0.392 | 100000 | 0 | 0 |
| 303 | 0 | 0.392 | 100000 | 0 | 0 |
| 304 | 0 | 0.504 | 100000 | 0 | 0 |
| 305 | 0 | 0.336 | 100000 | 0 | 0 |
| 306 | 0 | 0.42 | 100000 | 0 | 0 |
| 307 | 0 | 0.392 | 100000 | 0 | 0 |
| 308 | 0 | 0.364 | 100000 | 0 | 0 |
| 309 | 0 | 0.476 | 100000 | 0 | 0 |
| 310 | 0 | 0.392 | 100000 | 0 | 0 |
| 311 | 0 | 0.476 | 100000 | 0 | 0 |
| 312 | 0 | 0.448 | 100000 | 0 | 0 |
| 313 | 0 | 0.476 | 100000 | 0 | 0 |
| 314 | 0 | 0.588 | 100000 | 0 | 0 |
| 315 | 0 | 0.42 | 100000 | 0 | 0 |
| 316 | 0 | 0.588 | 100000 | 0 | 0 |
| 317 | 0 | 0.42 | 100000 | 0 | 0 |
| 318 | 0 | 0.56 | 100000 | 0 | 0 |
| 319 | 0 | 0.504 | 100000 | 0 | 0 |
| 320 | 0 | 0.476 | 100000 | 0 | 0 |
| 321 | 0 | 0.084 | 100000 | 0 | 0 |
| 322 | 0 | 0.28 | 100000 | 0 | 0 |
| 323 | 0 | 0.392 | 100000 | 0 | 0 |
| 324 | 0 | 0.532 | 100000 | 0 | 0 |
| 325 | 0 | 0.42 | 100000 | 0 | 0 |
| 326 | 0 | 0.448 | 100000 | 0 | 0 |
| 327 | 0 | 0.364 | 100000 | 0 | 0 |
| 328 | 0 | 0.364 | 100000 | 0 | 0 |
| 329 | 0 | 0.476 | 100000 | 0 | 0 |
| 330 | 0 | 0.448 | 100000 | 0 | 0 |
| 331 | 0 | 0.476 | 100000 | 0 | 0 |
| 332 | 0 | 0.532 | 100000 | 0 | 0 |
| 333 | 0 | 0.952 | 100000 | 0 | 0 |
| 334 | 0 | 0.504 | 100000 | 0 | 0 |
| 335 | 0 | 0.448 | 100000 | 0 | 0 |
| 336 | 0 | 0.56 | 100000 | 0 | 0 |
| 337 | 0 | 0.56 | 100000 | 0 | 0 |
| 338 | 0 | 0.644 | 100000 | 0 | 0 |
| 339 | 0 | 0.42 | 100000 | 0 | 0 |
| 340 | 0 | 0.504 | 100000 | 0 | 0 |
| 341 | 0 | 0.616 | 100000 | 0 | 0 |
| 342 | 0 | 0.7 | 100000 | 0 | 0 |
| 343 | 0 | 0.644 | 100000 | 0 | 0 |
| 344 | 0 | 0.616 | 100000 | 0 | 0 |
| 345 | 0 | 0.672 | 100000 | 0 | 0 |
| 346 | 0 | 0.56 | 100000 | 0 | 0 |
| 347 | 0 | 0.56 | 100000 | 0 | 0 |

| | | | | | |
|-----|--------|--------|--------|---------|--------|
| 348 | 0 | 0.42 | 100000 | 0 | 0 |
| 349 | 0 | 0.56 | 100000 | 0 | 0 |
| 350 | 0 | 0.616 | 100000 | 0 | 0 |
| 351 | 0 | 0.644 | 100000 | 0 | 0 |
| 352 | 0 | 0.784 | 100000 | 0 | 0 |
| 353 | 0 | 0.756 | 100000 | 0 | 0 |
| 354 | 0 | 0.756 | 100000 | 0 | 0 |
| 355 | 0 | 0.7 | 100000 | 0 | 0 |
| 356 | 0 | 0.7 | 100000 | 0 | 0 |
| 357 | 0 | 0.56 | 100000 | 0 | 0 |
| 358 | 0 | 0.616 | 100000 | 0 | 0 |
| 359 | 0 | 0.616 | 100000 | 0 | 0 |
| 360 | 0 | 0.756 | 100000 | 0 | 0 |
| 361 | 0 | 0.7 | 100000 | 0 | 0 |
| 362 | 0 | 0.84 | 100000 | 0 | 0 |
| 363 | 0 | 0.448 | 100000 | 0 | 0 |
| 364 | 0 | 0.532 | 100000 | 0 | 0 |
| 365 | 0 | 0.672 | 100000 | 0 | 0 |
| 366 | 0 | 0.588 | 100000 | 0 | 0 |
| 367 | 0 | 0.756 | 100000 | 0 | 0 |
| 368 | 0.6096 | 0.28 | 100000 | 0 | 0 |
| 369 | 0.1016 | 0.252 | 100000 | 0 | 0 |
| 370 | 0 | 0.504 | 100000 | 0 | 0 |
| 371 | 0 | 0.672 | 100000 | 0 | 0 |
| 372 | 0 | 0.812 | 100000 | 0 | 0 |
| 373 | 0 | 0.812 | 100000 | 0 | 0 |
| 374 | 0 | 0.812 | 100000 | 0 | 0 |
| 375 | 0 | 0.756 | 100000 | 0 | 0 |
| 376 | 0 | 0.588 | 100000 | 0 | 0 |
| 377 | 0.5842 | 0.448 | 100000 | 0 | 0 |
| 378 | 0.0254 | 0.672 | 100000 | 0 | 0 |
| 379 | 0 | 0.756 | 100000 | 0 | 0 |
| 380 | 0 | 0.84 | 100000 | 0 | 0 |
| 381 | 0 | 0.812 | 100000 | 0 | 0 |
| 382 | 0 | 1.036 | 100000 | 0 | 0 |
| 383 | 0 | 1.008 | 100000 | 0 | 0 |
| 384 | 0 | 0.476 | 100000 | 0 | 0 |
| 385 | 0 | 0.2286 | 100000 | 0 | 0 |
| 386 | 0 | 0.588 | 100000 | 0 | 0 |
| 387 | 0 | 0.7 | 100000 | 0 | 0 |
| 388 | 0 | 0.868 | 100000 | 0.12414 | 0.0619 |
| 389 | 0 | 0.98 | 100000 | 0.13205 | 0.1261 |
| 390 | 0 | 0.784 | 100000 | 0.11236 | 0.1027 |
| 391 | 0 | 1.064 | 100000 | 0.12349 | 0.2313 |
| 392 | 0 | 0.868 | 100000 | 0.18013 | 0.1722 |
| 393 | 0 | 0.84 | 100000 | 0.08659 | 0.1569 |
| 394 | 0 | 0.98 | 100000 | 0.11324 | 0.1527 |
| 395 | 0 | 0.84 | 100000 | 0.11402 | 0.133 |
| 396 | 0 | 1.008 | 100000 | 0.17232 | 0.1964 |
| 397 | 0 | 0.84 | 100000 | 0.20876 | 0.2133 |
| 398 | 0 | 0.812 | 100000 | 0.10786 | 0.083 |
| 399 | 0 | 0.784 | 100000 | 0.13531 | 0.1593 |
| 400 | 0 | 0.812 | 100000 | 0.17341 | 0.2436 |
| 401 | 0 | 0.924 | 100000 | 0.11871 | 0.0912 |
| 402 | 0 | 1.008 | 100000 | 0.18895 | 0.1555 |
| 403 | 0 | 1.008 | 100000 | 0.14583 | 0.1398 |
| 404 | 0 | 1.232 | 100000 | 0.22332 | 0.2325 |
| 405 | 0 | 1.26 | 100000 | 0.21523 | 0.2779 |
| 406 | 0 | 0.616 | 100000 | 0.10368 | 0.1319 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 407 | 0 | 0.644 | 100000 | 0.17166 | 0.256 |
| 408 | 0 | 0.98 | 100000 | 0.29678 | 0.294 |
| 409 | 0 | 0.868 | 100000 | 0.21691 | 0.2055 |
| 410 | 0 | 0.532 | 100000 | 0.11503 | 0.1456 |
| 411 | 0 | 1.064 | 100000 | 0.22736 | 0.3711 |
| 412 | 0 | 1.008 | 100000 | 0.23737 | 0.2809 |
| 413 | 0 | 0.616 | 100000 | 0.16989 | 0.1699 |
| 414 | 0 | 0.924 | 100000 | 0.26259 | 0.357 |
| 415 | 0 | 0.924 | 100000 | 0.24443 | 0.227 |
| 416 | 0 | 1.064 | 100000 | 0.27653 | 0.3856 |
| 417 | 0 | 1.008 | 100000 | 0.28818 | 0.3158 |
| 418 | 0 | 0.952 | 100000 | 0.2775 | 0.333 |
| 419 | 0 | 0.924 | 100000 | 0.22999 | 0.3391 |
| 420 | 0 | 1.036 | 100000 | 0.2702 | 0.3219 |
| 421 | 0 | 1.008 | 100000 | 0.25776 | 0.3807 |
| 422 | 0 | 1.092 | 100000 | 0.318 | 0.4219 |
| 423 | 0 | 0.728 | 100000 | 0.22716 | 0.2851 |
| 424 | 0 | 1.036 | 100000 | 0.34378 | 0.4425 |
| 425 | 0 | 1.036 | 100000 | 0.36651 | 0.4713 |
| 426 | 0 | 1.176 | 100000 | 0.40651 | 0.4911 |
| 427 | 0 | 1.12 | 100000 | 0.38093 | 0.4227 |
| 428 | 0 | 1.064 | 100000 | 0.39681 | 0.4311 |
| 429 | 0 | 1.036 | 100000 | 0.41456 | 0.428 |
| 430 | 0 | 1.036 | 100000 | 0.4259 | 0.4211 |
| 431 | 0 | 1.204 | 100000 | 0.49997 | 0.4553 |
| 432 | 0 | 1.064 | 100000 | 0.45344 | 0.4554 |
| 433 | 0 | 1.008 | 100000 | 0.51715 | 0.4223 |
| 434 | 0 | 1.12 | 100000 | 0.59904 | 0.4385 |
| 435 | 0.3556 | 0.7 | 100000 | 0.4078 | 0.295 |
| 436 | 0.6604 | 0.616 | 100000 | 0.47058 | 0.3876 |
| 437 | 0 | 0.952 | 100000 | 0.96235 | 0.9791 |
| 438 | 0 | 0.7 | 100000 | 0.56392 | 0.4382 |
| 439 | 0 | 0.98 | 100000 | 0.7508 | 0.5023 |
| 440 | 0.0508 | 0.728 | 100000 | 0.4644 | 0.2532 |
| 441 | 0.0762 | 0.84 | 100000 | 0.66137 | 0.4003 |
| 442 | 0 | 0.98 | 100000 | 0.69411 | 0.3791 |
| 443 | 0 | 0.812 | 100000 | 0.589 | 0.3735 |
| 444 | 0 | 1.12 | 100000 | 0.87162 | 0.6362 |
| 445 | 0 | 1.148 | 100000 | 0.87661 | 0.5496 |
| 446 | 0 | 1.148 | 100000 | 0.82493 | 0.509 |
| 447 | 0 | 1.26 | 100000 | 0.94465 | 0.6446 |
| 448 | 0 | 1.008 | 100000 | 0.74749 | 0.4844 |
| 449 | 0 | 1.008 | 100000 | 0.77799 | 0.4134 |
| 450 | 0 | 1.092 | 100000 | 0.85201 | 0.5184 |
| 451 | 0 | 1.148 | 100000 | 0.90919 | 0.5718 |
| 452 | 0 | 1.064 | 100000 | 0.82143 | 0.4586 |
| 453 | 0 | 1.092 | 100000 | 0.90955 | 0.4665 |
| 454 | 0 | 1.12 | 100000 | 0.92878 | 0.5255 |
| 455 | 0 | 1.092 | 100000 | 0.91124 | 0.5229 |
| 456 | 0 | 0.784 | 100000 | 0.57793 | 0.3216 |
| 457 | 0 | 0.924 | 100000 | 0.83616 | 0.4728 |
| 458 | 0 | 1.008 | 100000 | 0.83845 | 0.429 |
| 459 | 0 | 0.924 | 100000 | 0.73844 | 0.3764 |
| 460 | 0.3556 | 0.672 | 100000 | 0.63307 | 0.359 |
| 461 | 0 | 0.784 | 100000 | 0.64892 | 0.4515 |
| 462 | 0 | 0.784 | 100000 | 0.65657 | 0.4283 |
| 463 | 0 | 0.896 | 100000 | 0.80765 | 0.4475 |
| 464 | 0 | 0.756 | 100000 | 0.64617 | 0.3484 |
| 465 | 0 | 1.008 | 100000 | 0.92684 | 0.476 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 466 | 0 | 1.036 | 100000 | 0.95227 | 0.4729 |
| 467 | 0 | 1.092 | 100000 | 0.94735 | 0.5172 |
| 468 | 0 | 0.98 | 100000 | 0.83708 | 0.4069 |
| 469 | 0 | 0.924 | 100000 | 0.88718 | 0.4686 |
| 470 | 0 | 0.84 | 100000 | 0.82658 | 0.4071 |
| 471 | 0.1524 | 1.064 | 100000 | 1.00477 | 0.5611 |
| 472 | 0 | 1.232 | 100000 | 1.08283 | 0.5591 |
| 473 | 0 | 1.204 | 100000 | 1.01589 | 0.5768 |
| 474 | 0 | 1.148 | 100000 | 0.96956 | 0.4328 |
| 475 | 0 | 0.98 | 100000 | 0.84742 | 0.434 |
| 476 | 0 | 0.924 | 100000 | 0.81311 | 0.5047 |
| 477 | 0.0254 | 0.924 | 100000 | 0.94579 | 0.502 |
| 478 | 0.0508 | 0.84 | 100000 | 0.92654 | 0.552 |
| 479 | 0.0508 | 0.7 | 100000 | 0.55574 | 0.3949 |
| 480 | 0 | 0.98 | 100000 | 0.92174 | 0.7734 |
| 481 | 0 | 0.868 | 100000 | 0.81733 | 0.4773 |
| 482 | 0.5334 | 0.924 | 100000 | 0.93501 | 0.6594 |
| 483 | 0 | 0.588 | 100000 | 0.56451 | 0.3524 |
| 484 | 0 | 1.008 | 100000 | 1.20263 | 0.9357 |
| 485 | 0 | 0.952 | 100000 | 0.88251 | 0.549 |
| 486 | 0 | 0.98 | 100000 | 0.96517 | 0.5713 |
| 487 | 0 | 0.672 | 100000 | 0.64369 | 0.3883 |
| 488 | 0 | 0.56 | 100000 | 0.54577 | 0.3405 |
| 489 | 0.0254 | 0.812 | 100000 | 0.76144 | 0.5466 |
| 490 | 0.0254 | 0.616 | 100000 | 0.59533 | 0.3366 |
| 491 | 1.8034 | 0.84 | 100000 | 0.90405 | 0.7849 |
| 492 | 0.6604 | 0.84 | 100000 | 0.88856 | 0.6421 |
| 493 | 0.0254 | 0.784 | 100000 | 0.85041 | 0.6556 |
| 494 | 0.3048 | 0.616 | 100000 | 0.668 | 0.5029 |
| 495 | 0 | 0.868 | 100000 | 1.02853 | 0.7011 |
| 496 | 0 | 0.952 | 100000 | 0.73154 | 0.553 |
| 497 | 0 | 0.952 | 100000 | 0.96031 | 0.5825 |
| 498 | 0 | 0.98 | 100000 | 1.03329 | 0.6605 |
| 499 | 0 | 0.812 | 100000 | 0.7861 | 0.5318 |
| 500 | 0 | 0.924 | 100000 | 0.87375 | 0.5848 |
| 501 | 0.0508 | 0.868 | 100000 | 0.81927 | 0.5106 |
| 502 | 0 | 0.952 | 100000 | 0.99288 | 0.5963 |
| 503 | 0 | 0.896 | 100000 | 0.85635 | 0.5146 |
| 504 | 0.0254 | 0.952 | 100000 | 0.989 | 0.6561 |
| 505 | 0 | 0.84 | 100000 | 0.83278 | 0.5219 |
| 506 | 0 | 0.756 | 100000 | 0.70674 | 0.4493 |
| 507 | 0.2794 | 0.504 | 100000 | 0.47559 | 0.282 |
| 508 | 0.0762 | 0.476 | 100000 | 0.44288 | 0.4177 |
| 509 | 0.4826 | 0.588 | 100000 | 0.631 | 0.5134 |
| 510 | 0.9906 | 0.588 | 100000 | 0.63755 | 0.4479 |
| 511 | 0 | 0.868 | 100000 | 0.96945 | 0.748 |
| 512 | 1.0922 | 0.896 | 100000 | 0.88936 | 0.6293 |
| 513 | 0.0508 | 0.728 | 100000 | 0.78582 | 0.5372 |
| 514 | 0.3048 | 0.56 | 100000 | 0.5864 | 0.4438 |
| 515 | 0.1016 | 0.588 | 100000 | 0.68404 | 0.5331 |
| 516 | 0.0254 | 0.896 | 100000 | 1.04223 | 0.699 |
| 517 | 0 | 1.008 | 100000 | 0.9927 | 0.6614 |
| 518 | 0.0254 | 0.84 | 100000 | 0.76594 | 0.4668 |
| 519 | 0 | 0.784 | 100000 | 0.83316 | 0.5027 |
| 520 | 0 | 0.98 | 100000 | 1.08702 | 0.609 |
| 521 | 0 | 0.952 | 100000 | 0.90246 | 0.5311 |
| 522 | 0 | 0.952 | 100000 | 0.91963 | 0.5144 |
| 523 | 0.5842 | 0.896 | 100000 | 0.78599 | 0.462 |
| 524 | 0.1524 | 0.84 | 100000 | 0.8329 | 0.5185 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 525 | 0 | 0.98 | 100000 | 1.0358 | 0.7778 |
| 526 | 0 | 0.896 | 100000 | 0.86035 | 0.5405 |
| 527 | 0.4572 | 1.008 | 100000 | 0.90755 | 0.4821 |
| 528 | 0 | 0.84 | 100000 | 0.85694 | 0.5008 |
| 529 | 0.0508 | 0.784 | 100000 | 0.79668 | 0.5806 |
| 530 | 0 | 0.728 | 100000 | 0.72293 | 0.3965 |
| 531 | 0.2286 | 0.896 | 100000 | 0.89256 | 0.5217 |
| 532 | 0.0508 | 0.896 | 100000 | 0.9128 | 0.4339 |
| 533 | 0 | 0.896 | 100000 | 0.9842 | 0.7383 |
| 534 | 0 | 0.812 | 100000 | 0.83395 | 0.6071 |
| 535 | 0 | 0.84 | 100000 | 0.80083 | 0.5699 |
| 536 | 0 | 0.616 | 100000 | 0.57878 | 0.3721 |
| 537 | 0 | 0.672 | 100000 | 0.74392 | 0.4456 |
| 538 | 2.1336 | 0.476 | 100000 | 0.49058 | 0.31 |
| 539 | 0 | 0.812 | 100000 | 1.19731 | 0.6617 |
| 540 | 0 | 0.868 | 100000 | 0.8747 | 0.4721 |
| 541 | 0 | 0.588 | 100000 | 0.57833 | 0.3197 |
| 542 | 0 | 0.784 | 100000 | 0.76184 | 0.4617 |
| 543 | 0 | 0.868 | 100000 | 0.87409 | 0.4652 |
| 544 | 0 | 0.616 | 100000 | 0.57921 | 0.3538 |
| 545 | 0 | 0.588 | 100000 | 0.725 | 0.3313 |
| 546 | 0 | 0.924 | 100000 | 0.98942 | 0.5655 |
| 547 | 0 | 0.896 | 100000 | 0.83585 | 0.5356 |
| 548 | 0.5842 | 0.476 | 100000 | 0.4185 | 0.2465 |
| 549 | 0.0254 | 0.504 | 100000 | 0.58588 | 0.4134 |
| 550 | 0.254 | 0.616 | 100000 | 0.65277 | 0.5004 |
| 551 | 0.127 | 0.616 | 100000 | 0.6713 | 0.5004 |
| 552 | 0.2794 | 0.28 | 100000 | 0.33524 | 0.2355 |
| 553 | 0.8382 | 0.616 | 100000 | 0.77374 | 0.7838 |
| 554 | 0.0254 | 0.532 | 100000 | 0.57152 | 0.4275 |
| 555 | 0 | 0.728 | 100000 | 0.8198 | 0.6347 |
| 556 | 0 | 0.7 | 100000 | 0.67996 | 0.4994 |
| 557 | 0 | 0.644 | 100000 | 0.6159 | 0.39 |
| 558 | 0.127 | 0.532 | 100000 | 0.56347 | 0.3492 |
| 559 | 0.0254 | 0.672 | 100000 | 0.70648 | 0.4246 |
| 560 | 0 | 0.728 | 100000 | 0.71191 | 0.519 |
| 561 | 0 | 0.784 | 100000 | 0.75588 | 0.5058 |
| 562 | 0 | 0.784 | 100000 | 0.74656 | 0.5076 |
| 563 | 0 | 0.924 | 100000 | 0.87884 | 0.5478 |
| 564 | 0 | 0.728 | 100000 | 0.57579 | 0.3815 |
| 565 | 0 | 0.672 | 100000 | 0.56972 | 0.3478 |
| 566 | 0 | 0.756 | 100000 | 0.64707 | 0.4038 |
| 567 | 0 | 0.756 | 100000 | 0.66303 | 0.4038 |
| 568 | 0 | 0.756 | 100000 | 0.67461 | 0.4281 |
| 569 | 0 | 0.784 | 100000 | 0.65836 | 0.4622 |
| 570 | 0 | 0.756 | 100000 | 0.59389 | 0.3895 |
| 571 | 0 | 0.756 | 100000 | 0.62148 | 0.3805 |
| 572 | 0 | 0.644 | 100000 | 0.62837 | 0.3688 |
| 573 | 0 | 0.7 | 100000 | 0.62701 | 0.3998 |
| 574 | 0 | 0.644 | 100000 | 0.44264 | 0.3156 |
| 575 | 0 | 0.728 | 100000 | 0.55682 | 0.4062 |
| 576 | 0 | 0.7 | 100000 | 0.50621 | 0.3482 |
| 577 | 0 | 0.672 | 100000 | 0.52695 | 0.3193 |
| 578 | 0 | 0.756 | 100000 | 0.57739 | 0.3637 |
| 579 | 0 | 0.728 | 100000 | 0.44493 | 0.3164 |
| 580 | 0 | 0.7 | 100000 | 0.49635 | 0.3129 |
| 581 | 0.1778 | 0.588 | 100000 | 0.43157 | 0.2987 |
| 582 | 0.5334 | 0.112 | 100000 | 0.10005 | 0.0617 |
| 583 | 0 | 0.392 | 100000 | 1.0578 | 1.0306 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 584 | 0 | 0.448 | 100000 | 0.39315 | 0.3677 |
| 585 | 0 | 0.504 | 100000 | 0.37939 | 0.322 |
| 586 | 0 | 0.616 | 100000 | 0.37831 | 0.3852 |
| 587 | 0 | 0.644 | 100000 | 0.34403 | 0.2976 |
| 588 | 0 | 0.616 | 100000 | 0.28049 | 0.2396 |
| 589 | 0 | 0.588 | 100000 | 0.21043 | 0.1399 |
| 590 | 0 | 0.616 | 100000 | 0.23105 | 0.1314 |
| 591 | 0 | 0.644 | 100000 | 0.20863 | 0.0744 |
| 592 | 0 | 0.476 | 100000 | 0.16025 | 0.0981 |
| 593 | 0 | 0.616 | 100000 | 0.21209 | 0.1294 |
| 594 | 0 | 0.728 | 100000 | 0.22724 | 0.1436 |
| 595 | 0 | 0.476 | 100000 | 0.15233 | 0.1084 |
| 596 | 0 | 0.56 | 100000 | 0.14502 | 0.0514 |
| 597 | 0 | 0.7 | 100000 | 0.22717 | 0.1102 |
| 598 | 0 | 0.504 | 100000 | 0.16174 | 0.1022 |
| 599 | 0 | 0.42 | 100000 | 0.10978 | 0.0703 |
| 600 | 0 | 0.56 | 100000 | 0.1488 | 0.0584 |
| 601 | 0 | 0.588 | 100000 | 0.18273 | 0.0792 |
| 602 | 0 | 0.644 | 100000 | 0.17279 | 0.081 |
| 603 | 0 | 0.532 | 100000 | 0.1414 | 0.0758 |
| 604 | 0 | 0.504 | 100000 | 0.13151 | 0.0575 |
| 605 | 0 | 0.504 | 100000 | 0.12523 | 0.0432 |
| 606 | 0 | 0.616 | 100000 | 0.17068 | 0.051 |
| 607 | 0 | 0.588 | 100000 | 0.13175 | 0.0957 |
| 608 | 0 | 0.616 | 100000 | 0.17134 | 0.0936 |
| 609 | 0 | 0.56 | 100000 | 0.14299 | 0.0713 |
| 610 | 0 | 0.672 | 100000 | 0.17344 | 0.0756 |
| 611 | 0 | 0.588 | 100000 | 0.13621 | 0.0764 |
| 612 | 0 | 0.532 | 100000 | 0.11304 | 0.0756 |
| 613 | 0 | 0.532 | 100000 | 0.1486 | 0.0761 |
| 614 | 0 | 0.448 | 100000 | 0.12891 | 0.0295 |
| 615 | 0 | 0.476 | 100000 | 0.12289 | 0.052 |
| 616 | 0 | 0.448 | 100000 | 0.08928 | 0.0346 |
| 617 | 0 | 0.476 | 100000 | 0.13887 | 0.0722 |
| 618 | 0 | 0.42 | 100000 | 0.09475 | 0.0559 |
| 619 | 0 | 0.392 | 100000 | 0 | 0 |
| 620 | 0 | 0.392 | 100000 | 0 | 0 |
| 621 | 0 | 0.364 | 100000 | 0 | 0 |
| 622 | 0 | 0.42 | 100000 | 0 | 0 |
| 623 | 0 | 0.42 | 100000 | 0 | 0 |
| 624 | 0 | 0.476 | 100000 | 0 | 0 |
| 625 | 0 | 0.448 | 100000 | 0 | 0 |
| 626 | 0 | 0.42 | 100000 | 0 | 0 |
| 627 | 0 | 0.336 | 100000 | 0 | 0 |
| 628 | 0 | 0.476 | 100000 | 0 | 0 |
| 629 | 0 | 0.392 | 100000 | 0 | 0 |
| 630 | 0.0508 | 0.28 | 100000 | 0 | 0 |
| 631 | 0 | 0.28 | 100000 | 0 | 0 |
| 632 | 0 | 0.28 | 100000 | 0 | 0 |
| 633 | 0 | 0.336 | 100000 | 0 | 0 |
| 634 | 0.0254 | 0.392 | 100000 | 0 | 0 |
| 635 | 0 | 0.224 | 100000 | 0 | 0 |
| 636 | 0 | 0.28 | 100000 | 0 | 0 |
| 637 | 0 | 0.336 | 100000 | 0 | 0 |
| 638 | 0 | 0.364 | 100000 | 0 | 0 |
| 639 | 0 | 0.336 | 100000 | 0 | 0 |
| 640 | 0 | 0.448 | 100000 | 0 | 0 |
| 641 | 0 | 0.364 | 100000 | 0 | 0 |
| 642 | 0 | 0.308 | 100000 | 0 | 0 |

| | | | | | |
|-----|--------|-------|--------|---|---|
| 643 | 0 | 0.364 | 100000 | 0 | 0 |
| 644 | 0 | 0.364 | 100000 | 0 | 0 |
| 645 | 0 | 0.308 | 100000 | 0 | 0 |
| 646 | 0 | 0.28 | 100000 | 0 | 0 |
| 647 | 0 | 0.14 | 100000 | 0 | 0 |
| 648 | 0 | 0.056 | 100000 | 0 | 0 |
| 649 | 0 | 0.196 | 100000 | 0 | 0 |
| 650 | 0 | 0.224 | 100000 | 0 | 0 |
| 651 | 0 | 0.308 | 100000 | 0 | 0 |
| 652 | 0.2032 | 0.056 | 100000 | 0 | 0 |
| 653 | 0 | 0.196 | 100000 | 0 | 0 |
| 654 | 0 | 0.196 | 100000 | 0 | 0 |
| 655 | 0 | 0.14 | 100000 | 0 | 0 |
| 656 | 0 | 0.252 | 100000 | 0 | 0 |
| 657 | 0 | 0.28 | 100000 | 0 | 0 |
| 658 | 0 | 0.392 | 100000 | 0 | 0 |
| 659 | 0 | 0.336 | 100000 | 0 | 0 |
| 660 | 0 | 0.308 | 100000 | 0 | 0 |
| 661 | 0 | 0.308 | 100000 | 0 | 0 |
| 662 | 0 | 0.364 | 100000 | 0 | 0 |
| 663 | 0 | 0.364 | 100000 | 0 | 0 |
| 664 | 0 | 0.336 | 100000 | 0 | 0 |
| 665 | 0 | 0.336 | 100000 | 0 | 0 |
| 666 | 0 | 0.308 | 100000 | 0 | 0 |
| 667 | 0 | 0.392 | 100000 | 0 | 0 |
| 668 | 0 | 0.392 | 100000 | 0 | 0 |
| 669 | 0 | 0.504 | 100000 | 0 | 0 |
| 670 | 0 | 0.336 | 100000 | 0 | 0 |
| 671 | 0 | 0.42 | 100000 | 0 | 0 |
| 672 | 0 | 0.392 | 100000 | 0 | 0 |
| 673 | 0 | 0.364 | 100000 | 0 | 0 |
| 674 | 0 | 0.476 | 100000 | 0 | 0 |
| 675 | 0 | 0.392 | 100000 | 0 | 0 |
| 676 | 0 | 0.476 | 100000 | 0 | 0 |
| 677 | 0 | 0.448 | 100000 | 0 | 0 |
| 678 | 0 | 0.476 | 100000 | 0 | 0 |
| 679 | 0 | 0.588 | 100000 | 0 | 0 |
| 680 | 0 | 0.42 | 100000 | 0 | 0 |
| 681 | 0 | 0.588 | 100000 | 0 | 0 |
| 682 | 0 | 0.42 | 100000 | 0 | 0 |
| 683 | 0 | 0.56 | 100000 | 0 | 0 |
| 684 | 0 | 0.504 | 100000 | 0 | 0 |
| 685 | 0 | 0.476 | 100000 | 0 | 0 |
| 686 | 0 | 0.084 | 100000 | 0 | 0 |
| 687 | 0 | 0.28 | 100000 | 0 | 0 |
| 688 | 0 | 0.392 | 100000 | 0 | 0 |
| 689 | 0 | 0.532 | 100000 | 0 | 0 |
| 690 | 0 | 0.42 | 100000 | 0 | 0 |
| 691 | 0 | 0.448 | 100000 | 0 | 0 |
| 692 | 0 | 0.364 | 100000 | 0 | 0 |
| 693 | 0 | 0.364 | 100000 | 0 | 0 |
| 694 | 0 | 0.476 | 100000 | 0 | 0 |
| 695 | 0 | 0.448 | 100000 | 0 | 0 |
| 696 | 0 | 0.476 | 100000 | 0 | 0 |
| 697 | 0 | 0.532 | 100000 | 0 | 0 |
| 698 | 0 | 0.952 | 100000 | 0 | 0 |
| 699 | 0 | 0.504 | 100000 | 0 | 0 |
| 700 | 0 | 0.448 | 100000 | 0 | 0 |
| 701 | 0 | 0.56 | 100000 | 0 | 0 |

| | | | | | |
|-----|--------|--------|--------|---------|--------|
| 702 | 0 | 0.56 | 100000 | 0 | 0 |
| 703 | 0 | 0.644 | 100000 | 0 | 0 |
| 704 | 0 | 0.42 | 100000 | 0 | 0 |
| 705 | 0 | 0.504 | 100000 | 0 | 0 |
| 706 | 0 | 0.616 | 100000 | 0 | 0 |
| 707 | 0 | 0.7 | 100000 | 0 | 0 |
| 708 | 0 | 0.644 | 100000 | 0 | 0 |
| 709 | 0 | 0.616 | 100000 | 0 | 0 |
| 710 | 0 | 0.672 | 100000 | 0 | 0 |
| 711 | 0 | 0.56 | 100000 | 0 | 0 |
| 712 | 0 | 0.56 | 100000 | 0 | 0 |
| 713 | 0 | 0.42 | 100000 | 0 | 0 |
| 714 | 0 | 0.56 | 100000 | 0 | 0 |
| 715 | 0 | 0.616 | 100000 | 0 | 0 |
| 716 | 0 | 0.644 | 100000 | 0 | 0 |
| 717 | 0 | 0.784 | 100000 | 0 | 0 |
| 718 | 0 | 0.756 | 100000 | 0 | 0 |
| 719 | 0 | 0.756 | 100000 | 0 | 0 |
| 720 | 0 | 0.7 | 100000 | 0 | 0 |
| 721 | 0 | 0.7 | 100000 | 0 | 0 |
| 722 | 0 | 0.56 | 100000 | 0 | 0 |
| 723 | 0 | 0.616 | 100000 | 0 | 0 |
| 724 | 0 | 0.616 | 100000 | 0 | 0 |
| 725 | 0 | 0.756 | 100000 | 0 | 0 |
| 726 | 0 | 0.7 | 100000 | 0 | 0 |
| 727 | 0 | 0.84 | 100000 | 0 | 0 |
| 728 | 0 | 0.448 | 100000 | 0 | 0 |
| 729 | 0 | 0.532 | 100000 | 0 | 0 |
| 730 | 0 | 0.672 | 100000 | 0 | 0 |
| 731 | 0 | 0.588 | 100000 | 0 | 0 |
| 732 | 0 | 0.756 | 100000 | 0 | 0 |
| 733 | 0.6096 | 0.28 | 100000 | 0 | 0 |
| 734 | 0.1016 | 0.252 | 100000 | 0 | 0 |
| 735 | 0 | 0.504 | 100000 | 0 | 0 |
| 736 | 0 | 0.672 | 100000 | 0 | 0 |
| 737 | 0 | 0.812 | 100000 | 0 | 0 |
| 738 | 0 | 0.812 | 100000 | 0 | 0 |
| 739 | 0 | 0.812 | 100000 | 0 | 0 |
| 740 | 0 | 0.756 | 100000 | 0 | 0 |
| 741 | 0 | 0.588 | 100000 | 0 | 0 |
| 742 | 0.5842 | 0.448 | 100000 | 0 | 0 |
| 743 | 0.0254 | 0.672 | 100000 | 0 | 0 |
| 744 | 0 | 0.756 | 100000 | 0 | 0 |
| 745 | 0 | 0.84 | 100000 | 0 | 0 |
| 746 | 0 | 0.812 | 100000 | 0 | 0 |
| 747 | 0 | 1.036 | 100000 | 0 | 0 |
| 748 | 0 | 1.008 | 100000 | 0 | 0 |
| 749 | 0 | 0.476 | 100000 | 0 | 0 |
| 750 | 0 | 0.2286 | 100000 | 0 | 0 |
| 751 | 0 | 0.588 | 100000 | 0 | 0 |
| 752 | 0 | 0.7 | 100000 | 0 | 0 |
| 753 | 0 | 0.868 | 100000 | 0.12414 | 0.0619 |
| 754 | 0 | 0.98 | 100000 | 0.13205 | 0.1261 |
| 755 | 0 | 0.784 | 100000 | 0.11236 | 0.1027 |
| 756 | 0 | 1.064 | 100000 | 0.12349 | 0.2313 |
| 757 | 0 | 0.868 | 100000 | 0.18013 | 0.1722 |
| 758 | 0 | 0.84 | 100000 | 0.08659 | 0.1569 |
| 759 | 0 | 0.98 | 100000 | 0.11324 | 0.1527 |
| 760 | 0 | 0.84 | 100000 | 0.11402 | 0.133 |

| | | | | | |
|-----|-----|-------|--------|---------|--------|
| 761 | 0 | 1.008 | 100000 | 0.17232 | 0.1964 |
| 762 | 0 | 0.84 | 100000 | 0.20876 | 0.2133 |
| 763 | 0 | 0.812 | 100000 | 0.10786 | 0.083 |
| 764 | 0 | 0.784 | 100000 | 0.13531 | 0.1593 |
| 765 | 0 | 0.812 | 100000 | 0.17341 | 0.2436 |
| 766 | 0 | 0.924 | 100000 | 0.11871 | 0.0912 |
| 767 | 0 | 1.008 | 100000 | 0.18895 | 0.1555 |
| 768 | 0 | 1.008 | 100000 | 0.14583 | 0.1398 |
| 769 | 0 | 1.232 | 100000 | 0.22332 | 0.2325 |
| 770 | 0 | 1.26 | 100000 | 0.21523 | 0.2779 |
| 771 | 0 | 0.616 | 100000 | 0.10368 | 0.29 |
| 772 | 0 | 0.644 | 100000 | 0.17166 | 0.262 |
| 773 | 0 | 0.98 | 100000 | 0.29678 | 0.294 |
| 774 | 0 | 0.868 | 100000 | 0.21691 | 0.276 |
| 775 | 0 | 0.532 | 100000 | 0.11503 | 0.267 |
| 776 | 0 | 1.064 | 100000 | 0.22736 | 0.3728 |
| 777 | 0 | 1.008 | 100000 | 0.23737 | 0.2945 |
| 778 | 0 | 0.616 | 100000 | 0.16989 | 0.2991 |
| 779 | 0 | 0.924 | 100000 | 0.26259 | 0.3573 |
| 780 | 0 | 0.924 | 100000 | 0.24443 | 0.2711 |
| 781 | 0 | 1.064 | 100000 | 0.27653 | 0.386 |
| 782 | 0 | 1.008 | 100000 | 0.28818 | 0.3765 |
| 783 | 3.4 | 0.952 | 100000 | 0.2775 | 0.3987 |
| 784 | 0 | 0.924 | 100000 | 0.22999 | 0.394 |
| 785 | 0 | 1.036 | 100000 | 0.2702 | 0.3289 |
| 786 | 0 | 1.008 | 100000 | 0.25776 | 0.3875 |
| 787 | 0 | 1.092 | 100000 | 0.318 | 0.4892 |
| 788 | 0 | 0.728 | 100000 | 0.22716 | 0.2863 |
| 789 | 0 | 1.036 | 100000 | 0.34378 | 0.455 |
| 790 | 0 | 1.036 | 100000 | 0.36651 | 0.476 |
| 791 | 0 | 1.176 | 100000 | 0.40651 | 0.493 |
| 792 | 0 | 1.12 | 100000 | 0.38093 | 0.477 |
| 793 | 0 | 1.064 | 100000 | 0.39681 | 0.47 |
| 794 | 0 | 1.036 | 100000 | 0.41456 | 0.4971 |
| 795 | 0 | 1.036 | 100000 | 0.4259 | 0.4211 |
| 796 | 2.5 | 1.204 | 100000 | 0.49997 | 0.5531 |
| 797 | 0.6 | 1.064 | 100000 | 0.45344 | 0.5545 |
| 798 | 0 | 1.008 | 100000 | 0.51715 | 0.452 |
| 799 | 0 | 1.12 | 100000 | 0.59904 | 0.4887 |
| 800 | 2.6 | 0.7 | 100000 | 0.4078 | 0.299 |
| 801 | 0 | 0.616 | 100000 | 0.47058 | 0.569 |
| 802 | 0 | 0.952 | 100000 | 0.96235 | 0.979 |
| 803 | 0 | 0.7 | 100000 | 0.56392 | 0.4883 |
| 804 | 0 | 0.98 | 100000 | 0.7508 | 0.5023 |
| 805 | 0 | 0.728 | 100000 | 0.4644 | 0.532 |
| 806 | 0 | 0.84 | 100000 | 0.66137 | 0.425 |
| 807 | 0 | 0.98 | 100000 | 0.69411 | 0.397 |
| 808 | 2 | 0.812 | 100000 | 0.589 | 0.386 |
| 809 | 0 | 1.12 | 100000 | 0.87162 | 0.6693 |
| 810 | 0 | 1.148 | 100000 | 0.87661 | 0.5964 |
| 811 | 0 | 1.148 | 100000 | 0.82493 | 0.598 |
| 812 | 3 | 1.26 | 100000 | 0.94465 | 0.687 |
| 813 | 0 | 1.008 | 100000 | 0.74749 | 0.4844 |
| 814 | 0 | 1.008 | 100000 | 0.77799 | 0.469 |
| 815 | 0 | 1.092 | 100000 | 0.85201 | 0.587 |
| 816 | 0 | 1.148 | 100000 | 0.90919 | 0.587 |
| 817 | 0 | 1.064 | 100000 | 0.82143 | 0.4899 |
| 818 | 0 | 1.092 | 100000 | 0.90955 | 0.479 |
| 819 | 0 | 1.12 | 100000 | 0.92878 | 0.559 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 820 | 0 | 1.092 | 100000 | 0.91124 | 0.5872 |
| 821 | 0 | 0.784 | 100000 | 0.57793 | 0.3574 |
| 822 | 0 | 0.924 | 100000 | 0.83616 | 0.4784 |
| 823 | 0 | 1.008 | 100000 | 0.83845 | 0.4909 |
| 824 | 2.4 | 0.924 | 100000 | 0.73844 | 0.393 |
| 825 | 0.8 | 0.672 | 100000 | 0.63307 | 0.3895 |
| 826 | 0 | 0.784 | 100000 | 0.64892 | 0.488 |
| 827 | 0 | 0.784 | 100000 | 0.65657 | 0.483 |
| 828 | 0 | 0.896 | 100000 | 0.80765 | 0.4753 |
| 829 | 0 | 0.756 | 100000 | 0.64617 | 0.3844 |
| 830 | 0 | 1.008 | 100000 | 0.92684 | 0.49 |
| 831 | 0 | 1.036 | 100000 | 0.95227 | 0.4799 |
| 832 | 0 | 1.092 | 100000 | 0.94735 | 0.5754 |
| 833 | 0 | 0.98 | 100000 | 0.83708 | 0.487 |
| 834 | 0 | 0.924 | 100000 | 0.88718 | 0.4864 |
| 835 | 0 | 0.84 | 100000 | 0.82658 | 0.4712 |
| 836 | 0.1524 | 1.064 | 100000 | 1.00477 | 0.57 |
| 837 | 0 | 1.232 | 100000 | 1.08283 | 0.5988 |
| 838 | 0 | 1.204 | 100000 | 1.01589 | 0.5768 |
| 839 | 0 | 1.148 | 100000 | 0.96956 | 0.4328 |
| 840 | 0 | 0.98 | 100000 | 0.84742 | 0.434 |
| 841 | 0 | 0.924 | 100000 | 0.81311 | 0.5047 |
| 842 | 0.0254 | 0.924 | 100000 | 0.94579 | 0.502 |
| 843 | 0.0508 | 0.84 | 100000 | 0.92654 | 0.552 |
| 844 | 0.0508 | 0.7 | 100000 | 0.55574 | 0.3949 |
| 845 | 0 | 0.98 | 100000 | 0.92174 | 0.7734 |
| 846 | 0 | 0.868 | 100000 | 0.81733 | 0.4773 |
| 847 | 0.5334 | 0.924 | 100000 | 0.93501 | 0.6594 |
| 848 | 0 | 0.588 | 100000 | 0.56451 | 0.3524 |
| 849 | 0 | 1.008 | 100000 | 1.20263 | 0.9357 |
| 850 | 0 | 0.952 | 100000 | 0.88251 | 0.549 |
| 851 | 0 | 0.98 | 100000 | 0.96517 | 0.5713 |
| 852 | 0 | 0.672 | 100000 | 0.64369 | 0.3883 |
| 853 | 0 | 0.56 | 100000 | 0.54577 | 0.3405 |
| 854 | 0.0254 | 0.812 | 100000 | 0.76144 | 0.5466 |
| 855 | 0.0254 | 0.616 | 100000 | 0.59533 | 0.3366 |
| 856 | 2.8034 | 0.84 | 100000 | 0.90405 | 0.7849 |
| 857 | 0 | 0.84 | 100000 | 0.88856 | 0.6421 |
| 858 | 0 | 0.784 | 100000 | 0.85041 | 0.6556 |
| 859 | 0 | 0.616 | 100000 | 0.668 | 0.5029 |
| 860 | 0 | 0.868 | 100000 | 1.02853 | 0.7011 |
| 861 | 0.77 | 0.952 | 100000 | 0.73154 | 0.553 |
| 862 | 0 | 0.952 | 100000 | 0.96031 | 0.5825 |
| 863 | 0 | 0.98 | 100000 | 1.03329 | 0.6605 |
| 864 | 0 | 0.812 | 100000 | 0.7861 | 0.5318 |
| 865 | 0 | 0.924 | 100000 | 0.87375 | 0.5848 |
| 866 | 0.0508 | 0.868 | 100000 | 0.81927 | 0.5106 |
| 867 | 0 | 0.952 | 100000 | 0.99288 | 0.5963 |
| 868 | 0 | 0.896 | 100000 | 0.85635 | 0.5146 |
| 869 | 0.0254 | 0.952 | 100000 | 0.989 | 0.6561 |
| 870 | 0 | 0.84 | 100000 | 0.83278 | 0.5219 |
| 871 | 0 | 0.756 | 100000 | 0.70674 | 0.4493 |
| 872 | 0.2794 | 0.504 | 100000 | 0.47559 | 0.282 |
| 873 | 0.0762 | 0.476 | 100000 | 0.44288 | 0.4177 |
| 874 | 0.4826 | 0.588 | 100000 | 0.631 | 0.5134 |
| 875 | 0.9906 | 0.588 | 100000 | 0.63755 | 0.4479 |
| 876 | 0 | 0.868 | 100000 | 0.96945 | 0.748 |
| 877 | 1.0922 | 0.896 | 100000 | 0.88936 | 0.6293 |
| 878 | 0.0508 | 0.728 | 100000 | 0.78582 | 0.5372 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 879 | 2.048 | 0.56 | 100000 | 0.5864 | 0.4438 |
| 880 | 0.1016 | 0.588 | 100000 | 0.68404 | 0.5331 |
| 881 | 1.44 | 0.896 | 100000 | 1.04223 | 0.699 |
| 882 | 0 | 1.008 | 100000 | 0.9927 | 0.6614 |
| 883 | 0.0254 | 0.84 | 100000 | 0.76594 | 0.4668 |
| 884 | 0 | 0.784 | 100000 | 0.83316 | 0.5027 |
| 885 | 0 | 0.98 | 100000 | 1.08702 | 0.609 |
| 886 | 0 | 0.952 | 100000 | 0.90246 | 0.5311 |
| 887 | 0 | 0.952 | 100000 | 0.91963 | 0.5144 |
| 888 | 0.5842 | 0.896 | 100000 | 0.78599 | 0.462 |
| 889 | 0.1524 | 0.84 | 100000 | 0.8329 | 0.5185 |
| 890 | 0 | 0.98 | 100000 | 1.0358 | 0.7778 |
| 891 | 0 | 0.896 | 100000 | 0.86035 | 0.5405 |
| 892 | 1.67 | 1.008 | 100000 | 0.90755 | 0.4821 |
| 893 | 0 | 0.84 | 100000 | 0.85694 | 0.5008 |
| 894 | 0.0508 | 0.784 | 100000 | 0.79668 | 0.5806 |
| 895 | 0 | 0.728 | 100000 | 0.72293 | 0.3965 |
| 896 | 0 | 0.896 | 100000 | 0.89256 | 0.5217 |
| 897 | 0.0508 | 0.896 | 100000 | 0.9128 | 0.4339 |
| 898 | 0 | 0.896 | 100000 | 0.9842 | 0.7383 |
| 899 | 0 | 0.812 | 100000 | 0.83395 | 0.6071 |
| 900 | 0 | 0.84 | 100000 | 0.80083 | 0.5699 |
| 901 | 0 | 0.616 | 100000 | 0.57878 | 0.3721 |
| 902 | 0 | 0.672 | 100000 | 0.74392 | 0.4456 |
| 903 | 2.1336 | 0.476 | 100000 | 0.49058 | 0.31 |
| 904 | 0 | 0.812 | 100000 | 1.19731 | 0.6617 |
| 905 | 0 | 0.868 | 100000 | 0.8747 | 0.4721 |
| 906 | 0 | 0.588 | 100000 | 0.57833 | 0.3197 |
| 907 | 0 | 0.784 | 100000 | 0.76184 | 0.4617 |
| 908 | 0 | 0.868 | 100000 | 0.87409 | 0.4652 |
| 909 | 0 | 0.616 | 100000 | 0.57921 | 0.3538 |
| 910 | 0 | 0.588 | 100000 | 0.725 | 0.3313 |
| 911 | 0 | 0.924 | 100000 | 0.98942 | 0.5655 |
| 912 | 0 | 0.896 | 100000 | 0.83585 | 0.5356 |
| 913 | 0.5842 | 0.476 | 100000 | 0.4185 | 0.2465 |
| 914 | 0 | 0.504 | 100000 | 0.58588 | 0.4134 |
| 915 | 0 | 0.616 | 100000 | 0.65277 | 0.5004 |
| 916 | 0.127 | 0.616 | 100000 | 0.6713 | 0.5004 |
| 917 | 0.2794 | 0.28 | 100000 | 0.33524 | 0.2355 |
| 918 | 0.8382 | 0.616 | 100000 | 0.77374 | 0.7838 |
| 919 | 0 | 0.532 | 100000 | 0.57152 | 0.4275 |
| 920 | 0 | 0.728 | 100000 | 0.8198 | 0.6347 |
| 921 | 0 | 0.7 | 100000 | 0.67996 | 0.4994 |
| 922 | 0 | 0.644 | 100000 | 0.6159 | 0.39 |
| 923 | 0.127 | 0.532 | 100000 | 0.56347 | 0.3492 |
| 924 | 0 | 0.672 | 100000 | 0.70648 | 0.4246 |
| 925 | 0 | 0.728 | 100000 | 0.71191 | 0.519 |
| 926 | 0 | 0.784 | 100000 | 0.75588 | 0.5058 |
| 927 | 0 | 0.784 | 100000 | 0.74656 | 0.5076 |
| 928 | 0 | 0.924 | 100000 | 0.87884 | 0.5478 |
| 929 | 0 | 0.728 | 100000 | 0.57579 | 0.3815 |
| 930 | 0 | 0.672 | 100000 | 0.56972 | 0.3478 |
| 931 | 0 | 0.756 | 100000 | 0.64707 | 0.4038 |
| 932 | 0 | 0.756 | 100000 | 0.66303 | 0.4038 |
| 933 | 0 | 0.756 | 100000 | 0.67461 | 0.4281 |
| 934 | 0 | 0.784 | 100000 | 0.65836 | 0.4622 |
| 935 | 0 | 0.756 | 100000 | 0.59389 | 0.3895 |
| 936 | 0 | 0.756 | 100000 | 0.62148 | 0.3805 |
| 937 | 0 | 0.644 | 100000 | 0.62837 | 0.3688 |

| | | | | | |
|-----|--------|-------|--------|---------|--------|
| 938 | 0 | 0.7 | 100000 | 0.62701 | 0.3998 |
| 939 | 0 | 0.644 | 100000 | 0.44264 | 0.3156 |
| 940 | 0 | 0.728 | 100000 | 0.55682 | 0.4062 |
| 941 | 0 | 0.7 | 100000 | 0.50621 | 0.3482 |
| 942 | 0 | 0.672 | 100000 | 0.52695 | 0.3193 |
| 943 | 0 | 0.756 | 100000 | 0.57739 | 0.3637 |
| 944 | 0 | 0.728 | 100000 | 0.44493 | 0.3164 |
| 945 | 0 | 0.7 | 100000 | 0.49635 | 0.3129 |
| 946 | 0 | 0.588 | 100000 | 0.43157 | 0.2987 |
| 947 | 0.5334 | 0.112 | 100000 | 0.10005 | 0.0617 |
| 948 | 0 | 0.392 | 100000 | 1.0578 | 1.0306 |
| 949 | 0 | 0.448 | 100000 | 0.39315 | 0.3677 |
| 950 | 0 | 0.504 | 100000 | 0.37939 | 0.322 |
| 951 | 0 | 0.616 | 100000 | 0.37831 | 0.3852 |
| 952 | 0 | 0.644 | 100000 | 0.34403 | 0.2976 |
| 953 | 0 | 0.616 | 100000 | 0.28049 | 0.2396 |
| 954 | 0 | 0.588 | 100000 | 0.21043 | 0.1399 |
| 955 | 0 | 0.616 | 100000 | 0.23105 | 0.1314 |
| 956 | 0 | 0.644 | 100000 | 0.20863 | 0.0744 |
| 957 | 0 | 0.476 | 100000 | 0.16025 | 0.0981 |
| 958 | 0 | 0.616 | 100000 | 0.21209 | 0.1294 |
| 959 | 0 | 0.728 | 100000 | 0.22724 | 0.1436 |
| 960 | 0 | 0.476 | 100000 | 0.15233 | 0.1084 |
| 961 | 0 | 0.56 | 100000 | 0.14502 | 0.0514 |
| 962 | 0 | 0.7 | 100000 | 0.22717 | 0.1102 |
| 963 | 0 | 0.504 | 100000 | 0.16174 | 0.1022 |
| 964 | 0 | 0.42 | 100000 | 0.10978 | 0.0703 |
| 965 | 0 | 0.56 | 100000 | 0.1488 | 0.0584 |
| 966 | 0 | 0.588 | 100000 | 0.18273 | 0.0792 |
| 967 | 0 | 0.644 | 100000 | 0.17279 | 0.081 |
| 968 | 0 | 0.532 | 100000 | 0.1414 | 0.0758 |
| 969 | 0 | 0.504 | 100000 | 0.13151 | 0.0575 |
| 970 | 0 | 0.504 | 100000 | 0.12523 | 0.0432 |
| 971 | 0 | 0.616 | 100000 | 0.17068 | 0.051 |
| 972 | 0 | 0.588 | 100000 | 0.13175 | 0.0957 |
| 973 | 0 | 0.616 | 100000 | 0.17134 | 0.0936 |
| 974 | 0 | 0.56 | 100000 | 0.14299 | 0.0713 |
| 975 | 0 | 0.672 | 100000 | 0.17344 | 0.0756 |
| 976 | 0 | 0.588 | 100000 | 0.13621 | 0.0764 |
| 977 | 0 | 0.532 | 100000 | 0.11304 | 0.0756 |
| 978 | 0 | 0.532 | 100000 | 0.1486 | 0.0761 |
| 979 | 0 | 0.448 | 100000 | 0.12891 | 0.0295 |
| 980 | 0 | 0.476 | 100000 | 0.12289 | 0.052 |
| 981 | 0 | 0.448 | 100000 | 0.08928 | 0.0346 |
| 982 | 0 | 0.476 | 100000 | 0.13887 | 0.0722 |
| 983 | 0 | 0.42 | 100000 | 0.09475 | 0.0559 |
| 984 | 0 | 0.392 | 100000 | 0 | 0 |
| 985 | 0 | 0.392 | 100000 | 0 | 0 |
| 986 | 0 | 0.364 | 100000 | 0 | 0 |
| 987 | 0 | 0.42 | 100000 | 0 | 0 |
| 988 | 0 | 0.42 | 100000 | 0 | 0 |
| 989 | 0 | 0.476 | 100000 | 0 | 0 |
| 990 | 0 | 0.448 | 100000 | 0 | 0 |
| 991 | 0 | 0.42 | 100000 | 0 | 0 |
| 992 | 0 | 0.336 | 100000 | 0 | 0 |
| 993 | 0 | 0.476 | 100000 | 0 | 0 |
| 994 | 0 | 0.392 | 100000 | 0 | 0 |
| 995 | 0.08 | 0.28 | 100000 | 0 | 0 |
| 996 | 0 | 0.28 | 100000 | 0 | 0 |

| | | | | | |
|------|--------|-------|--------|---|---|
| 997 | 0 | 0.28 | 100000 | 0 | 0 |
| 998 | 0 | 0.336 | 100000 | 0 | 0 |
| 999 | 0.178 | 0.392 | 100000 | 0 | 0 |
| 1000 | 0 | 0.224 | 100000 | 0 | 0 |
| 1001 | 0 | 0.28 | 100000 | 0 | 0 |
| 1002 | 0 | 0.336 | 100000 | 0 | 0 |
| 1003 | 0 | 0.364 | 100000 | 0 | 0 |
| 1004 | 0 | 0.336 | 100000 | 0 | 0 |
| 1005 | 0 | 0.448 | 100000 | 0 | 0 |
| 1006 | 0 | 0.364 | 100000 | 0 | 0 |
| 1007 | 0 | 0.308 | 100000 | 0 | 0 |
| 1008 | 0 | 0.364 | 100000 | 0 | 0 |
| 1009 | 0 | 0.364 | 100000 | 0 | 0 |
| 1010 | 0 | 0.308 | 100000 | 0 | 0 |
| 1011 | 0 | 0.28 | 100000 | 0 | 0 |
| 1012 | 0 | 0.14 | 100000 | 0 | 0 |
| 1013 | 0 | 0.056 | 100000 | 0 | 0 |
| 1014 | 0 | 0.196 | 100000 | 0 | 0 |
| 1015 | 0 | 0.224 | 100000 | 0 | 0 |
| 1016 | 0 | 0.308 | 100000 | 0 | 0 |
| 1017 | 0.2032 | 0.056 | 100000 | 0 | 0 |
| 1018 | 0 | 0.196 | 100000 | 0 | 0 |
| 1019 | 0 | 0.196 | 100000 | 0 | 0 |
| 1020 | 0 | 0.14 | 100000 | 0 | 0 |
| 1021 | 0 | 0.252 | 100000 | 0 | 0 |
| 1022 | 0 | 0.28 | 100000 | 0 | 0 |

Appendix C.5. Central Saltcedar Models Results

C-43

Key:
 CumP = Cummulative Precipitation, sum(vTop) = gross cummulative surface flux, Daily E = daily evaporation,
 10 day E = sum of previous 10 "Daily E" values, sum(vRoot) = cumulative root uptake, Daily T = daily transpiration
 10 day T = sum of previous 10 "Daily T" values, Cumm Dis = cummulative net groundwater discharge,
 10day ET = sum of "10day E" and 10day T' values ***NOTE: OUTPUT RESULTS DAYS 657-1022 = 1999 days 1-365**

| CSCMat ET=128.79 [89T,39.79E] ERROR=-2.83% | | | | | | | | | | | |
|--------------------------------------------|-------|-----------|---------|----------|----------|-----------|---------|----------|-----------|---------|----------|
| Time | CumP | sum(vTop) | Cum E | Daily E | 10day E | sum(vRoc) | Daily T | 10day T | sum(vBot) | Cum Dis | 10day ET |
| [day] | [cm] | [L] | [cm] | [mm/day] | [mm/10d] | [L] | [mm] | [mm/10d] | [L] | [cm] | [mm/10d] |
| 1 | 0 | -0.0216 | -0.0216 | -0.0216 | | 0 | 0 | | 0.832 | 0.832 | |
| 2 | 0 | 0.0484 | 0.0484 | 0.7 | | 0 | 0 | | 1.37 | 1.37 | |
| 3 | 0.61 | 0.0712 | 0.6808 | 6.324 | | 0 | 0 | | 1.88 | 1.2704 | |
| 4 | 0.711 | 0.0877 | 0.7989 | 1.181 | | 0 | 0 | | 2.38 | 1.6688 | |
| 5 | 0.711 | 0.101 | 0.8122 | 0.133 | | 0 | 0 | | 2.87 | 2.1588 | |
| 6 | 0.711 | 0.113 | 0.8242 | 0.12 | | 0 | 0 | | 3.35 | 2.6388 | |
| 7 | 0.711 | 0.124 | 0.8352 | 0.11 | | 0 | 0 | | 3.82 | 3.1088 | |
| 8 | 0.711 | 0.134 | 0.8452 | 0.1 | | 0 | 0 | | 4.29 | 3.5788 | |
| 9 | 0.711 | 0.143 | 0.8542 | 0.09 | | 0 | 0 | | 4.75 | 4.0388 | |
| 10 | 0.711 | 0.152 | 0.8632 | 0.09 | 8.8264 | 0 | 0 | 0 | 5.2 | 4.4888 | 8.8264 |
| 11 | 0.711 | 0.16 | 0.8712 | 0.08 | | 0 | 0 | | 5.66 | 4.9488 | |
| 12 | 1.295 | 0.0235 | 1.3189 | 4.477 | | 0 | 0 | | 6.08 | 4.7846 | |
| 13 | 1.321 | 0.113 | 1.4338 | 1.149 | | 0 | 0 | | 6.49 | 5.1692 | |
| 14 | 1.321 | 0.133 | 1.4538 | 0.2 | | 0 | 0 | | 6.89 | 5.5692 | |
| 15 | 1.321 | 0.146 | 1.4668 | 0.13 | | 0 | 0 | | 7.3 | 5.9792 | |
| 16 | 1.321 | 0.157 | 1.4778 | 0.11 | | 0 | 0 | | 7.68 | 6.3592 | |
| 17 | 1.321 | 0.167 | 1.4878 | 0.1 | | 0 | 0 | | 8.05 | 6.7292 | |
| 18 | 1.321 | 0.175 | 1.4958 | 0.08 | | 0 | 0 | | 8.39 | 7.0692 | |
| 19 | 1.321 | 0.183 | 1.5038 | 0.08 | | 0 | 0 | | 8.71 | 7.3892 | |
| 20 | 1.321 | 0.191 | 1.5118 | 0.08 | 6.486 | 0 | 0 | 0 | 9 | 7.6792 | 6.486 |
| 21 | 1.321 | 0.198 | 1.5188 | 0.07 | | 0 | 0 | | 9.26 | 7.9392 | |
| 22 | 1.321 | 0.204 | 1.5248 | 0.06 | | 0 | 0 | | 9.51 | 8.1892 | |
| 23 | 1.321 | 0.21 | 1.5308 | 0.06 | | 0.122 | 1.22 | | 9.74 | 8.4192 | |
| 24 | 1.321 | 0.215 | 1.5358 | 0.05 | | 0.253 | 1.31 | | 9.95 | 8.6292 | |
| 25 | 1.321 | 0.219 | 1.5398 | 0.04 | | 0.363 | 1.1 | | 10.2 | 8.8792 | |
| 26 | 1.321 | 0.223 | 1.5438 | 0.04 | | 0.485 | 1.22 | | 10.3 | 8.9792 | |
| 27 | 1.321 | 0.225 | 1.5458 | 0.02 | | 0.663 | 1.78 | | 10.5 | 9.1792 | |
| 28 | 1.321 | 0.228 | 1.5488 | 0.03 | | 0.748 | 0.85 | | 10.7 | 9.3792 | |
| 29 | 1.321 | 0.229 | 1.5498 | 0.01 | | 0.86 | 1.12 | | 10.8 | 9.4792 | |
| 30 | 1.321 | 0.231 | 1.5518 | 0.02 | 0.4 | 0.973 | 1.13 | 9.73 | 11 | 9.6792 | 10.13 |
| 31 | 1.321 | 0.232 | 1.5528 | 0.01 | | 1.14 | 1.67 | | 11.2 | 9.8792 | |
| 32 | 1.321 | 0.233 | 1.5538 | 0.01 | | 1.35 | 2.1 | | 11.3 | 9.9792 | |
| 33 | 1.321 | 0.234 | 1.5548 | 0.01 | | 1.45 | 1 | | 11.5 | 10.1792 | |
| 34 | 1.321 | 0.235 | 1.5558 | 0.01 | | 1.59 | 1.4 | | 11.7 | 10.3792 | |
| 35 | 1.321 | 0.235 | 1.5558 | 0 | | 1.76 | 1.7 | | 11.9 | 10.5792 | |
| 36 | 1.321 | 0.235 | 1.5558 | 0 | | 1.88 | 1.2 | | 12 | 10.6792 | |
| 37 | 1.321 | 0.235 | 1.5558 | 0 | | 2.06 | 1.8 | | 12.2 | 10.8792 | |
| 38 | 1.321 | 0.236 | 1.5568 | 0.01 | | 2.2 | 1.4 | | 12.4 | 11.0792 | |
| 39 | 1.321 | 0.236 | 1.5568 | 0 | | 2.42 | 2.2 | | 12.5 | 11.1792 | |
| 40 | 1.321 | 0.236 | 1.5568 | 0 | 0.05 | 2.64 | 2.2 | 16.67 | 12.7 | 11.3792 | 16.72 |
| 41 | 1.321 | 0.236 | 1.5568 | 0 | | 2.74 | 1 | | 12.9 | 11.5792 | |
| 42 | 1.321 | 0.236 | 1.5568 | 0 | | 2.9 | 1.6 | | 13.1 | 11.7792 | |
| 43 | 1.321 | 0.236 | 1.5568 | 0 | | 3.17 | 2.7 | | 13.2 | 11.8792 | |
| 44 | 1.321 | 0.236 | 1.5568 | 0 | | 3.37 | 2 | | 13.4 | 12.0792 | |
| 45 | 1.321 | 0.236 | 1.5568 | 0 | | 3.48 | 1.1 | | 13.6 | 12.2792 | |
| 46 | 1.321 | 0.236 | 1.5568 | 0 | | 3.67 | 1.9 | | 13.8 | 12.4792 | |
| 47 | 1.321 | 0.236 | 1.5568 | 0 | | 3.87 | 2 | | 13.9 | 12.5792 | |
| 48 | 1.321 | 0.236 | 1.5568 | 0 | | 4.01 | 1.4 | | 14.1 | 12.7792 | |
| 49 | 1.321 | 0.236 | 1.5568 | 0 | | 4.22 | 2.1 | | 14.3 | 12.9792 | |
| 50 | 1.321 | 0.236 | 1.5568 | 0 | 0 | 4.42 | 2 | 17.8 | 14.5 | 13.1792 | 17.8 |
| 51 | 1.321 | 0.236 | 1.5568 | 0 | | 4.63 | 2.1 | | 14.7 | 13.3792 | |
| 52 | 1.321 | 0.236 | 1.5568 | 0 | | 4.86 | 2.3 | | 14.9 | 13.5792 | |
| 53 | 1.321 | 0.236 | 1.5568 | 0 | | 5.08 | 2.2 | | 15.1 | 13.7792 | |
| 54 | 1.321 | 0.236 | 1.5568 | 0 | | 5.26 | 1.8 | | 15.3 | 13.9792 | |
| 55 | 1.321 | 0.236 | 1.5568 | 0 | | 5.46 | 2 | | 15.5 | 14.1792 | |

| | | | | | | | | | | | | |
|-----|-------|-------|--------|-------|-------|------|-----|------|------|---------|--------|------|
| 56 | 1.321 | 0.236 | 1.5568 | 0 | | 5.65 | 1.9 | | 15.6 | 14.2792 | | C-44 |
| 57 | 1.321 | 0.236 | 1.5568 | 0 | | 5.88 | 2.3 | | 15.8 | 14.4792 | | |
| 58 | 1.321 | 0.236 | 1.5568 | 0 | | 6.03 | 1.5 | | 16.1 | 14.7792 | | |
| 59 | 1.321 | 0.236 | 1.5568 | 0 | | 6.26 | 2.3 | | 16.3 | 14.9792 | | |
| 60 | 1.321 | 0.236 | 1.5568 | 0 | 0 | 6.49 | 2.3 | 20.7 | 16.5 | 15.1792 | 20.7 | |
| 61 | 1.321 | 0.236 | 1.5568 | 0 | | 6.75 | 2.6 | | 16.7 | 15.3792 | | |
| 62 | 1.321 | 0.236 | 1.5568 | 0 | | 6.98 | 2.3 | | 16.9 | 15.5792 | | |
| 63 | 1.321 | 0.236 | 1.5568 | 0 | | 7.23 | 2.5 | | 17.1 | 15.7792 | | |
| 64 | 1.321 | 0.236 | 1.5568 | 0 | | 7.48 | 2.5 | | 17.3 | 15.9792 | | |
| 65 | 1.321 | 0.236 | 1.5568 | 0 | | 7.74 | 2.6 | | 17.5 | 16.1792 | | |
| 66 | 1.321 | 0.236 | 1.5568 | 0 | | 8.05 | 3.1 | | 17.7 | 16.3792 | | |
| 67 | 1.321 | 0.236 | 1.5568 | 0 | | 8.32 | 2.7 | | 18 | 16.6792 | | |
| 68 | 1.321 | 0.236 | 1.5568 | 0 | | 8.63 | 3.1 | | 18.2 | 16.8792 | | |
| 69 | 1.321 | 0.236 | 1.5568 | 0 | | 8.99 | 3.6 | | 18.4 | 17.0792 | | |
| 70 | 1.676 | 0.236 | 1.9124 | 3.556 | 3.556 | 9.23 | 2.4 | 27.4 | 18.7 | 17.0236 | 30.956 | |
| 71 | 2.337 | 0.191 | 2.5278 | 6.154 | | 9.51 | 2.8 | | 18.9 | 16.5632 | | |
| 72 | 2.337 | 0.21 | 2.5468 | 0.19 | | 10.1 | 5.9 | | 19.2 | 16.8632 | | |
| 73 | 2.337 | 0.212 | 2.5488 | 0.02 | | 10.4 | 3 | | 19.4 | 17.0632 | | |
| 74 | 2.337 | 0.212 | 2.5488 | 0 | | 10.9 | 5 | | 19.7 | 17.3632 | | |
| 75 | 2.388 | 0.212 | 2.5996 | 0.508 | | 11.1 | 2 | | 20 | 17.6124 | | |
| 76 | 2.464 | 0.212 | 2.6758 | 0.762 | | 11.5 | 4 | | 20.4 | 17.9362 | | |
| 77 | 2.464 | 0.212 | 2.6758 | 0 | | 11.9 | 4 | | 20.8 | 18.3362 | | |
| 78 | 2.464 | 0.212 | 2.6758 | 0 | | 12.3 | 4 | | 21.2 | 18.7362 | | |
| 79 | 2.464 | 0.212 | 2.6758 | 0 | | 12.8 | 5 | | 21.6 | 19.1362 | | |
| 80 | 2.464 | 0.212 | 2.6758 | 0 | 7.634 | 13.3 | 5 | 40.7 | 22 | 19.5362 | 48.334 | |
| 81 | 2.464 | 0.212 | 2.6758 | 0 | | 13.7 | 4 | | 22.5 | 20.0362 | | |
| 82 | 2.464 | 0.212 | 2.6758 | 0 | | 14.3 | 6 | | 23 | 20.5362 | | |
| 83 | 2.464 | 0.212 | 2.6758 | 0 | | 14.7 | 4 | | 23.4 | 20.9362 | | |
| 84 | 2.464 | 0.212 | 2.6758 | 0 | | 15.2 | 5 | | 23.9 | 21.4362 | | |
| 85 | 2.464 | 0.212 | 2.6758 | 0 | | 15.6 | 4 | | 24.4 | 21.9362 | | |
| 86 | 2.464 | 0.212 | 2.6758 | 0 | | 16.1 | 5 | | 24.9 | 22.4362 | | |
| 87 | 2.464 | 0.212 | 2.6758 | 0 | | 16.6 | 5 | | 25.4 | 22.9362 | | |
| 88 | 2.464 | 0.212 | 2.6758 | 0 | | 17.1 | 5 | | 26 | 23.5362 | | |
| 89 | 2.464 | 0.212 | 2.6758 | 0 | | 17.6 | 5 | | 26.5 | 24.0362 | | |
| 90 | 2.464 | 0.212 | 2.6758 | 0 | 0 | 18.1 | 5 | 48 | 27 | 24.5362 | 48 | |
| 91 | 2.464 | 0.212 | 2.6758 | 0 | | 18.5 | 4 | | 27.5 | 25.0362 | | |
| 92 | 2.464 | 0.212 | 2.6758 | 0 | | 18.9 | 4 | | 28 | 25.5362 | | |
| 93 | 2.464 | 0.212 | 2.6758 | 0 | | 19.4 | 5 | | 28.4 | 25.9362 | | |
| 94 | 2.464 | 0.212 | 2.6758 | 0 | | 19.8 | 4 | | 28.8 | 26.3362 | | |
| 95 | 2.819 | 0.212 | 3.0314 | 3.556 | | 20.1 | 3 | | 29.3 | 26.4806 | | |
| 96 | 2.819 | 0.212 | 3.0314 | 0 | | 20.5 | 4 | | 29.7 | 26.8806 | | |
| 97 | 2.819 | 0.212 | 3.0314 | 0 | | 20.8 | 3 | | 30.1 | 27.2806 | | |
| 98 | 2.819 | 0.212 | 3.0314 | 0 | | 21.3 | 5 | | 30.6 | 27.7806 | | |
| 99 | 2.819 | 0.212 | 3.0314 | 0 | | 21.6 | 3 | | 31 | 28.1806 | | |
| 100 | 2.819 | 0.212 | 3.0314 | 0 | 3.556 | 22.1 | 5 | 40 | 31.4 | 28.5806 | 43.556 | |
| 101 | 2.819 | 0.212 | 3.0314 | 0 | | 22.6 | 5 | | 31.9 | 29.0806 | | |
| 102 | 2.819 | 0.212 | 3.0314 | 0 | | 23.1 | 5 | | 32.4 | 29.5806 | | |
| 103 | 2.819 | 0.212 | 3.0314 | 0 | | 23.5 | 4 | | 32.8 | 29.9806 | | |
| 104 | 2.819 | 0.212 | 3.0314 | 0 | | 24 | 5 | | 33.3 | 30.4806 | | |
| 105 | 2.819 | 0.212 | 3.0314 | 0 | | 24.4 | 4 | | 33.7 | 30.8806 | | |
| 106 | 2.972 | 0.212 | 3.1838 | 1.524 | | 24.9 | 5 | | 34.1 | 31.1282 | | |
| 107 | 2.972 | 0.212 | 3.1838 | 0 | | 25.4 | 5 | | 34.5 | 31.5282 | | |
| 108 | 2.972 | 0.212 | 3.1838 | 0 | | 25.9 | 5 | | 34.9 | 31.9282 | | |
| 109 | 2.972 | 0.212 | 3.1838 | 0 | | 26.4 | 5 | | 35.2 | 32.2282 | | |
| 110 | 2.972 | 0.212 | 3.1838 | 0 | 1.524 | 26.8 | 4 | 47 | 35.6 | 32.6282 | 48.524 | |
| 111 | 2.972 | 0.212 | 3.1838 | 0 | | 27.2 | 4 | | 36 | 33.0282 | | |
| 112 | 2.997 | 0.212 | 3.2092 | 0.254 | | 27.7 | 5 | | 36.3 | 33.3028 | | |
| 113 | 3.048 | 0.212 | 3.26 | 0.508 | | 28.1 | 4 | | 36.5 | 33.452 | | |
| 114 | 3.099 | 0.212 | 3.3108 | 0.508 | | 28.4 | 3 | | 36.8 | 33.7012 | | |
| 115 | 3.099 | 0.212 | 3.3108 | 0 | | 28.8 | 4 | | 37.2 | 34.1012 | | |
| 116 | 3.099 | 0.212 | 3.3108 | 0 | | 29.2 | 4 | | 37.6 | 34.5012 | | |
| 117 | 3.632 | 0.212 | 3.8442 | 5.334 | | 29.6 | 4 | | 38 | 34.3678 | | |
| 118 | 3.632 | 0.212 | 3.8442 | 0 | | 29.9 | 3 | | 38.4 | 34.7678 | | |
| 119 | 3.632 | 0.212 | 3.8442 | 0 | | 30.5 | 6 | | 38.8 | 35.1678 | | |
| 120 | 3.632 | 0.212 | 3.8442 | 0 | 6.604 | 30.9 | 4 | 41 | 39.3 | 35.6678 | 47.604 | |
| 121 | 3.632 | 0.212 | 3.8442 | 0 | | 31.4 | 5 | | 39.8 | 36.1678 | | |
| 122 | 3.632 | 0.212 | 3.8442 | 0 | | 31.7 | 3 | | 40.3 | 36.6678 | | |

| | | | | | | | | | | |
|-----|-------|--------|---------|-------|--------|------|---|------|---------|--------|
| 123 | 3.632 | 0.212 | 3.8442 | 0 | | 31.9 | 2 | 40.8 | 37.1678 | C-45 |
| 124 | 3.658 | 0.212 | 3.8696 | 0.254 | | 32.3 | 4 | 41.2 | 37.5424 | |
| 125 | 3.683 | 0.212 | 3.895 | 0.254 | | 32.6 | 3 | 41.5 | 37.817 | |
| 126 | 5.486 | -0.751 | 4.7354 | 8.404 | | 33 | 4 | 41.8 | 36.3136 | |
| 127 | 6.147 | -0.571 | 5.5758 | 8.404 | | 33.6 | 6 | 42.1 | 35.9532 | |
| 128 | 6.172 | -0.486 | 5.6862 | 1.104 | | 34.1 | 5 | 42.5 | 36.3278 | |
| 129 | 6.477 | -0.464 | 6.013 | 3.268 | | 34.5 | 4 | 42.8 | 36.323 | |
| 130 | 6.477 | -0.455 | 6.022 | 0.09 | 21.778 | 35.1 | 6 | 42.1 | 36.623 | 63.778 |
| 131 | 6.477 | -0.452 | 6.025 | 0.03 | | 35.5 | 4 | 43.5 | 37.023 | |
| 132 | 6.477 | -0.451 | 6.026 | 0.01 | | 36.1 | 6 | 43.9 | 37.423 | |
| 133 | 6.477 | -0.451 | 6.026 | 0 | | 36.6 | 5 | 44.2 | 37.723 | |
| 134 | 6.477 | -0.451 | 6.026 | 0 | | 37 | 4 | 44.5 | 38.023 | |
| 135 | 6.477 | -0.45 | 6.027 | 0.01 | | 37.4 | 4 | 44.8 | 38.323 | |
| 136 | 6.528 | -0.45 | 6.0778 | 0.508 | | 37.8 | 4 | 45.2 | 38.6722 | |
| 137 | 6.528 | -0.45 | 6.0778 | 0 | | 38.3 | 5 | 45.5 | 38.9722 | |
| 138 | 6.528 | -0.45 | 6.0778 | 0 | | 38.7 | 4 | 45.9 | 39.3722 | |
| 139 | 6.553 | -0.45 | 6.1032 | 0.254 | | 39.2 | 5 | 46.4 | 39.8468 | |
| 140 | 6.553 | -0.45 | 6.1032 | 0 | 0.812 | 39.5 | 3 | 46.8 | 40.2468 | 44.812 |
| 141 | 6.553 | -0.45 | 6.1032 | 0 | | 39.9 | 4 | 47.2 | 40.6468 | |
| 142 | 6.833 | -0.45 | 6.3826 | 2.794 | | 40.1 | 2 | 47.4 | 40.5674 | |
| 143 | 6.909 | -0.45 | 6.4588 | 0.762 | | 40.3 | 2 | 47.7 | 40.7912 | |
| 144 | 7.391 | -0.45 | 6.9414 | 4.826 | | 40.6 | 3 | 48 | 40.6086 | |
| 145 | 8.382 | -0.853 | 7.529 | 5.876 | | 40.9 | 3 | 48.2 | 39.818 | |
| 146 | 8.382 | -0.709 | 7.673 | 1.44 | | 41.5 | 6 | 48.5 | 40.118 | |
| 147 | 9.474 | -0.905 | 8.5692 | 8.962 | | 42 | 5 | 48.8 | 39.3258 | |
| 148 | 9.525 | -0.804 | 8.721 | 1.518 | | 42.4 | 4 | 49 | 39.475 | |
| 149 | 9.83 | -0.793 | 9.0368 | 3.158 | | 42.7 | 3 | 49.3 | 39.4702 | |
| 150 | 9.931 | -0.79 | 9.1414 | 1.046 | 30.382 | 43.1 | 4 | 49.5 | 39.5686 | 66.382 |
| 151 | 9.957 | -0.788 | 9.1688 | 0.274 | | 43.6 | 5 | 49.8 | 39.8432 | |
| 152 | 9.957 | -0.788 | 9.1688 | 0 | | 44.1 | 5 | 50.1 | 40.1432 | |
| 153 | 9.982 | -0.788 | 9.1942 | 0.254 | | 44.5 | 4 | 50.3 | 40.3178 | |
| 154 | 9.982 | -0.787 | 9.1952 | 0.01 | | 44.9 | 4 | 50.5 | 40.5178 | |
| 155 | 9.982 | -0.787 | 9.1952 | 0 | | 45.4 | 5 | 50.7 | 40.7178 | |
| 156 | 9.982 | -0.787 | 9.1952 | 0 | | 45.9 | 5 | 50.7 | 40.7178 | |
| 157 | 9.982 | -0.787 | 9.1952 | 0 | | 46.3 | 4 | 50.7 | 40.7178 | |
| 158 | 10.57 | -0.787 | 9.7794 | 5.842 | | 46.7 | 4 | 50.7 | 40.1336 | |
| 159 | 10.72 | -0.787 | 9.9318 | 1.524 | | 47.1 | 4 | 50.6 | 39.8812 | |
| 160 | 10.72 | -0.787 | 9.9318 | 0 | 7.904 | 47.6 | 5 | 50.9 | 40.1812 | 52.904 |
| 161 | 10.72 | -0.787 | 9.9318 | 0 | | 48 | 4 | 51.3 | 40.5812 | |
| 162 | 11.18 | -0.787 | 10.389 | 4.572 | | 48.4 | 4 | 51.7 | 40.524 | |
| 163 | 11.18 | -0.787 | 10.389 | 0 | | 48.8 | 4 | 52.3 | 41.124 | |
| 164 | 11.23 | -0.787 | 10.4398 | 0.508 | | 49.2 | 4 | 52.8 | 41.5732 | |
| 165 | 11.23 | -0.787 | 10.4398 | 0 | | 49.5 | 3 | 53.3 | 42.0732 | |
| 166 | 11.46 | -0.787 | 10.6684 | 2.286 | | 50 | 5 | 53.8 | 42.3446 | |
| 167 | 11.51 | -0.787 | 10.7192 | 0.508 | | 50.4 | 4 | 54.4 | 42.8938 | |
| 168 | 11.51 | -0.787 | 10.7192 | 0 | | 50.8 | 4 | 55 | 43.4938 | |
| 169 | 11.51 | -0.787 | 10.7192 | 0 | | 51.2 | 4 | 55.6 | 44.0938 | |
| 170 | 11.51 | -0.787 | 10.7192 | 0 | 7.874 | 51.6 | 4 | 56.2 | 44.6938 | 47.874 |
| 171 | 11.51 | -0.787 | 10.7192 | 0 | | 51.8 | 2 | 56.8 | 45.2938 | |
| 172 | 11.51 | -0.787 | 10.7192 | 0 | | 52.2 | 4 | 57.4 | 45.8938 | |
| 173 | 13.64 | -2.44 | 11.1998 | 4.806 | | 52.4 | 2 | 57.9 | 44.2602 | |
| 174 | 13.64 | -1.96 | 11.6798 | 4.8 | | 53.1 | 7 | 58.4 | 44.7602 | |
| 175 | 13.64 | -1.88 | 11.7598 | 0.8 | | 53.7 | 6 | 58.9 | 45.2602 | |
| 176 | 13.64 | -1.85 | 11.7898 | 0.3 | | 54 | 3 | 59.4 | 45.7602 | |
| 177 | 13.64 | -1.83 | 11.8098 | 0.2 | | 54.5 | 5 | 60 | 46.3602 | |
| 178 | 13.64 | -1.82 | 11.8198 | 0.1 | | 55 | 5 | 60.5 | 46.8602 | |
| 179 | 13.64 | -1.82 | 11.8198 | 0 | | 55.4 | 4 | 61 | 47.3602 | |
| 180 | 13.64 | -1.82 | 11.8198 | 0 | 11.006 | 55.8 | 4 | 61.5 | 47.8602 | 53.006 |
| 181 | 13.64 | -1.82 | 11.8198 | 0 | | 56.3 | 5 | 62 | 48.3602 | |
| 182 | 13.64 | -1.82 | 11.8198 | 0 | | 56.7 | 4 | 62.7 | 49.0602 | |
| 183 | 14.22 | -1.93 | 12.294 | 4.742 | | 56.9 | 2 | 63.6 | 49.376 | |
| 184 | 14.25 | -1.89 | 12.3594 | 0.654 | | 57.2 | 3 | 64.3 | 50.0506 | |
| 185 | 14.5 | -1.88 | 12.6234 | 2.64 | | 57.5 | 3 | 65.1 | 50.5966 | |
| 186 | 14.63 | -1.88 | 12.7504 | 1.27 | | 57.8 | 3 | 65.9 | 51.2696 | |
| 187 | 14.91 | -1.88 | 13.0298 | 2.794 | | 57.9 | 1 | 67 | 52.0902 | |
| 188 | 15.75 | -2.1 | 13.648 | 6.182 | | 58.3 | 4 | 68.8 | 53.052 | |
| 189 | 15.77 | -2.02 | 13.7534 | 1.054 | | 58.5 | 2 | 70.4 | 54.6266 | |

| | | | | | | | | | | | | |
|-----|-------|-------|---------|--------|--------|------|---|----|------|---------|---------|------|
| 190 | 15.77 | -2.02 | 13.7534 | 0 | 19.336 | 58.8 | 3 | 30 | 71.7 | 55.9266 | 49.336 | C-46 |
| 191 | 15.77 | -2.01 | 13.7634 | 0.1 | | 59.1 | 3 | | 72.8 | 57.0266 | | |
| 192 | 15.77 | -2.01 | 13.7634 | 0 | | 59.3 | 2 | | 74.1 | 58.3266 | | |
| 193 | 15.9 | -2.01 | 13.8904 | 1.27 | | 59.4 | 1 | | 75.4 | 59.4996 | | |
| 194 | 15.93 | -2.01 | 13.9157 | 0.2534 | | 59.7 | 3 | | 76.4 | 60.4743 | | |
| 195 | 15.93 | -2.01 | 13.9157 | 0 | | 59.9 | 2 | | 77.4 | 61.4743 | | |
| 196 | 15.93 | -2.01 | 13.9157 | 0 | | 60.1 | 2 | | 78.2 | 62.2743 | | |
| 197 | 15.93 | -2.01 | 13.9157 | 0 | | 60.4 | 3 | | 79 | 63.0743 | | |
| 198 | 15.93 | -2.01 | 13.9157 | 0 | | 60.7 | 3 | | 79.6 | 63.6743 | | |
| 199 | 15.93 | -2.01 | 13.9157 | 0 | | 60.9 | 2 | | 80.1 | 64.1743 | | |
| 200 | 15.93 | -2.01 | 13.9157 | 0 | 1.6234 | 61.1 | 2 | 23 | 80.6 | 64.6743 | 24.6234 | |
| 201 | 15.93 | -2.01 | 13.9157 | 0 | | 61.4 | 3 | | 81 | 65.0743 | | |
| 202 | 15.93 | -2.01 | 13.9157 | 0 | | 61.7 | 3 | | 81.2 | 65.2743 | | |
| 203 | 15.93 | -2.01 | 13.9157 | 0 | | 61.9 | 2 | | 81.5 | 65.5743 | | |
| 204 | 15.93 | -2.01 | 13.9157 | 0 | | 62.2 | 3 | | 81.7 | 65.7743 | | |
| 205 | 15.93 | -2.01 | 13.9157 | 0 | | 62.5 | 3 | | 81.8 | 65.8743 | | |
| 206 | 15.93 | -2.01 | 13.9157 | 0 | | 62.8 | 3 | | 81.9 | 65.9743 | | |
| 207 | 15.93 | -2.01 | 13.9157 | 0 | | 63.1 | 3 | | 82.1 | 66.1743 | | |
| 208 | 15.93 | -2.01 | 13.9157 | 0 | | 63.4 | 3 | | 82.2 | 66.2743 | | |
| 209 | 15.93 | -2.01 | 13.9157 | 0 | | 63.7 | 3 | | 82.4 | 66.4743 | | |
| 210 | 15.93 | -2.01 | 13.9157 | 0 | 0 | 63.9 | 2 | 28 | 82.6 | 66.6743 | 28 | |
| 211 | 15.93 | -2.01 | 13.9157 | 0 | | 64.2 | 3 | | 82.9 | 66.9743 | | |
| 212 | 15.93 | -2.01 | 13.9157 | 0 | | 64.5 | 3 | | 83.3 | 67.3743 | | |
| 213 | 15.93 | -2.01 | 13.9157 | 0 | | 64.8 | 3 | | 83.8 | 67.8743 | | |
| 214 | 15.93 | -2.01 | 13.9157 | 0 | | 65 | 2 | | 84.2 | 68.2743 | | |
| 215 | 15.93 | -2.01 | 13.9157 | 0 | | 65.2 | 2 | | 84.5 | 68.5743 | | |
| 216 | 16.1 | -2.01 | 14.0935 | 1.778 | | 65.4 | 2 | | 84.8 | 68.6965 | | |
| 217 | 16.64 | -2.43 | 14.2069 | 1.134 | | 65.5 | 1 | | 85 | 68.3631 | | |
| 218 | 16.64 | -2.29 | 14.3469 | 1.4 | | 66.1 | 6 | | 85.2 | 68.5631 | | |
| 219 | 16.64 | -2.27 | 14.3669 | 0.2 | | 66.4 | 3 | | 85.3 | 68.6631 | | |
| 220 | 16.64 | -2.27 | 14.3669 | 0 | 4.512 | 66.6 | 2 | 27 | 85.4 | 68.7631 | 31.512 | |
| 221 | 16.64 | -2.26 | 14.3769 | 0.1 | | 66.8 | 2 | | 85.5 | 68.8631 | | |
| 222 | 16.64 | -2.26 | 14.3769 | 0 | | 67 | 2 | | 85.7 | 69.0631 | | |
| 223 | 16.64 | -2.26 | 14.3769 | 0 | | 67.2 | 2 | | 85.8 | 69.1631 | | |
| 224 | 16.64 | -2.26 | 14.3769 | 0 | | 67.4 | 2 | | 85.9 | 69.2631 | | |
| 225 | 16.64 | -2.26 | 14.3769 | 0 | | 67.5 | 1 | | 85.9 | 69.2631 | | |
| 226 | 16.64 | -2.26 | 14.3769 | 0 | | 67.6 | 1 | | 86 | 69.3631 | | |
| 227 | 16.64 | -2.26 | 14.3769 | 0 | | 67.7 | 1 | | 86.1 | 69.4631 | | |
| 228 | 16.64 | -2.26 | 14.3769 | 0 | | 67.9 | 2 | | 86.2 | 69.5631 | | |
| 229 | 16.64 | -2.26 | 14.3769 | 0 | | 68 | 1 | | 86.4 | 69.7631 | | |
| 230 | 16.64 | -2.26 | 14.3769 | 0 | 0.1 | 68.1 | 1 | 15 | 86.5 | 69.8631 | 15.1 | |
| 231 | 16.64 | -2.26 | 14.3769 | 0 | | 68.2 | 1 | | 86.7 | 70.0631 | | |
| 232 | 16.64 | -2.26 | 14.3769 | 0 | | 68.3 | 1 | | 86.8 | 70.1631 | | |
| 233 | 16.64 | -2.26 | 14.3769 | 0 | | 68.4 | 1 | | 87 | 70.3631 | | |
| 234 | 16.64 | -2.26 | 14.3769 | 0 | | 68.5 | 1 | | 87.1 | 70.4631 | | |
| 235 | 16.64 | -2.26 | 14.3769 | 0 | | 68.6 | 1 | | 87.3 | 70.6631 | | |
| 236 | 16.64 | -2.26 | 14.3769 | 0 | | 68.7 | 1 | | 87.4 | 70.7631 | | |
| 237 | 16.64 | -2.26 | 14.3769 | 0 | | 68.8 | 1 | | 87.4 | 70.7631 | | |
| 238 | 16.64 | -2.26 | 14.3769 | 0 | | 68.9 | 1 | | 87.5 | 70.8631 | | |
| 239 | 16.64 | -2.26 | 14.3769 | 0 | | 68.9 | 0 | | 87.6 | 70.9631 | | |
| 240 | 16.64 | -2.26 | 14.3769 | 0 | 0 | 69 | 1 | 9 | 87.6 | 70.9631 | 9 | |
| 241 | 16.64 | -2.26 | 14.3769 | 0 | | 69.1 | 1 | | 87.7 | 71.0631 | | |
| 242 | 16.64 | -2.26 | 14.3769 | 0 | | 69.2 | 1 | | 88 | 71.3631 | | |
| 243 | 16.64 | -2.26 | 14.3769 | 0 | | 69.3 | 1 | | 88.2 | 71.5631 | | |
| 244 | 16.64 | -2.26 | 14.3769 | 0 | | 69.4 | 1 | | 88.4 | 71.7631 | | |
| 245 | 16.64 | -2.26 | 14.3769 | 0 | | 69.5 | 1 | | 88.7 | 72.0631 | | |
| 246 | 16.64 | -2.26 | 14.3769 | 0 | | 69.6 | 1 | | 88.9 | 72.2631 | | |
| 247 | 16.64 | -2.26 | 14.3769 | 0 | | 69.7 | 1 | | 89 | 72.3631 | | |
| 248 | 16.64 | -2.26 | 14.3769 | 0 | | 69.8 | 1 | | 89.1 | 72.4631 | | |
| 249 | 16.64 | -2.26 | 14.3769 | 0 | | 69.9 | 1 | | 89.2 | 72.5631 | | |
| 250 | 16.64 | -2.26 | 14.3769 | 0 | 0 | 69.9 | 0 | 9 | 89.2 | 72.5631 | 9 | |
| 251 | 16.64 | -2.26 | 14.3769 | 0 | | 70 | 1 | | 89.2 | 72.5631 | | |
| 252 | 16.64 | -2.26 | 14.3769 | 0 | | 70.1 | 1 | | 89.3 | 72.6631 | | |
| 253 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 1 | | 89.2 | 72.5631 | | |
| 254 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | | 89.1 | 72.4631 | | |
| 255 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | | 89.1 | 72.4631 | | |
| 256 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | | 89.1 | 72.4631 | | |

| | | | | | | | | | | | |
|-----|-------|-------|---------|-------|-------|------|---|------|---------|---------|-------|
| 257 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | 89.1 | 72.4631 | C-47 | |
| 258 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | 89.3 | 72.6631 | | |
| 259 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | 89.9 | 73.2631 | | |
| 260 | 16.64 | -2.26 | 14.3769 | 0 | 0 | 70.2 | 0 | 3 | 91.3 | 74.6631 | 3 |
| 261 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | | 92.4 | 75.7631 | |
| 262 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | | 93 | 76.3631 | |
| 263 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | | 93.4 | 76.7631 | |
| 264 | 16.64 | -2.26 | 14.3769 | 0 | | 70.2 | 0 | | 93.7 | 77.0631 | |
| 265 | 16.69 | -2.26 | 14.4277 | 0.508 | | 70.2 | 0 | | 94 | 77.3123 | |
| 266 | 16.69 | -2.26 | 14.4277 | 0 | | 70.2 | 0 | | 94.3 | 77.6123 | |
| 267 | 16.69 | -2.26 | 14.4277 | 0 | | 70.2 | 0 | | 94.5 | 77.8123 | |
| 268 | 16.69 | -2.26 | 14.4277 | 0 | | 70.2 | 0 | | 94.7 | 78.0123 | |
| 269 | 16.71 | -2.26 | 14.4531 | 0.254 | | 70.2 | 0 | | 94.9 | 78.1869 | |
| 270 | 16.71 | -2.26 | 14.4531 | 0 | 0.762 | 70.2 | 0 | 0 | 95 | 78.2869 | 0.762 |
| 271 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 95.1 | 78.3869 | |
| 272 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 95.2 | 78.4869 | |
| 273 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 95.2 | 78.4869 | |
| 274 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 95.2 | 78.4869 | |
| 275 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 95.2 | 78.4869 | |
| 276 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 95.1 | 78.3869 | |
| 277 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 95 | 78.2869 | |
| 278 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 94.9 | 78.1869 | |
| 279 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 94.8 | 78.0869 | |
| 280 | 16.71 | -2.26 | 14.4531 | 0 | 0 | 70.2 | 0 | 0 | 94.6 | 77.8869 | 0 |
| 281 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 94.5 | 77.7869 | |
| 282 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 94.3 | 77.5869 | |
| 283 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 94 | 77.2869 | |
| 284 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 93.8 | 77.0869 | |
| 285 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 93.5 | 76.7869 | |
| 286 | 16.71 | -2.26 | 14.4531 | 0 | | 70.2 | 0 | | 93.2 | 76.4869 | |
| 287 | 16.92 | -2.41 | 14.5063 | 0.532 | | 70.2 | 0 | | 92.8 | 75.8837 | |
| 288 | 16.92 | -2.35 | 14.5663 | 0.6 | | 70.2 | 0 | | 92.5 | 75.5837 | |
| 289 | 16.92 | -2.34 | 14.5763 | 0.1 | | 70.2 | 0 | | 92 | 75.0837 | |
| 290 | 16.92 | -2.34 | 14.5763 | 0 | 1.232 | 70.2 | 0 | 0 | 91.6 | 74.6837 | 1.232 |
| 291 | 16.92 | -2.33 | 14.5863 | 0.1 | | 70.2 | 0 | | 91.2 | 74.2837 | |
| 292 | 16.92 | -2.33 | 14.5863 | 0 | | 70.2 | 0 | | 90.8 | 73.8837 | |
| 293 | 16.92 | -2.33 | 14.5863 | 0 | | 70.2 | 0 | | 90.3 | 73.3837 | |
| 294 | 16.92 | -2.33 | 14.5863 | 0 | | 70.2 | 0 | | 89.8 | 72.8837 | |
| 295 | 16.92 | -2.32 | 14.5963 | 0.1 | | 70.2 | 0 | | 89.3 | 72.3837 | |
| 296 | 16.92 | -2.32 | 14.5963 | 0 | | 70.2 | 0 | | 88.8 | 71.8837 | |
| 297 | 16.92 | -2.32 | 14.5963 | 0 | | 70.2 | 0 | | 88.4 | 71.4837 | |
| 298 | 16.92 | -2.32 | 14.5963 | 0 | | 70.2 | 0 | | 88 | 71.0837 | |
| 299 | 16.92 | -2.32 | 14.5963 | 0 | | 70.2 | 0 | | 87.5 | 70.5837 | |
| 300 | 16.92 | -2.32 | 14.5963 | 0 | 0.2 | 70.2 | 0 | 0 | 87.1 | 70.1837 | 0.2 |
| 301 | 16.92 | -2.32 | 14.5963 | 0 | | 70.2 | 0 | | 86.8 | 69.8837 | |
| 302 | 16.92 | -2.31 | 14.6063 | 0.1 | | 70.2 | 0 | | 86.5 | 69.5837 | |
| 303 | 16.92 | -2.31 | 14.6063 | 0 | | 70.2 | 0 | | 86.3 | 69.3837 | |
| 304 | 16.92 | -2.3 | 14.6163 | 0.1 | | 70.2 | 0 | | 86.1 | 69.1837 | |
| 305 | 16.92 | -2.28 | 14.6363 | 0.2 | | 70.2 | 0 | | 86 | 69.0837 | |
| 306 | 16.92 | -2.26 | 14.6563 | 0.2 | | 70.2 | 0 | | 85.8 | 68.8837 | |
| 307 | 16.92 | -2.24 | 14.6763 | 0.2 | | 70.2 | 0 | | 85.7 | 68.7837 | |
| 308 | 16.92 | -2.21 | 14.7063 | 0.3 | | 70.2 | 0 | | 85.6 | 68.6837 | |
| 309 | 16.92 | -2.19 | 14.7263 | 0.2 | | 70.2 | 0 | | 85.5 | 68.5837 | |
| 310 | 16.92 | -2.16 | 14.7563 | 0.3 | 1.6 | 70.2 | 0 | 0 | 85.4 | 68.4837 | 1.6 |
| 311 | 16.92 | -2.13 | 14.7863 | 0.3 | | 70.2 | 0 | | 85.2 | 68.2837 | |
| 312 | 16.92 | -2.1 | 14.8163 | 0.3 | | 70.2 | 0 | | 85.1 | 68.1837 | |
| 313 | 16.92 | -2.07 | 14.8463 | 0.3 | | 70.2 | 0 | | 84.9 | 67.9837 | |
| 314 | 16.92 | -2.04 | 14.8763 | 0.3 | | 70.2 | 0 | | 84.8 | 67.8837 | |
| 315 | 16.92 | -2 | 14.9163 | 0.4 | | 70.2 | 0 | | 84.7 | 67.7837 | |
| 316 | 16.92 | -1.97 | 14.9463 | 0.3 | | 70.2 | 0 | | 84.6 | 67.6837 | |
| 317 | 16.92 | -1.94 | 14.9763 | 0.3 | | 70.2 | 0 | | 84.6 | 67.6837 | |
| 318 | 16.92 | -1.9 | 15.0163 | 0.4 | | 70.2 | 0 | | 84.6 | 67.6837 | |
| 319 | 16.92 | -1.87 | 15.0463 | 0.3 | | 70.2 | 0 | | 84.6 | 67.6837 | |
| 320 | 16.92 | -1.83 | 15.0863 | 0.4 | 3.3 | 70.2 | 0 | 0 | 84.7 | 67.7837 | 3.3 |
| 321 | 16.92 | -1.8 | 15.1163 | 0.3 | | 70.2 | 0 | | 84.7 | 67.7837 | |
| 322 | 16.92 | -1.76 | 15.1563 | 0.4 | | 70.2 | 0 | | 84.8 | 67.8837 | |
| 323 | 16.92 | -1.72 | 15.1963 | 0.4 | | 70.2 | 0 | | 84.8 | 67.8837 | |

| | | | | | | | | | | | |
|-----|-------|---------|---------|-------|-------|------|---|---|------|---------|-------|
| 324 | 16.92 | -1.69 | 15.2263 | 0.3 | | 70.2 | 0 | | 84.9 | 67.9837 | C-48 |
| 325 | 16.92 | -1.65 | 15.2663 | 0.4 | | 70.2 | 0 | | 84.9 | 67.9837 | |
| 326 | 16.92 | -1.62 | 15.2963 | 0.3 | | 70.2 | 0 | | 84.9 | 67.9837 | |
| 327 | 16.92 | -1.58 | 15.3363 | 0.4 | | 70.2 | 0 | | 85 | 68.0837 | |
| 328 | 16.92 | -1.54 | 15.3763 | 0.4 | | 70.2 | 0 | | 85 | 68.0837 | |
| 329 | 16.92 | -1.51 | 15.4063 | 0.3 | | 70.2 | 0 | | 85 | 68.0837 | |
| 330 | 16.92 | -1.47 | 15.4463 | 0.4 | 3.6 | 70.2 | 0 | 0 | 85 | 68.0837 | 3.6 |
| 331 | 16.92 | -1.44 | 15.4763 | 0.3 | | 70.2 | 0 | | 85 | 68.0837 | |
| 332 | 16.92 | -1.4 | 15.5163 | 0.4 | | 70.2 | 0 | | 85 | 68.0837 | |
| 333 | 16.92 | -1.37 | 15.5463 | 0.3 | | 70.2 | 0 | | 84.9 | 67.9837 | |
| 334 | 16.92 | -1.33 | 15.5863 | 0.4 | | 70.2 | 0 | | 84.9 | 67.9837 | |
| 335 | 16.92 | -1.29 | 15.6263 | 0.4 | | 70.2 | 0 | | 84.8 | 67.8837 | |
| 336 | 16.92 | -1.26 | 15.6563 | 0.3 | | 70.2 | 0 | | 84.8 | 67.8837 | |
| 337 | 16.92 | -1.22 | 15.6963 | 0.4 | | 70.2 | 0 | | 84.8 | 67.8837 | |
| 338 | 16.92 | -1.19 | 15.7263 | 0.3 | | 70.2 | 0 | | 84.9 | 67.9837 | |
| 339 | 16.92 | -1.15 | 15.7663 | 0.4 | | 70.2 | 0 | | 84.9 | 67.9837 | |
| 340 | 16.92 | -1.12 | 15.7963 | 0.3 | 3.5 | 70.2 | 0 | 0 | 85 | 68.0837 | 3.5 |
| 341 | 16.92 | -1.09 | 15.8263 | 0.3 | | 70.2 | 0 | | 85.1 | 68.1837 | |
| 342 | 16.92 | -1.05 | 15.8663 | 0.4 | | 70.2 | 0 | | 85.2 | 68.2837 | |
| 343 | 16.92 | -1.02 | 15.8963 | 0.3 | | 70.2 | 0 | | 85.4 | 68.4837 | |
| 344 | 16.92 | -0.984 | 15.9323 | 0.36 | | 70.2 | 0 | | 85.5 | 68.5837 | |
| 345 | 16.92 | -0.95 | 15.9663 | 0.34 | | 70.2 | 0 | | 85.7 | 68.7837 | |
| 346 | 16.92 | -0.916 | 16.0003 | 0.34 | | 70.2 | 0 | | 85.8 | 68.8837 | |
| 347 | 16.92 | -0.883 | 16.0333 | 0.33 | | 70.2 | 0 | | 85.9 | 68.9837 | |
| 348 | 16.92 | -0.85 | 16.0663 | 0.33 | | 70.2 | 0 | | 86 | 69.0837 | |
| 349 | 16.92 | -0.817 | 16.0993 | 0.33 | | 70.2 | 0 | | 86.1 | 69.1837 | |
| 350 | 16.92 | -0.784 | 16.1323 | 0.33 | 3.36 | 70.2 | 0 | 0 | 86.2 | 69.2837 | 3.36 |
| 351 | 16.92 | -0.751 | 16.1653 | 0.33 | | 70.2 | 0 | | 86.3 | 69.3837 | |
| 352 | 16.92 | -0.719 | 16.1973 | 0.32 | | 70.2 | 0 | | 86.4 | 69.4837 | |
| 353 | 16.92 | -0.686 | 16.2303 | 0.33 | | 70.2 | 0 | | 86.5 | 69.5837 | |
| 354 | 16.92 | -0.654 | 16.2623 | 0.32 | | 70.2 | 0 | | 86.7 | 69.7837 | |
| 355 | 16.92 | -0.622 | 16.2943 | 0.32 | | 70.2 | 0 | | 86.8 | 69.8837 | |
| 356 | 16.92 | -0.591 | 16.3253 | 0.31 | | 70.2 | 0 | | 86.9 | 69.9837 | |
| 357 | 16.92 | -0.559 | 16.3573 | 0.32 | | 70.2 | 0 | | 87.1 | 70.1837 | |
| 358 | 16.92 | -0.528 | 16.3883 | 0.31 | | 70.2 | 0 | | 87.2 | 70.2837 | |
| 359 | 16.92 | -0.496 | 16.4203 | 0.32 | | 70.2 | 0 | | 87.4 | 70.4837 | |
| 360 | 16.92 | -0.465 | 16.4513 | 0.31 | 3.19 | 70.2 | 0 | 0 | 87.5 | 70.5837 | 3.19 |
| 361 | 16.92 | -0.434 | 16.4823 | 0.31 | | 70.2 | 0 | | 87.7 | 70.7837 | |
| 362 | 16.92 | -0.404 | 16.5123 | 0.3 | | 70.2 | 0 | | 87.9 | 70.9837 | |
| 363 | 16.92 | -0.373 | 16.5433 | 0.31 | | 70.2 | 0 | | 88 | 71.0837 | |
| 364 | 16.92 | -0.343 | 16.5733 | 0.3 | | 70.2 | 0 | | 88.2 | 71.2837 | |
| 365 | 16.92 | -0.312 | 16.6043 | 0.31 | | 70.2 | 0 | | 88.4 | 71.4837 | |
| 366 | 16.92 | -0.282 | 16.6343 | 0.3 | | 70.2 | 0 | | 88.6 | 71.6837 | |
| 367 | 16.92 | -0.252 | 16.6643 | 0.3 | | 70.2 | 0 | | 88.8 | 71.8837 | |
| 368 | 17.53 | -0.582 | 16.9439 | 2.796 | | 70.2 | 0 | | 88.9 | 71.3741 | |
| 369 | 17.63 | -0.431 | 17.1965 | 2.526 | | 70.2 | 0 | | 89.1 | 71.4725 | |
| 370 | 17.63 | -0.326 | 17.3015 | 1.05 | 8.502 | 70.2 | 0 | 0 | 89.3 | 71.6725 | 8.502 |
| 371 | 17.63 | -0.269 | 17.3585 | 0.57 | | 70.2 | 0 | | 89.4 | 71.7725 | |
| 372 | 17.63 | -0.222 | 17.4055 | 0.47 | | 70.2 | 0 | | 89.6 | 71.9725 | |
| 373 | 17.63 | -0.181 | 17.4465 | 0.41 | | 70.2 | 0 | | 89.8 | 72.1725 | |
| 374 | 17.63 | -0.143 | 17.4845 | 0.38 | | 70.2 | 0 | | 90 | 72.3725 | |
| 375 | 17.63 | -0.106 | 17.5215 | 0.37 | | 70.2 | 0 | | 90.2 | 72.5725 | |
| 376 | 17.63 | -0.0717 | 17.5558 | 0.343 | | 70.2 | 0 | | 90.4 | 72.7725 | |
| 377 | 18.21 | -0.208 | 18.0037 | 4.479 | | 70.2 | 0 | | 90.5 | 72.2883 | |
| 378 | 18.24 | -0.0669 | 18.1702 | 1.665 | | 70.2 | 0 | | 90.7 | 72.4629 | |
| 379 | 18.24 | -0.0185 | 18.2186 | 0.484 | | 70.2 | 0 | | 90.8 | 72.5629 | |
| 380 | 18.24 | 0.0217 | 18.2588 | 0.402 | 9.573 | 70.2 | 0 | 0 | 91 | 72.7629 | 9.573 |
| 381 | 18.24 | 0.0579 | 18.295 | 0.362 | | 70.2 | 0 | | 91.2 | 72.9629 | |
| 382 | 18.24 | 0.0922 | 18.3293 | 0.343 | | 70.2 | 0 | | 91.3 | 73.0629 | |
| 383 | 18.24 | 0.125 | 18.3621 | 0.328 | | 70.2 | 0 | | 91.5 | 73.2629 | |
| 384 | 18.24 | 0.158 | 18.3951 | 0.33 | | 70.2 | 0 | | 91.6 | 73.3629 | |
| 385 | 18.24 | 0.189 | 18.4261 | 0.31 | | 70.2 | 0 | | 91.7 | 73.4629 | |
| 386 | 18.24 | 0.221 | 18.4581 | 0.32 | | 70.2 | 0 | | 91.7 | 73.4629 | |
| 387 | 18.24 | 0.251 | 18.4881 | 0.3 | | 70.2 | 0 | | 91.8 | 73.5629 | |
| 388 | 18.24 | 0.28 | 18.5171 | 0.29 | | 70.3 | 1 | | 91.8 | 73.5629 | |
| 389 | 18.24 | 0.307 | 18.5441 | 0.27 | | 70.4 | 1 | | 91.9 | 73.6629 | |
| 390 | 18.24 | 0.332 | 18.5691 | 0.25 | 3.103 | 70.5 | 1 | 3 | 91.9 | 73.6629 | 6.103 |

| | | | | | | | | | | |
|-----|-------|-------|---------|-------|--------|------|---|------|---------|--------|
| 391 | 18.24 | 0.355 | 18.5921 | 0.23 | | 70.6 | 1 | 91.9 | 73.6629 | C-49 |
| 392 | 18.24 | 0.376 | 18.6131 | 0.21 | | 70.8 | 2 | 91.9 | 73.6629 | |
| 393 | 18.24 | 0.396 | 18.6331 | 0.2 | | 70.9 | 1 | 91.9 | 73.6629 | |
| 394 | 18.24 | 0.415 | 18.6521 | 0.19 | | 71 | 1 | 91.9 | 73.6629 | |
| 395 | 18.24 | 0.433 | 18.6701 | 0.18 | | 71.1 | 1 | 92 | 73.7629 | |
| 396 | 18.24 | 0.45 | 18.6871 | 0.17 | | 71.3 | 2 | 92 | 73.7629 | |
| 397 | 18.24 | 0.465 | 18.7021 | 0.15 | | 71.5 | 2 | 92.1 | 73.8629 | |
| 398 | 18.24 | 0.479 | 18.7161 | 0.14 | | 71.6 | 1 | 92.1 | 73.8629 | |
| 399 | 18.24 | 0.492 | 18.7291 | 0.13 | | 71.7 | 1 | 92.2 | 73.9629 | |
| 400 | 18.24 | 0.505 | 18.7421 | 0.13 | 1.73 | 71.9 | 2 | 92.2 | 73.9629 | 15.73 |
| 401 | 18.24 | 0.517 | 18.7541 | 0.12 | | 72 | 1 | 92.3 | 74.0629 | |
| 402 | 18.24 | 0.528 | 18.7651 | 0.11 | | 72.2 | 2 | 92.3 | 74.0629 | |
| 403 | 18.24 | 0.538 | 18.7751 | 0.1 | | 72.4 | 2 | 92.4 | 74.1629 | |
| 404 | 18.24 | 0.547 | 18.7841 | 0.09 | | 72.6 | 2 | 92.4 | 74.1629 | |
| 405 | 18.24 | 0.555 | 18.7921 | 0.08 | | 72.8 | 2 | 92.5 | 74.2629 | |
| 406 | 18.24 | 0.563 | 18.8001 | 0.08 | | 72.9 | 1 | 92.6 | 74.3629 | |
| 407 | 18.24 | 0.57 | 18.8071 | 0.07 | | 73.1 | 2 | 92.7 | 74.4629 | |
| 408 | 18.24 | 0.576 | 18.8131 | 0.06 | | 73.4 | 3 | 92.8 | 74.5629 | |
| 409 | 18.24 | 0.581 | 18.8181 | 0.05 | | 73.6 | 2 | 92.9 | 74.6629 | |
| 410 | 18.24 | 0.585 | 18.8221 | 0.04 | 0.8 | 73.7 | 1 | 92.9 | 74.6629 | 18.8 |
| 411 | 18.24 | 0.589 | 18.8261 | 0.04 | | 73.9 | 2 | 93 | 74.7629 | |
| 412 | 18.24 | 0.592 | 18.8291 | 0.03 | | 74.1 | 2 | 93.1 | 74.8629 | |
| 413 | 18.24 | 0.595 | 18.8321 | 0.03 | | 74.3 | 2 | 93.2 | 74.9629 | |
| 414 | 18.24 | 0.597 | 18.8341 | 0.02 | | 74.6 | 3 | 93.3 | 75.0629 | |
| 415 | 18.24 | 0.599 | 18.8361 | 0.02 | | 74.8 | 2 | 93.4 | 75.1629 | |
| 416 | 18.24 | 0.6 | 18.8371 | 0.01 | | 75.1 | 3 | 93.5 | 75.2629 | |
| 417 | 18.24 | 0.601 | 18.8381 | 0.01 | | 75.4 | 3 | 93.7 | 75.4629 | |
| 418 | 18.24 | 0.601 | 18.8381 | 0 | | 75.6 | 2 | 93.8 | 75.5629 | |
| 419 | 18.24 | 0.602 | 18.8391 | 0.01 | | 75.9 | 3 | 93.9 | 75.6629 | |
| 420 | 18.24 | 0.602 | 18.8391 | 0 | 0.17 | 76.1 | 2 | 94 | 75.7629 | 24.17 |
| 421 | 18.24 | 0.602 | 18.8391 | 0 | | 76.4 | 3 | 94.2 | 75.9629 | |
| 422 | 18.24 | 0.602 | 18.8391 | 0 | | 76.7 | 3 | 94.3 | 76.0629 | |
| 423 | 18.24 | 0.602 | 18.8391 | 0 | | 76.9 | 2 | 94.5 | 76.2629 | |
| 424 | 18.24 | 0.602 | 18.8391 | 0 | | 77.3 | 4 | 94.6 | 76.3629 | |
| 425 | 18.24 | 0.602 | 18.8391 | 0 | | 77.7 | 4 | 94.8 | 76.5629 | |
| 426 | 18.24 | 0.602 | 18.8391 | 0 | | 78.1 | 4 | 94.9 | 76.6629 | |
| 427 | 18.24 | 0.602 | 18.8391 | 0 | | 78.5 | 4 | 95.1 | 76.8629 | |
| 428 | 18.24 | 0.602 | 18.8391 | 0 | | 78.9 | 4 | 95.2 | 76.9629 | |
| 429 | 18.24 | 0.602 | 18.8391 | 0 | | 79.3 | 4 | 95.4 | 77.1629 | |
| 430 | 18.24 | 0.602 | 18.8391 | 0 | 0 | 79.6 | 3 | 95.6 | 77.3629 | 35 |
| 431 | 18.24 | 0.602 | 18.8391 | 0 | | 80 | 4 | 95.7 | 77.4629 | |
| 432 | 18.24 | 0.602 | 18.8391 | 0 | | 80.4 | 4 | 95.9 | 77.6629 | |
| 433 | 18.24 | 0.602 | 18.8391 | 0 | | 80.8 | 4 | 96.1 | 77.8629 | |
| 434 | 18.24 | 0.602 | 18.8391 | 0 | | 81.3 | 5 | 96.3 | 78.0629 | |
| 435 | 18.59 | 0.602 | 19.1947 | 3.556 | | 81.7 | 4 | 96.5 | 77.9073 | |
| 436 | 19.25 | 0.558 | 19.8111 | 6.164 | | 82.1 | 4 | 96.7 | 77.4469 | |
| 437 | 19.25 | 0.577 | 19.8301 | 0.19 | | 82.8 | 7 | 96.9 | 77.6469 | |
| 438 | 19.25 | 0.578 | 19.8311 | 0.01 | | 83.3 | 5 | 97.1 | 77.8469 | |
| 439 | 19.25 | 0.578 | 19.8311 | 0 | | 83.9 | 6 | 97.4 | 78.1469 | |
| 440 | 19.3 | 0.578 | 19.8819 | 0.508 | 10.428 | 84.2 | 3 | 97.7 | 78.3961 | 56.428 |
| 441 | 19.38 | 0.578 | 19.9581 | 0.762 | | 84.7 | 5 | 98 | 78.6199 | |
| 442 | 19.38 | 0.578 | 19.9581 | 0 | | 85.3 | 6 | 98.4 | 79.0199 | |
| 443 | 19.38 | 0.578 | 19.9581 | 0 | | 85.8 | 5 | 98.8 | 79.4199 | |
| 444 | 19.38 | 0.578 | 19.9581 | 0 | | 86.5 | 7 | 99.2 | 79.8199 | |
| 445 | 19.38 | 0.578 | 19.9581 | 0 | | 87.2 | 7 | 99.6 | 80.2199 | |
| 446 | 19.38 | 0.578 | 19.9581 | 0 | | 87.8 | 6 | 100 | 80.6199 | |
| 447 | 19.38 | 0.578 | 19.9581 | 0 | | 88.5 | 7 | 101 | 81.6199 | |
| 448 | 19.38 | 0.578 | 19.9581 | 0 | | 89 | 5 | 101 | 81.6199 | |
| 449 | 19.38 | 0.578 | 19.9581 | 0 | | 89.5 | 5 | 102 | 82.6199 | |
| 450 | 19.38 | 0.578 | 19.9581 | 0 | 0.762 | 90.1 | 6 | 102 | 82.6199 | 59.762 |
| 451 | 19.38 | 0.578 | 19.9581 | 0 | | 90.6 | 5 | 103 | 83.6199 | |
| 452 | 19.38 | 0.578 | 19.9581 | 0 | | 91.2 | 6 | 103 | 83.6199 | |
| 453 | 19.38 | 0.578 | 19.9581 | 0 | | 91.7 | 5 | 103 | 83.6199 | |
| 454 | 19.38 | 0.578 | 19.9581 | 0 | | 92.3 | 6 | 104 | 84.6199 | |
| 455 | 19.38 | 0.578 | 19.9581 | 0 | | 92.9 | 6 | 105 | 85.6199 | |
| 456 | 19.38 | 0.578 | 19.9581 | 0 | | 93.2 | 3 | 105 | 85.6199 | |
| 457 | 19.38 | 0.578 | 19.9581 | 0 | | 93.7 | 5 | 105 | 85.6199 | |

| | | | | | | | | | | | |
|-----|-------|---------|---------|-------|--------|------|----|----|-----|---------|--------|
| 458 | 19.38 | 0.578 | 19.9581 | 0 | | 94.3 | 6 | | 106 | 86.6199 | C-50 |
| 459 | 19.38 | 0.578 | 19.9581 | 0 | | 94.7 | 4 | | 106 | 86.6199 | |
| 460 | 19.74 | 0.578 | 20.3137 | 3.556 | 3.556 | 95.1 | 4 | 50 | 107 | 87.2643 | 53.556 |
| 461 | 19.74 | 0.578 | 20.3137 | 0 | | 95.5 | 4 | | 107 | 87.2643 | |
| 462 | 19.74 | 0.578 | 20.3137 | 0 | | 95.9 | 4 | | 108 | 88.2643 | |
| 463 | 19.74 | 0.578 | 20.3137 | 0 | | 96.4 | 5 | | 108 | 88.2643 | |
| 464 | 19.74 | 0.578 | 20.3137 | 0 | | 96.7 | 3 | | 108 | 88.2643 | |
| 465 | 19.74 | 0.578 | 20.3137 | 0 | | 97.3 | 6 | | 109 | 89.2643 | |
| 466 | 19.74 | 0.578 | 20.3137 | 0 | | 97.8 | 5 | | 109 | 89.2643 | |
| 467 | 19.74 | 0.578 | 20.3137 | 0 | | 98.4 | 6 | | 110 | 90.2643 | |
| 468 | 19.74 | 0.578 | 20.3137 | 0 | | 98.9 | 5 | | 110 | 90.2643 | |
| 469 | 19.74 | 0.578 | 20.3137 | 0 | | 99.4 | 5 | | 111 | 91.2643 | |
| 470 | 19.74 | 0.578 | 20.3137 | 0 | 0 | 99.9 | 5 | 48 | 111 | 91.2643 | 48 |
| 471 | 19.89 | 0.578 | 20.4661 | 1.524 | | 100 | 1 | | 112 | 92.1119 | |
| 472 | 19.89 | 0.578 | 20.4661 | 0 | | 101 | 10 | | 112 | 92.1119 | |
| 473 | 19.89 | 0.578 | 20.4661 | 0 | | 102 | 10 | | 112 | 92.1119 | |
| 474 | 19.89 | 0.578 | 20.4661 | 0 | | 102 | 0 | | 113 | 93.1119 | |
| 475 | 19.89 | 0.578 | 20.4661 | 0 | | 103 | 10 | | 113 | 93.1119 | |
| 476 | 19.89 | 0.578 | 20.4661 | 0 | | 103 | 0 | | 113 | 93.1119 | |
| 477 | 19.91 | 0.578 | 20.4915 | 0.254 | | 104 | 10 | | 114 | 94.0865 | |
| 478 | 19.96 | 0.578 | 20.5423 | 0.508 | | 104 | 0 | | 114 | 94.0357 | |
| 479 | 20.02 | 0.578 | 20.5931 | 0.508 | | 105 | 10 | | 114 | 93.9849 | |
| 480 | 20.02 | 0.578 | 20.5931 | 0 | 2.794 | 105 | 0 | 51 | 115 | 94.9849 | 53.794 |
| 481 | 20.02 | 0.578 | 20.5931 | 0 | | 106 | 10 | | 115 | 94.9849 | |
| 482 | 20.55 | 0.578 | 21.1265 | 5.334 | | 106 | 0 | | 115 | 94.4515 | |
| 483 | 20.55 | 0.578 | 21.1265 | 0 | | 106 | 0 | | 116 | 95.4515 | |
| 484 | 20.55 | 0.578 | 21.1265 | 0 | | 107 | 10 | | 116 | 95.4515 | |
| 485 | 20.55 | 0.578 | 21.1265 | 0 | | 107 | 0 | | 117 | 96.4515 | |
| 486 | 20.55 | 0.578 | 21.1265 | 0 | | 108 | 10 | | 117 | 96.4515 | |
| 487 | 20.55 | 0.578 | 21.1265 | 0 | | 108 | 0 | | 118 | 97.4515 | |
| 488 | 20.55 | 0.578 | 21.1265 | 0 | | 109 | 10 | | 118 | 97.4515 | |
| 489 | 20.57 | 0.578 | 21.1519 | 0.254 | | 109 | 0 | | 118 | 97.4261 | |
| 490 | 20.6 | 0.578 | 21.1773 | 0.254 | 5.842 | 109 | 0 | 40 | 119 | 98.4007 | 45.842 |
| 491 | 22.4 | -0.384 | 22.0187 | 8.414 | | 110 | 10 | | 119 | 96.5973 | |
| 492 | 23.06 | -0.204 | 22.8591 | 8.404 | | 110 | 0 | | 119 | 95.9369 | |
| 493 | 23.09 | -0.12 | 22.9685 | 1.094 | | 111 | 10 | | 120 | 96.9115 | |
| 494 | 23.39 | -0.0973 | 23.296 | 3.275 | | 111 | 0 | | 120 | 96.6067 | |
| 495 | 23.39 | -0.0885 | 23.3048 | 0.088 | | 112 | 10 | | 120 | 96.6067 | |
| 496 | 23.39 | -0.0856 | 23.3077 | 0.029 | | 112 | 0 | | 121 | 97.6067 | |
| 497 | 23.39 | -0.0845 | 23.3088 | 0.011 | | 113 | 10 | | 121 | 97.6067 | |
| 498 | 23.39 | -0.0841 | 23.3092 | 0.004 | | 113 | 0 | | 121 | 97.6067 | |
| 499 | 23.39 | -0.084 | 23.3093 | 0.001 | | 114 | 10 | | 122 | 98.6067 | |
| 500 | 23.39 | -0.0839 | 23.3094 | 0.001 | 21.321 | 114 | 0 | 50 | 122 | 98.6067 | 71.321 |
| 501 | 23.44 | -0.0838 | 23.3603 | 0.509 | | 114 | 0 | | 122 | 98.5559 | |
| 502 | 23.44 | -0.0838 | 23.3603 | 0 | | 115 | 10 | | 123 | 99.5559 | |
| 503 | 23.44 | -0.0837 | 23.3604 | 0.001 | | 115 | 0 | | 123 | 99.5559 | |
| 504 | 23.47 | -0.0837 | 23.3858 | 0.254 | | 116 | 10 | | 124 | 100.53 | |
| 505 | 23.47 | -0.0837 | 23.3858 | 0 | | 116 | 0 | | 124 | 100.53 | |
| 506 | 23.47 | -0.0837 | 23.3858 | 0 | | 117 | 10 | | 125 | 101.53 | |
| 507 | 23.75 | -0.0837 | 23.6652 | 2.794 | | 117 | 0 | | 125 | 101.251 | |
| 508 | 23.83 | -0.0837 | 23.7414 | 0.762 | | 117 | 0 | | 125 | 101.175 | |
| 509 | 24.31 | -0.0837 | 24.224 | 4.826 | | 118 | 10 | | 125 | 100.692 | |
| 510 | 25.3 | -0.486 | 24.8123 | 5.883 | 15.029 | 118 | 0 | 40 | 126 | 100.702 | 55.029 |
| 511 | 25.3 | -0.342 | 24.9563 | 1.44 | | 118 | 0 | | 126 | 100.702 | |
| 512 | 26.39 | -0.538 | 25.8525 | 8.962 | | 119 | 10 | | 126 | 99.6095 | |
| 513 | 26.44 | -0.438 | 26.0033 | 1.508 | | 119 | 0 | | 126 | 99.5587 | |
| 514 | 26.75 | -0.427 | 26.3191 | 3.158 | | 120 | 10 | | 127 | 100.254 | |
| 515 | 26.85 | -0.423 | 26.4247 | 1.056 | | 120 | 0 | | 127 | 100.152 | |
| 516 | 26.87 | -0.421 | 26.4521 | 0.274 | | 121 | 10 | | 127 | 100.127 | |
| 517 | 26.87 | -0.421 | 26.4521 | 0 | | 121 | 0 | | 127 | 100.127 | |
| 518 | 26.9 | -0.421 | 26.4775 | 0.254 | | 121 | 0 | | 128 | 101.101 | |
| 519 | 26.9 | -0.421 | 26.4775 | 0 | | 122 | 10 | | 128 | 101.101 | |
| 520 | 26.9 | -0.421 | 26.4775 | 0 | 16.652 | 122 | 0 | 40 | 128 | 101.101 | 56.652 |
| 521 | 26.9 | -0.421 | 26.4775 | 0 | | 123 | 10 | | 128 | 101.101 | |
| 522 | 26.9 | -0.421 | 26.4775 | 0 | | 123 | 0 | | 128 | 101.101 | |
| 523 | 27.48 | -0.421 | 27.0617 | 5.842 | | 124 | 10 | | 128 | 100.517 | |
| 524 | 27.64 | -0.421 | 27.2141 | 1.524 | | 124 | 0 | | 128 | 100.365 | |

| | | | | | | | | | | | |
|-----|-------|--------|---------|-------|--------|-----|----|----|-----|---------|--------|
| 525 | 27.64 | -0.421 | 27.2141 | 0 | | 124 | 0 | | 128 | 100.365 | C-51 |
| 526 | 27.64 | -0.421 | 27.2141 | 0 | | 125 | 10 | | 129 | 101.365 | |
| 527 | 28.09 | -0.421 | 27.6713 | 4.572 | | 125 | 0 | | 129 | 100.908 | |
| 528 | 28.09 | -0.421 | 27.6713 | 0 | | 126 | 10 | | 130 | 101.908 | |
| 529 | 28.14 | -0.421 | 27.7221 | 0.508 | | 126 | 0 | | 130 | 101.857 | |
| 530 | 28.14 | -0.421 | 27.7221 | 0 | 12.446 | 127 | 10 | 50 | 131 | 102.857 | 62.446 |
| 531 | 28.37 | -0.421 | 27.9507 | 2.286 | | 127 | 0 | | 131 | 102.628 | |
| 532 | 28.42 | -0.421 | 28.0015 | 0.508 | | 127 | 0 | | 132 | 103.577 | |
| 533 | 28.42 | -0.421 | 28.0015 | 0 | | 128 | 10 | | 132 | 103.577 | |
| 534 | 28.42 | -0.421 | 28.0015 | 0 | | 128 | 0 | | 133 | 104.577 | |
| 535 | 28.42 | -0.421 | 28.0015 | 0 | | 129 | 10 | | 134 | 105.577 | |
| 536 | 28.42 | -0.421 | 28.0015 | 0 | | 129 | 0 | | 134 | 105.577 | |
| 537 | 28.42 | -0.421 | 28.0015 | 0 | | 129 | 0 | | 135 | 106.577 | |
| 538 | 30.56 | -2.08 | 28.4761 | 4.746 | | 129 | 0 | | 135 | 104.444 | |
| 539 | 30.56 | -1.59 | 28.9661 | 4.9 | | 130 | 10 | | 136 | 105.444 | |
| 540 | 30.56 | -1.51 | 29.0461 | 0.8 | 13.24 | 131 | 10 | 40 | 136 | 105.444 | 53.24 |
| 541 | 30.56 | -1.48 | 29.0761 | 0.3 | | 131 | 0 | | 137 | 106.444 | |
| 542 | 30.56 | -1.46 | 29.0961 | 0.2 | | 132 | 10 | | 137 | 106.444 | |
| 543 | 30.56 | -1.46 | 29.0961 | 0 | | 132 | 0 | | 138 | 107.444 | |
| 544 | 30.56 | -1.45 | 29.1061 | 0.1 | | 132 | 0 | | 138 | 107.444 | |
| 545 | 30.56 | -1.45 | 29.1061 | 0 | | 133 | 10 | | 139 | 108.444 | |
| 546 | 30.56 | -1.45 | 29.1061 | 0 | | 133 | 0 | | 140 | 109.444 | |
| 547 | 30.56 | -1.45 | 29.1061 | 0 | | 134 | 10 | | 140 | 109.444 | |
| 548 | 31.14 | -1.56 | 29.5803 | 4.742 | | 134 | 0 | | 141 | 109.86 | |
| 549 | 31.17 | -1.52 | 29.6457 | 0.654 | | 134 | 0 | | 142 | 110.834 | |
| 550 | 31.42 | -1.52 | 29.8997 | 2.54 | 8.536 | 135 | 10 | 40 | 143 | 111.58 | 48.536 |
| 551 | 31.55 | -1.51 | 30.0367 | 1.37 | | 135 | 0 | | 143 | 111.453 | |
| 552 | 31.83 | -1.51 | 30.3161 | 2.794 | | 135 | 0 | | 145 | 113.174 | |
| 553 | 32.66 | -1.74 | 30.9243 | 6.082 | | 135 | 0 | | 146 | 113.336 | |
| 554 | 32.69 | -1.66 | 31.0297 | 1.054 | | 136 | 10 | | 148 | 115.31 | |
| 555 | 32.69 | -1.65 | 31.0397 | 0.1 | | 136 | 0 | | 149 | 116.31 | |
| 556 | 32.69 | -1.65 | 31.0397 | 0 | | 136 | 0 | | 150 | 117.31 | |
| 557 | 32.69 | -1.64 | 31.0497 | 0.1 | | 136 | 0 | | 152 | 119.31 | |
| 558 | 32.82 | -1.64 | 31.1767 | 1.27 | | 137 | 10 | | 153 | 120.183 | |
| 559 | 32.84 | -1.64 | 31.2021 | 0.254 | | 137 | 0 | | 154 | 121.158 | |
| 560 | 32.84 | -1.64 | 31.2021 | 0 | 13.024 | 137 | 0 | 20 | 155 | 122.158 | 33.024 |
| 561 | 32.84 | -1.64 | 31.2021 | 0 | | 137 | 0 | | 156 | 123.158 | |
| 562 | 32.84 | -1.64 | 31.2021 | 0 | | 137 | 0 | | 156 | 123.158 | |
| 563 | 32.84 | -1.64 | 31.2021 | 0 | | 138 | 10 | | 157 | 124.158 | |
| 564 | 32.84 | -1.64 | 31.2021 | 0 | | 138 | 0 | | 157 | 124.158 | |
| 565 | 32.84 | -1.64 | 31.2021 | 0 | | 138 | 0 | | 158 | 125.158 | |
| 566 | 32.84 | -1.64 | 31.2021 | 0 | | 138 | 0 | | 158 | 125.158 | |
| 567 | 32.84 | -1.64 | 31.2021 | 0 | | 139 | 10 | | 159 | 126.158 | |
| 568 | 32.84 | -1.64 | 31.2021 | 0 | | 139 | 0 | | 159 | 126.158 | |
| 569 | 32.84 | -1.64 | 31.2021 | 0 | | 139 | 0 | | 159 | 126.158 | |
| 570 | 32.84 | -1.64 | 31.2021 | 0 | 0 | 140 | 10 | 30 | 159 | 126.158 | 30 |
| 571 | 32.84 | -1.64 | 31.2021 | 0 | | 140 | 0 | | 159 | 126.158 | |
| 572 | 32.84 | -1.64 | 31.2021 | 0 | | 140 | 0 | | 159 | 126.158 | |
| 573 | 32.84 | -1.64 | 31.2021 | 0 | | 140 | 0 | | 160 | 127.158 | |
| 574 | 32.84 | -1.64 | 31.2021 | 0 | | 141 | 10 | | 160 | 127.158 | |
| 575 | 32.84 | -1.64 | 31.2021 | 0 | | 141 | 0 | | 160 | 127.158 | |
| 576 | 32.84 | -1.64 | 31.2021 | 0 | | 141 | 0 | | 160 | 127.158 | |
| 577 | 32.84 | -1.64 | 31.2021 | 0 | | 142 | 10 | | 161 | 128.158 | |
| 578 | 32.84 | -1.64 | 31.2021 | 0 | | 142 | 0 | | 161 | 128.158 | |
| 579 | 32.84 | -1.64 | 31.2021 | 0 | | 142 | 0 | | 162 | 129.158 | |
| 580 | 32.84 | -1.64 | 31.2021 | 0 | 0 | 142 | 0 | 20 | 162 | 129.158 | 20 |
| 581 | 33.02 | -1.64 | 31.3799 | 1.778 | | 143 | 10 | | 162 | 128.98 | |
| 582 | 33.55 | -2.07 | 31.4833 | 1.034 | | 143 | 0 | | 162 | 128.447 | |
| 583 | 33.55 | -1.92 | 31.6333 | 1.5 | | 143 | 0 | | 163 | 129.447 | |
| 584 | 33.55 | -1.91 | 31.6433 | 0.1 | | 143 | 0 | | 163 | 129.447 | |
| 585 | 33.55 | -1.9 | 31.6533 | 0.1 | | 144 | 10 | | 163 | 129.447 | |
| 586 | 33.55 | -1.9 | 31.6533 | 0 | | 144 | 0 | | 163 | 129.447 | |
| 587 | 33.55 | -1.89 | 31.6633 | 0.1 | | 144 | 0 | | 163 | 129.447 | |
| 588 | 33.55 | -1.89 | 31.6633 | 0 | | 144 | 0 | | 163 | 129.447 | |
| 589 | 33.55 | -1.89 | 31.6633 | 0 | | 144 | 0 | | 163 | 129.447 | |
| 590 | 33.55 | -1.89 | 31.6633 | 0 | 4.612 | 145 | 10 | 30 | 163 | 129.447 | 34.612 |
| 591 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | | 163 | 129.447 | |

| | | | | | | | | | | | |
|-----|-------|-------|---------|-------|-------|-----|----|-----|---------|---------|-------|
| 592 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | C-52 | |
| 593 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | | |
| 594 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | | |
| 595 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | | |
| 596 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | | |
| 597 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | | |
| 598 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | | |
| 599 | 33.55 | -1.89 | 31.6633 | 0 | | 145 | 0 | 164 | 130.447 | | |
| 600 | 33.55 | -1.89 | 31.6633 | 0 | 0 | 146 | 10 | 10 | 165 | 131.447 | 10 |
| 601 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 165 | 131.447 | |
| 602 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 165 | 131.447 | |
| 603 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 165 | 131.447 | |
| 604 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 165 | 131.447 | |
| 605 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 165 | 131.447 | |
| 606 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 165 | 131.447 | |
| 607 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 165 | 131.447 | |
| 608 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 166 | 132.447 | |
| 609 | 33.55 | -1.89 | 31.6633 | 0 | | 146 | 0 | | 166 | 132.447 | |
| 610 | 33.55 | -1.89 | 31.6633 | 0 | 0 | 147 | 10 | 10 | 166 | 132.447 | 10 |
| 611 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 166 | 132.447 | |
| 612 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 166 | 132.447 | |
| 613 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 614 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 615 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 616 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 617 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 618 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 619 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 620 | 33.55 | -1.89 | 31.6633 | 0 | 0 | 147 | 0 | 0 | 167 | 133.447 | 0 |
| 621 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 166 | 132.447 | |
| 622 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 623 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 624 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 167 | 133.447 | |
| 625 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 169 | 135.447 | |
| 626 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 170 | 136.447 | |
| 627 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 170 | 136.447 | |
| 628 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 171 | 137.447 | |
| 629 | 33.55 | -1.89 | 31.6633 | 0 | | 147 | 0 | | 171 | 137.447 | |
| 630 | 33.6 | -1.89 | 31.7141 | 0.508 | 0.508 | 147 | 0 | 0 | 172 | 138.396 | 0.508 |
| 631 | 33.6 | -1.89 | 31.7141 | 0 | | 147 | 0 | | 172 | 138.396 | |
| 632 | 33.6 | -1.89 | 31.7141 | 0 | | 147 | 0 | | 172 | 138.396 | |
| 633 | 33.6 | -1.89 | 31.7141 | 0 | | 147 | 0 | | 172 | 138.396 | |
| 634 | 33.63 | -1.89 | 31.7395 | 0.254 | | 147 | 0 | | 172 | 138.37 | |
| 635 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 173 | 139.37 | |
| 636 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 173 | 139.37 | |
| 637 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 173 | 139.37 | |
| 638 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 173 | 139.37 | |
| 639 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 173 | 139.37 | |
| 640 | 33.63 | -1.89 | 31.7395 | 0 | 0.254 | 147 | 0 | 0 | 173 | 139.37 | 0.254 |
| 641 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 173 | 139.37 | |
| 642 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 173 | 139.37 | |
| 643 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 172 | 138.37 | |
| 644 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 172 | 138.37 | |
| 645 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 172 | 138.37 | |
| 646 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 172 | 138.37 | |
| 647 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 172 | 138.37 | |
| 648 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 172 | 138.37 | |
| 649 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 171 | 137.37 | |
| 650 | 33.63 | -1.89 | 31.7395 | 0 | 0 | 147 | 0 | 0 | 171 | 137.37 | 0 |
| 651 | 33.63 | -1.89 | 31.7395 | 0 | | 147 | 0 | | 171 | 137.37 | |
| 652 | 33.83 | -2.04 | 31.7927 | 0.532 | | 147 | 0 | | 170 | 136.167 | |
| 653 | 33.83 | -1.98 | 31.8527 | 0.6 | | 147 | 0 | | 170 | 136.167 | |
| 654 | 33.83 | -1.97 | 31.8627 | 0.1 | | 147 | 0 | | 170 | 136.167 | |
| 655 | 33.83 | -1.97 | 31.8627 | 0 | | 147 | 0 | | 169 | 135.167 | |
| 656 | 33.83 | -1.97 | 31.8627 | 0 | | 147 | 0 | | 169 | 135.167 | |
| 657 | 33.83 | -1.96 | 31.8727 | 0.1 | | 147 | 0 | | 168 | 134.167 | |
| 658 | 33.83 | -1.96 | 31.8727 | 0 | | 147 | 0 | | 168 | 134.167 | |

| | | | | | | | | | | | |
|-----|-------|---------|---------|-------|-------|-----|---|---|-----|---------|-------|
| 659 | 33.83 | -1.96 | 31.8727 | 0 | | 147 | 0 | | 167 | 133.167 | C-53 |
| 660 | 33.83 | -1.96 | 31.8727 | 0 | 1.332 | 147 | 0 | 0 | 167 | 133.167 | 1.332 |
| 661 | 33.83 | -1.96 | 31.8727 | 0 | | 147 | 0 | | 166 | 132.167 | |
| 662 | 33.83 | -1.96 | 31.8727 | 0 | | 147 | 0 | | 166 | 132.167 | |
| 663 | 33.83 | -1.95 | 31.8827 | 0.1 | | 147 | 0 | | 165 | 131.167 | |
| 664 | 33.83 | -1.95 | 31.8827 | 0 | | 147 | 0 | | 165 | 131.167 | |
| 665 | 33.83 | -1.95 | 31.8827 | 0 | | 147 | 0 | | 165 | 131.167 | |
| 666 | 33.83 | -1.95 | 31.8827 | 0 | | 147 | 0 | | 164 | 130.167 | |
| 667 | 33.83 | -1.95 | 31.8827 | 0 | | 147 | 0 | | 164 | 130.167 | |
| 668 | 33.83 | -1.94 | 31.8927 | 0.1 | | 147 | 0 | | 164 | 130.167 | |
| 669 | 33.83 | -1.92 | 31.9127 | 0.2 | | 147 | 0 | | 164 | 130.167 | |
| 670 | 33.83 | -1.91 | 31.9227 | 0.1 | 0.5 | 147 | 0 | 0 | 163 | 129.167 | 0.5 |
| 671 | 33.83 | -1.89 | 31.9427 | 0.2 | | 147 | 0 | | 163 | 129.167 | |
| 672 | 33.83 | -1.86 | 31.9727 | 0.3 | | 147 | 0 | | 163 | 129.167 | |
| 673 | 33.83 | -1.84 | 31.9927 | 0.2 | | 147 | 0 | | 163 | 129.167 | |
| 674 | 33.83 | -1.81 | 32.0227 | 0.3 | | 147 | 0 | | 163 | 129.167 | |
| 675 | 33.83 | -1.78 | 32.0527 | 0.3 | | 147 | 0 | | 163 | 129.167 | |
| 676 | 33.83 | -1.75 | 32.0827 | 0.3 | | 147 | 0 | | 163 | 129.167 | |
| 677 | 33.83 | -1.72 | 32.1127 | 0.3 | | 147 | 0 | | 163 | 129.167 | |
| 678 | 33.83 | -1.69 | 32.1427 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 679 | 33.83 | -1.66 | 32.1727 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 680 | 33.83 | -1.62 | 32.2127 | 0.4 | 2.9 | 147 | 0 | 0 | 162 | 128.167 | 2.9 |
| 681 | 33.83 | -1.59 | 32.2427 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 682 | 33.83 | -1.56 | 32.2727 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 683 | 33.83 | -1.52 | 32.3127 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 684 | 33.83 | -1.49 | 32.3427 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 685 | 33.83 | -1.45 | 32.3827 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 686 | 33.83 | -1.41 | 32.4227 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 687 | 33.83 | -1.38 | 32.4527 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 688 | 33.83 | -1.34 | 32.4927 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 689 | 33.83 | -1.31 | 32.5227 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 690 | 33.83 | -1.27 | 32.5627 | 0.4 | 3.5 | 147 | 0 | 0 | 162 | 128.167 | 3.5 |
| 691 | 33.83 | -1.23 | 32.6027 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 692 | 33.83 | -1.2 | 32.6327 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 693 | 33.83 | -1.16 | 32.6727 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 694 | 33.83 | -1.12 | 32.7127 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 695 | 33.83 | -1.09 | 32.7427 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 696 | 33.83 | -1.05 | 32.7827 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 697 | 33.83 | -1.02 | 32.8127 | 0.3 | | 147 | 0 | | 162 | 128.167 | |
| 698 | 33.83 | -0.98 | 32.8527 | 0.4 | | 147 | 0 | | 162 | 128.167 | |
| 699 | 33.83 | -0.945 | 32.8877 | 0.35 | | 147 | 0 | | 162 | 128.167 | |
| 700 | 33.83 | -0.909 | 32.9237 | 0.36 | 3.61 | 147 | 0 | 0 | 162 | 128.167 | 3.61 |
| 701 | 33.83 | -0.874 | 32.9587 | 0.35 | | 147 | 0 | | 162 | 128.167 | |
| 702 | 33.83 | -0.839 | 32.9937 | 0.35 | | 147 | 0 | | 162 | 128.167 | |
| 703 | 33.83 | -0.804 | 33.0287 | 0.35 | | 147 | 0 | | 162 | 128.167 | |
| 704 | 33.83 | -0.769 | 33.0637 | 0.35 | | 147 | 0 | | 162 | 128.167 | |
| 705 | 33.83 | -0.734 | 33.0987 | 0.35 | | 147 | 0 | | 163 | 129.167 | |
| 706 | 33.83 | -0.699 | 33.1337 | 0.35 | | 147 | 0 | | 163 | 129.167 | |
| 707 | 33.83 | -0.665 | 33.1677 | 0.34 | | 147 | 0 | | 163 | 129.167 | |
| 708 | 33.83 | -0.631 | 33.2017 | 0.34 | | 147 | 0 | | 163 | 129.167 | |
| 709 | 33.83 | -0.597 | 33.2357 | 0.34 | | 147 | 0 | | 163 | 129.167 | |
| 710 | 33.83 | -0.563 | 33.2697 | 0.34 | 3.46 | 147 | 0 | 0 | 163 | 129.167 | 3.46 |
| 711 | 33.83 | -0.529 | 33.3037 | 0.34 | | 147 | 0 | | 163 | 129.167 | |
| 712 | 33.83 | -0.496 | 33.3367 | 0.33 | | 147 | 0 | | 163 | 129.167 | |
| 713 | 33.83 | -0.462 | 33.3707 | 0.34 | | 147 | 0 | | 164 | 130.167 | |
| 714 | 33.83 | -0.429 | 33.4037 | 0.33 | | 147 | 0 | | 164 | 130.167 | |
| 715 | 33.83 | -0.396 | 33.4367 | 0.33 | | 147 | 0 | | 164 | 130.167 | |
| 716 | 33.83 | -0.364 | 33.4687 | 0.32 | | 147 | 0 | | 164 | 130.167 | |
| 717 | 33.83 | -0.331 | 33.5017 | 0.33 | | 147 | 0 | | 164 | 130.167 | |
| 718 | 33.83 | -0.298 | 33.5347 | 0.33 | | 147 | 0 | | 164 | 130.167 | |
| 719 | 33.83 | -0.266 | 33.5667 | 0.32 | | 147 | 0 | | 164 | 130.167 | |
| 720 | 33.83 | -0.234 | 33.5987 | 0.32 | 3.29 | 147 | 0 | 0 | 164 | 130.167 | 3.29 |
| 721 | 33.83 | -0.202 | 33.6307 | 0.32 | | 147 | 0 | | 164 | 130.167 | |
| 722 | 33.83 | -0.171 | 33.6617 | 0.31 | | 147 | 0 | | 165 | 131.167 | |
| 723 | 33.83 | -0.139 | 33.6937 | 0.32 | | 147 | 0 | | 165 | 131.167 | |
| 724 | 33.83 | -0.108 | 33.7247 | 0.31 | | 147 | 0 | | 165 | 131.167 | |
| 725 | 33.83 | -0.0765 | 33.7562 | 0.315 | | 147 | 0 | | 165 | 131.167 | |

| | | | | | | | | | | |
|-----|-------|---------|---------|-------|-------|-----|----|-----|---------|-------|
| 726 | 33.83 | -0.0455 | 33.7872 | 0.31 | | 147 | 0 | 165 | 131.167 | C-54 |
| 727 | 33.83 | -0.0146 | 33.8181 | 0.309 | | 147 | 0 | 165 | 131.167 | |
| 728 | 33.83 | 0.016 | 33.8487 | 0.306 | | 147 | 0 | 166 | 132.167 | |
| 729 | 33.83 | 0.0465 | 33.8792 | 0.305 | | 147 | 0 | 166 | 132.167 | |
| 730 | 33.83 | 0.0769 | 33.9096 | 0.304 | 3.109 | 147 | 0 | 166 | 132.167 | 3.109 |
| 731 | 33.83 | 0.107 | 33.9397 | 0.301 | | 147 | 0 | 166 | 132.167 | |
| 732 | 33.83 | 0.137 | 33.9697 | 0.3 | | 147 | 0 | 166 | 132.167 | |
| 733 | 34.44 | -0.193 | 34.2493 | 2.796 | | 147 | 0 | 166 | 131.558 | |
| 734 | 34.54 | -0.0421 | 34.5018 | 2.525 | | 147 | 0 | 167 | 132.456 | |
| 735 | 34.54 | 0.0635 | 34.6074 | 1.056 | | 147 | 0 | 167 | 132.456 | |
| 736 | 34.54 | 0.12 | 34.6639 | 0.565 | | 147 | 0 | 167 | 132.456 | |
| 737 | 34.54 | 0.167 | 34.7109 | 0.47 | | 147 | 0 | 167 | 132.456 | |
| 738 | 34.54 | 0.209 | 34.7529 | 0.42 | | 147 | 0 | 167 | 132.456 | |
| 739 | 34.54 | 0.247 | 34.7909 | 0.38 | | 147 | 0 | 167 | 132.456 | |
| 740 | 34.54 | 0.283 | 34.8269 | 0.36 | 9.173 | 147 | 0 | 168 | 133.456 | 9.173 |
| 741 | 34.54 | 0.318 | 34.8619 | 0.35 | | 147 | 0 | 168 | 133.456 | |
| 742 | 35.13 | 0.182 | 35.3101 | 4.482 | | 147 | 0 | 168 | 132.872 | |
| 743 | 35.15 | 0.323 | 35.4765 | 1.664 | | 147 | 0 | 168 | 132.846 | |
| 744 | 35.15 | 0.372 | 35.5255 | 0.49 | | 147 | 0 | 168 | 132.846 | |
| 745 | 35.15 | 0.412 | 35.5655 | 0.4 | | 147 | 0 | 169 | 133.846 | |
| 746 | 35.15 | 0.448 | 35.6015 | 0.36 | | 147 | 0 | 169 | 133.846 | |
| 747 | 35.15 | 0.482 | 35.6355 | 0.34 | | 147 | 0 | 169 | 133.846 | |
| 748 | 35.15 | 0.516 | 35.6695 | 0.34 | | 147 | 0 | 169 | 133.846 | |
| 749 | 35.15 | 0.548 | 35.7015 | 0.32 | | 147 | 0 | 169 | 133.846 | |
| 750 | 35.15 | 0.58 | 35.7335 | 0.32 | 9.066 | 147 | 0 | 169 | 133.846 | 9.066 |
| 751 | 35.15 | 0.611 | 35.7645 | 0.31 | | 147 | 0 | 169 | 133.846 | |
| 752 | 35.15 | 0.642 | 35.7955 | 0.31 | | 147 | 0 | 169 | 133.846 | |
| 753 | 35.15 | 0.671 | 35.8245 | 0.29 | | 147 | 0 | 169 | 133.846 | |
| 754 | 35.15 | 0.698 | 35.8515 | 0.27 | | 147 | 0 | 169 | 133.846 | |
| 755 | 35.15 | 0.722 | 35.8755 | 0.24 | | 148 | 10 | 169 | 133.846 | |
| 756 | 35.15 | 0.746 | 35.8995 | 0.24 | | 148 | 0 | 169 | 133.846 | |
| 757 | 35.15 | 0.767 | 35.9205 | 0.21 | | 148 | 0 | 169 | 133.846 | |
| 758 | 35.15 | 0.787 | 35.9405 | 0.2 | | 148 | 0 | 169 | 133.846 | |
| 759 | 35.15 | 0.806 | 35.9595 | 0.19 | | 148 | 0 | 169 | 133.846 | |
| 760 | 35.15 | 0.824 | 35.9775 | 0.18 | 2.44 | 148 | 0 | 169 | 133.846 | 12.44 |
| 761 | 35.15 | 0.841 | 35.9945 | 0.17 | | 148 | 0 | 170 | 134.846 | |
| 762 | 35.15 | 0.856 | 36.0095 | 0.15 | | 149 | 10 | 170 | 134.846 | |
| 763 | 35.15 | 0.87 | 36.0235 | 0.14 | | 149 | 0 | 170 | 134.846 | |
| 764 | 35.15 | 0.883 | 36.0365 | 0.13 | | 149 | 0 | 170 | 134.846 | |
| 765 | 35.15 | 0.896 | 36.0495 | 0.13 | | 149 | 0 | 170 | 134.846 | |
| 766 | 35.15 | 0.908 | 36.0615 | 0.12 | | 149 | 0 | 170 | 134.846 | |
| 767 | 35.15 | 0.919 | 36.0725 | 0.11 | | 149 | 0 | 170 | 134.846 | |
| 768 | 35.15 | 0.929 | 36.0825 | 0.1 | | 149 | 0 | 170 | 134.846 | |
| 769 | 35.15 | 0.938 | 36.0915 | 0.09 | | 150 | 10 | 170 | 134.846 | |
| 770 | 35.15 | 0.946 | 36.0995 | 0.08 | 1.22 | 150 | 0 | 170 | 134.846 | 21.22 |
| 771 | 37.29 | -0.577 | 36.7165 | 6.17 | | 150 | 0 | 170 | 132.706 | |
| 772 | 37.29 | -0.0328 | 37.2607 | 5.442 | | 150 | 0 | 170 | 132.706 | |
| 773 | 37.29 | 0.127 | 37.4205 | 1.598 | | 150 | 0 | 170 | 132.706 | |
| 774 | 37.29 | 0.212 | 37.5055 | 0.85 | | 151 | 10 | 170 | 132.706 | |
| 775 | 37.29 | 0.27 | 37.5635 | 0.58 | | 151 | 0 | 170 | 132.706 | |
| 776 | 37.29 | 0.315 | 37.6085 | 0.45 | | 151 | 0 | 171 | 133.706 | |
| 777 | 37.29 | 0.35 | 37.6435 | 0.35 | | 151 | 0 | 171 | 133.706 | |
| 778 | 37.29 | 0.379 | 37.6725 | 0.29 | | 151 | 0 | 171 | 133.706 | |
| 779 | 37.29 | 0.402 | 37.6955 | 0.23 | | 152 | 10 | 171 | 133.706 | |
| 780 | 37.29 | 0.421 | 37.7145 | 0.19 | 16.15 | 152 | 0 | 171 | 133.706 | 36.15 |
| 781 | 37.29 | 0.436 | 37.7295 | 0.15 | | 152 | 0 | 171 | 133.706 | |
| 782 | 37.29 | 0.448 | 37.7415 | 0.12 | | 152 | 0 | 171 | 133.706 | |
| 783 | 37.29 | 0.458 | 37.7515 | 0.1 | | 153 | 10 | 171 | 133.706 | |
| 784 | 37.29 | 0.466 | 37.7595 | 0.08 | | 153 | 0 | 171 | 133.706 | |
| 785 | 40.69 | -1.9 | 38.7935 | 10.34 | | 153 | 0 | 172 | 131.306 | |
| 786 | 40.69 | -1.1 | 39.5935 | 8 | | 153 | 0 | 172 | 131.306 | |
| 787 | 40.69 | -0.889 | 39.8045 | 2.11 | | 154 | 10 | 172 | 131.306 | |
| 788 | 40.69 | -0.773 | 39.9205 | 1.16 | | 154 | 0 | 172 | 131.306 | |
| 789 | 40.69 | -0.699 | 39.9945 | 0.74 | | 154 | 0 | 172 | 131.306 | |
| 790 | 40.69 | -0.647 | 40.0465 | 0.52 | 23.32 | 155 | 10 | 172 | 131.306 | 53.32 |
| 791 | 40.69 | -0.61 | 40.0835 | 0.37 | | 155 | 0 | 172 | 131.306 | |
| 792 | 40.69 | -0.582 | 40.1115 | 0.28 | | 155 | 0 | 173 | 132.306 | |

| | | | | | | | | | | | |
|-----|-------|--------|---------|-------|--------|-----|----|----|-----|---------|--------|
| 793 | 40.69 | -0.563 | 40.1305 | 0.19 | | 156 | 10 | | 173 | 132.306 | C-55 |
| 794 | 45.69 | -4.53 | 41.1635 | 10.33 | | 156 | 0 | | 173 | 127.306 | |
| 795 | 45.69 | -3.5 | 42.1935 | 10.3 | | 157 | 10 | | 173 | 127.306 | |
| 796 | 45.69 | -3.09 | 42.6035 | 4.1 | | 157 | 0 | | 173 | 127.306 | |
| 797 | 45.69 | -2.9 | 42.7935 | 1.9 | | 158 | 10 | | 173 | 127.306 | |
| 798 | 45.69 | -2.78 | 42.9135 | 1.2 | | 158 | 0 | | 174 | 128.306 | |
| 799 | 45.69 | -2.71 | 42.9835 | 0.7 | | 159 | 10 | | 174 | 128.306 | |
| 800 | 48.03 | -4.35 | 43.6835 | 7 | 36.37 | 159 | 0 | 40 | 174 | 125.966 | 76.37 |
| 801 | 48.03 | -3.74 | 44.2935 | 6.1 | | 160 | 10 | | 174 | 125.966 | |
| 802 | 48.03 | -3.52 | 44.5135 | 2.2 | | 160 | 0 | | 174 | 125.966 | |
| 803 | 48.03 | -3.42 | 44.6135 | 1 | | 161 | 10 | | 175 | 126.966 | |
| 804 | 48.03 | -3.36 | 44.6735 | 0.6 | | 162 | 10 | | 175 | 126.966 | |
| 805 | 48.03 | -3.32 | 44.7135 | 0.4 | | 162 | 0 | | 175 | 126.966 | |
| 806 | 48.03 | -3.29 | 44.7435 | 0.3 | | 163 | 10 | | 175 | 126.966 | |
| 807 | 48.03 | -3.28 | 44.7535 | 0.1 | | 164 | 10 | | 176 | 127.966 | |
| 808 | 48.03 | -3.27 | 44.7635 | 0.1 | | 164 | 0 | | 176 | 127.966 | |
| 809 | 48.03 | -3.26 | 44.7735 | 0.1 | | 165 | 10 | | 177 | 128.966 | |
| 810 | 48.03 | -3.26 | 44.7735 | 0 | 10.9 | 166 | 10 | 70 | 177 | 128.966 | 80.9 |
| 811 | 49.59 | -3.67 | 45.9235 | 11.5 | | 167 | 10 | | 177 | 127.406 | |
| 812 | 49.59 | -3.51 | 46.0835 | 1.6 | | 168 | 10 | | 178 | 128.406 | |
| 813 | 49.59 | -3.49 | 46.1035 | 0.2 | | 168 | 0 | | 178 | 128.406 | |
| 814 | 49.59 | -3.48 | 46.1135 | 0.1 | | 169 | 10 | | 179 | 129.406 | |
| 815 | 49.59 | -3.48 | 46.1135 | 0 | | 170 | 10 | | 179 | 129.406 | |
| 816 | 49.59 | -3.48 | 46.1135 | 0 | | 171 | 10 | | 180 | 130.406 | |
| 817 | 49.59 | -3.48 | 46.1135 | 0 | | 171 | 0 | | 180 | 130.406 | |
| 818 | 49.59 | -3.48 | 46.1135 | 0 | | 172 | 10 | | 181 | 131.406 | |
| 819 | 49.59 | -3.48 | 46.1135 | 0 | | 173 | 10 | | 181 | 131.406 | |
| 820 | 49.59 | -3.48 | 46.1135 | 0 | 13.4 | 173 | 0 | 70 | 182 | 132.406 | 83.4 |
| 821 | 49.59 | -3.48 | 46.1135 | 0 | | 174 | 10 | | 182 | 132.406 | |
| 822 | 49.59 | -3.48 | 46.1135 | 0 | | 174 | 0 | | 182 | 132.406 | |
| 823 | 49.59 | -3.48 | 46.1135 | 0 | | 175 | 10 | | 183 | 133.406 | |
| 824 | 49.59 | -3.48 | 46.1135 | 0 | | 175 | 0 | | 183 | 133.406 | |
| 825 | 52.39 | -5.61 | 46.7835 | 6.7 | | 176 | 10 | | 184 | 131.606 | |
| 826 | 52.39 | -5.02 | 47.3735 | 5.9 | | 176 | 0 | | 184 | 131.606 | |
| 827 | 52.39 | -4.9 | 47.4935 | 1.2 | | 177 | 10 | | 185 | 132.606 | |
| 828 | 53.5 | -5.1 | 48.3975 | 9.04 | | 177 | 0 | | 185 | 131.502 | |
| 829 | 53.5 | -4.93 | 48.5675 | 1.7 | | 178 | 10 | | 185 | 131.502 | |
| 830 | 53.5 | -4.9 | 48.5975 | 0.3 | 24.84 | 179 | 10 | 60 | 186 | 132.502 | 84.84 |
| 831 | 53.5 | -4.89 | 48.6075 | 0.1 | | 179 | 0 | | 186 | 132.502 | |
| 832 | 53.5 | -4.89 | 48.6075 | 0 | | 180 | 10 | | 187 | 133.502 | |
| 833 | 53.5 | -4.89 | 48.6075 | 0 | | 181 | 10 | | 187 | 133.502 | |
| 834 | 53.5 | -4.89 | 48.6075 | 0 | | 181 | 0 | | 188 | 134.502 | |
| 835 | 53.5 | -4.89 | 48.6075 | 0 | | 182 | 10 | | 188 | 134.502 | |
| 836 | 55.22 | -5.54 | 49.6775 | 10.7 | | 182 | 0 | | 188 | 132.782 | |
| 837 | 55.22 | -5.31 | 49.9075 | 2.3 | | 183 | 10 | | 189 | 133.782 | |
| 838 | 55.22 | -5.29 | 49.9275 | 0.2 | | 184 | 10 | | 189 | 133.782 | |
| 839 | 55.22 | -5.29 | 49.9275 | 0 | | 184 | 0 | | 190 | 134.782 | |
| 840 | 55.22 | -5.29 | 49.9275 | 0 | 13.3 | 185 | 10 | 60 | 190 | 134.782 | 73.3 |
| 841 | 55.22 | -5.29 | 49.9275 | 0 | | 185 | 0 | | 190 | 134.782 | |
| 842 | 55.24 | -5.29 | 49.9529 | 0.254 | | 186 | 10 | | 190 | 134.757 | |
| 843 | 55.29 | -5.29 | 50.0037 | 0.508 | | 187 | 10 | | 191 | 135.706 | |
| 844 | 55.34 | -5.29 | 50.0545 | 0.508 | | 187 | 0 | | 191 | 135.655 | |
| 845 | 55.34 | -5.29 | 50.0545 | 0 | | 187 | 0 | | 191 | 135.655 | |
| 846 | 58.34 | -7.42 | 50.9245 | 8.7 | | 188 | 10 | | 192 | 133.655 | |
| 847 | 58.88 | -7.02 | 51.8579 | 9.334 | | 189 | 10 | | 192 | 133.122 | |
| 848 | 58.88 | -6.83 | 52.0479 | 1.9 | | 189 | 0 | | 193 | 134.122 | |
| 849 | 58.88 | -6.77 | 52.1079 | 0.6 | | 190 | 10 | | 193 | 134.122 | |
| 850 | 58.88 | -6.75 | 52.1279 | 0.2 | 22.004 | 191 | 10 | 60 | 193 | 134.122 | 82.004 |
| 851 | 58.88 | -6.74 | 52.1379 | 0.1 | | 191 | 0 | | 194 | 135.122 | |
| 852 | 58.88 | -6.73 | 52.1479 | 0.1 | | 192 | 10 | | 194 | 135.122 | |
| 853 | 58.88 | -6.73 | 52.1479 | 0 | | 192 | 0 | | 195 | 136.122 | |
| 854 | 58.9 | -6.73 | 52.1733 | 0.254 | | 193 | 10 | | 195 | 136.097 | |
| 855 | 58.93 | -6.73 | 52.1987 | 0.254 | | 193 | 0 | | 196 | 137.071 | |
| 856 | 62.13 | -9.09 | 53.0421 | 8.434 | | 194 | 10 | | 196 | 133.868 | |
| 857 | 62.79 | -8.92 | 53.8725 | 8.304 | | 194 | 0 | | 196 | 133.207 | |
| 858 | 62.82 | -8.58 | 54.2379 | 3.654 | | 195 | 10 | | 197 | 134.182 | |
| 859 | 63.12 | -8.49 | 54.6327 | 3.948 | | 195 | 0 | | 197 | 133.877 | |

| | | | | | | | | | | | | |
|-----|-------|-------|---------|-------|--------|-----|----|----|-----|---------|--------|------|
| 860 | 63.12 | -8.46 | 54.6627 | 0.3 | 25.348 | 196 | 10 | 50 | 197 | 133.877 | 75.348 | C-56 |
| 861 | 63.12 | -8.44 | 54.6827 | 0.2 | | 197 | 10 | | 198 | 134.877 | | |
| 862 | 63.12 | -8.43 | 54.6927 | 0.1 | | 197 | 0 | | 198 | 134.877 | | |
| 863 | 63.12 | -8.43 | 54.6927 | 0 | | 198 | 10 | | 198 | 134.877 | | |
| 864 | 63.12 | -8.43 | 54.6927 | 0 | | 198 | 0 | | 199 | 135.877 | | |
| 865 | 63.12 | -8.43 | 54.6927 | 0 | | 199 | 10 | | 199 | 135.877 | | |
| 866 | 65.63 | -10.1 | 55.5307 | 8.38 | | 200 | 10 | | 199 | 133.369 | | |
| 867 | 65.63 | -9.56 | 56.0707 | 5.4 | | 200 | 0 | | 200 | 134.369 | | |
| 868 | 65.63 | -9.48 | 56.1507 | 0.8 | | 201 | 10 | | 200 | 134.369 | | |
| 869 | 66.17 | -9.45 | 56.7207 | 5.7 | | 201 | 0 | | 200 | 133.829 | | |
| 870 | 66.17 | -9.44 | 56.7307 | 0.1 | 20.68 | 202 | 10 | 60 | 201 | 134.829 | 80.68 | |
| 871 | 66.17 | -9.44 | 56.7307 | 0 | | 202 | 0 | | 201 | 134.829 | | |
| 872 | 66.45 | -9.43 | 57.0201 | 2.894 | | 203 | 10 | | 202 | 135.55 | | |
| 873 | 66.53 | -9.43 | 57.0963 | 0.762 | | 203 | 0 | | 202 | 135.474 | | |
| 874 | 67.01 | -9.43 | 57.5789 | 4.826 | | 203 | 0 | | 202 | 134.991 | | |
| 875 | 68 | -9.83 | 58.1695 | 5.906 | | 204 | 10 | | 202 | 134 | | |
| 876 | 68 | -9.69 | 58.3095 | 1.4 | | 204 | 0 | | 203 | 135 | | |
| 877 | 69.09 | -9.88 | 59.2117 | 9.022 | | 205 | 10 | | 203 | 133.908 | | |
| 878 | 69.14 | -9.78 | 59.3625 | 1.508 | | 205 | 0 | | 203 | 133.857 | | |
| 879 | 71.45 | -11.5 | 59.9473 | 5.848 | | 206 | 10 | | 203 | 131.553 | | |
| 880 | 71.55 | -11.1 | 60.4489 | 5.016 | 37.182 | 206 | 0 | 40 | 204 | 132.451 | 77.182 | |
| 881 | 71.57 | -10.9 | 60.6743 | 2.254 | | 207 | 10 | | 204 | 132.426 | | |
| 882 | 71.57 | -10.9 | 60.6743 | 0 | | 207 | 0 | | 204 | 132.426 | | |
| 883 | 72.2 | -10.9 | 61.2997 | 6.254 | | 208 | 10 | | 204 | 131.8 | | |
| 884 | 72.2 | -10.9 | 61.2997 | 0 | | 208 | 0 | | 205 | 132.8 | | |
| 885 | 72.2 | -10.9 | 61.2997 | 0 | | 209 | 10 | | 205 | 132.8 | | |
| 886 | 72.2 | -10.9 | 61.2997 | 0 | | 210 | 10 | | 205 | 132.8 | | |
| 887 | 72.2 | -10.9 | 61.2997 | 0 | | 210 | 0 | | 205 | 132.8 | | |
| 888 | 72.78 | -10.9 | 61.8839 | 5.842 | | 211 | 10 | | 205 | 132.216 | | |
| 889 | 73.81 | -11.1 | 62.7079 | 8.24 | | 211 | 0 | | 205 | 131.192 | | |
| 890 | 73.81 | -11 | 62.8079 | 1 | 23.59 | 212 | 10 | 60 | 205 | 131.192 | 83.59 | |
| 891 | 73.81 | -11 | 62.8079 | 0 | | 212 | 0 | | 205 | 131.192 | | |
| 892 | 74.27 | -11 | 63.2651 | 4.572 | | 213 | 10 | | 206 | 131.735 | | |
| 893 | 74.27 | -11 | 63.2651 | 0 | | 213 | 0 | | 206 | 131.735 | | |
| 894 | 74.32 | -11 | 63.3159 | 0.508 | | 213 | 0 | | 207 | 132.684 | | |
| 895 | 74.32 | -11 | 63.3159 | 0 | | 214 | 10 | | 207 | 132.684 | | |
| 896 | 76.24 | -12 | 64.2379 | 9.22 | | 214 | 0 | | 208 | 131.762 | | |
| 897 | 77.19 | -12.1 | 65.0887 | 8.508 | | 215 | 10 | | 209 | 131.811 | | |
| 898 | 77.19 | -11.9 | 65.2887 | 2 | | 215 | 0 | | 209 | 131.811 | | |
| 899 | 77.19 | -11.8 | 65.3887 | 1 | | 216 | 10 | | 210 | 132.811 | | |
| 900 | 77.19 | -11.8 | 65.3887 | 0 | 25.808 | 216 | 0 | 40 | 210 | 132.811 | 65.808 | |
| 901 | 77.19 | -11.8 | 65.3887 | 0 | | 217 | 10 | | 211 | 133.811 | | |
| 902 | 77.19 | -11.8 | 65.3887 | 0 | | 217 | 0 | | 211 | 133.811 | | |
| 903 | 79.32 | -13.5 | 65.8223 | 4.336 | | 217 | 0 | | 212 | 132.678 | | |
| 904 | 79.32 | -12.9 | 66.4223 | 6 | | 218 | 10 | | 213 | 133.678 | | |
| 905 | 80.37 | -13.1 | 67.2723 | 8.5 | | 219 | 10 | | 213 | 132.628 | | |
| 906 | 80.37 | -12.9 | 67.4723 | 2 | | 219 | 0 | | 214 | 133.628 | | |
| 907 | 80.37 | -12.9 | 67.4723 | 0 | | 219 | 0 | | 214 | 133.628 | | |
| 908 | 80.37 | -12.9 | 67.4723 | 0 | | 220 | 10 | | 215 | 134.628 | | |
| 909 | 80.37 | -12.9 | 67.4723 | 0 | | 220 | 0 | | 215 | 134.628 | | |
| 910 | 80.37 | -12.9 | 67.4723 | 0 | 20.836 | 221 | 10 | 50 | 216 | 135.628 | 70.836 | |
| 911 | 80.37 | -12.9 | 67.4723 | 0 | | 221 | 0 | | 216 | 135.628 | | |
| 912 | 80.37 | -12.9 | 67.4723 | 0 | | 222 | 10 | | 217 | 136.628 | | |
| 913 | 81.66 | -13.7 | 67.9563 | 4.84 | | 222 | 0 | | 218 | 136.344 | | |
| 914 | 81.68 | -13.4 | 68.2817 | 3.254 | | 222 | 0 | | 218 | 136.318 | | |
| 915 | 81.71 | -13.4 | 68.3071 | 0.254 | | 223 | 10 | | 219 | 137.293 | | |
| 916 | 81.98 | -13.4 | 68.5771 | 2.7 | | 223 | 0 | | 220 | 138.023 | | |
| 917 | 82.26 | -13.4 | 68.8565 | 2.794 | | 223 | 0 | | 221 | 138.743 | | |
| 918 | 83.09 | -13.6 | 69.4947 | 6.382 | | 224 | 10 | | 223 | 139.905 | | |
| 919 | 83.12 | -13.5 | 69.6201 | 1.254 | | 224 | 0 | | 225 | 141.88 | | |
| 920 | 83.12 | -13.5 | 69.6201 | 0 | 21.478 | 224 | 0 | 30 | 226 | 142.88 | 51.478 | |
| 921 | 83.12 | -13.5 | 69.6201 | 0 | | 224 | 0 | | 227 | 143.88 | | |
| 922 | 83.12 | -13.5 | 69.6201 | 0 | | 225 | 10 | | 228 | 144.88 | | |
| 923 | 84.39 | -14.2 | 70.1901 | 5.7 | | 225 | 0 | | 229 | 144.61 | | |
| 924 | 84.64 | -14 | 70.6441 | 4.54 | | 225 | 0 | | 231 | 146.356 | | |
| 925 | 84.64 | -13.9 | 70.7441 | 1 | | 225 | 0 | | 231 | 146.356 | | |
| 926 | 84.64 | -13.9 | 70.7441 | 0 | | 226 | 10 | | 232 | 147.356 | | |

| | | | | | | | | | | |
|-----|-------|-------|---------|-------|-------|-----|----|-----|---------|--------|
| 927 | 84.64 | -13.9 | 70.7441 | 0 | | 226 | 0 | 233 | 148.356 | C-57 |
| 928 | 84.64 | -13.9 | 70.7441 | 0 | | 227 | 10 | 234 | 149.356 | |
| 929 | 84.64 | -13.9 | 70.7441 | 0 | | 227 | 0 | 234 | 149.356 | |
| 930 | 84.64 | -13.9 | 70.7441 | 0 | 11.24 | 227 | 0 | 235 | 150.356 | 41.24 |
| 931 | 84.64 | -13.9 | 70.7441 | 0 | | 227 | 0 | 235 | 150.356 | |
| 932 | 84.64 | -13.9 | 70.7441 | 0 | | 228 | 10 | 235 | 150.356 | |
| 933 | 84.64 | -13.9 | 70.7441 | 0 | | 228 | 0 | 236 | 151.356 | |
| 934 | 84.64 | -13.9 | 70.7441 | 0 | | 228 | 0 | 236 | 151.356 | |
| 935 | 84.64 | -13.9 | 70.7441 | 0 | | 228 | 0 | 236 | 151.356 | |
| 936 | 84.64 | -13.9 | 70.7441 | 0 | | 229 | 10 | 236 | 151.356 | |
| 937 | 84.64 | -13.9 | 70.7441 | 0 | | 229 | 0 | 236 | 151.356 | |
| 938 | 84.64 | -13.9 | 70.7441 | 0 | | 229 | 0 | 236 | 151.356 | |
| 939 | 84.64 | -13.9 | 70.7441 | 0 | | 229 | 0 | 236 | 151.356 | |
| 940 | 84.64 | -13.9 | 70.7441 | 0 | 0 | 230 | 10 | 237 | 152.356 | 30 |
| 941 | 84.64 | -13.9 | 70.7441 | 0 | | 230 | 0 | 237 | 152.356 | |
| 942 | 84.64 | -13.9 | 70.7441 | 0 | | 230 | 0 | 237 | 152.356 | |
| 943 | 84.64 | -13.9 | 70.7441 | 0 | | 231 | 10 | 238 | 153.356 | |
| 944 | 84.64 | -13.9 | 70.7441 | 0 | | 231 | 0 | 238 | 153.356 | |
| 945 | 84.64 | -13.9 | 70.7441 | 0 | | 231 | 0 | 239 | 154.356 | |
| 946 | 84.82 | -13.9 | 70.9219 | 1.778 | | 231 | 0 | 239 | 154.178 | |
| 947 | 85.36 | -14.3 | 71.0553 | 1.334 | | 231 | 0 | 239 | 153.645 | |
| 948 | 85.36 | -14.2 | 71.1553 | 1 | | 232 | 10 | 239 | 153.645 | |
| 949 | 85.36 | -14.2 | 71.1553 | 0 | | 232 | 0 | 239 | 153.645 | |
| 950 | 85.36 | -14.2 | 71.1553 | 0 | 4.112 | 232 | 0 | 240 | 154.645 | 24.112 |
| 951 | 85.36 | -14.2 | 71.1553 | 0 | | 233 | 10 | 240 | 154.645 | |
| 952 | 85.36 | -14.2 | 71.1553 | 0 | | 233 | 0 | 240 | 154.645 | |
| 953 | 85.36 | -14.2 | 71.1553 | 0 | | 233 | 0 | 240 | 154.645 | |
| 954 | 85.36 | -14.2 | 71.1553 | 0 | | 233 | 0 | 240 | 154.645 | |
| 955 | 85.36 | -14.2 | 71.1553 | 0 | | 233 | 0 | 240 | 154.645 | |
| 956 | 85.36 | -14.2 | 71.1553 | 0 | | 233 | 0 | 240 | 154.645 | |
| 957 | 85.36 | -14.2 | 71.1553 | 0 | | 233 | 0 | 240 | 154.645 | |
| 958 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 10 | 240 | 154.645 | |
| 959 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 240 | 154.645 | |
| 960 | 85.36 | -14.2 | 71.1553 | 0 | 0 | 234 | 0 | 241 | 155.645 | 20 |
| 961 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 241 | 155.645 | |
| 962 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 241 | 155.645 | |
| 963 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 241 | 155.645 | |
| 964 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 241 | 155.645 | |
| 965 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 241 | 155.645 | |
| 966 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 241 | 155.645 | |
| 967 | 85.36 | -14.2 | 71.1553 | 0 | | 234 | 0 | 241 | 155.645 | |
| 968 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 10 | 242 | 156.645 | |
| 969 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 242 | 156.645 | |
| 970 | 85.36 | -14.2 | 71.1553 | 0 | 0 | 235 | 0 | 242 | 156.645 | 10 |
| 971 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 242 | 156.645 | |
| 972 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 242 | 156.645 | |
| 973 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 242 | 156.645 | |
| 974 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 243 | 157.645 | |
| 975 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 243 | 157.645 | |
| 976 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 243 | 157.645 | |
| 977 | 85.36 | -14.2 | 71.1553 | 0 | | 235 | 0 | 243 | 157.645 | |
| 978 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 10 | 243 | 157.645 | |
| 979 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 980 | 85.36 | -14.2 | 71.1553 | 0 | 0 | 236 | 0 | 243 | 157.645 | 10 |
| 981 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 982 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 983 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 984 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 985 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 986 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 987 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 988 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 243 | 157.645 | |
| 989 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 244 | 158.645 | |
| 990 | 85.36 | -14.2 | 71.1553 | 0 | 0 | 236 | 0 | 245 | 159.645 | 0 |
| 991 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 247 | 161.645 | |
| 992 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 247 | 161.645 | |
| 993 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | 247 | 161.645 | |

| | | | | | | | | | | | | |
|------|-------|-------|---------|-------|-------|-----|---|---|-----|---------|-------|------|
| 994 | 85.36 | -14.2 | 71.1553 | 0 | | 236 | 0 | | 247 | 161.645 | | C-58 |
| 995 | 85.41 | -14.2 | 71.2061 | 0.508 | | 236 | 0 | | 247 | 161.594 | | |
| 996 | 85.41 | -14.2 | 71.2061 | 0 | | 236 | 0 | | 247 | 161.594 | | |
| 997 | 85.41 | -14.2 | 71.2061 | 0 | | 236 | 0 | | 247 | 161.594 | | |
| 998 | 85.41 | -14.2 | 71.2061 | 0 | | 236 | 0 | | 247 | 161.594 | | |
| 999 | 85.66 | -14.2 | 71.4601 | 2.54 | | 236 | 0 | | 247 | 161.34 | | |
| 1000 | 85.66 | -14.2 | 71.4601 | 0 | 3.048 | 236 | 0 | 0 | 247 | 161.34 | 3.048 | |
| 1001 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1002 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1003 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1004 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1005 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1006 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1007 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1008 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1009 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1010 | 85.66 | -14.2 | 71.4601 | 0 | 0 | 236 | 0 | 0 | 247 | 161.34 | 0 | |
| 1011 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 247 | 161.34 | | |
| 1012 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 248 | 162.34 | | |
| 1013 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 248 | 162.34 | | |
| 1014 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 248 | 162.34 | | |
| 1015 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 248 | 162.34 | | |
| 1016 | 85.66 | -14.2 | 71.4601 | 0 | | 236 | 0 | | 248 | 162.34 | | |
| 1017 | 85.86 | -14.3 | 71.5633 | 1.032 | | 236 | 0 | | 248 | 162.137 | | |
| 1018 | 85.86 | -14.2 | 71.6633 | 1 | | 236 | 0 | | 248 | 162.137 | | |
| 1019 | 85.86 | -14.2 | 71.6633 | 0 | | 236 | 0 | | 248 | 162.137 | | |
| 1020 | 85.86 | -14.2 | 71.6633 | 0 | 2.032 | 236 | 0 | 0 | 248 | 162.137 | 2.032 | |
| 1021 | 85.86 | -14.2 | 71.6633 | 0 | | 236 | 0 | | 248 | 162.137 | | |
| 1022 | 85.86 | -14.2 | 71.6633 | 0 | | 236 | 0 | | 248 | 162.137 | | |

end

CSCMatP193-Daily Data

| Time [day] | CumPc [cm] | sum(vTop [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc [L] | Daily T [mm] | 10day T [mm/10d] | sum(vBot [L] | Cumm Dis [cm] | 10day ET [mm/10d] |
|------------|------------|--------------|-------------|------------------|------------------|--------------|--------------|------------------|--------------|---------------|-------------------|
| 650 | 33.63 | 284 | 317.63 | 0 | 20 | 135 | 0 | 0 | 420 | 386.37 | 20 |
| 651 | 33.63 | 285 | 318.63 | 10 | | 135 | 0 | | 420 | 386.37 | |
| 652 | 33.83 | 285 | 318.833 | 2.032 | | 135 | 0 | | 420 | 386.167 | |
| 653 | 33.83 | 285 | 318.833 | 0 | | 135 | 0 | | 420 | 386.167 | |
| 654 | 33.83 | 285 | 318.833 | 0 | | 135 | 0 | | 420 | 386.167 | |
| 655 | 33.83 | 285 | 318.833 | 0 | | 135 | 0 | | 420 | 386.167 | |
| 656 | 33.83 | 285 | 318.833 | 0 | | 135 | 0 | | 421 | 387.167 | |
| 657 | 33.83 | 286 | 319.833 | 10 | | 135 | 0 | | 421 | 387.167 | |
| 658 | 33.83 | 286 | 319.833 | 0 | | 135 | 0 | | 421 | 387.167 | |
| 659 | 33.83 | 286 | 319.833 | 0 | | 135 | 0 | | 421 | 387.167 | |
| 660 | 33.83 | 287 | 320.833 | 10 | 32.032 | 135 | 0 | 0 | 421 | 387.167 | 32.032 |
| 661 | 33.83 | 287 | 320.833 | 0 | | 135 | 0 | | 421 | 387.167 | |
| 662 | 33.83 | 287 | 320.833 | 0 | | 135 | 0 | | 421 | 387.167 | |
| 663 | 33.83 | 288 | 321.833 | 10 | | 135 | 0 | | 421 | 387.167 | |
| 664 | 33.83 | 288 | 321.833 | 0 | | 135 | 0 | | 421 | 387.167 | |
| 665 | 33.83 | 288 | 321.833 | 0 | | 135 | 0 | | 421 | 387.167 | |
| 666 | 33.83 | 289 | 322.833 | 10 | | 135 | 0 | | 422 | 388.167 | |
| 667 | 33.83 | 289 | 322.833 | 0 | | 135 | 0 | | 422 | 388.167 | |
| 668 | 33.83 | 290 | 323.833 | 10 | | 135 | 0 | | 422 | 388.167 | |
| 669 | 33.83 | 290 | 323.833 | 0 | | 135 | 0 | | 422 | 388.167 | |
| 670 | 33.83 | 290 | 323.833 | 0 | 30 | 135 | 0 | 0 | 423 | 389.167 | 30 |
| 671 | 33.83 | 291 | 324.833 | 10 | | 135 | 0 | | 423 | 389.167 | |
| 672 | 33.83 | 291 | 324.833 | 0 | | 135 | 0 | | 423 | 389.167 | |
| 673 | 33.83 | 292 | 325.833 | 10 | | 135 | 0 | | 423 | 389.167 | |
| 674 | 33.83 | 292 | 325.833 | 0 | | 135 | 0 | | 424 | 390.167 | |
| 675 | 33.83 | 292 | 325.833 | 0 | | 135 | 0 | | 424 | 390.167 | |
| 676 | 33.83 | 293 | 326.833 | 10 | | 135 | 0 | | 424 | 390.167 | |
| 677 | 33.83 | 293 | 326.833 | 0 | | 135 | 0 | | 425 | 391.167 | |
| 678 | 33.83 | 294 | 327.833 | 10 | | 135 | 0 | | 425 | 391.167 | |

| | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|-----|---------|---------|---------|
| 813 | 49.59 | 361 | 410.594 | 0 | | 146 | 0 | 500 | 450.406 | C-61 | |
| 814 | 49.59 | 362 | 411.594 | 10 | | 146 | 0 | 501 | 451.406 | | |
| 815 | 49.59 | 362 | 411.594 | 0 | | 147 | 10 | 502 | 452.406 | | |
| 816 | 49.59 | 363 | 412.594 | 10 | | 147 | 0 | 503 | 453.406 | | |
| 817 | 49.59 | 363 | 412.594 | 0 | | 148 | 10 | 504 | 454.406 | | |
| 818 | 49.59 | 363 | 412.594 | 0 | | 148 | 0 | 504 | 454.406 | | |
| 819 | 49.59 | 364 | 413.594 | 10 | | 149 | 10 | 505 | 455.406 | | |
| 820 | 49.59 | 364 | 413.594 | 0 | 55.6 | 149 | 0 | 40 | 506 | 456.406 | 95.6 |
| 821 | 49.59 | 364 | 413.594 | 0 | | 149 | 0 | 507 | 457.406 | | |
| 822 | 49.59 | 365 | 414.594 | 10 | | 150 | 10 | 508 | 458.406 | | |
| 823 | 49.59 | 365 | 414.594 | 0 | | 150 | 0 | 509 | 459.406 | | |
| 824 | 49.59 | 366 | 415.594 | 10 | | 151 | 10 | 509 | 459.406 | | |
| 825 | 52.39 | 364 | 416.394 | 8 | | 151 | 0 | 510 | 457.606 | | |
| 826 | 52.39 | 364 | 416.394 | 0 | | 151 | 0 | 511 | 458.606 | | |
| 827 | 52.39 | 365 | 417.394 | 10 | | 152 | 10 | 512 | 459.606 | | |
| 828 | 53.5 | 365 | 418.498 | 11.04 | | 152 | 0 | 512 | 458.502 | | |
| 829 | 53.5 | 366 | 419.498 | 10 | | 152 | 0 | 513 | 459.502 | | |
| 830 | 53.5 | 367 | 420.498 | 10 | 69.04 | 153 | 10 | 40 | 514 | 460.502 | 109.04 |
| 831 | 53.5 | 367 | 420.498 | 0 | | 153 | 0 | 515 | 461.502 | | |
| 832 | 53.5 | 368 | 421.498 | 10 | | 154 | 10 | 516 | 462.502 | | |
| 833 | 53.5 | 369 | 422.498 | 10 | | 154 | 0 | 516 | 462.502 | | |
| 834 | 53.5 | 369 | 422.498 | 0 | | 155 | 10 | 517 | 463.502 | | |
| 835 | 53.5 | 370 | 423.498 | 10 | | 155 | 0 | 518 | 464.502 | | |
| 836 | 55.22 | 369 | 424.218 | 7.2 | | 155 | 0 | 519 | 463.782 | | |
| 837 | 55.22 | 370 | 425.218 | 10 | | 156 | 10 | 520 | 464.782 | | |
| 838 | 55.22 | 371 | 426.218 | 10 | | 156 | 0 | 520 | 464.782 | | |
| 839 | 55.22 | 371 | 426.218 | 0 | | 157 | 10 | 521 | 465.782 | | |
| 840 | 55.22 | 371 | 426.218 | 0 | 57.2 | 157 | 0 | 40 | 522 | 466.782 | 97.2 |
| 841 | 55.22 | 372 | 427.218 | 10 | | 158 | 10 | 523 | 467.782 | | |
| 842 | 55.24 | 372 | 427.243 | 0.254 | | 158 | 0 | 523 | 467.757 | | |
| 843 | 55.29 | 373 | 428.294 | 10.508 | | 159 | 10 | 524 | 468.706 | | |
| 844 | 55.34 | 373 | 428.345 | 0.508 | | 159 | 0 | 525 | 469.655 | | |
| 845 | 55.34 | 373 | 428.345 | 0 | | 160 | 10 | 526 | 470.655 | | |
| 846 | 58.34 | 371 | 429.345 | 10 | | 160 | 0 | 527 | 468.655 | | |
| 847 | 58.88 | 372 | 430.878 | 15.334 | | 160 | 0 | 527 | 468.122 | | |
| 848 | 58.88 | 372 | 430.878 | 0 | | 161 | 10 | 528 | 469.122 | | |
| 849 | 58.88 | 373 | 431.878 | 10 | | 161 | 0 | 529 | 470.122 | | |
| 850 | 58.88 | 374 | 432.878 | 10 | 66.604 | 162 | 10 | 50 | 530 | 471.122 | 116.604 |
| 851 | 58.88 | 375 | 433.878 | 10 | | 162 | 0 | 530 | 471.122 | | |
| 852 | 58.88 | 375 | 433.878 | 0 | | 163 | 10 | 531 | 472.122 | | |
| 853 | 58.88 | 376 | 434.878 | 10 | | 163 | 0 | 532 | 473.122 | | |
| 854 | 58.9 | 376 | 434.903 | 0.254 | | 163 | 0 | 533 | 474.097 | | |
| 855 | 58.93 | 377 | 435.929 | 10.254 | | 163 | 0 | 534 | 475.071 | | |
| 856 | 62.13 | 374 | 436.132 | 2.034 | | 164 | 10 | 534 | 471.868 | | |
| 857 | 62.79 | 374 | 436.793 | 6.604 | | 164 | 0 | 535 | 472.207 | | |
| 858 | 62.82 | 375 | 437.818 | 10.254 | | 165 | 10 | 536 | 473.182 | | |
| 859 | 63.12 | 375 | 438.123 | 3.048 | | 165 | 0 | 536 | 472.877 | | |
| 860 | 63.12 | 376 | 439.123 | 10 | 62.448 | 166 | 10 | 40 | 537 | 473.877 | 102.448 |
| 861 | 63.12 | 377 | 440.123 | 10 | | 166 | 0 | 538 | 474.877 | | |
| 862 | 63.12 | 378 | 441.123 | 10 | | 166 | 0 | 539 | 475.877 | | |
| 863 | 63.12 | 379 | 442.123 | 10 | | 167 | 10 | 539 | 475.877 | | |
| 864 | 63.12 | 379 | 442.123 | 0 | | 167 | 0 | 540 | 476.877 | | |
| 865 | 63.12 | 380 | 443.123 | 10 | | 168 | 10 | 541 | 477.877 | | |
| 866 | 65.63 | 378 | 443.631 | 5.08 | | 168 | 0 | 542 | 476.369 | | |
| 867 | 65.63 | 379 | 444.631 | 10 | | 169 | 10 | 542 | 476.369 | | |
| 868 | 65.63 | 380 | 445.631 | 10 | | 169 | 0 | 543 | 477.369 | | |
| 869 | 66.17 | 380 | 446.171 | 5.4 | | 170 | 10 | 544 | 477.829 | | |
| 870 | 66.17 | 381 | 447.171 | 10 | 80.48 | 170 | 0 | 40 | 545 | 478.829 | 120.48 |
| 871 | 66.17 | 382 | 448.171 | 10 | | 170 | 0 | 545 | 478.829 | | |
| 872 | 66.45 | 382 | 448.45 | 2.794 | | 171 | 10 | 546 | 479.55 | | |
| 873 | 66.53 | 382 | 448.526 | 0.762 | | 171 | 0 | 547 | 480.474 | | |
| 874 | 67.01 | 382 | 449.009 | 4.826 | | 171 | 0 | 547 | 479.991 | | |
| 875 | 68 | 382 | 450 | 9.906 | | 172 | 10 | 548 | 480 | | |
| 876 | 68 | 383 | 451 | 10 | | 172 | 0 | 549 | 481 | | |
| 877 | 69.09 | 383 | 452.092 | 10.922 | | 173 | 10 | 550 | 480.908 | | |
| 878 | 69.14 | 383 | 452.143 | 0.508 | | 173 | 0 | 550 | 480.857 | | |
| 879 | 71.45 | 381 | 452.447 | 3.048 | | 173 | 0 | 551 | 479.553 | | |

| | | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|----|-----|---------|---------|------|
| 880 | 71.55 | 382 | 453.549 | 11.016 | 63.782 | 174 | 10 | 40 | 552 | 480.451 | 103.782 | C-62 |
| 881 | 71.57 | 383 | 454.574 | 10.254 | | 174 | 0 | | 552 | 480.426 | | |
| 882 | 71.57 | 384 | 455.574 | 10 | | 175 | 10 | | 553 | 481.426 | | |
| 883 | 72.2 | 384 | 456.2 | 6.254 | | 175 | 0 | | 554 | 481.8 | | |
| 884 | 72.2 | 385 | 457.2 | 10 | | 175 | 0 | | 554 | 481.8 | | |
| 885 | 72.2 | 385 | 457.2 | 0 | | 176 | 10 | | 555 | 482.8 | | |
| 886 | 72.2 | 386 | 458.2 | 10 | | 177 | 10 | | 555 | 482.8 | | |
| 887 | 72.2 | 386 | 458.2 | 0 | | 177 | 0 | | 556 | 483.8 | | |
| 888 | 72.78 | 387 | 459.784 | 15.842 | | 178 | 10 | | 556 | 483.216 | | |
| 889 | 73.81 | 387 | 460.808 | 10.24 | | 178 | 0 | | 557 | 483.192 | | |
| 890 | 73.81 | 387 | 460.808 | 0 | 72.59 | 179 | 10 | 50 | 558 | 484.192 | 122.59 | |
| 891 | 73.81 | 388 | 461.808 | 10 | | 179 | 0 | | 558 | 484.192 | | |
| 892 | 74.27 | 388 | 462.265 | 4.572 | | 180 | 10 | | 559 | 484.735 | | |
| 893 | 74.27 | 388 | 462.265 | 0 | | 180 | 0 | | 560 | 485.735 | | |
| 894 | 74.32 | 388 | 462.316 | 0.508 | | 181 | 10 | | 561 | 486.684 | | |
| 895 | 74.32 | 389 | 463.316 | 10 | | 181 | 0 | | 561 | 486.684 | | |
| 896 | 76.24 | 388 | 464.238 | 9.22 | | 181 | 0 | | 562 | 485.762 | | |
| 897 | 77.19 | 388 | 465.189 | 9.508 | | 182 | 10 | | 563 | 485.811 | | |
| 898 | 77.19 | 388 | 465.189 | 0 | | 182 | 0 | | 564 | 486.811 | | |
| 899 | 77.19 | 389 | 466.189 | 10 | | 183 | 10 | | 565 | 487.811 | | |
| 900 | 77.19 | 389 | 466.189 | 0 | 53.808 | 183 | 0 | 40 | 566 | 488.811 | 93.808 | |
| 901 | 77.19 | 390 | 467.189 | 10 | | 183 | 0 | | 566 | 488.811 | | |
| 902 | 77.19 | 390 | 467.189 | 0 | | 184 | 10 | | 567 | 489.811 | | |
| 903 | 79.32 | 389 | 468.322 | 11.336 | | 184 | 0 | | 568 | 488.678 | | |
| 904 | 79.32 | 389 | 468.322 | 0 | | 185 | 10 | | 569 | 489.678 | | |
| 905 | 80.37 | 389 | 469.372 | 10.5 | | 185 | 0 | | 570 | 489.628 | | |
| 906 | 80.37 | 390 | 470.372 | 10 | | 185 | 0 | | 570 | 489.628 | | |
| 907 | 80.37 | 391 | 471.372 | 10 | | 186 | 10 | | 571 | 490.628 | | |
| 908 | 80.37 | 391 | 471.372 | 0 | | 186 | 0 | | 572 | 491.628 | | |
| 909 | 80.37 | 392 | 472.372 | 10 | | 186 | 0 | | 573 | 492.628 | | |
| 910 | 80.37 | 393 | 473.372 | 10 | 71.836 | 187 | 10 | 40 | 574 | 493.628 | 111.836 | |
| 911 | 80.37 | 393 | 473.372 | 0 | | 187 | 0 | | 574 | 493.628 | | |
| 912 | 80.37 | 394 | 474.372 | 10 | | 188 | 10 | | 575 | 494.628 | | |
| 913 | 81.66 | 393 | 474.656 | 2.84 | | 188 | 0 | | 576 | 494.344 | | |
| 914 | 81.68 | 393 | 474.682 | 0.254 | | 188 | 0 | | 577 | 495.318 | | |
| 915 | 81.71 | 394 | 475.707 | 10.254 | | 189 | 10 | | 578 | 496.293 | | |
| 916 | 81.98 | 394 | 475.977 | 2.7 | | 189 | 0 | | 579 | 497.023 | | |
| 917 | 82.26 | 394 | 476.257 | 2.794 | | 189 | 0 | | 579 | 496.743 | | |
| 918 | 83.09 | 394 | 477.095 | 8.382 | | 189 | 0 | | 580 | 496.905 | | |
| 919 | 83.12 | 395 | 478.12 | 10.254 | | 190 | 10 | | 581 | 497.88 | | |
| 920 | 83.12 | 395 | 478.12 | 0 | 47.478 | 190 | 0 | 30 | 582 | 498.88 | 77.478 | |
| 921 | 83.12 | 396 | 479.12 | 10 | | 190 | 0 | | 583 | 499.88 | | |
| 922 | 83.12 | 397 | 480.12 | 10 | | 191 | 10 | | 583 | 499.88 | | |
| 923 | 84.39 | 396 | 480.39 | 2.7 | | 191 | 0 | | 584 | 499.61 | | |
| 924 | 84.64 | 396 | 480.644 | 2.54 | | 191 | 0 | | 585 | 500.356 | | |
| 925 | 84.64 | 397 | 481.644 | 10 | | 192 | 10 | | 586 | 501.356 | | |
| 926 | 84.64 | 398 | 482.644 | 10 | | 192 | 0 | | 587 | 502.356 | | |
| 927 | 84.64 | 399 | 483.644 | 10 | | 192 | 0 | | 587 | 502.356 | | |
| 928 | 84.64 | 400 | 484.644 | 10 | | 193 | 10 | | 588 | 503.356 | | |
| 929 | 84.64 | 400 | 484.644 | 0 | | 193 | 0 | | 589 | 504.356 | | |
| 930 | 84.64 | 401 | 485.644 | 10 | 75.24 | 193 | 0 | 30 | 590 | 505.356 | 105.24 | |
| 931 | 84.64 | 402 | 486.644 | 10 | | 194 | 10 | | 590 | 505.356 | | |
| 932 | 84.64 | 403 | 487.644 | 10 | | 194 | 0 | | 591 | 506.356 | | |
| 933 | 84.64 | 403 | 487.644 | 0 | | 194 | 0 | | 592 | 507.356 | | |
| 934 | 84.64 | 404 | 488.644 | 10 | | 195 | 10 | | 593 | 508.356 | | |
| 935 | 84.64 | 405 | 489.644 | 10 | | 195 | 0 | | 594 | 509.356 | | |
| 936 | 84.64 | 405 | 489.644 | 0 | | 195 | 0 | | 595 | 510.356 | | |
| 937 | 84.64 | 406 | 490.644 | 10 | | 195 | 0 | | 595 | 510.356 | | |
| 938 | 84.64 | 407 | 491.644 | 10 | | 196 | 10 | | 596 | 511.356 | | |
| 939 | 84.64 | 407 | 491.644 | 0 | | 196 | 0 | | 597 | 512.356 | | |
| 940 | 84.64 | 408 | 492.644 | 10 | 70 | 196 | 0 | 30 | 598 | 513.356 | 100 | |
| 941 | 84.64 | 408 | 492.644 | 0 | | 196 | 0 | | 599 | 514.356 | | |
| 942 | 84.64 | 409 | 493.644 | 10 | | 197 | 10 | | 600 | 515.356 | | |
| 943 | 84.64 | 409 | 493.644 | 0 | | 197 | 0 | | 600 | 515.356 | | |
| 944 | 84.64 | 410 | 494.644 | 10 | | 197 | 0 | | 601 | 516.356 | | |
| 945 | 84.64 | 411 | 495.644 | 10 | | 197 | 0 | | 602 | 517.356 | | |
| 946 | 84.82 | 411 | 495.822 | 1.778 | | 198 | 10 | | 603 | 518.178 | | |

| | | | | | | | | | | | |
|------|-------|-----|---------|-------|--------|-----|----|-----|---------|---------|--------|
| 947 | 85.36 | 411 | 496.355 | 5.334 | | 198 | 0 | 604 | 518.645 | C-63 | |
| 948 | 85.36 | 411 | 496.355 | 0 | | 198 | 0 | 605 | 519.645 | | |
| 949 | 85.36 | 411 | 496.355 | 0 | | 198 | 0 | 605 | 519.645 | | |
| 950 | 85.36 | 412 | 497.355 | 10 | 47.112 | 199 | 10 | 30 | 606 | 520.645 | 77.112 |
| 951 | 85.36 | 413 | 498.355 | 10 | | 199 | 0 | | 607 | 521.645 | |
| 952 | 85.36 | 413 | 498.355 | 0 | | 199 | 0 | | 608 | 522.645 | |
| 953 | 85.36 | 414 | 499.355 | 10 | | 199 | 0 | | 608 | 522.645 | |
| 954 | 85.36 | 414 | 499.355 | 0 | | 199 | 0 | | 609 | 523.645 | |
| 955 | 85.36 | 415 | 500.355 | 10 | | 199 | 0 | | 610 | 524.645 | |
| 956 | 85.36 | 416 | 501.355 | 10 | | 199 | 0 | | 611 | 525.645 | |
| 957 | 85.36 | 416 | 501.355 | 0 | | 199 | 0 | | 611 | 525.645 | |
| 958 | 85.36 | 417 | 502.355 | 10 | | 200 | 10 | | 612 | 526.645 | |
| 959 | 85.36 | 417 | 502.355 | 0 | | 200 | 0 | | 613 | 527.645 | |
| 960 | 85.36 | 418 | 503.355 | 10 | 60 | 200 | 0 | 10 | 614 | 528.645 | 70 |
| 961 | 85.36 | 419 | 504.355 | 10 | | 200 | 0 | | 614 | 528.645 | |
| 962 | 85.36 | 419 | 504.355 | 0 | | 200 | 0 | | 615 | 529.645 | |
| 963 | 85.36 | 420 | 505.355 | 10 | | 200 | 0 | | 616 | 530.645 | |
| 964 | 85.36 | 420 | 505.355 | 0 | | 200 | 0 | | 616 | 530.645 | |
| 965 | 85.36 | 421 | 506.355 | 10 | | 200 | 0 | | 617 | 531.645 | |
| 966 | 85.36 | 421 | 506.355 | 0 | | 200 | 0 | | 618 | 532.645 | |
| 967 | 85.36 | 422 | 507.355 | 10 | | 200 | 0 | | 619 | 533.645 | |
| 968 | 85.36 | 422 | 507.355 | 0 | | 200 | 0 | | 619 | 533.645 | |
| 969 | 85.36 | 423 | 508.355 | 10 | | 200 | 0 | | 620 | 534.645 | |
| 970 | 85.36 | 423 | 508.355 | 0 | 50 | 201 | 10 | 10 | 621 | 535.645 | 60 |
| 971 | 85.36 | 424 | 509.355 | 10 | | 201 | 0 | | 621 | 535.645 | |
| 972 | 85.36 | 425 | 510.355 | 10 | | 201 | 0 | | 622 | 536.645 | |
| 973 | 85.36 | 425 | 510.355 | 0 | | 201 | 0 | | 623 | 537.645 | |
| 974 | 85.36 | 426 | 511.355 | 10 | | 201 | 0 | | 623 | 537.645 | |
| 975 | 85.36 | 427 | 512.355 | 10 | | 201 | 0 | | 624 | 538.645 | |
| 976 | 85.36 | 427 | 512.355 | 0 | | 201 | 0 | | 625 | 539.645 | |
| 977 | 85.36 | 428 | 513.355 | 10 | | 201 | 0 | | 626 | 540.645 | |
| 978 | 85.36 | 428 | 513.355 | 0 | | 201 | 0 | | 626 | 540.645 | |
| 979 | 85.36 | 429 | 514.355 | 10 | | 201 | 0 | | 627 | 541.645 | |
| 980 | 85.36 | 429 | 514.355 | 0 | 60 | 201 | 0 | 0 | 628 | 542.645 | 60 |
| 981 | 85.36 | 430 | 515.355 | 10 | | 201 | 0 | | 628 | 542.645 | |
| 982 | 85.36 | 430 | 515.355 | 0 | | 201 | 0 | | 629 | 543.645 | |
| 983 | 85.36 | 430 | 515.355 | 0 | | 201 | 0 | | 629 | 543.645 | |
| 984 | 85.36 | 431 | 516.355 | 10 | | 201 | 0 | | 630 | 544.645 | |
| 985 | 85.36 | 431 | 516.355 | 0 | | 201 | 0 | | 630 | 544.645 | |
| 986 | 85.36 | 432 | 517.355 | 10 | | 201 | 0 | | 631 | 545.645 | |
| 987 | 85.36 | 432 | 517.355 | 0 | | 201 | 0 | | 632 | 546.645 | |
| 988 | 85.36 | 432 | 517.355 | 0 | | 201 | 0 | | 632 | 546.645 | |
| 989 | 85.36 | 433 | 518.355 | 10 | | 201 | 0 | | 633 | 547.645 | |
| 990 | 85.36 | 433 | 518.355 | 0 | 40 | 201 | 0 | 0 | 634 | 548.645 | 40 |
| 991 | 85.36 | 434 | 519.355 | 10 | | 201 | 0 | | 634 | 548.645 | |
| 992 | 85.36 | 434 | 519.355 | 0 | | 201 | 0 | | 635 | 549.645 | |
| 993 | 85.36 | 435 | 520.355 | 10 | | 201 | 0 | | 636 | 550.645 | |
| 994 | 85.36 | 435 | 520.355 | 0 | | 201 | 0 | | 636 | 550.645 | |
| 995 | 85.41 | 435 | 520.406 | 0.508 | | 201 | 0 | | 637 | 551.594 | |
| 996 | 85.41 | 436 | 521.406 | 10 | | 201 | 0 | | 637 | 551.594 | |
| 997 | 85.41 | 436 | 521.406 | 0 | | 201 | 0 | | 638 | 552.594 | |
| 998 | 85.41 | 436 | 521.406 | 0 | | 201 | 0 | | 638 | 552.594 | |
| 999 | 85.66 | 436 | 521.66 | 2.54 | | 201 | 0 | | 638 | 552.34 | |
| 1000 | 85.66 | 436 | 521.66 | 0 | 33.048 | 201 | 0 | 0 | 639 | 553.34 | 33.048 |
| 1001 | 85.66 | 437 | 522.66 | 10 | | 201 | 0 | | 639 | 553.34 | |
| 1002 | 85.66 | 437 | 522.66 | 0 | | 201 | 0 | | 639 | 553.34 | |
| 1003 | 85.66 | 437 | 522.66 | 0 | | 201 | 0 | | 640 | 554.34 | |
| 1004 | 85.66 | 438 | 523.66 | 10 | | 201 | 0 | | 640 | 554.34 | |
| 1005 | 85.66 | 438 | 523.66 | 0 | | 201 | 0 | | 640 | 554.34 | |
| 1006 | 85.66 | 439 | 524.66 | 10 | | 201 | 0 | | 641 | 555.34 | |
| 1007 | 85.66 | 439 | 524.66 | 0 | | 201 | 0 | | 641 | 555.34 | |
| 1008 | 85.66 | 439 | 524.66 | 0 | | 201 | 0 | | 641 | 555.34 | |
| 1009 | 85.66 | 440 | 525.66 | 10 | | 201 | 0 | | 642 | 556.34 | |
| 1010 | 85.66 | 440 | 525.66 | 0 | 40 | 201 | 0 | 0 | 642 | 556.34 | 40 |
| 1011 | 85.66 | 440 | 525.66 | 0 | | 201 | 0 | | 643 | 557.34 | |
| 1012 | 85.66 | 440 | 525.66 | 0 | | 201 | 0 | | 643 | 557.34 | |
| 1013 | 85.66 | 440 | 525.66 | 0 | | 201 | 0 | | 643 | 557.34 | |

| | | | | | | | | | | |
|------|-------|-----|---------|-------|--------|-----|---|-----|---------|--------|
| 1014 | 85.66 | 441 | 526.66 | 10 | | 201 | 0 | 643 | 557.34 | C-64 |
| 1015 | 85.66 | 441 | 526.66 | 0 | | 201 | 0 | 643 | 557.34 | |
| 1016 | 85.66 | 441 | 526.66 | 0 | | 201 | 0 | 644 | 558.34 | |
| 1017 | 85.86 | 441 | 526.863 | 2.032 | | 201 | 0 | 644 | 558.137 | |
| 1018 | 85.86 | 441 | 526.863 | 0 | | 201 | 0 | 644 | 558.137 | |
| 1019 | 85.86 | 441 | 526.863 | 0 | | 201 | 0 | 644 | 558.137 | |
| 1020 | 85.86 | 442 | 527.863 | 10 | 22.032 | 201 | 0 | 644 | 558.137 | 22.032 |
| 1021 | 85.86 | 442 | 527.863 | 0 | | 201 | 0 | 644 | 558.137 | |
| 1022 | 85.86 | 442 | 527.863 | 0 | | 201 | 0 | 645 | 559.137 | |
| end | | | | | | | | | | |

CSCMatP171-Daily Data

| Time [day] | CumP _c [cm] | sum(vTop [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc [L] | Daily T [mm] | 10day T [mm/10d] | sum(vBot [L] | Cumm Dis [cm] | 10day ET [mm/10d] |
|------------|------------------------|--------------|-------------|------------------|------------------|--------------|--------------|------------------|--------------|---------------|-------------------|
| 650 | 33.63 | 236 | 269.63 | 0 | 30 | 146 | 0 | 0 | 382 | 348.37 | 30 |
| 651 | 33.63 | 236 | 269.63 | 0 | | 146 | 0 | | 382 | 348.37 | |
| 652 | 33.83 | 236 | 269.833 | 2.032 | | 146 | 0 | | 382 | 348.167 | |
| 653 | 33.83 | 236 | 269.833 | 0 | | 146 | 0 | | 382 | 348.167 | |
| 654 | 33.83 | 236 | 269.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 655 | 33.83 | 236 | 269.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 656 | 33.83 | 237 | 270.833 | 10 | | 146 | 0 | | 383 | 349.167 | |
| 657 | 33.83 | 237 | 270.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 658 | 33.83 | 237 | 270.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 659 | 33.83 | 238 | 271.833 | 10 | | 146 | 0 | | 383 | 349.167 | |
| 660 | 33.83 | 238 | 271.833 | 0 | 22.032 | 146 | 0 | 0 | 383 | 349.167 | 22.032 |
| 661 | 33.83 | 238 | 271.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 662 | 33.83 | 239 | 272.833 | 10 | | 146 | 0 | | 383 | 349.167 | |
| 663 | 33.83 | 239 | 272.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 664 | 33.83 | 239 | 272.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 665 | 33.83 | 240 | 273.833 | 10 | | 146 | 0 | | 383 | 349.167 | |
| 666 | 33.83 | 240 | 273.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 667 | 33.83 | 240 | 273.833 | 0 | | 146 | 0 | | 383 | 349.167 | |
| 668 | 33.83 | 241 | 274.833 | 10 | | 146 | 0 | | 383 | 349.167 | |
| 669 | 33.83 | 241 | 274.833 | 0 | | 146 | 0 | | 384 | 350.167 | |
| 670 | 33.83 | 242 | 275.833 | 10 | 40 | 146 | 0 | 0 | 384 | 350.167 | 40 |
| 671 | 33.83 | 242 | 275.833 | 0 | | 146 | 0 | | 384 | 350.167 | |
| 672 | 33.83 | 243 | 276.833 | 10 | | 146 | 0 | | 384 | 350.167 | |
| 673 | 33.83 | 243 | 276.833 | 0 | | 146 | 0 | | 385 | 351.167 | |
| 674 | 33.83 | 243 | 276.833 | 0 | | 146 | 0 | | 385 | 351.167 | |
| 675 | 33.83 | 244 | 277.833 | 10 | | 146 | 0 | | 385 | 351.167 | |
| 676 | 33.83 | 244 | 277.833 | 0 | | 146 | 0 | | 385 | 351.167 | |
| 677 | 33.83 | 245 | 278.833 | 10 | | 146 | 0 | | 385 | 351.167 | |
| 678 | 33.83 | 245 | 278.833 | 0 | | 146 | 0 | | 386 | 352.167 | |
| 679 | 33.83 | 246 | 279.833 | 10 | | 146 | 0 | | 386 | 352.167 | |
| 680 | 33.83 | 246 | 279.833 | 0 | 40 | 146 | 0 | 0 | 386 | 352.167 | 40 |
| 681 | 33.83 | 247 | 280.833 | 10 | | 146 | 0 | | 386 | 352.167 | |
| 682 | 33.83 | 247 | 280.833 | 0 | | 146 | 0 | | 387 | 353.167 | |
| 683 | 33.83 | 248 | 281.833 | 10 | | 146 | 0 | | 387 | 353.167 | |
| 684 | 33.83 | 248 | 281.833 | 0 | | 146 | 0 | | 387 | 353.167 | |
| 685 | 33.83 | 249 | 282.833 | 10 | | 146 | 0 | | 388 | 354.167 | |
| 686 | 33.83 | 249 | 282.833 | 0 | | 146 | 0 | | 388 | 354.167 | |
| 687 | 33.83 | 249 | 282.833 | 0 | | 146 | 0 | | 389 | 355.167 | |
| 688 | 33.83 | 249 | 282.833 | 0 | | 146 | 0 | | 389 | 355.167 | |
| 689 | 33.83 | 250 | 283.833 | 10 | | 146 | 0 | | 389 | 355.167 | |
| 690 | 33.83 | 250 | 283.833 | 0 | 40 | 146 | 0 | 0 | 390 | 356.167 | 40 |
| 691 | 33.83 | 251 | 284.833 | 10 | | 146 | 0 | | 390 | 356.167 | |
| 692 | 33.83 | 251 | 284.833 | 0 | | 146 | 0 | | 390 | 356.167 | |
| 693 | 33.83 | 252 | 285.833 | 10 | | 146 | 0 | | 391 | 357.167 | |
| 694 | 33.83 | 252 | 285.833 | 0 | | 146 | 0 | | 391 | 357.167 | |
| 695 | 33.83 | 253 | 286.833 | 10 | | 146 | 0 | | 391 | 357.167 | |
| 696 | 33.83 | 253 | 286.833 | 0 | | 146 | 0 | | 392 | 358.167 | |
| 697 | 33.83 | 254 | 287.833 | 10 | | 146 | 0 | | 392 | 358.167 | |

| | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|-----|---------|---------|--------|
| 698 | 33.83 | 254 | 287.833 | 0 | | 146 | 0 | 392 | 358.167 | C-65 | |
| 699 | 33.83 | 255 | 288.833 | 10 | | 146 | 0 | 393 | 359.167 | | |
| 700 | 33.83 | 255 | 288.833 | 0 | 50 | 146 | 0 | 0 | 393 | 359.167 | 50 |
| 701 | 33.83 | 255 | 288.833 | 0 | | 146 | 0 | | 393 | 359.167 | |
| 702 | 33.83 | 256 | 289.833 | 10 | | 146 | 0 | | 394 | 360.167 | |
| 703 | 33.83 | 256 | 289.833 | 0 | | 146 | 0 | | 394 | 360.167 | |
| 704 | 33.83 | 257 | 290.833 | 10 | | 146 | 0 | | 395 | 361.167 | |
| 705 | 33.83 | 257 | 290.833 | 0 | | 146 | 0 | | 395 | 361.167 | |
| 706 | 33.83 | 257 | 290.833 | 0 | | 146 | 0 | | 395 | 361.167 | |
| 707 | 33.83 | 258 | 291.833 | 10 | | 146 | 0 | | 396 | 362.167 | |
| 708 | 33.83 | 258 | 291.833 | 0 | | 146 | 0 | | 396 | 362.167 | |
| 709 | 33.83 | 259 | 292.833 | 10 | | 146 | 0 | | 397 | 363.167 | |
| 710 | 33.83 | 259 | 292.833 | 0 | 40 | 146 | 0 | 0 | 397 | 363.167 | 40 |
| 711 | 33.83 | 259 | 292.833 | 0 | | 146 | 0 | | 398 | 364.167 | |
| 712 | 33.83 | 260 | 293.833 | 10 | | 146 | 0 | | 398 | 364.167 | |
| 713 | 33.83 | 260 | 293.833 | 0 | | 146 | 0 | | 398 | 364.167 | |
| 714 | 33.83 | 261 | 294.833 | 10 | | 146 | 0 | | 399 | 365.167 | |
| 715 | 33.83 | 261 | 294.833 | 0 | | 146 | 0 | | 399 | 365.167 | |
| 716 | 33.83 | 261 | 294.833 | 0 | | 146 | 0 | | 400 | 366.167 | |
| 717 | 33.83 | 262 | 295.833 | 10 | | 146 | 0 | | 400 | 366.167 | |
| 718 | 33.83 | 262 | 295.833 | 0 | | 146 | 0 | | 401 | 367.167 | |
| 719 | 33.83 | 263 | 296.833 | 10 | | 146 | 0 | | 401 | 367.167 | |
| 720 | 33.83 | 263 | 296.833 | 0 | 40 | 146 | 0 | 0 | 401 | 367.167 | 40 |
| 721 | 33.83 | 264 | 297.833 | 10 | | 146 | 0 | | 402 | 368.167 | |
| 722 | 33.83 | 264 | 297.833 | 0 | | 146 | 0 | | 402 | 368.167 | |
| 723 | 33.83 | 264 | 297.833 | 0 | | 146 | 0 | | 403 | 369.167 | |
| 724 | 33.83 | 265 | 298.833 | 10 | | 146 | 0 | | 403 | 369.167 | |
| 725 | 33.83 | 265 | 298.833 | 0 | | 146 | 0 | | 404 | 370.167 | |
| 726 | 33.83 | 266 | 299.833 | 10 | | 146 | 0 | | 404 | 370.167 | |
| 727 | 33.83 | 266 | 299.833 | 0 | | 146 | 0 | | 405 | 371.167 | |
| 728 | 33.83 | 267 | 300.833 | 10 | | 146 | 0 | | 405 | 371.167 | |
| 729 | 33.83 | 267 | 300.833 | 0 | | 146 | 0 | | 406 | 372.167 | |
| 730 | 33.83 | 268 | 301.833 | 10 | 50 | 146 | 0 | 0 | 406 | 372.167 | 50 |
| 731 | 33.83 | 268 | 301.833 | 0 | | 146 | 0 | | 407 | 373.167 | |
| 732 | 33.83 | 268 | 301.833 | 0 | | 146 | 0 | | 407 | 373.167 | |
| 733 | 34.44 | 268 | 302.442 | 6.096 | | 146 | 0 | | 408 | 373.558 | |
| 734 | 34.54 | 268 | 302.544 | 1.016 | | 146 | 0 | | 408 | 373.456 | |
| 735 | 34.54 | 269 | 303.544 | 10 | | 146 | 0 | | 409 | 374.456 | |
| 736 | 34.54 | 269 | 303.544 | 0 | | 146 | 0 | | 409 | 374.456 | |
| 737 | 34.54 | 270 | 304.544 | 10 | | 146 | 0 | | 410 | 375.456 | |
| 738 | 34.54 | 271 | 305.544 | 10 | | 146 | 0 | | 410 | 375.456 | |
| 739 | 34.54 | 271 | 305.544 | 0 | | 146 | 0 | | 411 | 376.456 | |
| 740 | 34.54 | 272 | 306.544 | 10 | 47.112 | 146 | 0 | 0 | 411 | 376.456 | 47.112 |
| 741 | 34.54 | 273 | 307.544 | 10 | | 146 | 0 | | 412 | 377.456 | |
| 742 | 35.13 | 272 | 307.128 | -4.158 | | 146 | 0 | | 412 | 376.872 | |
| 743 | 35.15 | 273 | 308.154 | 10.254 | | 146 | 0 | | 413 | 377.846 | |
| 744 | 35.15 | 274 | 309.154 | 10 | | 146 | 0 | | 413 | 377.846 | |
| 745 | 35.15 | 274 | 309.154 | 0 | | 146 | 0 | | 414 | 378.846 | |
| 746 | 35.15 | 275 | 310.154 | 10 | | 146 | 0 | | 415 | 379.846 | |
| 747 | 35.15 | 276 | 311.154 | 10 | | 146 | 0 | | 415 | 379.846 | |
| 748 | 35.15 | 276 | 311.154 | 0 | | 146 | 0 | | 416 | 380.846 | |
| 749 | 35.15 | 277 | 312.154 | 10 | | 146 | 0 | | 416 | 380.846 | |
| 750 | 35.15 | 277 | 312.154 | 0 | 56.096 | 146 | 0 | 0 | 417 | 381.846 | 56.096 |
| 751 | 35.15 | 277 | 312.154 | 0 | | 146 | 0 | | 417 | 381.846 | |
| 752 | 35.15 | 278 | 313.154 | 10 | | 146 | 0 | | 418 | 382.846 | |
| 753 | 35.15 | 279 | 314.154 | 10 | | 146 | 0 | | 418 | 382.846 | |
| 754 | 35.15 | 279 | 314.154 | 0 | | 146 | 0 | | 419 | 383.846 | |
| 755 | 35.15 | 280 | 315.154 | 10 | | 146 | 0 | | 419 | 383.846 | |
| 756 | 35.15 | 280 | 315.154 | 0 | | 147 | 10 | | 420 | 384.846 | |
| 757 | 35.15 | 281 | 316.154 | 10 | | 147 | 0 | | 420 | 384.846 | |
| 758 | 35.15 | 281 | 316.154 | 0 | | 147 | 0 | | 420 | 384.846 | |
| 759 | 35.15 | 282 | 317.154 | 10 | | 147 | 0 | | 421 | 385.846 | |
| 760 | 35.15 | 282 | 317.154 | 0 | 50 | 147 | 0 | 10 | 421 | 385.846 | 60 |
| 761 | 35.15 | 283 | 318.154 | 10 | | 147 | 0 | | 422 | 386.846 | |
| 762 | 35.15 | 283 | 318.154 | 0 | | 147 | 0 | | 422 | 386.846 | |
| 763 | 35.15 | 283 | 318.154 | 0 | | 147 | 0 | | 423 | 387.846 | |
| 764 | 35.15 | 284 | 319.154 | 10 | | 147 | 0 | | 423 | 387.846 | |

| | | | | | | | | | | | |
|-----|-------|-----|---------|------|-------|-----|----|-----|---------|---------|-------|
| 765 | 35.15 | 284 | 319.154 | 0 | | 147 | 0 | 424 | 388.846 | C-66 | |
| 766 | 35.15 | 285 | 320.154 | 10 | | 147 | 0 | 424 | 388.846 | | |
| 767 | 35.15 | 285 | 320.154 | 0 | | 147 | 0 | 425 | 389.846 | | |
| 768 | 35.15 | 286 | 321.154 | 10 | | 148 | 10 | 425 | 389.846 | | |
| 769 | 35.15 | 286 | 321.154 | 0 | | 148 | 0 | 426 | 390.846 | | |
| 770 | 35.15 | 286 | 321.154 | 0 | 40 | 148 | 0 | 10 | 426 | 390.846 | 50 |
| 771 | 37.29 | 285 | 322.294 | 11.4 | | 148 | 0 | | 427 | 389.706 | |
| 772 | 37.29 | 286 | 323.294 | 10 | | 148 | 0 | | 427 | 389.706 | |
| 773 | 37.29 | 287 | 324.294 | 10 | | 148 | 0 | | 428 | 390.706 | |
| 774 | 37.29 | 287 | 324.294 | 0 | | 148 | 0 | | 428 | 390.706 | |
| 775 | 37.29 | 288 | 325.294 | 10 | | 148 | 0 | | 429 | 391.706 | |
| 776 | 37.29 | 288 | 325.294 | 0 | | 149 | 10 | | 429 | 391.706 | |
| 777 | 37.29 | 289 | 326.294 | 10 | | 149 | 0 | | 430 | 392.706 | |
| 778 | 37.29 | 289 | 326.294 | 0 | | 149 | 0 | | 430 | 392.706 | |
| 779 | 37.29 | 290 | 327.294 | 10 | | 149 | 0 | | 431 | 393.706 | |
| 780 | 37.29 | 290 | 327.294 | 0 | 61.4 | 149 | 0 | 10 | 431 | 393.706 | 71.4 |
| 781 | 37.29 | 290 | 327.294 | 0 | | 149 | 0 | | 432 | 394.706 | |
| 782 | 37.29 | 291 | 328.294 | 10 | | 149 | 0 | | 432 | 394.706 | |
| 783 | 37.29 | 291 | 328.294 | 0 | | 150 | 10 | | 433 | 395.706 | |
| 784 | 37.29 | 292 | 329.294 | 10 | | 150 | 0 | | 433 | 395.706 | |
| 785 | 40.69 | 289 | 329.694 | 4 | | 150 | 0 | | 434 | 393.306 | |
| 786 | 40.69 | 290 | 330.694 | 10 | | 150 | 0 | | 435 | 394.306 | |
| 787 | 40.69 | 291 | 331.694 | 10 | | 150 | 0 | | 435 | 394.306 | |
| 788 | 40.69 | 292 | 332.694 | 10 | | 150 | 0 | | 436 | 395.306 | |
| 789 | 40.69 | 293 | 333.694 | 10 | | 151 | 10 | | 436 | 395.306 | |
| 790 | 40.69 | 293 | 333.694 | 0 | 64 | 151 | 0 | 20 | 437 | 396.306 | 84 |
| 791 | 40.69 | 294 | 334.694 | 10 | | 151 | 0 | | 437 | 396.306 | |
| 792 | 40.69 | 294 | 334.694 | 0 | | 151 | 0 | | 438 | 397.306 | |
| 793 | 40.69 | 294 | 334.694 | 0 | | 151 | 0 | | 438 | 397.306 | |
| 794 | 45.69 | 290 | 335.694 | 10 | | 152 | 10 | | 439 | 393.306 | |
| 795 | 45.69 | 291 | 336.694 | 10 | | 152 | 0 | | 439 | 393.306 | |
| 796 | 45.69 | 293 | 338.694 | 20 | | 152 | 0 | | 440 | 394.306 | |
| 797 | 45.69 | 294 | 339.694 | 10 | | 152 | 0 | | 440 | 394.306 | |
| 798 | 45.69 | 294 | 339.694 | 0 | | 153 | 10 | | 441 | 395.306 | |
| 799 | 45.69 | 295 | 340.694 | 10 | | 153 | 0 | | 441 | 395.306 | |
| 800 | 48.03 | 293 | 341.034 | 3.4 | 73.4 | 153 | 0 | 20 | 442 | 393.966 | 93.4 |
| 801 | 48.03 | 294 | 342.034 | 10 | | 154 | 10 | | 442 | 393.966 | |
| 802 | 48.03 | 295 | 343.034 | 10 | | 154 | 0 | | 443 | 394.966 | |
| 803 | 48.03 | 296 | 344.034 | 10 | | 154 | 0 | | 443 | 394.966 | |
| 804 | 48.03 | 296 | 344.034 | 0 | | 155 | 10 | | 444 | 395.966 | |
| 805 | 48.03 | 297 | 345.034 | 10 | | 155 | 0 | | 444 | 395.966 | |
| 806 | 48.03 | 297 | 345.034 | 0 | | 156 | 10 | | 445 | 396.966 | |
| 807 | 48.03 | 298 | 346.034 | 10 | | 156 | 0 | | 446 | 397.966 | |
| 808 | 48.03 | 298 | 346.034 | 0 | | 156 | 0 | | 446 | 397.966 | |
| 809 | 48.03 | 298 | 346.034 | 0 | | 157 | 10 | | 447 | 398.966 | |
| 810 | 48.03 | 299 | 347.034 | 10 | 60 | 157 | 0 | 40 | 448 | 399.966 | 100 |
| 811 | 49.59 | 298 | 347.594 | 5.6 | | 158 | 10 | | 448 | 398.406 | |
| 812 | 49.59 | 299 | 348.594 | 10 | | 158 | 0 | | 449 | 399.406 | |
| 813 | 49.59 | 299 | 348.594 | 0 | | 159 | 10 | | 450 | 400.406 | |
| 814 | 49.59 | 300 | 349.594 | 10 | | 159 | 0 | | 450 | 400.406 | |
| 815 | 49.59 | 300 | 349.594 | 0 | | 160 | 10 | | 451 | 401.406 | |
| 816 | 49.59 | 300 | 349.594 | 0 | | 160 | 0 | | 452 | 402.406 | |
| 817 | 49.59 | 300 | 349.594 | 0 | | 160 | 0 | | 453 | 403.406 | |
| 818 | 49.59 | 301 | 350.594 | 10 | | 161 | 10 | | 453 | 403.406 | |
| 819 | 49.59 | 301 | 350.594 | 0 | | 161 | 0 | | 454 | 404.406 | |
| 820 | 49.59 | 301 | 350.594 | 0 | 35.6 | 162 | 10 | 50 | 455 | 405.406 | 85.6 |
| 821 | 49.59 | 301 | 350.594 | 0 | | 162 | 0 | | 456 | 406.406 | |
| 822 | 49.59 | 302 | 351.594 | 10 | | 163 | 10 | | 456 | 406.406 | |
| 823 | 49.59 | 302 | 351.594 | 0 | | 163 | 0 | | 457 | 407.406 | |
| 824 | 49.59 | 302 | 351.594 | 0 | | 164 | 10 | | 458 | 408.406 | |
| 825 | 52.39 | 300 | 352.394 | 8 | | 164 | 0 | | 458 | 405.606 | |
| 826 | 52.39 | 301 | 353.394 | 10 | | 164 | 0 | | 459 | 406.606 | |
| 827 | 52.39 | 302 | 354.394 | 10 | | 165 | 10 | | 460 | 407.606 | |
| 828 | 53.5 | 301 | 354.498 | 1.04 | | 165 | 0 | | 460 | 406.502 | |
| 829 | 53.5 | 302 | 355.498 | 10 | | 165 | 0 | | 461 | 407.502 | |
| 830 | 53.5 | 303 | 356.498 | 10 | 59.04 | 166 | 10 | 40 | 462 | 408.502 | 99.04 |
| 831 | 53.5 | 303 | 356.498 | 0 | | 166 | 0 | | 463 | 409.502 | |

| | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|-----|---------|---------|---------|
| 832 | 53.5 | 304 | 357.498 | 10 | | 167 | 10 | 463 | 409.502 | C-67 | |
| 833 | 53.5 | 304 | 357.498 | 0 | | 167 | 0 | 464 | 410.502 | | |
| 834 | 53.5 | 304 | 357.498 | 0 | | 168 | 10 | 465 | 411.502 | | |
| 835 | 53.5 | 305 | 358.498 | 10 | | 168 | 0 | 465 | 411.502 | | |
| 836 | 55.22 | 304 | 359.218 | 7.2 | | 169 | 10 | 466 | 410.782 | | |
| 837 | 55.22 | 305 | 360.218 | 10 | | 169 | 0 | 467 | 411.782 | | |
| 838 | 55.22 | 305 | 360.218 | 0 | | 170 | 10 | 468 | 412.782 | | |
| 839 | 55.22 | 306 | 361.218 | 10 | | 170 | 0 | 468 | 412.782 | | |
| 840 | 55.22 | 306 | 361.218 | 0 | 47.2 | 171 | 10 | 50 | 469 | 413.782 | 97.2 |
| 841 | 55.22 | 306 | 361.218 | 0 | | 171 | 0 | 470 | 414.782 | | |
| 842 | 55.24 | 307 | 362.243 | 10.254 | | 172 | 10 | 470 | 414.757 | | |
| 843 | 55.29 | 307 | 362.294 | 0.508 | | 172 | 0 | 471 | 415.706 | | |
| 844 | 55.34 | 307 | 362.345 | 0.508 | | 173 | 10 | 472 | 416.655 | | |
| 845 | 55.34 | 307 | 362.345 | 0 | | 173 | 0 | 472 | 416.655 | | |
| 846 | 58.34 | 305 | 363.345 | 10 | | 174 | 10 | 473 | 414.655 | | |
| 847 | 58.88 | 306 | 364.878 | 15.334 | | 174 | 0 | 474 | 415.122 | | |
| 848 | 58.88 | 306 | 364.878 | 0 | | 175 | 10 | 474 | 415.122 | | |
| 849 | 58.88 | 307 | 365.878 | 10 | | 175 | 0 | 475 | 416.122 | | |
| 850 | 58.88 | 307 | 365.878 | 0 | 46.604 | 176 | 10 | 50 | 476 | 417.122 | 96.604 |
| 851 | 58.88 | 308 | 366.878 | 10 | | 176 | 0 | 476 | 417.122 | | |
| 852 | 58.88 | 308 | 366.878 | 0 | | 177 | 10 | 477 | 418.122 | | |
| 853 | 58.88 | 309 | 367.878 | 10 | | 177 | 0 | 478 | 419.122 | | |
| 854 | 58.9 | 309 | 367.903 | 0.254 | | 177 | 0 | 479 | 420.097 | | |
| 855 | 58.93 | 309 | 367.929 | 0.254 | | 178 | 10 | 479 | 420.071 | | |
| 856 | 62.13 | 307 | 369.132 | 12.034 | | 178 | 0 | 480 | 417.868 | | |
| 857 | 62.79 | 307 | 369.793 | 6.604 | | 179 | 10 | 481 | 418.207 | | |
| 858 | 62.82 | 308 | 370.818 | 10.254 | | 179 | 0 | 481 | 418.182 | | |
| 859 | 63.12 | 308 | 371.123 | 3.048 | | 179 | 0 | 482 | 418.877 | | |
| 860 | 63.12 | 309 | 372.123 | 10 | 62.448 | 180 | 10 | 40 | 482 | 418.877 | 102.448 |
| 861 | 63.12 | 310 | 373.123 | 10 | | 180 | 0 | 483 | 419.877 | | |
| 862 | 63.12 | 310 | 373.123 | 0 | | 181 | 10 | 484 | 420.877 | | |
| 863 | 63.12 | 311 | 374.123 | 10 | | 181 | 0 | 484 | 420.877 | | |
| 864 | 63.12 | 311 | 374.123 | 0 | | 182 | 10 | 485 | 421.877 | | |
| 865 | 63.12 | 311 | 374.123 | 0 | | 182 | 0 | 486 | 422.877 | | |
| 866 | 65.63 | 310 | 375.631 | 15.08 | | 183 | 10 | 486 | 420.369 | | |
| 867 | 65.63 | 311 | 376.631 | 10 | | 183 | 0 | 487 | 421.369 | | |
| 868 | 65.63 | 311 | 376.631 | 0 | | 184 | 10 | 488 | 422.369 | | |
| 869 | 66.17 | 312 | 378.171 | 15.4 | | 184 | 0 | 488 | 421.829 | | |
| 870 | 66.17 | 312 | 378.171 | 0 | 60.48 | 185 | 10 | 50 | 489 | 422.829 | 110.48 |
| 871 | 66.17 | 312 | 378.171 | 0 | | 185 | 0 | 490 | 423.829 | | |
| 872 | 66.45 | 313 | 379.45 | 12.794 | | 186 | 10 | 490 | 423.55 | | |
| 873 | 66.53 | 313 | 379.526 | 0.762 | | 186 | 0 | 491 | 424.474 | | |
| 874 | 67.01 | 313 | 380.009 | 4.826 | | 186 | 0 | 492 | 424.991 | | |
| 875 | 68 | 313 | 381 | 9.906 | | 186 | 0 | 492 | 424 | | |
| 876 | 68 | 313 | 381 | 0 | | 187 | 10 | 493 | 425 | | |
| 877 | 69.09 | 313 | 382.092 | 10.922 | | 188 | 10 | 493 | 423.908 | | |
| 878 | 69.14 | 314 | 383.143 | 10.508 | | 188 | 0 | 494 | 424.857 | | |
| 879 | 71.45 | 312 | 383.447 | 3.048 | | 188 | 0 | 495 | 423.553 | | |
| 880 | 71.55 | 313 | 384.549 | 11.016 | 63.782 | 189 | 10 | 40 | 495 | 423.451 | 103.782 |
| 881 | 71.57 | 314 | 385.574 | 10.254 | | 189 | 0 | 496 | 424.426 | | |
| 882 | 71.57 | 314 | 385.574 | 0 | | 190 | 10 | 496 | 424.426 | | |
| 883 | 72.2 | 314 | 386.2 | 6.254 | | 190 | 0 | 497 | 424.8 | | |
| 884 | 72.2 | 315 | 387.2 | 10 | | 191 | 10 | 498 | 425.8 | | |
| 885 | 72.2 | 315 | 387.2 | 0 | | 192 | 10 | 498 | 425.8 | | |
| 886 | 72.2 | 315 | 387.2 | 0 | | 192 | 0 | 499 | 426.8 | | |
| 887 | 72.2 | 316 | 388.2 | 10 | | 193 | 10 | 499 | 426.8 | | |
| 888 | 72.78 | 316 | 388.784 | 5.842 | | 193 | 0 | 500 | 427.216 | | |
| 889 | 73.81 | 316 | 389.808 | 10.24 | | 194 | 10 | 500 | 426.192 | | |
| 890 | 73.81 | 316 | 389.808 | 0 | 52.59 | 194 | 0 | 50 | 501 | 427.192 | 102.59 |
| 891 | 73.81 | 316 | 389.808 | 0 | | 195 | 10 | 501 | 427.192 | | |
| 892 | 74.27 | 317 | 391.265 | 14.572 | | 196 | 10 | 502 | 427.735 | | |
| 893 | 74.27 | 317 | 391.265 | 0 | | 196 | 0 | 503 | 428.735 | | |
| 894 | 74.32 | 317 | 391.316 | 0.508 | | 197 | 10 | 504 | 429.684 | | |
| 895 | 74.32 | 317 | 391.316 | 0 | | 197 | 0 | 504 | 429.684 | | |
| 896 | 76.24 | 316 | 392.238 | 9.22 | | 198 | 10 | 505 | 428.762 | | |
| 897 | 77.19 | 316 | 393.189 | 9.508 | | 198 | 0 | 506 | 428.811 | | |
| 898 | 77.19 | 317 | 394.189 | 10 | | 199 | 10 | 506 | 428.811 | | |

| | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|----|-----|---------|--------|
| 899 | 77.19 | 317 | 394.189 | 0 | | 199 | 0 | | 507 | 429.811 | C-68 |
| 900 | 77.19 | 317 | 394.189 | 0 | 43.808 | 199 | 0 | 50 | 508 | 430.811 | 93.808 |
| 901 | 77.19 | 317 | 394.189 | 0 | | 200 | 10 | | 509 | 431.811 | |
| 902 | 77.19 | 318 | 395.189 | 10 | | 200 | 0 | | 509 | 431.811 | |
| 903 | 79.32 | 316 | 395.322 | 1.336 | | 200 | 0 | | 510 | 430.678 | |
| 904 | 79.32 | 317 | 396.322 | 10 | | 201 | 10 | | 511 | 431.678 | |
| 905 | 80.37 | 317 | 397.372 | 10.5 | | 202 | 10 | | 512 | 431.628 | |
| 906 | 80.37 | 317 | 397.372 | 0 | | 202 | 0 | | 512 | 431.628 | |
| 907 | 80.37 | 318 | 398.372 | 10 | | 202 | 0 | | 513 | 432.628 | |
| 908 | 80.37 | 318 | 398.372 | 0 | | 203 | 10 | | 514 | 433.628 | |
| 909 | 80.37 | 319 | 399.372 | 10 | | 203 | 0 | | 514 | 433.628 | |
| 910 | 80.37 | 319 | 399.372 | 0 | 51.836 | 203 | 0 | 40 | 515 | 434.628 | 91.836 |
| 911 | 80.37 | 319 | 399.372 | 0 | | 204 | 10 | | 516 | 435.628 | |
| 912 | 80.37 | 320 | 400.372 | 10 | | 204 | 0 | | 517 | 436.628 | |
| 913 | 81.66 | 319 | 400.656 | 2.84 | | 205 | 10 | | 518 | 436.344 | |
| 914 | 81.68 | 319 | 400.682 | 0.254 | | 205 | 0 | | 519 | 437.318 | |
| 915 | 81.71 | 320 | 401.707 | 10.254 | | 205 | 0 | | 519 | 437.293 | |
| 916 | 81.98 | 320 | 401.977 | 2.7 | | 206 | 10 | | 520 | 438.023 | |
| 917 | 82.26 | 320 | 402.257 | 2.794 | | 206 | 0 | | 521 | 438.743 | |
| 918 | 83.09 | 320 | 403.095 | 8.382 | | 206 | 0 | | 522 | 438.905 | |
| 919 | 83.12 | 321 | 404.12 | 10.254 | | 206 | 0 | | 523 | 439.88 | |
| 920 | 83.12 | 321 | 404.12 | 0 | 47.478 | 207 | 10 | 40 | 524 | 440.88 | 87.478 |
| 921 | 83.12 | 322 | 405.12 | 10 | | 207 | 0 | | 524 | 440.88 | |
| 922 | 83.12 | 323 | 406.12 | 10 | | 207 | 0 | | 525 | 441.88 | |
| 923 | 84.39 | 322 | 406.39 | 2.7 | | 208 | 10 | | 526 | 441.61 | |
| 924 | 84.64 | 322 | 406.644 | 2.54 | | 208 | 0 | | 527 | 442.356 | |
| 925 | 84.64 | 323 | 407.644 | 10 | | 208 | 0 | | 528 | 443.356 | |
| 926 | 84.64 | 324 | 408.644 | 10 | | 209 | 10 | | 528 | 443.356 | |
| 927 | 84.64 | 325 | 409.644 | 10 | | 209 | 0 | | 529 | 444.356 | |
| 928 | 84.64 | 326 | 410.644 | 10 | | 209 | 0 | | 530 | 445.356 | |
| 929 | 84.64 | 326 | 410.644 | 0 | | 210 | 10 | | 531 | 446.356 | |
| 930 | 84.64 | 327 | 411.644 | 10 | 75.24 | 210 | 0 | 30 | 532 | 447.356 | 105.24 |
| 931 | 84.64 | 328 | 412.644 | 10 | | 210 | 0 | | 532 | 447.356 | |
| 932 | 84.64 | 328 | 412.644 | 0 | | 211 | 10 | | 533 | 448.356 | |
| 933 | 84.64 | 329 | 413.644 | 10 | | 211 | 0 | | 534 | 449.356 | |
| 934 | 84.64 | 330 | 414.644 | 10 | | 211 | 0 | | 535 | 450.356 | |
| 935 | 84.64 | 330 | 414.644 | 0 | | 212 | 10 | | 536 | 451.356 | |
| 936 | 84.64 | 331 | 415.644 | 10 | | 212 | 0 | | 536 | 451.356 | |
| 937 | 84.64 | 331 | 415.644 | 0 | | 212 | 0 | | 537 | 452.356 | |
| 938 | 84.64 | 332 | 416.644 | 10 | | 213 | 10 | | 538 | 453.356 | |
| 939 | 84.64 | 332 | 416.644 | 0 | | 213 | 0 | | 539 | 454.356 | |
| 940 | 84.64 | 333 | 417.644 | 10 | 60 | 213 | 0 | 30 | 539 | 454.356 | 90 |
| 941 | 84.64 | 333 | 417.644 | 0 | | 213 | 0 | | 540 | 455.356 | |
| 942 | 84.64 | 334 | 418.644 | 10 | | 214 | 10 | | 541 | 456.356 | |
| 943 | 84.64 | 334 | 418.644 | 0 | | 214 | 0 | | 542 | 457.356 | |
| 944 | 84.64 | 335 | 419.644 | 10 | | 214 | 0 | | 543 | 458.356 | |
| 945 | 84.64 | 335 | 419.644 | 0 | | 214 | 0 | | 543 | 458.356 | |
| 946 | 84.82 | 336 | 420.822 | 11.778 | | 215 | 10 | | 544 | 459.178 | |
| 947 | 85.36 | 335 | 420.355 | -4.666 | | 215 | 0 | | 545 | 459.645 | |
| 948 | 85.36 | 336 | 421.355 | 10 | | 215 | 0 | | 546 | 460.645 | |
| 949 | 85.36 | 336 | 421.355 | 0 | | 215 | 0 | | 546 | 460.645 | |
| 950 | 85.36 | 337 | 422.355 | 10 | 47.112 | 216 | 10 | 30 | 547 | 461.645 | 77.112 |
| 951 | 85.36 | 337 | 422.355 | 0 | | 216 | 0 | | 548 | 462.645 | |
| 952 | 85.36 | 338 | 423.355 | 10 | | 216 | 0 | | 548 | 462.645 | |
| 953 | 85.36 | 338 | 423.355 | 0 | | 216 | 0 | | 549 | 463.645 | |
| 954 | 85.36 | 339 | 424.355 | 10 | | 216 | 0 | | 550 | 464.645 | |
| 955 | 85.36 | 340 | 425.355 | 10 | | 216 | 0 | | 550 | 464.645 | |
| 956 | 85.36 | 340 | 425.355 | 0 | | 216 | 0 | | 551 | 465.645 | |
| 957 | 85.36 | 341 | 426.355 | 10 | | 216 | 0 | | 552 | 466.645 | |
| 958 | 85.36 | 341 | 426.355 | 0 | | 217 | 10 | | 552 | 466.645 | |
| 959 | 85.36 | 342 | 427.355 | 10 | | 217 | 0 | | 553 | 467.645 | |
| 960 | 85.36 | 343 | 428.355 | 10 | 60 | 217 | 0 | 10 | 553 | 467.645 | 70 |
| 961 | 85.36 | 343 | 428.355 | 0 | | 217 | 0 | | 554 | 468.645 | |
| 962 | 85.36 | 344 | 429.355 | 10 | | 217 | 0 | | 555 | 469.645 | |
| 963 | 85.36 | 344 | 429.355 | 0 | | 217 | 0 | | 555 | 469.645 | |
| 964 | 85.36 | 345 | 430.355 | 10 | | 217 | 0 | | 556 | 470.645 | |
| 965 | 85.36 | 345 | 430.355 | 0 | | 217 | 0 | | 557 | 471.645 | |

| | | | | | | | | | | |
|------|-------|-----|---------|-------|--------|-----|----|-----|---------|--------|
| 966 | 85.36 | 346 | 431.355 | 10 | | 217 | 0 | 557 | 471.645 | C-69 |
| 967 | 85.36 | 347 | 432.355 | 10 | | 217 | 0 | 558 | 472.645 | |
| 968 | 85.36 | 347 | 432.355 | 0 | | 217 | 0 | 558 | 472.645 | |
| 969 | 85.36 | 348 | 433.355 | 10 | | 217 | 0 | 559 | 473.645 | |
| 970 | 85.36 | 348 | 433.355 | 0 | 50 | 218 | 10 | 560 | 474.645 | 60 |
| 971 | 85.36 | 349 | 434.355 | 10 | | 218 | 0 | 560 | 474.645 | |
| 972 | 85.36 | 349 | 434.355 | 0 | | 218 | 0 | 561 | 475.645 | |
| 973 | 85.36 | 350 | 435.355 | 10 | | 218 | 0 | 562 | 476.645 | |
| 974 | 85.36 | 351 | 436.355 | 10 | | 218 | 0 | 562 | 476.645 | |
| 975 | 85.36 | 351 | 436.355 | 0 | | 218 | 0 | 563 | 477.645 | |
| 976 | 85.36 | 352 | 437.355 | 10 | | 218 | 0 | 564 | 478.645 | |
| 977 | 85.36 | 352 | 437.355 | 0 | | 218 | 0 | 564 | 478.645 | |
| 978 | 85.36 | 353 | 438.355 | 10 | | 218 | 0 | 565 | 479.645 | |
| 979 | 85.36 | 353 | 438.355 | 0 | | 218 | 0 | 565 | 479.645 | |
| 980 | 85.36 | 354 | 439.355 | 10 | 60 | 218 | 0 | 566 | 480.645 | 60 |
| 981 | 85.36 | 354 | 439.355 | 0 | | 218 | 0 | 567 | 481.645 | |
| 982 | 85.36 | 355 | 440.355 | 10 | | 218 | 0 | 567 | 481.645 | |
| 983 | 85.36 | 355 | 440.355 | 0 | | 218 | 0 | 568 | 482.645 | |
| 984 | 85.36 | 355 | 440.355 | 0 | | 218 | 0 | 568 | 482.645 | |
| 985 | 85.36 | 356 | 441.355 | 10 | | 218 | 0 | 569 | 483.645 | |
| 986 | 85.36 | 356 | 441.355 | 0 | | 218 | 0 | 569 | 483.645 | |
| 987 | 85.36 | 357 | 442.355 | 10 | | 218 | 0 | 570 | 484.645 | |
| 988 | 85.36 | 357 | 442.355 | 0 | | 218 | 0 | 570 | 484.645 | |
| 989 | 85.36 | 358 | 443.355 | 10 | | 218 | 0 | 571 | 485.645 | |
| 990 | 85.36 | 358 | 443.355 | 0 | 40 | 218 | 0 | 572 | 486.645 | 40 |
| 991 | 85.36 | 358 | 443.355 | 0 | | 218 | 0 | 573 | 487.645 | |
| 992 | 85.36 | 359 | 444.355 | 10 | | 218 | 0 | 574 | 488.645 | |
| 993 | 85.36 | 359 | 444.355 | 0 | | 218 | 0 | 575 | 489.645 | |
| 994 | 85.36 | 360 | 445.355 | 10 | | 218 | 0 | 575 | 489.645 | |
| 995 | 85.41 | 360 | 445.406 | 0.508 | | 218 | 0 | 576 | 490.594 | |
| 996 | 85.41 | 360 | 445.406 | 0 | | 218 | 0 | 576 | 490.594 | |
| 997 | 85.41 | 360 | 445.406 | 0 | | 218 | 0 | 577 | 491.594 | |
| 998 | 85.41 | 361 | 446.406 | 10 | | 218 | 0 | 577 | 491.594 | |
| 999 | 85.66 | 361 | 446.66 | 2.54 | | 218 | 0 | 578 | 492.34 | |
| 1000 | 85.66 | 361 | 446.66 | 0 | 33.048 | 218 | 0 | 578 | 492.34 | 33.048 |
| 1001 | 85.66 | 361 | 446.66 | 0 | | 218 | 0 | 579 | 493.34 | |
| 1002 | 85.66 | 362 | 447.66 | 10 | | 218 | 0 | 579 | 493.34 | |
| 1003 | 85.66 | 362 | 447.66 | 0 | | 218 | 0 | 580 | 494.34 | |
| 1004 | 85.66 | 362 | 447.66 | 0 | | 218 | 0 | 580 | 494.34 | |
| 1005 | 85.66 | 363 | 448.66 | 10 | | 218 | 0 | 581 | 495.34 | |
| 1006 | 85.66 | 363 | 448.66 | 0 | | 218 | 0 | 581 | 495.34 | |
| 1007 | 85.66 | 364 | 449.66 | 10 | | 218 | 0 | 581 | 495.34 | |
| 1008 | 85.66 | 364 | 449.66 | 0 | | 218 | 0 | 582 | 496.34 | |
| 1009 | 85.66 | 364 | 449.66 | 0 | | 218 | 0 | 582 | 496.34 | |
| 1010 | 85.66 | 365 | 450.66 | 10 | 40 | 218 | 0 | 583 | 497.34 | 40 |
| 1011 | 85.66 | 365 | 450.66 | 0 | | 218 | 0 | 583 | 497.34 | |
| 1012 | 85.66 | 365 | 450.66 | 0 | | 218 | 0 | 583 | 497.34 | |
| 1013 | 85.66 | 365 | 450.66 | 0 | | 218 | 0 | 584 | 498.34 | |
| 1014 | 85.66 | 365 | 450.66 | 0 | | 218 | 0 | 584 | 498.34 | |
| 1015 | 85.66 | 365 | 450.66 | 0 | | 218 | 0 | 584 | 498.34 | |
| 1016 | 85.66 | 366 | 451.66 | 10 | | 218 | 0 | 585 | 499.34 | |
| 1017 | 85.86 | 366 | 451.863 | 2.032 | | 218 | 0 | 585 | 499.137 | |
| 1018 | 85.86 | 366 | 451.863 | 0 | | 218 | 0 | 585 | 499.137 | |
| 1019 | 85.86 | 366 | 451.863 | 0 | | 218 | 0 | 586 | 500.137 | |
| 1020 | 85.86 | 366 | 451.863 | 0 | 12.032 | 218 | 0 | 586 | 500.137 | 12.032 |
| 1021 | 85.86 | 366 | 451.863 | 0 | | 218 | 0 | 586 | 500.137 | |
| 1022 | 85.86 | 367 | 452.863 | 10 | | 218 | 0 | 586 | 500.137 | |

end

CSCMatP120-Daily Data

| Time [day] | CumP _c [cm] | sum(vTop [L]) | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc [L]) | Daily T [mm] | 10day T [mm/10d] | sum(vBot [L]) | Cumm Dis [cm] | 10day ET [mm/10d] |
|------------|------------------------|---------------|-------------|------------------|------------------|---------------|--------------|------------------|---------------|---------------|-------------------|
| 650 | 33.63 | 112 | 145.63 | 0 | 30 | 178 | 0 | 0 | 285 | 251.37 | 30 |
| 651 | 33.63 | 112 | 145.63 | 0 | | 178 | 0 | | 285 | 251.37 | |
| 652 | 33.83 | 112 | 145.833 | 2.032 | | 178 | 0 | | 285 | 251.167 | |
| 653 | 33.83 | 112 | 145.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 654 | 33.83 | 113 | 146.833 | 10 | | 178 | 0 | | 285 | 251.167 | |
| 655 | 33.83 | 113 | 146.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 656 | 33.83 | 113 | 146.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 657 | 33.83 | 113 | 146.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 658 | 33.83 | 114 | 147.833 | 10 | | 178 | 0 | | 285 | 251.167 | |
| 659 | 33.83 | 114 | 147.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 660 | 33.83 | 114 | 147.833 | 0 | 22.032 | 178 | 0 | 0 | 285 | 251.167 | 22.032 |
| 661 | 33.83 | 115 | 148.833 | 10 | | 178 | 0 | | 285 | 251.167 | |
| 662 | 33.83 | 115 | 148.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 663 | 33.83 | 115 | 148.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 664 | 33.83 | 116 | 149.833 | 10 | | 178 | 0 | | 285 | 251.167 | |
| 665 | 33.83 | 116 | 149.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 666 | 33.83 | 116 | 149.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 667 | 33.83 | 117 | 150.833 | 10 | | 178 | 0 | | 285 | 251.167 | |
| 668 | 33.83 | 117 | 150.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 669 | 33.83 | 118 | 151.833 | 10 | | 178 | 0 | | 285 | 251.167 | |
| 670 | 33.83 | 118 | 151.833 | 0 | 40 | 178 | 0 | 0 | 285 | 251.167 | 40 |
| 671 | 33.83 | 118 | 151.833 | 0 | | 178 | 0 | | 285 | 251.167 | |
| 672 | 33.83 | 119 | 152.833 | 10 | | 178 | 0 | | 286 | 252.167 | |
| 673 | 33.83 | 119 | 152.833 | 0 | | 178 | 0 | | 286 | 252.167 | |
| 674 | 33.83 | 119 | 152.833 | 0 | | 178 | 0 | | 286 | 252.167 | |
| 675 | 33.83 | 120 | 153.833 | 10 | | 178 | 0 | | 286 | 252.167 | |
| 676 | 33.83 | 120 | 153.833 | 0 | | 178 | 0 | | 286 | 252.167 | |
| 677 | 33.83 | 120 | 153.833 | 0 | | 178 | 0 | | 286 | 252.167 | |
| 678 | 33.83 | 120 | 153.833 | 0 | | 178 | 0 | | 286 | 252.167 | |
| 679 | 33.83 | 121 | 154.833 | 10 | | 178 | 0 | | 286 | 252.167 | |
| 680 | 33.83 | 121 | 154.833 | 0 | 30 | 178 | 0 | 0 | 287 | 253.167 | 30 |
| 681 | 33.83 | 121 | 154.833 | 0 | | 178 | 0 | | 287 | 253.167 | |
| 682 | 33.83 | 121 | 154.833 | 0 | | 178 | 0 | | 287 | 253.167 | |
| 683 | 33.83 | 122 | 155.833 | 10 | | 178 | 0 | | 287 | 253.167 | |
| 684 | 33.83 | 122 | 155.833 | 0 | | 178 | 0 | | 287 | 253.167 | |
| 685 | 33.83 | 122 | 155.833 | 0 | | 178 | 0 | | 288 | 254.167 | |
| 686 | 33.83 | 122 | 155.833 | 0 | | 178 | 0 | | 288 | 254.167 | |
| 687 | 33.83 | 122 | 155.833 | 0 | | 178 | 0 | | 288 | 254.167 | |
| 688 | 33.83 | 123 | 156.833 | 10 | | 178 | 0 | | 288 | 254.167 | |
| 689 | 33.83 | 123 | 156.833 | 0 | | 178 | 0 | | 288 | 254.167 | |
| 690 | 33.83 | 123 | 156.833 | 0 | 20 | 178 | 0 | 0 | 289 | 255.167 | 20 |
| 691 | 33.83 | 123 | 156.833 | 0 | | 178 | 0 | | 289 | 255.167 | |
| 692 | 33.83 | 123 | 156.833 | 0 | | 178 | 0 | | 289 | 255.167 | |
| 693 | 33.83 | 124 | 157.833 | 10 | | 178 | 0 | | 289 | 255.167 | |
| 694 | 33.83 | 124 | 157.833 | 0 | | 178 | 0 | | 289 | 255.167 | |
| 695 | 33.83 | 124 | 157.833 | 0 | | 178 | 0 | | 290 | 256.167 | |
| 696 | 33.83 | 124 | 157.833 | 0 | | 178 | 0 | | 290 | 256.167 | |
| 697 | 33.83 | 124 | 157.833 | 0 | | 178 | 0 | | 290 | 256.167 | |
| 698 | 33.83 | 125 | 158.833 | 10 | | 178 | 0 | | 290 | 256.167 | |
| 699 | 33.83 | 125 | 158.833 | 0 | | 178 | 0 | | 290 | 256.167 | |
| 700 | 33.83 | 125 | 158.833 | 0 | 20 | 178 | 0 | 0 | 290 | 256.167 | 20 |
| 701 | 33.83 | 125 | 158.833 | 0 | | 178 | 0 | | 291 | 257.167 | |
| 702 | 33.83 | 125 | 158.833 | 0 | | 178 | 0 | | 291 | 257.167 | |
| 703 | 33.83 | 126 | 159.833 | 10 | | 178 | 0 | | 291 | 257.167 | |
| 704 | 33.83 | 126 | 159.833 | 0 | | 178 | 0 | | 291 | 257.167 | |
| 705 | 33.83 | 126 | 159.833 | 0 | | 178 | 0 | | 291 | 257.167 | |
| 706 | 33.83 | 126 | 159.833 | 0 | | 178 | 0 | | 292 | 258.167 | |
| 707 | 33.83 | 126 | 159.833 | 0 | | 178 | 0 | | 292 | 258.167 | |
| 708 | 33.83 | 127 | 160.833 | 10 | | 178 | 0 | | 292 | 258.167 | |
| 709 | 33.83 | 127 | 160.833 | 0 | | 178 | 0 | | 292 | 258.167 | |
| 710 | 33.83 | 127 | 160.833 | 0 | 20 | 178 | 0 | 0 | 293 | 259.167 | 20 |
| 711 | 33.83 | 127 | 160.833 | 0 | | 178 | 0 | | 293 | 259.167 | |
| 712 | 33.83 | 127 | 160.833 | 0 | | 178 | 0 | | 293 | 259.167 | |
| 713 | 33.83 | 128 | 161.833 | 10 | | 178 | 0 | | 294 | 260.167 | |

| | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|-----|---------|---------|--------|
| 714 | 33.83 | 128 | 161.833 | 0 | | 178 | 0 | 294 | 260.167 | C-71 | |
| 715 | 33.83 | 128 | 161.833 | 0 | | 178 | 0 | 294 | 260.167 | | |
| 716 | 33.83 | 128 | 161.833 | 0 | | 178 | 0 | 294 | 260.167 | | |
| 717 | 33.83 | 128 | 161.833 | 0 | | 178 | 0 | 294 | 260.167 | | |
| 718 | 33.83 | 129 | 162.833 | 10 | | 178 | 0 | 295 | 261.167 | | |
| 719 | 33.83 | 129 | 162.833 | 0 | | 178 | 0 | 295 | 261.167 | | |
| 720 | 33.83 | 129 | 162.833 | 0 | 20 | 178 | 0 | 0 | 295 | 261.167 | 20 |
| 721 | 33.83 | 129 | 162.833 | 0 | | 178 | 0 | | 296 | 262.167 | |
| 722 | 33.83 | 129 | 162.833 | 0 | | 178 | 0 | | 296 | 262.167 | |
| 723 | 33.83 | 130 | 163.833 | 10 | | 178 | 0 | | 296 | 262.167 | |
| 724 | 33.83 | 130 | 163.833 | 0 | | 178 | 0 | | 296 | 262.167 | |
| 725 | 33.83 | 130 | 163.833 | 0 | | 178 | 0 | | 297 | 263.167 | |
| 726 | 33.83 | 130 | 163.833 | 0 | | 178 | 0 | | 297 | 263.167 | |
| 727 | 33.83 | 130 | 163.833 | 0 | | 178 | 0 | | 297 | 263.167 | |
| 728 | 33.83 | 131 | 164.833 | 10 | | 178 | 0 | | 298 | 264.167 | |
| 729 | 33.83 | 131 | 164.833 | 0 | | 178 | 0 | | 298 | 264.167 | |
| 730 | 33.83 | 131 | 164.833 | 0 | 20 | 178 | 0 | 0 | 298 | 264.167 | 20 |
| 731 | 33.83 | 131 | 164.833 | 0 | | 178 | 0 | | 299 | 265.167 | |
| 732 | 33.83 | 132 | 165.833 | 10 | | 178 | 0 | | 299 | 265.167 | |
| 733 | 34.44 | 131 | 165.442 | -3.904 | | 178 | 0 | | 299 | 264.558 | |
| 734 | 34.54 | 131 | 165.544 | 1.016 | | 178 | 0 | | 299 | 264.456 | |
| 735 | 34.54 | 132 | 166.544 | 10 | | 178 | 0 | | 300 | 265.456 | |
| 736 | 34.54 | 132 | 166.544 | 0 | | 178 | 0 | | 300 | 265.456 | |
| 737 | 34.54 | 133 | 167.544 | 10 | | 178 | 0 | | 300 | 265.456 | |
| 738 | 34.54 | 133 | 167.544 | 0 | | 178 | 0 | | 301 | 266.456 | |
| 739 | 34.54 | 133 | 167.544 | 0 | | 178 | 0 | | 301 | 266.456 | |
| 740 | 34.54 | 133 | 167.544 | 0 | 27.112 | 178 | 0 | 0 | 301 | 266.456 | 27.112 |
| 741 | 34.54 | 134 | 168.544 | 10 | | 178 | 0 | | 302 | 267.456 | |
| 742 | 35.13 | 134 | 169.128 | 5.842 | | 178 | 0 | | 302 | 266.872 | |
| 743 | 35.15 | 134 | 169.154 | 0.254 | | 178 | 0 | | 302 | 266.846 | |
| 744 | 35.15 | 134 | 169.154 | 0 | | 178 | 0 | | 303 | 267.846 | |
| 745 | 35.15 | 135 | 170.154 | 10 | | 178 | 0 | | 303 | 267.846 | |
| 746 | 35.15 | 135 | 170.154 | 0 | | 178 | 0 | | 303 | 267.846 | |
| 747 | 35.15 | 135 | 170.154 | 0 | | 178 | 0 | | 304 | 268.846 | |
| 748 | 35.15 | 136 | 171.154 | 10 | | 178 | 0 | | 304 | 268.846 | |
| 749 | 35.15 | 136 | 171.154 | 0 | | 178 | 0 | | 304 | 268.846 | |
| 750 | 35.15 | 136 | 171.154 | 0 | 36.096 | 178 | 0 | 0 | 305 | 269.846 | 36.096 |
| 751 | 35.15 | 137 | 172.154 | 10 | | 178 | 0 | | 305 | 269.846 | |
| 752 | 35.15 | 137 | 172.154 | 0 | | 178 | 0 | | 305 | 269.846 | |
| 753 | 35.15 | 137 | 172.154 | 0 | | 178 | 0 | | 305 | 269.846 | |
| 754 | 35.15 | 138 | 173.154 | 10 | | 178 | 0 | | 306 | 270.846 | |
| 755 | 35.15 | 138 | 173.154 | 0 | | 178 | 0 | | 306 | 270.846 | |
| 756 | 35.15 | 138 | 173.154 | 0 | | 179 | 10 | | 306 | 270.846 | |
| 757 | 35.15 | 138 | 173.154 | 0 | | 179 | 0 | | 307 | 271.846 | |
| 758 | 35.15 | 139 | 174.154 | 10 | | 179 | 0 | | 307 | 271.846 | |
| 759 | 35.15 | 139 | 174.154 | 0 | | 179 | 0 | | 307 | 271.846 | |
| 760 | 35.15 | 139 | 174.154 | 0 | 30 | 179 | 0 | 10 | 307 | 271.846 | 40 |
| 761 | 35.15 | 139 | 174.154 | 0 | | 179 | 0 | | 308 | 272.846 | |
| 762 | 35.15 | 140 | 175.154 | 10 | | 179 | 0 | | 308 | 272.846 | |
| 763 | 35.15 | 140 | 175.154 | 0 | | 179 | 0 | | 308 | 272.846 | |
| 764 | 35.15 | 140 | 175.154 | 0 | | 179 | 0 | | 309 | 273.846 | |
| 765 | 35.15 | 140 | 175.154 | 0 | | 179 | 0 | | 309 | 273.846 | |
| 766 | 35.15 | 141 | 176.154 | 10 | | 180 | 10 | | 309 | 273.846 | |
| 767 | 35.15 | 141 | 176.154 | 0 | | 180 | 0 | | 309 | 273.846 | |
| 768 | 35.15 | 141 | 176.154 | 0 | | 180 | 0 | | 310 | 274.846 | |
| 769 | 35.15 | 141 | 176.154 | 0 | | 180 | 0 | | 310 | 274.846 | |
| 770 | 35.15 | 142 | 177.154 | 10 | 30 | 180 | 0 | 10 | 310 | 274.846 | 40 |
| 771 | 37.29 | 140 | 177.294 | 1.4 | | 180 | 0 | | 311 | 273.706 | |
| 772 | 37.29 | 141 | 178.294 | 10 | | 180 | 0 | | 311 | 273.706 | |
| 773 | 37.29 | 141 | 178.294 | 0 | | 181 | 10 | | 311 | 273.706 | |
| 774 | 37.29 | 142 | 179.294 | 10 | | 181 | 0 | | 312 | 274.706 | |
| 775 | 37.29 | 142 | 179.294 | 0 | | 181 | 0 | | 312 | 274.706 | |
| 776 | 37.29 | 142 | 179.294 | 0 | | 181 | 0 | | 312 | 274.706 | |
| 777 | 37.29 | 142 | 179.294 | 0 | | 181 | 0 | | 313 | 275.706 | |
| 778 | 37.29 | 143 | 180.294 | 10 | | 181 | 0 | | 313 | 275.706 | |
| 779 | 37.29 | 143 | 180.294 | 0 | | 181 | 0 | | 313 | 275.706 | |
| 780 | 37.29 | 143 | 180.294 | 0 | 31.4 | 182 | 10 | 20 | 314 | 276.706 | 51.4 |

| | | | | | | | | | | | |
|-----|-------|-----|---------|-------|-------|-----|----|-----|---------|---------|-------|
| 781 | 37.29 | 143 | 180.294 | 0 | | 182 | 0 | 314 | 276.706 | C-72 | |
| 782 | 37.29 | 144 | 181.294 | 10 | | 182 | 0 | 314 | 276.706 | | |
| 783 | 37.29 | 144 | 181.294 | 0 | | 182 | 0 | 315 | 277.706 | | |
| 784 | 37.29 | 144 | 181.294 | 0 | | 182 | 0 | 315 | 277.706 | | |
| 785 | 40.69 | 142 | 182.694 | 14 | | 183 | 10 | 315 | 274.306 | | |
| 786 | 40.69 | 143 | 183.694 | 10 | | 183 | 0 | 316 | 275.306 | | |
| 787 | 40.69 | 143 | 183.694 | 0 | | 183 | 0 | 316 | 275.306 | | |
| 788 | 40.69 | 144 | 184.694 | 10 | | 183 | 0 | 316 | 275.306 | | |
| 789 | 40.69 | 144 | 184.694 | 0 | | 183 | 0 | 317 | 276.306 | | |
| 790 | 40.69 | 144 | 184.694 | 0 | 44 | 184 | 10 | 20 | 317 | 276.306 | 64 |
| 791 | 40.69 | 144 | 184.694 | 0 | | 184 | 0 | | 317 | 276.306 | |
| 792 | 40.69 | 145 | 185.694 | 10 | | 184 | 0 | | 318 | 277.306 | |
| 793 | 40.69 | 145 | 185.694 | 0 | | 185 | 10 | | 318 | 277.306 | |
| 794 | 45.69 | 141 | 186.694 | 10 | | 185 | 0 | | 318 | 272.306 | |
| 795 | 45.69 | 142 | 187.694 | 10 | | 185 | 0 | | 319 | 273.306 | |
| 796 | 45.69 | 143 | 188.694 | 10 | | 186 | 10 | | 319 | 273.306 | |
| 797 | 45.69 | 143 | 188.694 | 0 | | 186 | 0 | | 320 | 274.306 | |
| 798 | 45.69 | 144 | 189.694 | 10 | | 186 | 0 | | 320 | 274.306 | |
| 799 | 45.69 | 144 | 189.694 | 0 | | 187 | 10 | | 320 | 274.306 | |
| 800 | 48.03 | 142 | 190.034 | 3.4 | 53.4 | 187 | 0 | 30 | 321 | 272.966 | 83.4 |
| 801 | 48.03 | 143 | 191.034 | 10 | | 187 | 0 | | 321 | 272.966 | |
| 802 | 48.03 | 144 | 192.034 | 10 | | 188 | 10 | | 321 | 272.966 | |
| 803 | 48.03 | 144 | 192.034 | 0 | | 188 | 0 | | 322 | 273.966 | |
| 804 | 48.03 | 144 | 192.034 | 0 | | 189 | 10 | | 322 | 273.966 | |
| 805 | 48.03 | 145 | 193.034 | 10 | | 189 | 0 | | 323 | 274.966 | |
| 806 | 48.03 | 145 | 193.034 | 0 | | 190 | 10 | | 323 | 274.966 | |
| 807 | 48.03 | 145 | 193.034 | 0 | | 190 | 0 | | 324 | 275.966 | |
| 808 | 48.03 | 145 | 193.034 | 0 | | 191 | 10 | | 324 | 275.966 | |
| 809 | 48.03 | 145 | 193.034 | 0 | | 191 | 0 | | 325 | 276.966 | |
| 810 | 48.03 | 145 | 193.034 | 0 | 30 | 192 | 10 | 50 | 325 | 276.966 | 80 |
| 811 | 49.59 | 145 | 194.594 | 15.6 | | 193 | 10 | | 326 | 276.406 | |
| 812 | 49.59 | 145 | 194.594 | 0 | | 193 | 0 | | 326 | 276.406 | |
| 813 | 49.59 | 145 | 194.594 | 0 | | 194 | 10 | | 327 | 277.406 | |
| 814 | 49.59 | 146 | 195.594 | 10 | | 194 | 0 | | 327 | 277.406 | |
| 815 | 49.59 | 146 | 195.594 | 0 | | 195 | 10 | | 328 | 278.406 | |
| 816 | 49.59 | 146 | 195.594 | 0 | | 195 | 0 | | 328 | 278.406 | |
| 817 | 49.59 | 146 | 195.594 | 0 | | 196 | 10 | | 329 | 279.406 | |
| 818 | 49.59 | 146 | 195.594 | 0 | | 197 | 10 | | 330 | 280.406 | |
| 819 | 49.59 | 146 | 195.594 | 0 | | 197 | 0 | | 330 | 280.406 | |
| 820 | 49.59 | 146 | 195.594 | 0 | 25.6 | 198 | 10 | 60 | 331 | 281.406 | 85.6 |
| 821 | 49.59 | 146 | 195.594 | 0 | | 198 | 0 | | 331 | 281.406 | |
| 822 | 49.59 | 146 | 195.594 | 0 | | 199 | 10 | | 332 | 282.406 | |
| 823 | 49.59 | 146 | 195.594 | 0 | | 199 | 0 | | 332 | 282.406 | |
| 824 | 49.59 | 146 | 195.594 | 0 | | 200 | 10 | | 333 | 283.406 | |
| 825 | 52.39 | 144 | 196.394 | 8 | | 200 | 0 | | 333 | 280.606 | |
| 826 | 52.39 | 145 | 197.394 | 10 | | 201 | 10 | | 334 | 281.606 | |
| 827 | 52.39 | 145 | 197.394 | 0 | | 201 | 0 | | 335 | 282.606 | |
| 828 | 53.5 | 145 | 198.498 | 11.04 | | 202 | 10 | | 335 | 281.502 | |
| 829 | 53.5 | 145 | 198.498 | 0 | | 202 | 0 | | 336 | 282.502 | |
| 830 | 53.5 | 145 | 198.498 | 0 | 29.04 | 203 | 10 | 50 | 336 | 282.502 | 79.04 |
| 831 | 53.5 | 145 | 198.498 | 0 | | 204 | 10 | | 337 | 283.502 | |
| 832 | 53.5 | 145 | 198.498 | 0 | | 204 | 0 | | 337 | 283.502 | |
| 833 | 53.5 | 146 | 199.498 | 10 | | 205 | 10 | | 338 | 284.502 | |
| 834 | 53.5 | 146 | 199.498 | 0 | | 205 | 0 | | 339 | 285.502 | |
| 835 | 53.5 | 146 | 199.498 | 0 | | 206 | 10 | | 339 | 285.502 | |
| 836 | 55.22 | 145 | 200.218 | 7.2 | | 207 | 10 | | 340 | 284.782 | |
| 837 | 55.22 | 145 | 200.218 | 0 | | 207 | 0 | | 340 | 284.782 | |
| 838 | 55.22 | 146 | 201.218 | 10 | | 208 | 10 | | 341 | 285.782 | |
| 839 | 55.22 | 146 | 201.218 | 0 | | 209 | 10 | | 341 | 285.782 | |
| 840 | 55.22 | 146 | 201.218 | 0 | 27.2 | 209 | 0 | 60 | 342 | 286.782 | 87.2 |
| 841 | 55.22 | 146 | 201.218 | 0 | | 210 | 10 | | 342 | 286.782 | |
| 842 | 55.24 | 146 | 201.243 | 0.254 | | 211 | 10 | | 343 | 287.757 | |
| 843 | 55.29 | 146 | 201.294 | 0.508 | | 211 | 0 | | 343 | 287.706 | |
| 844 | 55.34 | 146 | 201.345 | 0.508 | | 212 | 10 | | 344 | 288.655 | |
| 845 | 55.34 | 146 | 201.345 | 0 | | 212 | 0 | | 344 | 288.655 | |
| 846 | 58.34 | 144 | 202.345 | 10 | | 213 | 10 | | 345 | 286.655 | |
| 847 | 58.88 | 144 | 202.878 | 5.334 | | 214 | 10 | | 346 | 287.122 | |

| | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|----|-----|---------|--------|
| 848 | 58.88 | 144 | 202.878 | 0 | | 214 | 0 | | 346 | 287.122 | C-73 |
| 849 | 58.88 | 145 | 203.878 | 10 | | 215 | 10 | | 347 | 288.122 | |
| 850 | 58.88 | 145 | 203.878 | 0 | 26.604 | 215 | 0 | 60 | 347 | 288.122 | 86.604 |
| 851 | 58.88 | 145 | 203.878 | 0 | | 216 | 10 | | 348 | 289.122 | |
| 852 | 58.88 | 145 | 203.878 | 0 | | 217 | 10 | | 348 | 289.122 | |
| 853 | 58.88 | 145 | 203.878 | 0 | | 217 | 0 | | 349 | 290.122 | |
| 854 | 58.9 | 145 | 203.903 | 0.254 | | 217 | 0 | | 350 | 291.097 | |
| 855 | 58.93 | 145 | 203.929 | 0.254 | | 218 | 10 | | 350 | 291.071 | |
| 856 | 62.13 | 143 | 205.132 | 12.034 | | 219 | 10 | | 351 | 288.868 | |
| 857 | 62.79 | 143 | 205.793 | 6.604 | | 219 | 0 | | 351 | 288.207 | |
| 858 | 62.82 | 144 | 206.818 | 10.254 | | 220 | 10 | | 352 | 289.182 | |
| 859 | 63.12 | 144 | 207.123 | 3.048 | | 220 | 0 | | 352 | 288.877 | |
| 860 | 63.12 | 144 | 207.123 | 0 | 32.448 | 221 | 10 | 60 | 353 | 289.877 | 92.448 |
| 861 | 63.12 | 144 | 207.123 | 0 | | 222 | 10 | | 353 | 289.877 | |
| 862 | 63.12 | 144 | 207.123 | 0 | | 222 | 0 | | 354 | 290.877 | |
| 863 | 63.12 | 144 | 207.123 | 0 | | 223 | 10 | | 354 | 290.877 | |
| 864 | 63.12 | 144 | 207.123 | 0 | | 223 | 0 | | 355 | 291.877 | |
| 865 | 63.12 | 144 | 207.123 | 0 | | 224 | 10 | | 355 | 291.877 | |
| 866 | 65.63 | 143 | 208.631 | 15.08 | | 225 | 10 | | 356 | 290.369 | |
| 867 | 65.63 | 143 | 208.631 | 0 | | 225 | 0 | | 356 | 290.369 | |
| 868 | 65.63 | 144 | 209.631 | 10 | | 226 | 10 | | 357 | 291.369 | |
| 869 | 66.17 | 144 | 210.171 | 5.4 | | 227 | 10 | | 357 | 290.829 | |
| 870 | 66.17 | 144 | 210.171 | 0 | 30.48 | 227 | 0 | 60 | 358 | 291.829 | 90.48 |
| 871 | 66.17 | 144 | 210.171 | 0 | | 228 | 10 | | 358 | 291.829 | |
| 872 | 66.45 | 144 | 210.45 | 2.794 | | 228 | 0 | | 359 | 292.55 | |
| 873 | 66.53 | 144 | 210.526 | 0.762 | | 228 | 0 | | 359 | 292.474 | |
| 874 | 67.01 | 144 | 211.009 | 4.826 | | 229 | 10 | | 360 | 292.991 | |
| 875 | 68 | 144 | 212 | 9.906 | | 229 | 0 | | 360 | 292 | |
| 876 | 68 | 144 | 212 | 0 | | 230 | 10 | | 361 | 293 | |
| 877 | 69.09 | 144 | 213.092 | 10.922 | | 231 | 10 | | 361 | 291.908 | |
| 878 | 69.14 | 144 | 213.143 | 0.508 | | 231 | 0 | | 362 | 292.857 | |
| 879 | 71.45 | 142 | 213.447 | 3.048 | | 232 | 10 | | 362 | 290.553 | |
| 880 | 71.55 | 143 | 214.549 | 11.016 | 43.782 | 232 | 0 | 50 | 363 | 291.451 | 93.782 |
| 881 | 71.57 | 143 | 214.574 | 0.254 | | 233 | 10 | | 363 | 291.426 | |
| 882 | 71.57 | 143 | 214.574 | 0 | | 234 | 10 | | 364 | 292.426 | |
| 883 | 72.2 | 143 | 215.2 | 6.254 | | 234 | 0 | | 364 | 291.8 | |
| 884 | 72.2 | 144 | 216.2 | 10 | | 235 | 10 | | 365 | 292.8 | |
| 885 | 72.2 | 144 | 216.2 | 0 | | 236 | 10 | | 365 | 292.8 | |
| 886 | 72.2 | 144 | 216.2 | 0 | | 236 | 0 | | 365 | 292.8 | |
| 887 | 72.2 | 144 | 216.2 | 0 | | 237 | 10 | | 366 | 293.8 | |
| 888 | 72.78 | 144 | 216.784 | 5.842 | | 238 | 10 | | 366 | 293.216 | |
| 889 | 73.81 | 144 | 217.808 | 10.24 | | 238 | 0 | | 366 | 292.192 | |
| 890 | 73.81 | 144 | 217.808 | 0 | 32.59 | 239 | 10 | 70 | 367 | 293.192 | 102.59 |
| 891 | 73.81 | 144 | 217.808 | 0 | | 240 | 10 | | 367 | 293.192 | |
| 892 | 74.27 | 144 | 218.265 | 4.572 | | 241 | 10 | | 368 | 293.735 | |
| 893 | 74.27 | 144 | 218.265 | 0 | | 241 | 0 | | 369 | 294.735 | |
| 894 | 74.32 | 144 | 218.316 | 0.508 | | 242 | 10 | | 369 | 294.684 | |
| 895 | 74.32 | 144 | 218.316 | 0 | | 242 | 0 | | 370 | 295.684 | |
| 896 | 76.24 | 143 | 219.238 | 9.22 | | 243 | 10 | | 371 | 294.762 | |
| 897 | 77.19 | 143 | 220.189 | 9.508 | | 244 | 10 | | 371 | 293.811 | |
| 898 | 77.19 | 143 | 220.189 | 0 | | 244 | 0 | | 372 | 294.811 | |
| 899 | 77.19 | 143 | 220.189 | 0 | | 245 | 10 | | 372 | 294.811 | |
| 900 | 77.19 | 143 | 220.189 | 0 | 23.808 | 246 | 10 | 70 | 373 | 295.811 | 93.808 |
| 901 | 77.19 | 143 | 220.189 | 0 | | 246 | 0 | | 374 | 296.811 | |
| 902 | 77.19 | 143 | 220.189 | 0 | | 247 | 10 | | 374 | 296.811 | |
| 903 | 79.32 | 141 | 220.322 | 1.336 | | 247 | 0 | | 375 | 295.678 | |
| 904 | 79.32 | 142 | 221.322 | 10 | | 248 | 10 | | 375 | 295.678 | |
| 905 | 80.37 | 142 | 222.372 | 10.5 | | 248 | 0 | | 376 | 295.628 | |
| 906 | 80.37 | 142 | 222.372 | 0 | | 249 | 10 | | 377 | 296.628 | |
| 907 | 80.37 | 142 | 222.372 | 0 | | 249 | 0 | | 377 | 296.628 | |
| 908 | 80.37 | 142 | 222.372 | 0 | | 250 | 10 | | 378 | 297.628 | |
| 909 | 80.37 | 142 | 222.372 | 0 | | 250 | 0 | | 378 | 297.628 | |
| 910 | 80.37 | 142 | 222.372 | 0 | 21.836 | 251 | 10 | 50 | 379 | 298.628 | 71.836 |
| 911 | 80.37 | 142 | 222.372 | 0 | | 251 | 0 | | 380 | 299.628 | |
| 912 | 80.37 | 142 | 222.372 | 0 | | 252 | 10 | | 380 | 299.628 | |
| 913 | 81.66 | 141 | 222.656 | 2.84 | | 252 | 0 | | 381 | 299.344 | |
| 914 | 81.68 | 142 | 223.682 | 10.254 | | 253 | 10 | | 382 | 300.318 | |

| | | | | | | | | | | | | |
|-----|-------|-----|---------|--------|--------|-----|----|----|-----|---------|--------|------|
| 915 | 81.71 | 142 | 223.707 | 0.254 | | 253 | 0 | | 382 | 300.293 | | C-74 |
| 916 | 81.98 | 142 | 223.977 | 2.7 | | 253 | 0 | | 383 | 301.023 | | |
| 917 | 82.26 | 142 | 224.257 | 2.794 | | 254 | 10 | | 384 | 301.743 | | |
| 918 | 83.09 | 142 | 225.095 | 8.382 | | 254 | 0 | | 385 | 301.905 | | |
| 919 | 83.12 | 142 | 225.12 | 0.254 | | 254 | 0 | | 386 | 302.88 | | |
| 920 | 83.12 | 142 | 225.12 | 0 | 27.478 | 255 | 10 | 40 | 387 | 303.88 | 67.478 | |
| 921 | 83.12 | 142 | 225.12 | 0 | | 255 | 0 | | 388 | 304.88 | | |
| 922 | 83.12 | 142 | 225.12 | 0 | | 255 | 0 | | 389 | 305.88 | | |
| 923 | 84.39 | 141 | 225.39 | 2.7 | | 256 | 10 | | 390 | 305.61 | | |
| 924 | 84.64 | 142 | 226.644 | 12.54 | | 256 | 0 | | 390 | 305.356 | | |
| 925 | 84.64 | 142 | 226.644 | 0 | | 256 | 0 | | 391 | 306.356 | | |
| 926 | 84.64 | 143 | 227.644 | 10 | | 257 | 10 | | 392 | 307.356 | | |
| 927 | 84.64 | 143 | 227.644 | 0 | | 257 | 0 | | 393 | 308.356 | | |
| 928 | 84.64 | 143 | 227.644 | 0 | | 258 | 10 | | 394 | 309.356 | | |
| 929 | 84.64 | 144 | 228.644 | 10 | | 258 | 0 | | 395 | 310.356 | | |
| 930 | 84.64 | 144 | 228.644 | 0 | 35.24 | 258 | 0 | 30 | 396 | 311.356 | 65.24 | |
| 931 | 84.64 | 145 | 229.644 | 10 | | 258 | 0 | | 396 | 311.356 | | |
| 932 | 84.64 | 145 | 229.644 | 0 | | 259 | 10 | | 397 | 312.356 | | |
| 933 | 84.64 | 146 | 230.644 | 10 | | 259 | 0 | | 397 | 312.356 | | |
| 934 | 84.64 | 146 | 230.644 | 0 | | 260 | 10 | | 398 | 313.356 | | |
| 935 | 84.64 | 146 | 230.644 | 0 | | 260 | 0 | | 398 | 313.356 | | |
| 936 | 84.64 | 147 | 231.644 | 10 | | 260 | 0 | | 399 | 314.356 | | |
| 937 | 84.64 | 147 | 231.644 | 0 | | 261 | 10 | | 399 | 314.356 | | |
| 938 | 84.64 | 147 | 231.644 | 0 | | 261 | 0 | | 400 | 315.356 | | |
| 939 | 84.64 | 148 | 232.644 | 10 | | 261 | 0 | | 400 | 315.356 | | |
| 940 | 84.64 | 148 | 232.644 | 0 | 40 | 262 | 10 | 40 | 401 | 316.356 | 80 | |
| 941 | 84.64 | 148 | 232.644 | 0 | | 262 | 0 | | 402 | 317.356 | | |
| 942 | 84.64 | 149 | 233.644 | 10 | | 262 | 0 | | 402 | 317.356 | | |
| 943 | 84.64 | 149 | 233.644 | 0 | | 263 | 10 | | 403 | 318.356 | | |
| 944 | 84.64 | 149 | 233.644 | 0 | | 263 | 0 | | 403 | 318.356 | | |
| 945 | 84.64 | 150 | 234.644 | 10 | | 263 | 0 | | 404 | 319.356 | | |
| 946 | 84.82 | 150 | 234.822 | 1.778 | | 263 | 0 | | 405 | 320.178 | | |
| 947 | 85.36 | 149 | 234.355 | -4.666 | | 264 | 10 | | 405 | 319.645 | | |
| 948 | 85.36 | 150 | 235.355 | 10 | | 264 | 0 | | 406 | 320.645 | | |
| 949 | 85.36 | 150 | 235.355 | 0 | | 264 | 0 | | 406 | 320.645 | | |
| 950 | 85.36 | 151 | 236.355 | 10 | 37.112 | 265 | 10 | 30 | 407 | 321.645 | 67.112 | |
| 951 | 85.36 | 151 | 236.355 | 0 | | 265 | 0 | | 407 | 321.645 | | |
| 952 | 85.36 | 151 | 236.355 | 0 | | 265 | 0 | | 408 | 322.645 | | |
| 953 | 85.36 | 152 | 237.355 | 10 | | 265 | 0 | | 408 | 322.645 | | |
| 954 | 85.36 | 152 | 237.355 | 0 | | 265 | 0 | | 408 | 322.645 | | |
| 955 | 85.36 | 152 | 237.355 | 0 | | 266 | 10 | | 409 | 323.645 | | |
| 956 | 85.36 | 153 | 238.355 | 10 | | 266 | 0 | | 409 | 323.645 | | |
| 957 | 85.36 | 153 | 238.355 | 0 | | 266 | 0 | | 410 | 324.645 | | |
| 958 | 85.36 | 153 | 238.355 | 0 | | 266 | 0 | | 410 | 324.645 | | |
| 959 | 85.36 | 154 | 239.355 | 10 | | 266 | 0 | | 410 | 324.645 | | |
| 960 | 85.36 | 154 | 239.355 | 0 | 30 | 266 | 0 | 10 | 411 | 325.645 | 40 | |
| 961 | 85.36 | 154 | 239.355 | 0 | | 266 | 0 | | 411 | 325.645 | | |
| 962 | 85.36 | 154 | 239.355 | 0 | | 266 | 0 | | 412 | 326.645 | | |
| 963 | 85.36 | 155 | 240.355 | 10 | | 267 | 10 | | 412 | 326.645 | | |
| 964 | 85.36 | 155 | 240.355 | 0 | | 267 | 0 | | 413 | 327.645 | | |
| 965 | 85.36 | 155 | 240.355 | 0 | | 267 | 0 | | 413 | 327.645 | | |
| 966 | 85.36 | 156 | 241.355 | 10 | | 267 | 0 | | 413 | 327.645 | | |
| 967 | 85.36 | 156 | 241.355 | 0 | | 267 | 0 | | 414 | 328.645 | | |
| 968 | 85.36 | 156 | 241.355 | 0 | | 267 | 0 | | 414 | 328.645 | | |
| 969 | 85.36 | 157 | 242.355 | 10 | | 267 | 0 | | 415 | 329.645 | | |
| 970 | 85.36 | 157 | 242.355 | 0 | 30 | 267 | 0 | 10 | 415 | 329.645 | 40 | |
| 971 | 85.36 | 157 | 242.355 | 0 | | 267 | 0 | | 415 | 329.645 | | |
| 972 | 85.36 | 158 | 243.355 | 10 | | 267 | 0 | | 416 | 330.645 | | |
| 973 | 85.36 | 158 | 243.355 | 0 | | 268 | 10 | | 416 | 330.645 | | |
| 974 | 85.36 | 158 | 243.355 | 0 | | 268 | 0 | | 417 | 331.645 | | |
| 975 | 85.36 | 159 | 244.355 | 10 | | 268 | 0 | | 417 | 331.645 | | |
| 976 | 85.36 | 159 | 244.355 | 0 | | 268 | 0 | | 418 | 332.645 | | |
| 977 | 85.36 | 159 | 244.355 | 0 | | 268 | 0 | | 418 | 332.645 | | |
| 978 | 85.36 | 160 | 245.355 | 10 | | 268 | 0 | | 419 | 333.645 | | |
| 979 | 85.36 | 160 | 245.355 | 0 | | 268 | 0 | | 419 | 333.645 | | |
| 980 | 85.36 | 160 | 245.355 | 0 | 30 | 268 | 0 | 10 | 419 | 333.645 | 40 | |
| 981 | 85.36 | 161 | 246.355 | 10 | | 268 | 0 | | 420 | 334.645 | | |

| | | | | | | | | | | |
|------|-------|-----|---------|-------|--------|-----|---|-----|---------|--------|
| 982 | 85.36 | 161 | 246.355 | 0 | | 268 | 0 | 420 | 334.645 | C-75 |
| 983 | 85.36 | 161 | 246.355 | 0 | | 268 | 0 | 420 | 334.645 | |
| 984 | 85.36 | 162 | 247.355 | 10 | | 268 | 0 | 421 | 335.645 | |
| 985 | 85.36 | 162 | 247.355 | 0 | | 268 | 0 | 421 | 335.645 | |
| 986 | 85.36 | 162 | 247.355 | 0 | | 268 | 0 | 421 | 335.645 | |
| 987 | 85.36 | 163 | 248.355 | 10 | | 268 | 0 | 422 | 336.645 | |
| 988 | 85.36 | 163 | 248.355 | 0 | | 268 | 0 | 422 | 336.645 | |
| 989 | 85.36 | 163 | 248.355 | 0 | | 268 | 0 | 423 | 337.645 | |
| 990 | 85.36 | 164 | 249.355 | 10 | 40 | 268 | 0 | 424 | 338.645 | 40 |
| 991 | 85.36 | 164 | 249.355 | 0 | | 268 | 0 | 425 | 339.645 | |
| 992 | 85.36 | 164 | 249.355 | 0 | | 268 | 0 | 425 | 339.645 | |
| 993 | 85.36 | 165 | 250.355 | 10 | | 268 | 0 | 426 | 340.645 | |
| 994 | 85.36 | 165 | 250.355 | 0 | | 268 | 0 | 426 | 340.645 | |
| 995 | 85.41 | 165 | 250.406 | 0.508 | | 268 | 0 | 427 | 341.594 | |
| 996 | 85.41 | 166 | 251.406 | 10 | | 268 | 0 | 427 | 341.594 | |
| 997 | 85.41 | 166 | 251.406 | 0 | | 268 | 0 | 427 | 341.594 | |
| 998 | 85.41 | 166 | 251.406 | 0 | | 268 | 0 | 428 | 342.594 | |
| 999 | 85.66 | 166 | 251.66 | 2.54 | | 268 | 0 | 428 | 342.34 | |
| 1000 | 85.66 | 167 | 252.66 | 10 | 33.048 | 268 | 0 | 429 | 343.34 | 33.048 |
| 1001 | 85.66 | 167 | 252.66 | 0 | | 268 | 0 | 429 | 343.34 | |
| 1002 | 85.66 | 167 | 252.66 | 0 | | 268 | 0 | 429 | 343.34 | |
| 1003 | 85.66 | 168 | 253.66 | 10 | | 268 | 0 | 430 | 344.34 | |
| 1004 | 85.66 | 168 | 253.66 | 0 | | 268 | 0 | 430 | 344.34 | |
| 1005 | 85.66 | 168 | 253.66 | 0 | | 268 | 0 | 430 | 344.34 | |
| 1006 | 85.66 | 169 | 254.66 | 10 | | 268 | 0 | 431 | 345.34 | |
| 1007 | 85.66 | 169 | 254.66 | 0 | | 268 | 0 | 431 | 345.34 | |
| 1008 | 85.66 | 169 | 254.66 | 0 | | 268 | 0 | 431 | 345.34 | |
| 1009 | 85.66 | 170 | 255.66 | 10 | | 268 | 0 | 432 | 346.34 | |
| 1010 | 85.66 | 170 | 255.66 | 0 | 30 | 268 | 0 | 432 | 346.34 | 30 |
| 1011 | 85.66 | 170 | 255.66 | 0 | | 268 | 0 | 432 | 346.34 | |
| 1012 | 85.66 | 170 | 255.66 | 0 | | 268 | 0 | 433 | 347.34 | |
| 1013 | 85.66 | 170 | 255.66 | 0 | | 268 | 0 | 433 | 347.34 | |
| 1014 | 85.66 | 171 | 256.66 | 10 | | 268 | 0 | 434 | 348.34 | |
| 1015 | 85.66 | 171 | 256.66 | 0 | | 268 | 0 | 434 | 348.34 | |
| 1016 | 85.66 | 171 | 256.66 | 0 | | 268 | 0 | 434 | 348.34 | |
| 1017 | 85.86 | 171 | 256.863 | 2.032 | | 268 | 0 | 435 | 349.137 | |
| 1018 | 85.86 | 171 | 256.863 | 0 | | 268 | 0 | 435 | 349.137 | |
| 1019 | 85.86 | 171 | 256.863 | 0 | | 268 | 0 | 435 | 349.137 | |
| 1020 | 85.86 | 172 | 257.863 | 10 | 22.032 | 268 | 0 | 436 | 350.137 | 22.032 |
| 1021 | 85.86 | 172 | 257.863 | 0 | | 268 | 0 | 436 | 350.137 | |
| 1022 | 85.86 | 172 | 257.863 | 0 | | 268 | 0 | 436 | 350.137 | |

end

CSCMatM283-Daily Data

| Time [day] | CumP1 [cm] | sum(vTop [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc [L] | Daily T [mm] | 10day T [mm/10d] | sum(vBot [L] | Cumm Dk [cm] | 10day ET [mm/10d] |
|------------|------------|--------------|-------------|------------------|------------------|--------------|--------------|------------------|--------------|--------------|-------------------|
| 650 | 33.63 | -0.145 | 33.4846 | 0 | 0 | 40.1 | 0 | 0 | -141 | -174.63 | 0 |
| 651 | 33.63 | -0.145 | 33.4846 | 0 | | 40.1 | 0 | | -141 | -174.63 | |
| 652 | 33.83 | -0.292 | 33.4846 | 0 | | 40.1 | 0 | | -142 | -174.63 | |
| 653 | 33.83 | -0.235 | 33.5408 | 0.562 | | 40.1 | 0 | | -143 | -175.833 | |
| 654 | 33.83 | -0.226 | 33.5978 | 0.57 | | 40.1 | 0 | | -144 | -176.833 | |
| 655 | 33.83 | -0.221 | 33.6068 | 0.09 | | 40.1 | 0 | | -144 | -177.833 | |
| 656 | 33.83 | -0.218 | 33.6118 | 0.05 | | 40.1 | 0 | | -145 | -177.833 | |
| 657 | 33.83 | -0.216 | 33.6148 | 0.03 | | 40.1 | 0 | | -146 | -178.833 | |
| 658 | 33.83 | -0.214 | 33.6168 | 0.02 | | 40.1 | 0 | | -147 | -179.833 | |
| 659 | 33.83 | -0.212 | 33.6188 | 0.02 | | 40.1 | 0 | | -147 | -180.833 | |
| 660 | 33.83 | -0.211 | 33.6208 | 0.02 | 1.362 | 40.1 | 0 | 0 | -147 | -180.833 | 1.362 |
| 661 | 33.83 | -0.21 | 33.6218 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 662 | 33.83 | -0.209 | 33.6228 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 663 | 33.83 | -0.208 | 33.6238 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 664 | 33.83 | -0.207 | 33.6248 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 665 | 33.83 | -0.206 | 33.6258 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |

| | | | | | | | | | | | |
|-----|-------|--------|---------|------|------|------|---|---|------|----------|------|
| 666 | 33.83 | -0.205 | 33.6268 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | C-76 |
| 667 | 33.83 | -0.205 | 33.6278 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 668 | 33.83 | -0.204 | 33.6278 | 0 | | 40.1 | 0 | | -147 | -180.833 | |
| 669 | 33.83 | -0.203 | 33.6288 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 670 | 33.83 | -0.203 | 33.6298 | 0.01 | 0.09 | 40.1 | 0 | 0 | -147 | -180.833 | 0.09 |
| 671 | 33.83 | -0.203 | 33.6298 | 0 | | 40.1 | 0 | | -147 | -180.833 | |
| 672 | 33.83 | -0.202 | 33.6298 | 0 | | 40.1 | 0 | | -146 | -180.833 | |
| 673 | 33.83 | -0.202 | 33.6308 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 674 | 33.83 | -0.201 | 33.6308 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 675 | 33.83 | -0.201 | 33.6318 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 676 | 33.83 | -0.2 | 33.6318 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 677 | 33.83 | -0.2 | 33.6328 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 678 | 33.83 | -0.2 | 33.6328 | 0 | | 40.1 | 0 | | -145 | -179.833 | |
| 679 | 33.83 | -0.199 | 33.6328 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 680 | 33.83 | -0.199 | 33.6338 | 0.01 | 0.04 | 40.1 | 0 | 0 | -145 | -178.833 | 0.04 |
| 681 | 33.83 | -0.199 | 33.6338 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 682 | 33.83 | -0.199 | 33.6338 | 0 | | 40.1 | 0 | | -146 | -178.833 | |
| 683 | 33.83 | -0.198 | 33.6338 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 684 | 33.83 | -0.198 | 33.6348 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 685 | 33.83 | -0.198 | 33.6348 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 686 | 33.83 | -0.198 | 33.6348 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 687 | 33.83 | -0.197 | 33.6348 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 688 | 33.83 | -0.197 | 33.6358 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 689 | 33.83 | -0.197 | 33.6358 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 690 | 33.83 | -0.197 | 33.6358 | 0 | 0.02 | 40.1 | 0 | 0 | -145 | -179.833 | 0.02 |
| 691 | 33.83 | -0.196 | 33.6358 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 692 | 33.83 | -0.196 | 33.6368 | 0.01 | | 40.1 | 0 | | -145 | -178.833 | |
| 693 | 33.83 | -0.196 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -178.833 | |
| 694 | 33.83 | -0.196 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 695 | 33.83 | -0.196 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 696 | 33.83 | -0.195 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 697 | 33.83 | -0.195 | 33.6378 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 698 | 33.83 | -0.195 | 33.6378 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 699 | 33.83 | -0.195 | 33.6378 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 700 | 33.83 | -0.195 | 33.6378 | 0 | 0.02 | 40.1 | 0 | 0 | -146 | -179.833 | 0.02 |
| 701 | 33.83 | -0.195 | 33.6378 | 0 | | 40.1 | 0 | | -145 | -179.833 | |
| 702 | 33.83 | -0.194 | 33.6378 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 703 | 33.83 | -0.194 | 33.6388 | 0.01 | | 40.1 | 0 | | -145 | -178.833 | |
| 704 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 705 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 706 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 707 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 708 | 33.83 | -0.193 | 33.6388 | 0 | | 40.1 | 0 | | -144 | -178.833 | |
| 709 | 33.83 | -0.193 | 33.6398 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 710 | 33.83 | -0.193 | 33.6398 | 0 | 0.02 | 40.1 | 0 | 0 | -144 | -177.833 | 0.02 |
| 711 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 712 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 713 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 714 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 715 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 716 | 33.83 | -0.192 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 717 | 33.83 | -0.192 | 33.6408 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 718 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 719 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 720 | 33.83 | -0.192 | 33.6408 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 721 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 722 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 723 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 724 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 725 | 33.83 | -0.191 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 726 | 33.83 | -0.191 | 33.6418 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 727 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 728 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 729 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 730 | 33.83 | -0.191 | 33.6418 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 731 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 732 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |

| | | | | | | | | | | | |
|-----|-------|--------|---------|-------|-------|------|---|------|----------|----------|-------|
| 733 | 34.44 | -0.52 | 33.6418 | 0 | | 40.1 | 0 | -144 | -177.833 | C-77 | |
| 734 | 34.54 | -0.406 | 33.9224 | 2.806 | | 40.1 | 0 | -144 | -178.442 | | |
| 735 | 34.54 | -0.38 | 34.138 | 2.156 | | 40.1 | 0 | -144 | -178.544 | | |
| 736 | 34.54 | -0.366 | 34.164 | 0.26 | | 40.1 | 0 | -144 | -178.544 | | |
| 737 | 34.54 | -0.356 | 34.178 | 0.14 | | 40.1 | 0 | -144 | -178.544 | | |
| 738 | 34.54 | -0.349 | 34.188 | 0.1 | | 40.1 | 0 | -144 | -178.544 | | |
| 739 | 34.54 | -0.344 | 34.195 | 0.07 | | 40.1 | 0 | -144 | -178.544 | | |
| 740 | 34.54 | -0.339 | 34.2 | 0.05 | 5.582 | 40.1 | 0 | 0 | -144 | -178.544 | 5.582 |
| 741 | 34.54 | -0.335 | 34.205 | 0.05 | | 40.1 | 0 | -144 | -178.544 | | |
| 742 | 35.13 | -0.471 | 34.209 | 0.04 | | 40.1 | 0 | -144 | -178.544 | | |
| 743 | 35.15 | -0.394 | 34.6572 | 4.482 | | 40.1 | 0 | -144 | -179.128 | | |
| 744 | 35.15 | -0.38 | 34.7596 | 1.024 | | 40.1 | 0 | -144 | -179.154 | | |
| 745 | 35.15 | -0.371 | 34.7736 | 0.14 | | 40.1 | 0 | -144 | -179.154 | | |
| 746 | 35.15 | -0.365 | 34.7826 | 0.09 | | 40.1 | 0 | -146 | -179.154 | | |
| 747 | 35.15 | -0.36 | 34.7886 | 0.06 | | 40.1 | 0 | -144 | -181.154 | | |
| 748 | 35.15 | -0.356 | 34.7936 | 0.05 | | 40.1 | 0 | -144 | -179.154 | | |
| 749 | 35.15 | -0.352 | 34.7976 | 0.04 | | 40.1 | 0 | -145 | -179.154 | | |
| 750 | 35.15 | -0.349 | 34.8016 | 0.04 | 6.016 | 40.1 | 0 | 0 | -145 | -180.154 | 6.016 |
| 751 | 35.15 | -0.346 | 34.8046 | 0.03 | | 40.1 | 0 | -145 | -180.154 | | |
| 752 | 35.15 | -0.344 | 34.8076 | 0.03 | | 40.1 | 0 | -145 | -180.154 | | |
| 753 | 35.15 | -0.342 | 34.8096 | 0.02 | | 40.1 | 0 | -144 | -180.154 | | |
| 754 | 35.15 | -0.34 | 34.8116 | 0.02 | | 40.1 | 0 | -143 | -179.154 | | |
| 755 | 35.15 | -0.34 | 34.8136 | 0.02 | | 40.1 | 0 | -144 | -178.154 | | |
| 756 | 35.15 | -0.339 | 34.8136 | 0 | | 40.1 | 0 | -144 | -179.154 | | |
| 757 | 35.15 | -0.339 | 34.8146 | 0.01 | | 40.2 | 0 | -145 | -179.154 | | |
| 758 | 35.15 | -0.339 | 34.8146 | 0 | | 40.2 | 1 | -146 | -180.154 | | |
| 759 | 35.15 | -0.339 | 34.8146 | 0 | | 40.2 | 0 | -146 | -181.154 | | |
| 760 | 35.15 | -0.339 | 34.8146 | 0 | 0.13 | 40.2 | 0 | 1 | -146 | -181.154 | 1.13 |
| 761 | 35.15 | -0.339 | 34.8146 | 0 | | 40.2 | 0 | -147 | -181.154 | | |
| 762 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -147 | -182.154 | | |
| 763 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 1 | -147 | -182.154 | | |
| 764 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -147 | -182.154 | | |
| 765 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -147 | -182.154 | | |
| 766 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -147 | -182.154 | | |
| 767 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -147 | -182.154 | | |
| 768 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -148 | -182.154 | | |
| 769 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -149 | -183.154 | | |
| 770 | 35.15 | -0.339 | 34.8146 | 0 | 0 | 40.3 | 0 | 1 | -150 | -184.154 | 1 |
| 771 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -152 | -185.154 | | |
| 772 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -153 | -187.154 | | |
| 773 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -154 | -188.154 | | |
| 774 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -155 | -189.154 | | |
| 775 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -152 | -190.154 | | |
| 776 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -150 | -187.154 | | |
| 777 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -149 | -185.154 | | |
| 778 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -147 | -184.154 | | |
| 779 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -146 | -182.154 | | |
| 780 | 35.15 | -0.339 | 34.8146 | 0 | 0 | 40.3 | 0 | 0 | -146 | -181.154 | 0 |
| 781 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -146 | -181.154 | | |
| 782 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | -145 | -181.154 | | |
| 783 | 38.55 | -2.77 | 34.8146 | 0 | | 40.3 | 0 | -144 | -180.154 | | |
| 784 | 38.55 | -2.08 | 35.7836 | 9.69 | | 40.4 | 0 | -143 | -182.554 | | |
| 785 | 38.55 | -1.93 | 36.4736 | 6.9 | | 40.4 | 1 | -142 | -181.554 | | |
| 786 | 38.55 | -1.85 | 36.6236 | 1.5 | | 40.5 | 0 | -141 | -180.554 | | |
| 787 | 38.55 | -1.81 | 36.7036 | 0.8 | | 40.6 | 1 | -142 | -179.554 | | |
| 788 | 38.55 | -1.79 | 36.7436 | 0.4 | | 40.7 | 1 | -142 | -180.554 | | |
| 789 | 38.55 | -1.77 | 36.7636 | 0.2 | | 40.8 | 1 | -143 | -180.554 | | |
| 790 | 38.55 | -1.76 | 36.7836 | 0.2 | 19.69 | 40.9 | 1 | 5 | -143 | -181.554 | 24.69 |
| 791 | 38.55 | -1.75 | 36.7936 | 0.1 | | 41 | 1 | -143 | -181.554 | | |
| 792 | 38.55 | -1.75 | 36.8036 | 0.1 | | 41.1 | 1 | -143 | -181.554 | | |
| 793 | 38.55 | -1.75 | 36.8036 | 0 | | 41.2 | 1 | -143 | -181.554 | | |
| 794 | 38.55 | -1.75 | 36.8036 | 0 | | 41.3 | 1 | -143 | -181.554 | | |
| 795 | 38.55 | -1.75 | 36.8036 | 0 | | 41.4 | 1 | -143 | -181.554 | | |
| 796 | 41.05 | -3.04 | 36.8036 | 0 | | 41.6 | 1 | -144 | -181.554 | | |
| 797 | 41.65 | -2.67 | 38.0136 | 12.1 | | 41.7 | 2 | -140 | -185.054 | | |
| 798 | 41.65 | -2.59 | 38.9836 | 9.7 | | 41.8 | 1 | -135 | -181.654 | | |
| 799 | 41.65 | -2.56 | 39.0636 | 0.8 | | 41.9 | 1 | -133 | -176.654 | | |

| | | | | | | | | | | | | |
|-----|-------|-------|---------|-------|--------|------|---|----|-------|----------|--------|------|
| 800 | 44.25 | -4.46 | 39.0936 | 0.3 | 23.1 | 42 | 1 | 11 | -132 | -174.654 | 34.1 | C-78 |
| 801 | 44.25 | -3.89 | 39.7936 | 7 | | 42.1 | 1 | | -129 | -176.254 | | |
| 802 | 44.25 | -3.74 | 40.3636 | 5.7 | | 42.4 | 1 | | -119 | -173.254 | | |
| 803 | 44.25 | -3.69 | 40.5136 | 1.5 | | 42.5 | 3 | | -104 | -163.254 | | |
| 804 | 44.25 | -3.67 | 40.5636 | 0.5 | | 42.7 | 1 | | -104 | -148.254 | | |
| 805 | 44.25 | -3.66 | 40.5836 | 0.2 | | 42.9 | 2 | | -109 | -148.254 | | |
| 806 | 44.25 | -3.65 | 40.5936 | 0.1 | | 43 | 2 | | -100 | -153.254 | | |
| 807 | 44.25 | -3.65 | 40.6036 | 0.1 | | 43.2 | 1 | | -94 | -144.254 | | |
| 808 | 46.25 | -4.84 | 40.6036 | 0 | | 43.4 | 2 | | -91.5 | -138.254 | | |
| 809 | 46.25 | -4.42 | 41.4136 | 8.1 | | 43.6 | 2 | | -91.4 | -137.754 | | |
| 810 | 46.25 | -4.37 | 41.8336 | 4.2 | 27.4 | 43.8 | 2 | 17 | -92.8 | -137.654 | 44.4 | |
| 811 | 46.25 | -4.35 | 41.8836 | 0.5 | | 44 | 2 | | -95.7 | -139.054 | | |
| 812 | 49.25 | -6.09 | 41.9036 | 0.2 | | 44.2 | 2 | | -97 | -141.954 | | |
| 813 | 49.25 | -5.51 | 43.1636 | 12.6 | | 44.3 | 2 | | -98.6 | -146.254 | | |
| 814 | 49.25 | -5.41 | 43.7436 | 5.8 | | 44.5 | 1 | | -99.4 | -147.854 | | |
| 815 | 49.25 | -5.38 | 43.8436 | 1 | | 44.7 | 2 | | -104 | -148.654 | | |
| 816 | 49.25 | -5.37 | 43.8736 | 0.3 | | 44.9 | 2 | | -109 | -153.254 | | |
| 817 | 49.25 | -5.37 | 43.8836 | 0.1 | | 45.1 | 2 | | -115 | -158.254 | | |
| 818 | 49.25 | -5.37 | 43.8836 | 0 | | 45.3 | 2 | | -120 | -164.254 | | |
| 819 | 49.25 | -5.37 | 43.8836 | 0 | | 45.4 | 2 | | -124 | -169.254 | | |
| 820 | 49.25 | -5.37 | 43.8836 | 0 | 20.5 | 45.5 | 1 | 18 | -127 | -173.254 | 38.5 | |
| 821 | 49.25 | -5.37 | 43.8836 | 0 | | 45.6 | 1 | | -131 | -176.254 | | |
| 822 | 49.25 | -5.37 | 43.8836 | 0 | | 45.6 | 1 | | -134 | -180.254 | | |
| 823 | 49.25 | -5.37 | 43.8836 | 0 | | 45.6 | 0 | | -135 | -183.254 | | |
| 824 | 51.65 | -6.85 | 43.8836 | 0 | | 45.7 | 0 | | -136 | -184.254 | | |
| 825 | 52.45 | -6.97 | 44.8036 | 9.2 | | 45.8 | 1 | | -137 | -187.654 | | |
| 826 | 52.45 | -6.67 | 45.4836 | 6.8 | | 45.9 | 1 | | -136 | -189.454 | | |
| 827 | 52.45 | -6.61 | 45.7836 | 3 | | 46.1 | 1 | | -133 | -188.454 | | |
| 828 | 52.45 | -6.59 | 45.8436 | 0.6 | | 46.2 | 2 | | -132 | -185.454 | | |
| 829 | 52.45 | -6.59 | 45.8636 | 0.2 | | 46.4 | 1 | | -132 | -184.454 | | |
| 830 | 52.45 | -6.59 | 45.8636 | 0 | 19.8 | 46.6 | 2 | 10 | -132 | -184.454 | 29.8 | |
| 831 | 52.45 | -6.59 | 45.8636 | 0 | | 46.7 | 2 | | -134 | -184.454 | | |
| 832 | 52.45 | -6.59 | 45.8636 | 0 | | 46.8 | 1 | | -137 | -186.454 | | |
| 833 | 52.45 | -6.59 | 45.8636 | 0 | | 46.9 | 1 | | -138 | -189.454 | | |
| 834 | 52.45 | -6.59 | 45.8636 | 0 | | 46.9 | 1 | | -139 | -190.454 | | |
| 835 | 52.45 | -6.59 | 45.8636 | 0 | | 46.9 | 0 | | -140 | -191.454 | | |
| 836 | 52.61 | -6.59 | 45.8636 | 0 | | 46.9 | 0 | | -141 | -192.454 | | |
| 837 | 52.61 | -6.59 | 46.016 | 1.524 | | 46.9 | 0 | | -142 | -193.606 | | |
| 838 | 52.61 | -6.59 | 46.016 | 0 | | 46.9 | 0 | | -143 | -194.606 | | |
| 839 | 52.61 | -6.59 | 46.016 | 0 | | 46.9 | 0 | | -144 | -195.606 | | |
| 840 | 52.61 | -6.59 | 46.016 | 0 | 1.524 | 47 | 0 | 5 | -144 | -196.606 | 6.524 | |
| 841 | 52.61 | -6.59 | 46.016 | 0 | | 47 | 1 | | -145 | -196.606 | | |
| 842 | 52.63 | -6.59 | 46.016 | 0 | | 47 | 0 | | -146 | -197.606 | | |
| 843 | 52.68 | -6.59 | 46.0414 | 0.254 | | 47 | 0 | | -146 | -198.631 | | |
| 844 | 52.73 | -6.59 | 46.0922 | 0.508 | | 47 | 0 | | -146 | -198.682 | | |
| 845 | 52.73 | -6.59 | 46.143 | 0.508 | | 47 | 0 | | -145 | -198.733 | | |
| 846 | 52.73 | -6.59 | 46.143 | 0 | | 47 | 0 | | -145 | -197.733 | | |
| 847 | 53.27 | -6.59 | 46.143 | 0 | | 47 | 0 | | -145 | -197.733 | | |
| 848 | 53.27 | -6.59 | 46.6764 | 5.334 | | 47 | 0 | | -145 | -198.266 | | |
| 849 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -145 | -198.266 | | |
| 850 | 53.27 | -6.59 | 46.6764 | 0 | 6.604 | 47 | 0 | 1 | -146 | -198.266 | 7.604 | |
| 851 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -146 | -199.266 | | |
| 852 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -146 | -199.266 | | |
| 853 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -146 | -199.266 | | |
| 854 | 53.29 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -147 | -199.266 | | |
| 855 | 53.32 | -6.59 | 46.7018 | 0.254 | | 47 | 0 | | -147 | -200.292 | | |
| 856 | 56.12 | -8.55 | 46.7272 | 0.254 | | 47.1 | 0 | | -146 | -200.317 | | |
| 857 | 56.12 | -8.01 | 47.5706 | 8.434 | | 47.3 | 1 | | -145 | -202.121 | | |
| 858 | 56.12 | -7.92 | 48.1106 | 5.4 | | 47.5 | 2 | | -143 | -201.121 | | |
| 859 | 56.12 | -7.89 | 48.2006 | 0.9 | | 47.6 | 2 | | -143 | -199.121 | | |
| 860 | 56.12 | -7.88 | 48.2306 | 0.3 | 15.542 | 47.8 | 1 | 6 | -143 | -199.121 | 21.542 | |
| 861 | 56.89 | -7.88 | 48.2406 | 0.1 | | 48 | 2 | | -143 | -199.121 | | |
| 862 | 56.89 | -7.88 | 49.0106 | 7.7 | | 48.2 | 2 | | -144 | -199.891 | | |
| 863 | 56.89 | -7.88 | 49.0106 | 0 | | 48.3 | 2 | | -146 | -200.891 | | |
| 864 | 56.89 | -7.88 | 49.0106 | 0 | | 48.4 | 1 | | -147 | -202.891 | | |
| 865 | 56.89 | -7.88 | 49.0106 | 0 | | 48.4 | 1 | | -148 | -203.891 | | |
| 866 | 56.94 | -7.88 | 49.0106 | 0 | | 48.4 | 0 | | -148 | -204.891 | | |

| | | | | | | | | | | | | |
|-----|-------|-------|---------|-------|--------|------|---|----|------|----------|--------|------|
| 867 | 56.94 | -7.88 | 49.0614 | 0.508 | | 48.4 | 0 | | -149 | -204.941 | | C-79 |
| 868 | 56.94 | -7.88 | 49.0614 | 0 | | 48.4 | 0 | | -150 | -205.941 | | |
| 869 | 56.97 | -7.88 | 49.0614 | 0 | | 48.4 | 0 | | -151 | -206.941 | | |
| 870 | 56.97 | -7.88 | 49.0868 | 0.254 | 8.562 | 48.4 | 0 | 8 | -151 | -207.967 | 16.562 | |
| 871 | 56.97 | -7.88 | 49.0868 | 0 | | 48.4 | 0 | | -152 | -207.967 | | |
| 872 | 57.25 | -7.88 | 49.0868 | 0 | | 48.4 | 0 | | -151 | -208.967 | | |
| 873 | 57.32 | -7.88 | 49.3662 | 2.794 | | 48.4 | 0 | | -148 | -208.246 | | |
| 874 | 57.81 | -7.88 | 49.4424 | 0.762 | | 48.4 | 0 | | -142 | -205.322 | | |
| 875 | 58.8 | -8.28 | 49.925 | 4.826 | | 48.5 | 0 | | -120 | -199.805 | | |
| 876 | 58.8 | -8.15 | 50.5156 | 5.906 | | 48.6 | 1 | | -119 | -178.796 | | |
| 877 | 59.89 | -8.35 | 50.6456 | 1.3 | | 48.6 | 1 | | -124 | -177.796 | | |
| 878 | 59.94 | -8.26 | 51.5378 | 8.922 | | 48.7 | 0 | | -127 | -183.888 | | |
| 879 | 61.99 | -9.75 | 51.6786 | 1.408 | | 48.8 | 1 | | -127 | -186.939 | | |
| 880 | 62.09 | -9.34 | 52.2366 | 5.58 | 31.498 | 48.9 | 1 | 4 | -119 | -188.987 | 35.498 | |
| 881 | 63.13 | -9.88 | 52.7482 | 5.116 | | 49.1 | 1 | | -113 | -181.088 | | |
| 882 | 63.13 | -9.58 | 53.2482 | 5 | | 49.3 | 2 | | -118 | -176.128 | | |
| 883 | 63.15 | -9.54 | 53.5482 | 3 | | 49.4 | 2 | | -121 | -181.128 | | |
| 884 | 63.15 | -9.53 | 53.6136 | 0.654 | | 49.6 | 1 | | -125 | -184.154 | | |
| 885 | 63.15 | -9.53 | 53.6236 | 0.1 | | 49.8 | 2 | | -127 | -188.154 | | |
| 886 | 63.15 | -9.53 | 53.6236 | 0 | | 50 | 2 | | -129 | -190.154 | | |
| 887 | 63.15 | -9.53 | 53.6236 | 0 | | 50.1 | 2 | | -131 | -192.154 | | |
| 888 | 63.74 | -9.53 | 53.6236 | 0 | | 50.1 | 1 | | -133 | -194.154 | | |
| 889 | 63.89 | -9.53 | 54.2078 | 5.842 | | 50.1 | 0 | | -134 | -196.738 | | |
| 890 | 63.89 | -9.53 | 54.3602 | 1.524 | 21.236 | 50.1 | 0 | 13 | -135 | -197.89 | 34.236 | |
| 891 | 63.89 | -9.53 | 54.3602 | 0 | | 50.1 | 0 | | -137 | -198.89 | | |
| 892 | 65.56 | -10.2 | 54.3602 | 0 | | 50.2 | 0 | | -138 | -200.89 | | |
| 893 | 65.56 | -9.97 | 55.3602 | 10 | | 50.3 | 1 | | -139 | -203.56 | | |
| 894 | 65.61 | -9.96 | 55.5902 | 2.3 | | 50.4 | 1 | | -139 | -204.56 | | |
| 895 | 65.61 | -9.96 | 55.651 | 0.608 | | 50.5 | 1 | | -140 | -204.611 | | |
| 896 | 65.61 | -9.96 | 55.651 | 0 | | 50.6 | 1 | | -141 | -205.611 | | |
| 897 | 65.66 | -9.96 | 55.651 | 0 | | 50.6 | 1 | | -142 | -206.611 | | |
| 898 | 65.66 | -9.96 | 55.7018 | 0.508 | | 50.6 | 0 | | -142 | -207.662 | | |
| 899 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -142 | -207.662 | | |
| 900 | 65.66 | -9.96 | 55.7018 | 0 | 13.416 | 50.6 | 0 | 5 | -142 | -207.662 | 18.416 | |
| 901 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -143 | -207.662 | | |
| 902 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -143 | -208.662 | | |
| 903 | 67.8 | -11.6 | 55.7018 | 0 | | 50.6 | 0 | | -144 | -208.662 | | |
| 904 | 67.8 | -11.1 | 56.1954 | 4.936 | | 50.9 | 0 | | -144 | -211.795 | | |
| 905 | 67.8 | -11.1 | 56.6954 | 5 | | 51 | 3 | | -143 | -211.795 | | |
| 906 | 67.8 | -11.1 | 56.6954 | 0 | | 51.1 | 1 | | -143 | -210.795 | | |
| 907 | 67.8 | -11.1 | 56.6954 | 0 | | 51.3 | 1 | | -144 | -210.795 | | |
| 908 | 67.8 | -11.1 | 56.6954 | 0 | | 51.4 | 2 | | -144 | -211.795 | | |
| 909 | 67.8 | -11.1 | 56.6954 | 0 | | 51.5 | 1 | | -145 | -211.795 | | |
| 910 | 67.8 | -11.1 | 56.6954 | 0 | 9.936 | 51.6 | 1 | 9 | -145 | -212.795 | 18.936 | |
| 911 | 67.8 | -11.1 | 56.6954 | 0 | | 51.7 | 1 | | -145 | -212.795 | | |
| 912 | 67.8 | -11.1 | 56.6954 | 0 | | 51.7 | 1 | | -146 | -212.795 | | |
| 913 | 68.38 | -11.2 | 56.6954 | 0 | | 51.7 | 0 | | -146 | -213.795 | | |
| 914 | 68.38 | -11.1 | 57.1796 | 4.842 | | 51.8 | 0 | | -146 | -214.38 | | |
| 915 | 68.38 | -11.1 | 57.2796 | 1 | | 51.8 | 1 | | -146 | -214.38 | | |
| 916 | 68.51 | -11.1 | 57.2796 | 0 | | 51.8 | 0 | | -146 | -214.38 | | |
| 917 | 68.79 | -11.1 | 57.4066 | 1.27 | | 51.8 | 0 | | -145 | -214.507 | | |
| 918 | 69.62 | -11.3 | 57.686 | 2.794 | | 51.8 | 0 | | -145 | -213.786 | | |
| 919 | 69.62 | -11.3 | 58.3242 | 6.382 | | 51.9 | 0 | | -144 | -214.624 | | |
| 920 | 69.62 | -11.3 | 58.3242 | 0 | 16.288 | 51.9 | 1 | 4 | -144 | -213.624 | 20.288 | |
| 921 | 69.62 | -11.3 | 58.3242 | 0 | | 52 | 0 | | -144 | -213.624 | | |
| 922 | 69.62 | -11.3 | 58.3242 | 0 | | 52 | 1 | | -144 | -213.624 | | |
| 923 | 69.75 | -11.3 | 58.3242 | 0 | | 52 | 0 | | -145 | -213.624 | | |
| 924 | 69.75 | -11.3 | 58.4512 | 1.27 | | 52 | 0 | | -144 | -214.751 | | |
| 925 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -144 | -213.751 | | |
| 926 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -144 | -213.751 | | |
| 927 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -145 | -213.751 | | |
| 928 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -146 | -214.751 | | |
| 929 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -146 | -215.751 | | |
| 930 | 69.75 | -11.3 | 58.4512 | 0 | 1.27 | 52 | 0 | 1 | -147 | -215.751 | 2.27 | |
| 931 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -147 | -216.751 | | |
| 932 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -147 | -216.751 | | |
| 933 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -148 | -216.751 | | |

| | | | | | | | | | | | |
|------|-------|-------|---------|-------|-------|------|---|------|----------|----------|-------|
| 934 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -148 | -217.751 | C-80 | |
| 935 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -148 | -217.751 | | |
| 936 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -149 | -217.751 | | |
| 937 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -149 | -218.751 | | |
| 938 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -149 | -218.751 | | |
| 939 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -150 | -218.751 | | |
| 940 | 69.75 | -11.3 | 58.4512 | 0 | 0 | 52 | 0 | 0 | -150 | -219.751 | 0 |
| 941 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -150 | -219.751 | | |
| 942 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -150 | -219.751 | | |
| 943 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -150 | -219.751 | | |
| 944 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -150 | -219.751 | | |
| 945 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -150 | -219.751 | | |
| 946 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | -150 | -219.751 | | |
| 947 | 70.28 | -11.7 | 58.4512 | 0 | | 52 | 0 | -149 | -219.751 | | |
| 948 | 70.28 | -11.6 | 58.5846 | 1.334 | | 52.1 | 0 | -148 | -219.285 | | |
| 949 | 70.28 | -11.5 | 58.6846 | 1 | | 52.1 | 1 | -147 | -218.285 | | |
| 950 | 70.28 | -11.5 | 58.7846 | 1 | 3.334 | 52.2 | 0 | 1 | -146 | -217.285 | 4.334 |
| 951 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 1 | -145 | -216.285 | | |
| 952 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -144 | -215.285 | | |
| 953 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -144 | -214.285 | | |
| 954 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -144 | -214.285 | | |
| 955 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -144 | -214.285 | | |
| 956 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -144 | -214.285 | | |
| 957 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -144 | -214.285 | | |
| 958 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -145 | -214.285 | | |
| 959 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -145 | -215.285 | | |
| 960 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 1 | -146 | -215.285 | 1 |
| 961 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -145 | -216.285 | | |
| 962 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -145 | -215.285 | | |
| 963 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -144 | -215.285 | | |
| 964 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -143 | -214.285 | | |
| 965 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -213.285 | | |
| 966 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 967 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 968 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 969 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -212.285 | | |
| 970 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 0 | -141 | -211.285 | 0 |
| 971 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 972 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 973 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 974 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 975 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -211.285 | | |
| 976 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 977 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 978 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 979 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 980 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 0 | -142 | -212.285 | 0 |
| 981 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -212.285 | | |
| 982 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 983 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 984 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -211.285 | | |
| 985 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 986 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 987 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 988 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 989 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -142 | -212.285 | | |
| 990 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 0 | -142 | -212.285 | 0 |
| 991 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -212.285 | | |
| 992 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 993 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 994 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 995 | 70.36 | -11.5 | 58.7846 | 0 | | 52.2 | 0 | -141 | -211.285 | | |
| 996 | 70.36 | -11.5 | 58.8646 | 0.8 | | 52.2 | 0 | -141 | -211.365 | | |
| 997 | 70.36 | -11.5 | 58.8646 | 0 | | 52.2 | 0 | -141 | -211.365 | | |
| 998 | 70.36 | -11.5 | 58.8646 | 0 | | 52.2 | 0 | -140 | -211.365 | | |
| 999 | 70.54 | -11.5 | 58.8646 | 0 | | 52.2 | 0 | -141 | -210.365 | | |
| 1000 | 70.54 | -11.5 | 59.0426 | 1.78 | 2.58 | 52.2 | 0 | 0 | -141 | -211.543 | 2.58 |

| | | | | | | | | | | | |
|------|-------|-------|---------|-------|-------|------|---|---|------|----------|-------|
| 1001 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | C-81 |
| 1002 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1003 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -211.543 | |
| 1004 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1005 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1006 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1007 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1008 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1009 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1010 | 70.54 | -11.5 | 59.0426 | 0 | 0 | 52.2 | 0 | 0 | -141 | -212.543 | 0 |
| 1011 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1012 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1013 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1014 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1015 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1016 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1017 | 70.75 | -11.7 | 59.0426 | 0 | | 52.2 | 0 | | -140 | -211.543 | |
| 1018 | 70.75 | -11.6 | 59.0458 | 0.032 | | 52.2 | 0 | | -141 | -210.746 | |
| 1019 | 70.75 | -11.6 | 59.1458 | 1 | | 52.2 | 0 | | -141 | -211.746 | |
| 1020 | 70.75 | -11.6 | 59.1458 | 0 | 1.032 | 52.2 | 0 | 0 | -140 | -211.746 | 1.032 |
| 1021 | 70.75 | -11.6 | 59.1458 | 0 | | 52.2 | 0 | | -140 | -210.746 | |
| 1022 | 70.75 | -11.6 | 59.1458 | 0 | | 52.2 | 0 | | -140 | -210.746 | |

end

CSCMatM483-Daily Data

| Time [day] | CumP1 [cm] | sum(vTop [L]) | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc [L]) | Daily T [mm] | 10day T [mm/10d] | sum(vBot [L]) | Cumm Dis [cm] | 10day ET [mm/10d] |
|------------|------------|---------------|-------------|------------------|------------------|---------------|--------------|------------------|---------------|---------------|-------------------|
| 650 | 33.63 | -0.145 | 33.4846 | 0 | 0 | 40.1 | 0 | 0 | -141 | -174.63 | 0 |
| 651 | 33.63 | -0.145 | 33.4846 | 0 | | 40.1 | 0 | | -141 | -174.63 | |
| 652 | 33.83 | -0.292 | 33.4846 | 0 | | 40.1 | 0 | | -142 | -174.63 | |
| 653 | 33.83 | -0.235 | 33.5408 | 0.562 | | 40.1 | 0 | | -143 | -175.833 | |
| 654 | 33.83 | -0.226 | 33.5978 | 0.57 | | 40.1 | 0 | | -144 | -176.833 | |
| 655 | 33.83 | -0.221 | 33.6068 | 0.09 | | 40.1 | 0 | | -144 | -177.833 | |
| 656 | 33.83 | -0.218 | 33.6118 | 0.05 | | 40.1 | 0 | | -145 | -177.833 | |
| 657 | 33.83 | -0.216 | 33.6148 | 0.03 | | 40.1 | 0 | | -146 | -178.833 | |
| 658 | 33.83 | -0.214 | 33.6168 | 0.02 | | 40.1 | 0 | | -147 | -179.833 | |
| 659 | 33.83 | -0.212 | 33.6188 | 0.02 | | 40.1 | 0 | | -147 | -180.833 | |
| 660 | 33.83 | -0.211 | 33.6208 | 0.02 | 1.362 | 40.1 | 0 | 0 | -147 | -180.833 | 1.362 |
| 661 | 33.83 | -0.21 | 33.6218 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 662 | 33.83 | -0.209 | 33.6228 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 663 | 33.83 | -0.208 | 33.6238 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 664 | 33.83 | -0.207 | 33.6248 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 665 | 33.83 | -0.206 | 33.6258 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 666 | 33.83 | -0.205 | 33.6268 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 667 | 33.83 | -0.205 | 33.6278 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 668 | 33.83 | -0.204 | 33.6278 | 0 | | 40.1 | 0 | | -147 | -180.833 | |
| 669 | 33.83 | -0.203 | 33.6288 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 670 | 33.83 | -0.203 | 33.6298 | 0.01 | 0.09 | 40.1 | 0 | 0 | -147 | -180.833 | 0.09 |
| 671 | 33.83 | -0.203 | 33.6298 | 0 | | 40.1 | 0 | | -147 | -180.833 | |
| 672 | 33.83 | -0.202 | 33.6298 | 0 | | 40.1 | 0 | | -146 | -180.833 | |
| 673 | 33.83 | -0.202 | 33.6308 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 674 | 33.83 | -0.201 | 33.6308 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 675 | 33.83 | -0.201 | 33.6318 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 676 | 33.83 | -0.2 | 33.6318 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 677 | 33.83 | -0.2 | 33.6328 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 678 | 33.83 | -0.2 | 33.6328 | 0 | | 40.1 | 0 | | -145 | -179.833 | |
| 679 | 33.83 | -0.199 | 33.6328 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 680 | 33.83 | -0.199 | 33.6338 | 0.01 | 0.04 | 40.1 | 0 | 0 | -145 | -178.833 | 0.04 |
| 681 | 33.83 | -0.199 | 33.6338 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 682 | 33.83 | -0.199 | 33.6338 | 0 | | 40.1 | 0 | | -146 | -178.833 | |
| 683 | 33.83 | -0.198 | 33.6338 | 0 | | 40.1 | 0 | | -146 | -179.833 | |

| | | | | | | | | | | | |
|-----|-------|--------|---------|-------|-------|------|------|----------|------|----------|-------|
| 684 | 33.83 | -0.198 | 33.6348 | 0.01 | 40.1 | 0 | -146 | -179.833 | | | |
| 685 | 33.83 | -0.198 | 33.6348 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 686 | 33.83 | -0.198 | 33.6348 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 687 | 33.83 | -0.197 | 33.6348 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 688 | 33.83 | -0.197 | 33.6358 | 0.01 | 40.1 | 0 | -146 | -179.833 | | | |
| 689 | 33.83 | -0.197 | 33.6358 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 690 | 33.83 | -0.197 | 33.6358 | 0 | 0.02 | 40.1 | 0 | 0 | -145 | -179.833 | 0.02 |
| 691 | 33.83 | -0.196 | 33.6358 | 0 | 40.1 | 0 | -145 | -178.833 | | | |
| 692 | 33.83 | -0.196 | 33.6368 | 0.01 | 40.1 | 0 | -145 | -178.833 | | | |
| 693 | 33.83 | -0.196 | 33.6368 | 0 | 40.1 | 0 | -146 | -178.833 | | | |
| 694 | 33.83 | -0.196 | 33.6368 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 695 | 33.83 | -0.196 | 33.6368 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 696 | 33.83 | -0.195 | 33.6368 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 697 | 33.83 | -0.195 | 33.6378 | 0.01 | 40.1 | 0 | -146 | -179.833 | | | |
| 698 | 33.83 | -0.195 | 33.6378 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 699 | 33.83 | -0.195 | 33.6378 | 0 | 40.1 | 0 | -146 | -179.833 | | | |
| 700 | 33.83 | -0.195 | 33.6378 | 0 | 0.02 | 40.1 | 0 | 0 | -146 | -179.833 | 0.02 |
| 701 | 33.83 | -0.195 | 33.6378 | 0 | 40.1 | 0 | -145 | -179.833 | | | |
| 702 | 33.83 | -0.194 | 33.6378 | 0 | 40.1 | 0 | -145 | -178.833 | | | |
| 703 | 33.83 | -0.194 | 33.6388 | 0.01 | 40.1 | 0 | -145 | -178.833 | | | |
| 704 | 33.83 | -0.194 | 33.6388 | 0 | 40.1 | 0 | -145 | -178.833 | | | |
| 705 | 33.83 | -0.194 | 33.6388 | 0 | 40.1 | 0 | -145 | -178.833 | | | |
| 706 | 33.83 | -0.194 | 33.6388 | 0 | 40.1 | 0 | -145 | -178.833 | | | |
| 707 | 33.83 | -0.194 | 33.6388 | 0 | 40.1 | 0 | -145 | -178.833 | | | |
| 708 | 33.83 | -0.193 | 33.6388 | 0 | 40.1 | 0 | -144 | -178.833 | | | |
| 709 | 33.83 | -0.193 | 33.6398 | 0.01 | 40.1 | 0 | -144 | -177.833 | | | |
| 710 | 33.83 | -0.193 | 33.6398 | 0 | 0.02 | 40.1 | 0 | 0 | -144 | -177.833 | 0.02 |
| 711 | 33.83 | -0.193 | 33.6398 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 712 | 33.83 | -0.193 | 33.6398 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 713 | 33.83 | -0.193 | 33.6398 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 714 | 33.83 | -0.193 | 33.6398 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 715 | 33.83 | -0.193 | 33.6398 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 716 | 33.83 | -0.192 | 33.6398 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 717 | 33.83 | -0.192 | 33.6408 | 0.01 | 40.1 | 0 | -144 | -177.833 | | | |
| 718 | 33.83 | -0.192 | 33.6408 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 719 | 33.83 | -0.192 | 33.6408 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 720 | 33.83 | -0.192 | 33.6408 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 721 | 33.83 | -0.192 | 33.6408 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 722 | 33.83 | -0.192 | 33.6408 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 723 | 33.83 | -0.192 | 33.6408 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 724 | 33.83 | -0.192 | 33.6408 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 725 | 33.83 | -0.191 | 33.6408 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 726 | 33.83 | -0.191 | 33.6418 | 0.01 | 40.1 | 0 | -144 | -177.833 | | | |
| 727 | 33.83 | -0.191 | 33.6418 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 728 | 33.83 | -0.191 | 33.6418 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 729 | 33.83 | -0.191 | 33.6418 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 730 | 33.83 | -0.191 | 33.6418 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 731 | 33.83 | -0.191 | 33.6418 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 732 | 33.83 | -0.191 | 33.6418 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 733 | 34.44 | -0.52 | 33.6418 | 0 | 40.1 | 0 | -144 | -177.833 | | | |
| 734 | 34.54 | -0.406 | 33.9224 | 2.806 | 40.1 | 0 | -144 | -178.442 | | | |
| 735 | 34.54 | -0.38 | 34.138 | 2.156 | 40.1 | 0 | -144 | -178.544 | | | |
| 736 | 34.54 | -0.366 | 34.164 | 0.26 | 40.1 | 0 | -144 | -178.544 | | | |
| 737 | 34.54 | -0.356 | 34.178 | 0.14 | 40.1 | 0 | -144 | -178.544 | | | |
| 738 | 34.54 | -0.349 | 34.188 | 0.1 | 40.1 | 0 | -144 | -178.544 | | | |
| 739 | 34.54 | -0.344 | 34.195 | 0.07 | 40.1 | 0 | -144 | -178.544 | | | |
| 740 | 34.54 | -0.339 | 34.2 | 0.05 | 5.582 | 40.1 | 0 | 0 | -144 | -178.544 | 5.582 |
| 741 | 34.54 | -0.335 | 34.205 | 0.05 | 40.1 | 0 | -144 | -178.544 | | | |
| 742 | 35.13 | -0.471 | 34.209 | 0.04 | 40.1 | 0 | -144 | -178.544 | | | |
| 743 | 35.15 | -0.394 | 34.6572 | 4.482 | 40.1 | 0 | -144 | -179.128 | | | |
| 744 | 35.15 | -0.38 | 34.7596 | 1.024 | 40.1 | 0 | -144 | -179.154 | | | |
| 745 | 35.15 | -0.371 | 34.7736 | 0.14 | 40.1 | 0 | -144 | -179.154 | | | |
| 746 | 35.15 | -0.365 | 34.7826 | 0.09 | 40.1 | 0 | -146 | -179.154 | | | |
| 747 | 35.15 | -0.36 | 34.7886 | 0.06 | 40.1 | 0 | -144 | -181.154 | | | |
| 748 | 35.15 | -0.356 | 34.7936 | 0.05 | 40.1 | 0 | -144 | -179.154 | | | |
| 749 | 35.15 | -0.352 | 34.7976 | 0.04 | 40.1 | 0 | -145 | -179.154 | | | |
| 750 | 35.15 | -0.349 | 34.8016 | 0.04 | 6.016 | 40.1 | 0 | 0 | -145 | -180.154 | 6.016 |

| | | | | | | | | | | | |
|-----|-------|-------|---------|-------|--------|------|---|----|------|----------|--------|
| 885 | 63.15 | -9.53 | 53.6236 | 0.1 | | 49.8 | 2 | | -127 | -188.154 | |
| 886 | 63.15 | -9.53 | 53.6236 | 0 | | 50 | 2 | | -129 | -190.154 | |
| 887 | 63.15 | -9.53 | 53.6236 | 0 | | 50.1 | 2 | | -131 | -192.154 | |
| 888 | 63.74 | -9.53 | 53.6236 | 0 | | 50.1 | 1 | | -133 | -194.154 | |
| 889 | 63.89 | -9.53 | 54.2078 | 5.842 | | 50.1 | 0 | | -134 | -196.738 | |
| 890 | 63.89 | -9.53 | 54.3602 | 1.524 | 21.236 | 50.1 | 0 | 13 | -135 | -197.89 | 34.236 |
| 891 | 63.89 | -9.53 | 54.3602 | 0 | | 50.1 | 0 | | -137 | -198.89 | |
| 892 | 65.56 | -10.2 | 54.3602 | 0 | | 50.2 | 0 | | -138 | -200.89 | |
| 893 | 65.56 | -9.97 | 55.3602 | 10 | | 50.3 | 1 | | -139 | -203.56 | |
| 894 | 65.61 | -9.96 | 55.5902 | 2.3 | | 50.4 | 1 | | -139 | -204.56 | |
| 895 | 65.61 | -9.96 | 55.651 | 0.608 | | 50.5 | 1 | | -140 | -204.611 | |
| 896 | 65.61 | -9.96 | 55.651 | 0 | | 50.6 | 1 | | -141 | -205.611 | |
| 897 | 65.66 | -9.96 | 55.651 | 0 | | 50.6 | 1 | | -142 | -206.611 | |
| 898 | 65.66 | -9.96 | 55.7018 | 0.508 | | 50.6 | 0 | | -142 | -207.662 | |
| 899 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -142 | -207.662 | |
| 900 | 65.66 | -9.96 | 55.7018 | 0 | 13.416 | 50.6 | 0 | 5 | -142 | -207.662 | 18.416 |
| 901 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -143 | -207.662 | |
| 902 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -143 | -208.662 | |
| 903 | 67.8 | -11.6 | 55.7018 | 0 | | 50.6 | 0 | | -144 | -208.662 | |
| 904 | 67.8 | -11.1 | 56.1954 | 4.936 | | 50.9 | 0 | | -144 | -211.795 | |
| 905 | 67.8 | -11.1 | 56.6954 | 5 | | 51 | 3 | | -143 | -211.795 | |
| 906 | 67.8 | -11.1 | 56.6954 | 0 | | 51.1 | 1 | | -143 | -210.795 | |
| 907 | 67.8 | -11.1 | 56.6954 | 0 | | 51.3 | 1 | | -144 | -210.795 | |
| 908 | 67.8 | -11.1 | 56.6954 | 0 | | 51.4 | 2 | | -144 | -211.795 | |
| 909 | 67.8 | -11.1 | 56.6954 | 0 | | 51.5 | 1 | | -145 | -211.795 | |
| 910 | 67.8 | -11.1 | 56.6954 | 0 | 9.936 | 51.6 | 1 | 9 | -145 | -212.795 | 18.936 |
| 911 | 67.8 | -11.1 | 56.6954 | 0 | | 51.7 | 1 | | -145 | -212.795 | |
| 912 | 67.8 | -11.1 | 56.6954 | 0 | | 51.7 | 1 | | -146 | -212.795 | |
| 913 | 68.38 | -11.2 | 56.6954 | 0 | | 51.7 | 0 | | -146 | -213.795 | |
| 914 | 68.38 | -11.1 | 57.1796 | 4.842 | | 51.8 | 0 | | -146 | -214.38 | |
| 915 | 68.38 | -11.1 | 57.2796 | 1 | | 51.8 | 1 | | -146 | -214.38 | |
| 916 | 68.51 | -11.1 | 57.2796 | 0 | | 51.8 | 0 | | -146 | -214.38 | |
| 917 | 68.79 | -11.1 | 57.4066 | 1.27 | | 51.8 | 0 | | -145 | -214.507 | |
| 918 | 69.62 | -11.3 | 57.686 | 2.794 | | 51.8 | 0 | | -145 | -213.786 | |
| 919 | 69.62 | -11.3 | 58.3242 | 6.382 | | 51.9 | 0 | | -144 | -214.624 | |
| 920 | 69.62 | -11.3 | 58.3242 | 0 | 16.288 | 51.9 | 1 | 4 | -144 | -213.624 | 20.288 |
| 921 | 69.62 | -11.3 | 58.3242 | 0 | | 52 | 0 | | -144 | -213.624 | |
| 922 | 69.62 | -11.3 | 58.3242 | 0 | | 52 | 1 | | -144 | -213.624 | |
| 923 | 69.75 | -11.3 | 58.3242 | 0 | | 52 | 0 | | -145 | -213.624 | |
| 924 | 69.75 | -11.3 | 58.4512 | 1.27 | | 52 | 0 | | -144 | -214.751 | |
| 925 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -144 | -213.751 | |
| 926 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -144 | -213.751 | |
| 927 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -145 | -213.751 | |
| 928 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -146 | -214.751 | |
| 929 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -146 | -215.751 | |
| 930 | 69.75 | -11.3 | 58.4512 | 0 | 1.27 | 52 | 0 | 1 | -147 | -215.751 | 2.27 |
| 931 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -147 | -216.751 | |
| 932 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -147 | -216.751 | |
| 933 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -148 | -216.751 | |
| 934 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -148 | -217.751 | |
| 935 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -148 | -217.751 | |
| 936 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -149 | -217.751 | |
| 937 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -149 | -218.751 | |
| 938 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -149 | -218.751 | |
| 939 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -218.751 | |
| 940 | 69.75 | -11.3 | 58.4512 | 0 | 0 | 52 | 0 | 0 | -150 | -219.751 | 0 |
| 941 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 942 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 943 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 944 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 945 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 946 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 947 | 70.28 | -11.7 | 58.4512 | 0 | | 52 | 0 | | -149 | -219.751 | |
| 948 | 70.28 | -11.6 | 58.5846 | 1.334 | | 52.1 | 0 | | -148 | -219.285 | |
| 949 | 70.28 | -11.5 | 58.6846 | 1 | | 52.1 | 1 | | -147 | -218.285 | |
| 950 | 70.28 | -11.5 | 58.7846 | 1 | 3.334 | 52.2 | 0 | 1 | -146 | -217.285 | 4.334 |
| 951 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 1 | | -145 | -216.285 | |

| | | | | | | | | | | | |
|------|-------|-------|---------|-------|-------|------|---|---|------|----------|-------|
| 1001 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | C-81 |
| 1002 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1003 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -211.543 | |
| 1004 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1005 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1006 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1007 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1008 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1009 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -142 | -212.543 | |
| 1010 | 70.54 | -11.5 | 59.0426 | 0 | 0 | 52.2 | 0 | 0 | -141 | -212.543 | 0 |
| 1011 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1012 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1013 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1014 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1015 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1016 | 70.54 | -11.5 | 59.0426 | 0 | | 52.2 | 0 | | -141 | -211.543 | |
| 1017 | 70.75 | -11.7 | 59.0426 | 0 | | 52.2 | 0 | | -140 | -211.543 | |
| 1018 | 70.75 | -11.6 | 59.0458 | 0.032 | | 52.2 | 0 | | -141 | -210.746 | |
| 1019 | 70.75 | -11.6 | 59.1458 | 1 | | 52.2 | 0 | | -141 | -211.746 | |
| 1020 | 70.75 | -11.6 | 59.1458 | 0 | 1.032 | 52.2 | 0 | 0 | -140 | -211.746 | 1.032 |
| 1021 | 70.75 | -11.6 | 59.1458 | 0 | | 52.2 | 0 | | -140 | -210.746 | |
| 1022 | 70.75 | -11.6 | 59.1458 | 0 | | 52.2 | 0 | | -140 | -210.746 | |

end

CSCMatM483-Daily Data

| Time [day] | CumP*1 [cm] | sum(vTop [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc Daily T [L] | 10day T [mm] | sum(vBot) [L] | Cumm Dis [cm] | 10day ET [mm/10d] |
|------------|-------------|--------------|-------------|------------------|------------------|----------------------|--------------|---------------|---------------|-------------------|
| 650 | 33.63 | -0.145 | 33.4846 | 0 | 0 | 40.1 | 0 | -141 | -174.63 | 0 |
| 651 | 33.63 | -0.145 | 33.4846 | 0 | | 40.1 | 0 | -141 | -174.63 | |
| 652 | 33.83 | -0.292 | 33.4846 | 0 | | 40.1 | 0 | -142 | -174.63 | |
| 653 | 33.83 | -0.235 | 33.5408 | 0.562 | | 40.1 | 0 | -143 | -175.833 | |
| 654 | 33.83 | -0.226 | 33.5978 | 0.57 | | 40.1 | 0 | -144 | -176.833 | |
| 655 | 33.83 | -0.221 | 33.6068 | 0.09 | | 40.1 | 0 | -144 | -177.833 | |
| 656 | 33.83 | -0.218 | 33.6118 | 0.05 | | 40.1 | 0 | -145 | -177.833 | |
| 657 | 33.83 | -0.216 | 33.6148 | 0.03 | | 40.1 | 0 | -146 | -178.833 | |
| 658 | 33.83 | -0.214 | 33.6168 | 0.02 | | 40.1 | 0 | -147 | -179.833 | |
| 659 | 33.83 | -0.212 | 33.6188 | 0.02 | | 40.1 | 0 | -147 | -180.833 | |
| 660 | 33.83 | -0.211 | 33.6208 | 0.02 | 1.362 | 40.1 | 0 | -147 | -180.833 | 1.362 |
| 661 | 33.83 | -0.21 | 33.6218 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 662 | 33.83 | -0.209 | 33.6228 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 663 | 33.83 | -0.208 | 33.6238 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 664 | 33.83 | -0.207 | 33.6248 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 665 | 33.83 | -0.206 | 33.6258 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 666 | 33.83 | -0.205 | 33.6268 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 667 | 33.83 | -0.205 | 33.6278 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 668 | 33.83 | -0.204 | 33.6278 | 0 | | 40.1 | 0 | -147 | -180.833 | |
| 669 | 33.83 | -0.203 | 33.6288 | 0.01 | | 40.1 | 0 | -147 | -180.833 | |
| 670 | 33.83 | -0.203 | 33.6298 | 0.01 | 0.09 | 40.1 | 0 | -147 | -180.833 | 0.09 |
| 671 | 33.83 | -0.203 | 33.6298 | 0 | | 40.1 | 0 | -147 | -180.833 | |
| 672 | 33.83 | -0.202 | 33.6298 | 0 | | 40.1 | 0 | -146 | -180.833 | |
| 673 | 33.83 | -0.202 | 33.6308 | 0.01 | | 40.1 | 0 | -146 | -179.833 | |
| 674 | 33.83 | -0.201 | 33.6308 | 0 | | 40.1 | 0 | -146 | -179.833 | |
| 675 | 33.83 | -0.201 | 33.6318 | 0.01 | | 40.1 | 0 | -146 | -179.833 | |
| 676 | 33.83 | -0.2 | 33.6318 | 0 | | 40.1 | 0 | -146 | -179.833 | |
| 677 | 33.83 | -0.2 | 33.6328 | 0.01 | | 40.1 | 0 | -146 | -179.833 | |
| 678 | 33.83 | -0.2 | 33.6328 | 0 | | 40.1 | 0 | -145 | -179.833 | |
| 679 | 33.83 | -0.199 | 33.6328 | 0 | | 40.1 | 0 | -145 | -178.833 | |
| 680 | 33.83 | -0.199 | 33.6338 | 0.01 | 0.04 | 40.1 | 0 | -145 | -178.833 | 0.04 |
| 681 | 33.83 | -0.199 | 33.6338 | 0 | | 40.1 | 0 | -145 | -178.833 | |
| 682 | 33.83 | -0.199 | 33.6338 | 0 | | 40.1 | 0 | -146 | -178.833 | |
| 683 | 33.83 | -0.198 | 33.6338 | 0 | | 40.1 | 0 | -146 | -179.833 | |

| | | | | | | | | | | | |
|-----|-------|--------|---------|-------|-------|------|---|---|------|----------|-------|
| 684 | 33.83 | -0.198 | 33.6348 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 685 | 33.83 | -0.198 | 33.6348 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 686 | 33.83 | -0.198 | 33.6348 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 687 | 33.83 | -0.197 | 33.6348 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 688 | 33.83 | -0.197 | 33.6358 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 689 | 33.83 | -0.197 | 33.6358 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 690 | 33.83 | -0.197 | 33.6358 | 0 | 0.02 | 40.1 | 0 | 0 | -145 | -179.833 | 0.02 |
| 691 | 33.83 | -0.196 | 33.6358 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 692 | 33.83 | -0.196 | 33.6368 | 0.01 | | 40.1 | 0 | | -145 | -178.833 | |
| 693 | 33.83 | -0.196 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -178.833 | |
| 694 | 33.83 | -0.196 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 695 | 33.83 | -0.196 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 696 | 33.83 | -0.195 | 33.6368 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 697 | 33.83 | -0.195 | 33.6378 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 698 | 33.83 | -0.195 | 33.6378 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 699 | 33.83 | -0.195 | 33.6378 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 700 | 33.83 | -0.195 | 33.6378 | 0 | 0.02 | 40.1 | 0 | 0 | -146 | -179.833 | 0.02 |
| 701 | 33.83 | -0.195 | 33.6378 | 0 | | 40.1 | 0 | | -145 | -179.833 | |
| 702 | 33.83 | -0.194 | 33.6378 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 703 | 33.83 | -0.194 | 33.6388 | 0.01 | | 40.1 | 0 | | -145 | -178.833 | |
| 704 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 705 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 706 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 707 | 33.83 | -0.194 | 33.6388 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 708 | 33.83 | -0.193 | 33.6388 | 0 | | 40.1 | 0 | | -144 | -178.833 | |
| 709 | 33.83 | -0.193 | 33.6398 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 710 | 33.83 | -0.193 | 33.6398 | 0 | 0.02 | 40.1 | 0 | 0 | -144 | -177.833 | 0.02 |
| 711 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 712 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 713 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 714 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 715 | 33.83 | -0.193 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 716 | 33.83 | -0.192 | 33.6398 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 717 | 33.83 | -0.192 | 33.6408 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 718 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 719 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 720 | 33.83 | -0.192 | 33.6408 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 721 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 722 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 723 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 724 | 33.83 | -0.192 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 725 | 33.83 | -0.191 | 33.6408 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 726 | 33.83 | -0.191 | 33.6418 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 727 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 728 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 729 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 730 | 33.83 | -0.191 | 33.6418 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 731 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 732 | 33.83 | -0.191 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 733 | 34.44 | -0.52 | 33.6418 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 734 | 34.54 | -0.406 | 33.9224 | 2.806 | | 40.1 | 0 | | -144 | -178.442 | |
| 735 | 34.54 | -0.38 | 34.138 | 2.156 | | 40.1 | 0 | | -144 | -178.544 | |
| 736 | 34.54 | -0.366 | 34.164 | 0.26 | | 40.1 | 0 | | -144 | -178.544 | |
| 737 | 34.54 | -0.356 | 34.178 | 0.14 | | 40.1 | 0 | | -144 | -178.544 | |
| 738 | 34.54 | -0.349 | 34.188 | 0.1 | | 40.1 | 0 | | -144 | -178.544 | |
| 739 | 34.54 | -0.344 | 34.195 | 0.07 | | 40.1 | 0 | | -144 | -178.544 | |
| 740 | 34.54 | -0.339 | 34.2 | 0.05 | 5.582 | 40.1 | 0 | 0 | -144 | -178.544 | 5.582 |
| 741 | 34.54 | -0.335 | 34.205 | 0.05 | | 40.1 | 0 | | -144 | -178.544 | |
| 742 | 35.13 | -0.471 | 34.209 | 0.04 | | 40.1 | 0 | | -144 | -178.544 | |
| 743 | 35.15 | -0.394 | 34.6572 | 4.482 | | 40.1 | 0 | | -144 | -179.128 | |
| 744 | 35.15 | -0.38 | 34.7596 | 1.024 | | 40.1 | 0 | | -144 | -179.154 | |
| 745 | 35.15 | -0.371 | 34.7736 | 0.14 | | 40.1 | 0 | | -144 | -179.154 | |
| 746 | 35.15 | -0.365 | 34.7826 | 0.09 | | 40.1 | 0 | | -146 | -179.154 | |
| 747 | 35.15 | -0.36 | 34.7886 | 0.06 | | 40.1 | 0 | | -144 | -181.154 | |
| 748 | 35.15 | -0.356 | 34.7936 | 0.05 | | 40.1 | 0 | | -144 | -179.154 | |
| 749 | 35.15 | -0.352 | 34.7976 | 0.04 | | 40.1 | 0 | | -145 | -179.154 | |
| 750 | 35.15 | -0.349 | 34.8016 | 0.04 | 6.016 | 40.1 | 0 | 0 | -145 | -180.154 | 6.016 |

| | | | | | | | | | | | |
|-----|-------|--------|---------|------|-------|------|---|----|-------|----------|-------|
| 751 | 35.15 | -0.346 | 34.8046 | 0.03 | | 40.1 | 0 | | -145 | -180.154 | |
| 752 | 35.15 | -0.344 | 34.8076 | 0.03 | | 40.1 | 0 | | -145 | -180.154 | |
| 753 | 35.15 | -0.342 | 34.8096 | 0.02 | | 40.1 | 0 | | -144 | -180.154 | |
| 754 | 35.15 | -0.34 | 34.8116 | 0.02 | | 40.1 | 0 | | -143 | -179.154 | |
| 755 | 35.15 | -0.34 | 34.8136 | 0.02 | | 40.1 | 0 | | -144 | -178.154 | |
| 756 | 35.15 | -0.339 | 34.8136 | 0 | | 40.1 | 0 | | -144 | -179.154 | |
| 757 | 35.15 | -0.339 | 34.8146 | 0.01 | | 40.2 | 0 | | -145 | -179.154 | |
| 758 | 35.15 | -0.339 | 34.8146 | 0 | | 40.2 | 1 | | -146 | -180.154 | |
| 759 | 35.15 | -0.339 | 34.8146 | 0 | | 40.2 | 0 | | -146 | -181.154 | |
| 760 | 35.15 | -0.339 | 34.8146 | 0 | 0.13 | 40.2 | 0 | 1 | -146 | -181.154 | 1.13 |
| 761 | 35.15 | -0.339 | 34.8146 | 0 | | 40.2 | 0 | | -147 | -181.154 | |
| 762 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 763 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 1 | | -147 | -182.154 | |
| 764 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 765 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 766 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 767 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 768 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -148 | -182.154 | |
| 769 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -149 | -183.154 | |
| 770 | 35.15 | -0.339 | 34.8146 | 0 | 0 | 40.3 | 0 | 1 | -150 | -184.154 | 1 |
| 771 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -152 | -185.154 | |
| 772 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -153 | -187.154 | |
| 773 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -154 | -188.154 | |
| 774 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -155 | -189.154 | |
| 775 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -152 | -190.154 | |
| 776 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -150 | -187.154 | |
| 777 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -149 | -185.154 | |
| 778 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -147 | -184.154 | |
| 779 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -146 | -182.154 | |
| 780 | 35.15 | -0.339 | 34.8146 | 0 | 0 | 40.3 | 0 | 0 | -146 | -181.154 | 0 |
| 781 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -146 | -181.154 | |
| 782 | 35.15 | -0.339 | 34.8146 | 0 | | 40.3 | 0 | | -145 | -181.154 | |
| 783 | 38.55 | -2.77 | 34.8146 | 0 | | 40.3 | 0 | | -144 | -180.154 | |
| 784 | 38.55 | -2.08 | 35.7836 | 9.69 | | 40.4 | 0 | | -143 | -182.554 | |
| 785 | 38.55 | -1.93 | 36.4736 | 6.9 | | 40.4 | 1 | | -142 | -181.554 | |
| 786 | 38.55 | -1.85 | 36.6236 | 1.5 | | 40.5 | 0 | | -141 | -180.554 | |
| 787 | 38.55 | -1.81 | 36.7036 | 0.8 | | 40.6 | 1 | | -142 | -179.554 | |
| 788 | 38.55 | -1.79 | 36.7436 | 0.4 | | 40.7 | 1 | | -142 | -180.554 | |
| 789 | 38.55 | -1.77 | 36.7636 | 0.2 | | 40.8 | 1 | | -143 | -180.554 | |
| 790 | 38.55 | -1.76 | 36.7836 | 0.2 | 19.69 | 40.9 | 1 | 5 | -143 | -181.554 | 24.69 |
| 791 | 38.55 | -1.75 | 36.7936 | 0.1 | | 41 | 1 | | -143 | -181.554 | |
| 792 | 38.55 | -1.75 | 36.8036 | 0.1 | | 41.1 | 1 | | -143 | -181.554 | |
| 793 | 38.55 | -1.75 | 36.8036 | 0 | | 41.2 | 1 | | -143 | -181.554 | |
| 794 | 38.55 | -1.75 | 36.8036 | 0 | | 41.3 | 1 | | -143 | -181.554 | |
| 795 | 38.55 | -1.75 | 36.8036 | 0 | | 41.4 | 1 | | -143 | -181.554 | |
| 796 | 41.05 | -3.04 | 36.8036 | 0 | | 41.6 | 1 | | -144 | -181.554 | |
| 797 | 41.65 | -2.67 | 38.0136 | 12.1 | | 41.7 | 2 | | -140 | -185.054 | |
| 798 | 41.65 | -2.59 | 38.9836 | 9.7 | | 41.8 | 1 | | -135 | -181.654 | |
| 799 | 41.65 | -2.56 | 39.0636 | 0.8 | | 41.9 | 1 | | -133 | -176.654 | |
| 800 | 44.25 | -4.46 | 39.0936 | 0.3 | 23.1 | 42 | 1 | 11 | -132 | -174.654 | 34.1 |
| 801 | 44.25 | -3.89 | 39.7936 | 7 | | 42.1 | 1 | | -129 | -176.254 | |
| 802 | 44.25 | -3.74 | 40.3636 | 5.7 | | 42.4 | 1 | | -119 | -173.254 | |
| 803 | 44.25 | -3.69 | 40.5136 | 1.5 | | 42.5 | 3 | | -104 | -163.254 | |
| 804 | 44.25 | -3.67 | 40.5636 | 0.5 | | 42.7 | 1 | | -104 | -148.254 | |
| 805 | 44.25 | -3.66 | 40.5836 | 0.2 | | 42.9 | 2 | | -109 | -148.254 | |
| 806 | 44.25 | -3.65 | 40.5936 | 0.1 | | 43 | 2 | | -100 | -153.254 | |
| 807 | 44.25 | -3.65 | 40.6036 | 0.1 | | 43.2 | 1 | | -94 | -144.254 | |
| 808 | 46.25 | -4.84 | 40.6036 | 0 | | 43.4 | 2 | | -91.5 | -138.254 | |
| 809 | 46.25 | -4.42 | 41.4136 | 8.1 | | 43.6 | 2 | | -91.4 | -137.754 | |
| 810 | 46.25 | -4.37 | 41.8336 | 4.2 | 27.4 | 43.8 | 2 | 17 | -92.8 | -137.654 | 44.4 |
| 811 | 46.25 | -4.35 | 41.8836 | 0.5 | | 44 | 2 | | -95.7 | -139.054 | |
| 812 | 49.25 | -6.09 | 41.9036 | 0.2 | | 44.2 | 2 | | -97 | -141.954 | |
| 813 | 49.25 | -5.51 | 43.1636 | 12.6 | | 44.3 | 2 | | -98.6 | -146.254 | |
| 814 | 49.25 | -5.41 | 43.7436 | 5.8 | | 44.5 | 1 | | -99.4 | -147.854 | |
| 815 | 49.25 | -5.38 | 43.8436 | 1 | | 44.7 | 2 | | -104 | -148.654 | |
| 816 | 49.25 | -5.37 | 43.8736 | 0.3 | | 44.9 | 2 | | -109 | -153.254 | |
| 817 | 49.25 | -5.37 | 43.8836 | 0.1 | | 45.1 | 2 | | -115 | -158.254 | |

| | | | | | | | | | | | |
|-----|-------|-------|---------|-------|--------|------|---|----|------|----------|--------|
| 818 | 49.25 | -5.37 | 43.8836 | 0 | | 45.3 | 2 | | -120 | -164.254 | |
| 819 | 49.25 | -5.37 | 43.8836 | 0 | | 45.4 | 2 | | -124 | -169.254 | |
| 820 | 49.25 | -5.37 | 43.8836 | 0 | 20.5 | 45.5 | 1 | 18 | -127 | -173.254 | 38.5 |
| 821 | 49.25 | -5.37 | 43.8836 | 0 | | 45.6 | 1 | | -131 | -176.254 | |
| 822 | 49.25 | -5.37 | 43.8836 | 0 | | 45.6 | 1 | | -134 | -180.254 | |
| 823 | 49.25 | -5.37 | 43.8836 | 0 | | 45.6 | 0 | | -135 | -183.254 | |
| 824 | 51.65 | -6.85 | 43.8836 | 0 | | 45.7 | 0 | | -136 | -184.254 | |
| 825 | 52.45 | -6.97 | 44.8036 | 9.2 | | 45.8 | 1 | | -137 | -187.654 | |
| 826 | 52.45 | -6.67 | 45.4836 | 6.8 | | 45.9 | 1 | | -136 | -189.454 | |
| 827 | 52.45 | -6.61 | 45.7836 | 3 | | 46.1 | 1 | | -133 | -188.454 | |
| 828 | 52.45 | -6.59 | 45.8436 | 0.6 | | 46.2 | 2 | | -132 | -185.454 | |
| 829 | 52.45 | -6.59 | 45.8636 | 0.2 | | 46.4 | 1 | | -132 | -184.454 | |
| 830 | 52.45 | -6.59 | 45.8636 | 0 | 19.8 | 46.6 | 2 | 10 | -132 | -184.454 | 29.8 |
| 831 | 52.45 | -6.59 | 45.8636 | 0 | | 46.7 | 2 | | -134 | -184.454 | |
| 832 | 52.45 | -6.59 | 45.8636 | 0 | | 46.8 | 1 | | -137 | -186.454 | |
| 833 | 52.45 | -6.59 | 45.8636 | 0 | | 46.9 | 1 | | -138 | -189.454 | |
| 834 | 52.45 | -6.59 | 45.8636 | 0 | | 46.9 | 1 | | -139 | -190.454 | |
| 835 | 52.45 | -6.59 | 45.8636 | 0 | | 46.9 | 0 | | -140 | -191.454 | |
| 836 | 52.61 | -6.59 | 45.8636 | 0 | | 46.9 | 0 | | -141 | -192.454 | |
| 837 | 52.61 | -6.59 | 46.016 | 1.524 | | 46.9 | 0 | | -142 | -193.606 | |
| 838 | 52.61 | -6.59 | 46.016 | 0 | | 46.9 | 0 | | -143 | -194.606 | |
| 839 | 52.61 | -6.59 | 46.016 | 0 | | 46.9 | 0 | | -144 | -195.606 | |
| 840 | 52.61 | -6.59 | 46.016 | 0 | 1.524 | 47 | 0 | 5 | -144 | -196.606 | 6.524 |
| 841 | 52.61 | -6.59 | 46.016 | 0 | | 47 | 1 | | -145 | -196.606 | |
| 842 | 52.63 | -6.59 | 46.016 | 0 | | 47 | 0 | | -146 | -197.606 | |
| 843 | 52.68 | -6.59 | 46.0414 | 0.254 | | 47 | 0 | | -146 | -198.631 | |
| 844 | 52.73 | -6.59 | 46.0922 | 0.508 | | 47 | 0 | | -146 | -198.682 | |
| 845 | 52.73 | -6.59 | 46.143 | 0.508 | | 47 | 0 | | -145 | -198.733 | |
| 846 | 52.73 | -6.59 | 46.143 | 0 | | 47 | 0 | | -145 | -197.733 | |
| 847 | 53.27 | -6.59 | 46.143 | 0 | | 47 | 0 | | -145 | -197.733 | |
| 848 | 53.27 | -6.59 | 46.6764 | 5.334 | | 47 | 0 | | -145 | -198.266 | |
| 849 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -145 | -198.266 | |
| 850 | 53.27 | -6.59 | 46.6764 | 0 | 6.604 | 47 | 0 | 1 | -146 | -198.266 | 7.604 |
| 851 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -146 | -199.266 | |
| 852 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -146 | -199.266 | |
| 853 | 53.27 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -146 | -199.266 | |
| 854 | 53.29 | -6.59 | 46.6764 | 0 | | 47 | 0 | | -147 | -199.266 | |
| 855 | 53.32 | -6.59 | 46.7018 | 0.254 | | 47 | 0 | | -147 | -200.292 | |
| 856 | 56.12 | -8.55 | 46.7272 | 0.254 | | 47.1 | 0 | | -146 | -200.317 | |
| 857 | 56.12 | -8.01 | 47.5706 | 8.434 | | 47.3 | 1 | | -145 | -202.121 | |
| 858 | 56.12 | -7.92 | 48.1106 | 5.4 | | 47.5 | 2 | | -143 | -201.121 | |
| 859 | 56.12 | -7.89 | 48.2006 | 0.9 | | 47.6 | 2 | | -143 | -199.121 | |
| 860 | 56.12 | -7.88 | 48.2306 | 0.3 | 15.542 | 47.8 | 1 | 6 | -143 | -199.121 | 21.542 |
| 861 | 56.89 | -7.88 | 48.2406 | 0.1 | | 48 | 2 | | -143 | -199.121 | |
| 862 | 56.89 | -7.88 | 49.0106 | 7.7 | | 48.2 | 2 | | -144 | -199.891 | |
| 863 | 56.89 | -7.88 | 49.0106 | 0 | | 48.3 | 2 | | -146 | -200.891 | |
| 864 | 56.89 | -7.88 | 49.0106 | 0 | | 48.4 | 1 | | -147 | -202.891 | |
| 865 | 56.89 | -7.88 | 49.0106 | 0 | | 48.4 | 1 | | -148 | -203.891 | |
| 866 | 56.94 | -7.88 | 49.0106 | 0 | | 48.4 | 0 | | -148 | -204.891 | |
| 867 | 56.94 | -7.88 | 49.0614 | 0.508 | | 48.4 | 0 | | -149 | -204.941 | |
| 868 | 56.94 | -7.88 | 49.0614 | 0 | | 48.4 | 0 | | -150 | -205.941 | |
| 869 | 56.97 | -7.88 | 49.0614 | 0 | | 48.4 | 0 | | -151 | -206.941 | |
| 870 | 56.97 | -7.88 | 49.0868 | 0.254 | 8.562 | 48.4 | 0 | 8 | -151 | -207.967 | 16.562 |
| 871 | 56.97 | -7.88 | 49.0868 | 0 | | 48.4 | 0 | | -152 | -207.967 | |
| 872 | 57.25 | -7.88 | 49.0868 | 0 | | 48.4 | 0 | | -151 | -208.967 | |
| 873 | 57.32 | -7.88 | 49.3662 | 2.794 | | 48.4 | 0 | | -148 | -208.246 | |
| 874 | 57.81 | -7.88 | 49.4424 | 0.762 | | 48.4 | 0 | | -142 | -205.322 | |
| 875 | 58.8 | -8.28 | 49.925 | 4.826 | | 48.5 | 0 | | -120 | -199.805 | |
| 876 | 58.8 | -8.15 | 50.5156 | 5.906 | | 48.6 | 1 | | -119 | -178.796 | |
| 877 | 59.89 | -8.35 | 50.6456 | 1.3 | | 48.6 | 1 | | -124 | -177.796 | |
| 878 | 59.94 | -8.26 | 51.5378 | 8.922 | | 48.7 | 0 | | -127 | -183.888 | |
| 879 | 61.99 | -9.75 | 51.6786 | 1.408 | | 48.8 | 1 | | -127 | -186.939 | |
| 880 | 62.09 | -9.34 | 52.2366 | 5.58 | 31.498 | 48.9 | 1 | 4 | -119 | -188.987 | 35.498 |
| 881 | 63.13 | -9.88 | 52.7482 | 5.116 | | 49.1 | 1 | | -113 | -181.088 | |
| 882 | 63.13 | -9.58 | 53.2482 | 5 | | 49.3 | 2 | | -118 | -176.128 | |
| 883 | 63.15 | -9.54 | 53.5482 | 3 | | 49.4 | 2 | | -121 | -181.128 | |
| 884 | 63.15 | -9.53 | 53.6136 | 0.654 | | 49.6 | 1 | | -125 | -184.154 | |

| | | | | | | | | | | | |
|-----|-------|-------|---------|-------|--------|------|---|----|------|----------|--------|
| 885 | 63.15 | -9.53 | 53.6236 | 0.1 | | 49.8 | 2 | | -127 | -188.154 | |
| 886 | 63.15 | -9.53 | 53.6236 | 0 | | 50 | 2 | | -129 | -190.154 | |
| 887 | 63.15 | -9.53 | 53.6236 | 0 | | 50.1 | 2 | | -131 | -192.154 | |
| 888 | 63.74 | -9.53 | 53.6236 | 0 | | 50.1 | 1 | | -133 | -194.154 | |
| 889 | 63.89 | -9.53 | 54.2078 | 5.842 | | 50.1 | 0 | | -134 | -196.738 | |
| 890 | 63.89 | -9.53 | 54.3602 | 1.524 | 21.236 | 50.1 | 0 | 13 | -135 | -197.89 | 34.236 |
| 891 | 63.89 | -9.53 | 54.3602 | 0 | | 50.1 | 0 | | -137 | -198.89 | |
| 892 | 65.56 | -10.2 | 54.3602 | 0 | | 50.2 | 0 | | -138 | -200.89 | |
| 893 | 65.56 | -9.97 | 55.3602 | 10 | | 50.3 | 1 | | -139 | -203.56 | |
| 894 | 65.61 | -9.96 | 55.5902 | 2.3 | | 50.4 | 1 | | -139 | -204.56 | |
| 895 | 65.61 | -9.96 | 55.651 | 0.608 | | 50.5 | 1 | | -140 | -204.611 | |
| 896 | 65.61 | -9.96 | 55.651 | 0 | | 50.6 | 1 | | -141 | -205.611 | |
| 897 | 65.66 | -9.96 | 55.651 | 0 | | 50.6 | 1 | | -142 | -206.611 | |
| 898 | 65.66 | -9.96 | 55.7018 | 0.508 | | 50.6 | 0 | | -142 | -207.662 | |
| 899 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -142 | -207.662 | |
| 900 | 65.66 | -9.96 | 55.7018 | 0 | 13.416 | 50.6 | 0 | 5 | -142 | -207.662 | 18.416 |
| 901 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -143 | -207.662 | |
| 902 | 65.66 | -9.96 | 55.7018 | 0 | | 50.6 | 0 | | -143 | -208.662 | |
| 903 | 67.8 | -11.6 | 55.7018 | 0 | | 50.6 | 0 | | -144 | -208.662 | |
| 904 | 67.8 | -11.1 | 56.1954 | 4.936 | | 50.9 | 0 | | -144 | -211.795 | |
| 905 | 67.8 | -11.1 | 56.6954 | 5 | | 51 | 3 | | -143 | -211.795 | |
| 906 | 67.8 | -11.1 | 56.6954 | 0 | | 51.1 | 1 | | -143 | -210.795 | |
| 907 | 67.8 | -11.1 | 56.6954 | 0 | | 51.3 | 1 | | -144 | -210.795 | |
| 908 | 67.8 | -11.1 | 56.6954 | 0 | | 51.4 | 2 | | -144 | -211.795 | |
| 909 | 67.8 | -11.1 | 56.6954 | 0 | | 51.5 | 1 | | -145 | -211.795 | |
| 910 | 67.8 | -11.1 | 56.6954 | 0 | 9.936 | 51.6 | 1 | 9 | -145 | -212.795 | 18.936 |
| 911 | 67.8 | -11.1 | 56.6954 | 0 | | 51.7 | 1 | | -145 | -212.795 | |
| 912 | 67.8 | -11.1 | 56.6954 | 0 | | 51.7 | 1 | | -146 | -212.795 | |
| 913 | 68.38 | -11.2 | 56.6954 | 0 | | 51.7 | 0 | | -146 | -213.795 | |
| 914 | 68.38 | -11.1 | 57.1796 | 4.842 | | 51.8 | 0 | | -146 | -214.38 | |
| 915 | 68.38 | -11.1 | 57.2796 | 1 | | 51.8 | 1 | | -146 | -214.38 | |
| 916 | 68.51 | -11.1 | 57.2796 | 0 | | 51.8 | 0 | | -146 | -214.38 | |
| 917 | 68.79 | -11.1 | 57.4066 | 1.27 | | 51.8 | 0 | | -145 | -214.507 | |
| 918 | 69.62 | -11.3 | 57.686 | 2.794 | | 51.8 | 0 | | -145 | -213.786 | |
| 919 | 69.62 | -11.3 | 58.3242 | 6.382 | | 51.9 | 0 | | -144 | -214.624 | |
| 920 | 69.62 | -11.3 | 58.3242 | 0 | 16.288 | 51.9 | 1 | 4 | -144 | -213.624 | 20.288 |
| 921 | 69.62 | -11.3 | 58.3242 | 0 | | 52 | 0 | | -144 | -213.624 | |
| 922 | 69.62 | -11.3 | 58.3242 | 0 | | 52 | 1 | | -144 | -213.624 | |
| 923 | 69.75 | -11.3 | 58.3242 | 0 | | 52 | 0 | | -145 | -213.624 | |
| 924 | 69.75 | -11.3 | 58.4512 | 1.27 | | 52 | 0 | | -144 | -214.751 | |
| 925 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -144 | -213.751 | |
| 926 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -144 | -213.751 | |
| 927 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -145 | -213.751 | |
| 928 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -146 | -214.751 | |
| 929 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -146 | -215.751 | |
| 930 | 69.75 | -11.3 | 58.4512 | 0 | 1.27 | 52 | 0 | 1 | -147 | -215.751 | 2.27 |
| 931 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -147 | -216.751 | |
| 932 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -147 | -216.751 | |
| 933 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -148 | -216.751 | |
| 934 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -148 | -217.751 | |
| 935 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -148 | -217.751 | |
| 936 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -149 | -217.751 | |
| 937 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -149 | -218.751 | |
| 938 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -149 | -218.751 | |
| 939 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -218.751 | |
| 940 | 69.75 | -11.3 | 58.4512 | 0 | 0 | 52 | 0 | 0 | -150 | -219.751 | 0 |
| 941 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 942 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 943 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 944 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 945 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 946 | 69.75 | -11.3 | 58.4512 | 0 | | 52 | 0 | | -150 | -219.751 | |
| 947 | 70.28 | -11.7 | 58.4512 | 0 | | 52 | 0 | | -149 | -219.751 | |
| 948 | 70.28 | -11.6 | 58.5846 | 1.334 | | 52.1 | 0 | | -148 | -219.285 | |
| 949 | 70.28 | -11.5 | 58.6846 | 1 | | 52.1 | 1 | | -147 | -218.285 | |
| 950 | 70.28 | -11.5 | 58.7846 | 1 | 3.334 | 52.2 | 0 | 1 | -146 | -217.285 | 4.334 |
| 951 | 70.28 | -11.5 | 58.7846 | 0 | | 52.2 | 1 | | -145 | -216.285 | |

| | | | | | | | | | | | |
|------|-------|-------|---------|-------|------|------|------|----------|------|----------|------|
| 952 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -144 | -215.285 | | | |
| 953 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -144 | -214.285 | | | |
| 954 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -144 | -214.285 | | | |
| 955 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -144 | -214.285 | | | |
| 956 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -144 | -214.285 | | | |
| 957 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -144 | -214.285 | | | |
| 958 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -145 | -214.285 | | | |
| 959 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -145 | -215.285 | | | |
| 960 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 1 | -146 | -215.285 | 1 |
| 961 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -145 | -216.285 | | | |
| 962 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -145 | -215.285 | | | |
| 963 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -144 | -215.285 | | | |
| 964 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -143 | -214.285 | | | |
| 965 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -213.285 | | | |
| 966 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 967 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 968 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 969 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -212.285 | | | |
| 970 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 0 | -141 | -211.285 | 0 |
| 971 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 972 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 973 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 974 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 975 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -211.285 | | | |
| 976 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 977 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 978 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 979 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 980 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 0 | -142 | -212.285 | 0 |
| 981 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -212.285 | | | |
| 982 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 983 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 984 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -211.285 | | | |
| 985 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 986 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 987 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 988 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 989 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -142 | -212.285 | | | |
| 990 | 70.28 | -11.5 | 58.7846 | 0 | 0 | 52.2 | 0 | 0 | -142 | -212.285 | 0 |
| 991 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -212.285 | | | |
| 992 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 993 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 994 | 70.28 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 995 | 70.36 | -11.5 | 58.7846 | 0 | 52.2 | 0 | -141 | -211.285 | | | |
| 996 | 70.36 | -11.5 | 58.8646 | 0.8 | 52.2 | 0 | -141 | -211.365 | | | |
| 997 | 70.36 | -11.5 | 58.8646 | 0 | 52.2 | 0 | -141 | -211.365 | | | |
| 998 | 70.36 | -11.5 | 58.8646 | 0 | 52.2 | 0 | -140 | -211.365 | | | |
| 999 | 70.54 | -11.5 | 58.8646 | 0 | 52.2 | 0 | -141 | -210.365 | | | |
| 1000 | 70.54 | -11.5 | 59.0426 | 1.78 | 2.58 | 52.2 | 0 | 0 | -141 | -211.543 | 2.58 |
| 1001 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1002 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1003 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -142 | -211.543 | | | |
| 1004 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -142 | -212.543 | | | |
| 1005 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -142 | -212.543 | | | |
| 1006 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -142 | -212.543 | | | |
| 1007 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -142 | -212.543 | | | |
| 1008 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -142 | -212.543 | | | |
| 1009 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -142 | -212.543 | | | |
| 1010 | 70.54 | -11.5 | 59.0426 | 0 | 0 | 52.2 | 0 | 0 | -141 | -212.543 | 0 |
| 1011 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1012 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1013 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1014 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1015 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1016 | 70.54 | -11.5 | 59.0426 | 0 | 52.2 | 0 | -141 | -211.543 | | | |
| 1017 | 70.75 | -11.7 | 59.0426 | 0 | 52.2 | 0 | -140 | -211.543 | | | |
| 1018 | 70.75 | -11.6 | 59.0458 | 0.032 | 52.2 | 0 | -141 | -210.746 | | | |

| | | | | | | | | | | | |
|------|-------|-------|---------|---|-------|------|---|---|------|----------|-------|
| 1019 | 70.75 | -11.6 | 59.1458 | 1 | | 52.2 | 0 | | -141 | -211.746 | |
| 1020 | 70.75 | -11.6 | 59.1458 | 0 | 1.032 | 52.2 | 0 | 0 | -140 | -211.746 | 1.032 |
| 1021 | 70.75 | -11.6 | 59.1458 | 0 | | 52.2 | 0 | | -140 | -210.746 | |
| 1022 | 70.75 | -11.6 | 59.1458 | 0 | | 52.2 | 0 | | -140 | -210.746 | |

end

Appendix C.6. South Saltcedar Models Results

C-82

Key:
 CumP = Cumulative Precipitation, sum(vTop) = gross cumulative surface flux, Daily E = daily evaporation,
 10 day E = sum of previous 10 "Daily E" values, sum(vRoot) = cumulative root uptake, Daily T = daily transpiration
 10 day T = sum of previous 10 "Daily T" values, Cumm Dis = cumulative net groundwater discharge,
 10day ET = sum of "10day E" and 10day T' values ***NOTE: OUTPUT RESULTS DAYS 657-1022 = 1999 days 1-365**

| | | SCSMat | | ET=128.713 [92T,36.713E] | | ERROR= -2.89% | | | | | |
|-------|-------|---------------|--------|---------------------------------|----------|----------------------|---------|----------|-----------|----------|----------|
| Time | CumP | sum(vTop) | Cumm E | Daily E | 10day E | sum(vRoc) | Daily T | 10day T | sum(vBot) | Cumm Dis | 10day ET |
| [day] | [cm] | [L] | [cm] | [mm/day] | [mm/10d] | [L] | [mm] | [mm/10d] | [L] | [cm] | [mm/10d] |
| 1 | 0 | 0.361 | 0.361 | 3.61 | | 0 | 0 | | 0.409 | 0.409 | |
| 2 | 0 | 0.638 | 0.361 | 0 | | 0 | 0 | | 0.775 | 0.409 | |
| 3 | 0.61 | 0.308 | 0.638 | 2.77 | | 0 | 0 | | 1.12 | 0.775 | |
| 4 | 0.711 | 0.459 | 0.9176 | 2.796 | | 0 | 0 | | 1.43 | 0.5104 | |
| 5 | 0.711 | 0.963 | 1.1702 | 2.526 | | 0 | 0 | | 1.73 | 0.7188 | |
| 6 | 0.711 | 1.34 | 1.6742 | 5.04 | | 0 | 0 | | 2.01 | 1.0188 | |
| 7 | 0.711 | 1.63 | 2.0512 | 3.77 | | 0 | 0 | | 2.27 | 1.2988 | |
| 8 | 0.711 | 1.88 | 2.3412 | 2.9 | | 0 | 0 | | 2.51 | 1.5588 | |
| 9 | 0.711 | 2.11 | 2.5912 | 2.5 | | 0 | 0 | | 2.74 | 1.7988 | |
| 10 | 0.711 | 2.33 | 2.8212 | 2.3 | 28.212 | 0 | 0 | 0 | 2.95 | 2.0288 | 28.212 |
| 11 | 0.711 | 2.53 | 3.0412 | 2.2 | | 0 | 0 | | 3.16 | 2.2388 | |
| 12 | 1.295 | 2.39 | 3.2412 | 2 | | 0 | 0 | | 3.35 | 2.4488 | |
| 13 | 1.321 | 2.78 | 3.6854 | 4.442 | | 0 | 0 | | 3.53 | 2.0546 | |
| 14 | 1.321 | 2.99 | 4.1008 | 4.154 | | 0 | 0 | | 3.7 | 2.2092 | |
| 15 | 1.321 | 3.17 | 4.3108 | 2.1 | | 0 | 0 | | 3.88 | 2.3792 | |
| 16 | 1.321 | 3.34 | 4.4908 | 1.8 | | 0 | 0 | | 3.95 | 2.5592 | |
| 17 | 1.321 | 3.5 | 4.6608 | 1.7 | | 0 | 0 | | 4.12 | 2.6292 | |
| 18 | 1.321 | 3.65 | 4.8208 | 1.6 | | 0 | 0 | | 4.27 | 2.7992 | |
| 19 | 1.321 | 3.8 | 4.9708 | 1.5 | | 0 | 0 | | 4.38 | 2.9492 | |
| 20 | 1.321 | 3.94 | 5.1208 | 1.5 | 22.996 | 0 | 0 | 0 | 4.49 | 3.0592 | 22.996 |
| 21 | 1.321 | 4.08 | 5.2608 | 1.4 | | 0 | 0 | | 4.61 | 3.1692 | |
| 22 | 1.321 | 4.21 | 5.4008 | 1.4 | | 0 | 0 | | 4.73 | 3.2892 | |
| 23 | 1.321 | 4.34 | 5.5308 | 1.3 | | 0.116 | 0 | | 4.89 | 3.4092 | |
| 24 | 1.321 | 4.45 | 5.6608 | 1.3 | | 0.24 | 1.16 | | 5.06 | 3.5692 | |
| 25 | 1.321 | 4.56 | 5.7708 | 1.1 | | 0.345 | 1.24 | | 5.21 | 3.7392 | |
| 26 | 1.321 | 4.67 | 5.8808 | 1.1 | | 0.46 | 1.05 | | 5.35 | 3.8892 | |
| 27 | 1.321 | 4.77 | 5.9908 | 1.1 | | 0.629 | 1.15 | | 5.44 | 4.0292 | |
| 28 | 1.321 | 4.86 | 6.0908 | 1 | | 0.71 | 1.69 | | 5.5 | 4.1192 | |
| 29 | 1.321 | 4.96 | 6.1808 | 0.9 | | 0.816 | 0.81 | | 5.56 | 4.1792 | |
| 30 | 1.321 | 5.05 | 6.2808 | 1 | 11.6 | 0.923 | 1.06 | 8.16 | 5.61 | 4.2392 | 19.76 |
| 31 | 1.321 | 5.13 | 6.3708 | 0.9 | | 1.09 | 1.07 | | 5.67 | 4.2892 | |
| 32 | 1.321 | 5.21 | 6.4508 | 0.8 | | 1.28 | 1.67 | | 5.72 | 4.3492 | |
| 33 | 1.321 | 5.29 | 6.5308 | 0.8 | | 1.38 | 1.9 | | 5.77 | 4.3992 | |
| 34 | 1.321 | 5.36 | 6.6108 | 0.8 | | 1.51 | 1 | | 5.83 | 4.4492 | |
| 35 | 1.321 | 5.43 | 6.6808 | 0.7 | | 1.67 | 1.3 | | 5.89 | 4.5092 | |
| 36 | 1.321 | 5.5 | 6.7508 | 0.7 | | 1.79 | 1.6 | | 5.96 | 4.5692 | |
| 37 | 1.321 | 5.57 | 6.8208 | 0.7 | | 1.97 | 1.2 | | 6.02 | 4.6392 | |
| 38 | 1.321 | 5.63 | 6.8908 | 0.7 | | 2.1 | 1.8 | | 6.07 | 4.6992 | |
| 39 | 1.321 | 5.69 | 6.9508 | 0.6 | | 2.32 | 1.3 | | 6.09 | 4.7492 | |
| 40 | 1.321 | 5.75 | 7.0108 | 0.6 | 7.3 | 2.52 | 2.2 | 15.04 | 6.07 | 4.7692 | 22.34 |
| 41 | 1.321 | 5.8 | 7.0708 | 0.6 | | 2.62 | 2 | | 6.01 | 4.7492 | |
| 42 | 1.321 | 5.85 | 7.1208 | 0.5 | | 2.78 | 1 | | 5.91 | 4.6892 | |
| 43 | 1.321 | 5.9 | 7.1708 | 0.5 | | 3.07 | 1.6 | | 5.8 | 4.5892 | |
| 44 | 1.321 | 5.95 | 7.2208 | 0.5 | | 3.28 | 2.9 | | 5.68 | 4.4792 | |
| 45 | 1.321 | 5.99 | 7.2708 | 0.5 | | 3.39 | 2.1 | | 5.67 | 4.3592 | |
| 46 | 1.321 | 6.03 | 7.3108 | 0.4 | | 3.61 | 1.1 | | 5.76 | 4.3492 | |
| 47 | 1.321 | 6.07 | 7.3508 | 0.4 | | 3.84 | 2.2 | | 5.89 | 4.4392 | |
| 48 | 1.321 | 6.11 | 7.3908 | 0.4 | | 4 | 2.3 | | 6.08 | 4.5692 | |
| 49 | 1.321 | 6.14 | 7.4308 | 0.4 | | 4.25 | 1.6 | | 6.3 | 4.7592 | |
| 50 | 1.321 | 6.17 | 7.4608 | 0.3 | 4.5 | 4.49 | 2.5 | 19.3 | 6.52 | 4.9792 | 23.8 |
| 51 | 1.321 | 6.2 | 7.4908 | 0.3 | | 4.75 | 2.4 | | 6.75 | 5.1992 | |
| 52 | 1.321 | 6.22 | 7.5208 | 0.3 | | 5.03 | 2.6 | | 7 | 5.4292 | |
| 53 | 1.321 | 6.25 | 7.5408 | 0.2 | | 5.3 | 2.8 | | 7.3 | 5.6792 | |

| | | | | | | | | | | | |
|-----|-------|------|--------|-------|-------|------|-----|------|---------|--------|------|
| 54 | 1.321 | 6.27 | 7.5708 | 0.3 | | 5.52 | 2.7 | 7.63 | 5.9792 | | C-83 |
| 55 | 1.321 | 6.28 | 7.5908 | 0.2 | | 5.78 | 2.2 | 7.97 | 6.3092 | | |
| 56 | 1.321 | 6.3 | 7.6008 | 0.1 | | 6.02 | 2.6 | 8.32 | 6.6492 | | |
| 57 | 1.321 | 6.31 | 7.6208 | 0.2 | | 6.33 | 2.4 | 8.65 | 6.9992 | | |
| 58 | 1.321 | 6.33 | 7.6308 | 0.1 | | 6.54 | 3.1 | 8.96 | 7.3292 | | |
| 59 | 1.321 | 6.34 | 7.6508 | 0.2 | | 6.87 | 2.1 | 9.23 | 7.6392 | | |
| 60 | 1.321 | 6.34 | 7.6608 | 0.1 | 2 | 7.22 | 3.3 | 9.48 | 7.9092 | 28.2 | |
| 61 | 1.321 | 6.35 | 7.6608 | 0 | | 7.6 | 3.5 | 9.74 | 8.1592 | | |
| 62 | 1.321 | 6.35 | 7.6708 | 0.1 | | 7.97 | 3.8 | 10 | 8.4192 | | |
| 63 | 1.321 | 6.35 | 7.6708 | 0 | | 8.34 | 3.7 | 10.3 | 8.6792 | | |
| 64 | 1.321 | 6.35 | 7.6708 | 0 | | 8.74 | 3.7 | 10.5 | 8.9792 | | |
| 65 | 1.321 | 6.35 | 7.6708 | 0 | | 9.14 | 4 | 10.8 | 9.1792 | | |
| 66 | 1.321 | 6.35 | 7.6708 | 0 | | 9.61 | 4 | 11 | 9.4792 | | |
| 67 | 1.321 | 6.35 | 7.6708 | 0 | | 10 | 4.7 | 11.4 | 9.6792 | | |
| 68 | 1.321 | 6.35 | 7.6708 | 0 | | 10.5 | 3.9 | 12 | 10.0792 | | |
| 69 | 1.321 | 6.35 | 7.6708 | 0 | | 11 | 5 | 12.6 | 10.6792 | | |
| 70 | 1.676 | 6.35 | 7.6708 | 0 | 0.1 | 11.4 | 5 | 13.2 | 11.2792 | 41.4 | |
| 71 | 2.337 | 6.31 | 8.0264 | 3.556 | | 11.8 | 4 | 14 | 11.5236 | | |
| 72 | 2.337 | 6.32 | 8.6468 | 6.204 | | 12.6 | 4 | 15.1 | 11.6632 | | |
| 73 | 2.337 | 6.32 | 8.6568 | 0.1 | | 13 | 8 | 16.6 | 12.7632 | | |
| 74 | 2.337 | 6.32 | 8.6568 | 0 | | 13.6 | 4 | 18 | 14.2632 | | |
| 75 | 2.388 | 6.32 | 8.6568 | 0 | | 13.9 | 6 | 19.1 | 15.6632 | | |
| 76 | 2.464 | 6.32 | 8.7076 | 0.508 | | 14.4 | 3 | 20.5 | 16.7124 | | |
| 77 | 2.464 | 6.32 | 8.7838 | 0.762 | | 14.8 | 5 | 22 | 18.0362 | | |
| 78 | 2.464 | 6.32 | 8.7838 | 0 | | 15.1 | 4 | 23.4 | 19.5362 | | |
| 79 | 2.464 | 6.32 | 8.7838 | 0 | | 15.5 | 3 | 24.6 | 20.9362 | | |
| 80 | 2.464 | 6.32 | 8.7838 | 0 | 11.13 | 15.8 | 4 | 25.6 | 22.1362 | 56.13 | |
| 81 | 2.464 | 6.32 | 8.7838 | 0 | | 16.1 | 3 | 26.5 | 23.1362 | | |
| 82 | 2.464 | 6.32 | 8.7838 | 0 | | 16.5 | 3 | 27.4 | 24.0362 | | |
| 83 | 2.464 | 6.32 | 8.7838 | 0 | | 16.7 | 4 | 28.2 | 24.9362 | | |
| 84 | 2.464 | 6.32 | 8.7838 | 0 | | 17 | 2 | 28.9 | 25.7362 | | |
| 85 | 2.464 | 6.32 | 8.7838 | 0 | | 17.3 | 3 | 29.6 | 26.4362 | | |
| 86 | 2.464 | 6.32 | 8.7838 | 0 | | 17.7 | 3 | 30 | 27.1362 | | |
| 87 | 2.464 | 6.32 | 8.7838 | 0 | | 18.2 | 4 | 30.4 | 27.5362 | | |
| 88 | 2.464 | 6.32 | 8.7838 | 0 | | 18.7 | 5 | 30.6 | 27.9362 | | |
| 89 | 2.464 | 6.32 | 8.7838 | 0 | | 19.2 | 5 | 30.7 | 28.1362 | | |
| 90 | 2.464 | 6.32 | 8.7838 | 0 | 0 | 19.8 | 5 | 30.8 | 28.2362 | 37 | |
| 91 | 2.464 | 6.32 | 8.7838 | 0 | | 20.2 | 6 | 30.8 | 28.3362 | | |
| 92 | 2.464 | 6.32 | 8.7838 | 0 | | 20.7 | 4 | 30.8 | 28.3362 | | |
| 93 | 2.464 | 6.32 | 8.7838 | 0 | | 21.4 | 5 | 30.8 | 28.3362 | | |
| 94 | 2.464 | 6.32 | 8.7838 | 0 | | 21.9 | 7 | 30.9 | 28.3362 | | |
| 95 | 2.819 | 6.32 | 8.7838 | 0 | | 22.4 | 5 | 30.9 | 28.4362 | | |
| 96 | 2.819 | 6.32 | 9.1394 | 3.556 | | 22.9 | 5 | 31 | 28.0806 | | |
| 97 | 2.819 | 6.32 | 9.1394 | 0 | | 23.4 | 5 | 31.3 | 28.1806 | | |
| 98 | 2.819 | 6.32 | 9.1394 | 0 | | 24.1 | 5 | 31.6 | 28.4806 | | |
| 99 | 2.819 | 6.32 | 9.1394 | 0 | | 24.6 | 7 | 31.9 | 28.7806 | | |
| 100 | 2.819 | 6.32 | 9.1394 | 0 | 3.556 | 25.3 | 5 | 32.2 | 29.0806 | 57.556 | |
| 101 | 2.819 | 6.32 | 9.1394 | 0 | | 26.1 | 7 | 32.5 | 29.3806 | | |
| 102 | 2.819 | 6.32 | 9.1394 | 0 | | 26.8 | 8 | 32.6 | 29.6806 | | |
| 103 | 2.819 | 6.32 | 9.1394 | 0 | | 27.5 | 7 | 32.8 | 29.7806 | | |
| 104 | 2.819 | 6.32 | 9.1394 | 0 | | 28.2 | 7 | 32.9 | 29.9806 | | |
| 105 | 2.819 | 6.32 | 9.1394 | 0 | | 28.9 | 7 | 33 | 30.0806 | | |
| 106 | 2.972 | 6.32 | 9.1394 | 0 | | 29.7 | 7 | 33.1 | 30.1806 | | |
| 107 | 2.972 | 6.32 | 9.2918 | 1.524 | | 30.6 | 8 | 33.2 | 30.1282 | | |
| 108 | 2.972 | 6.32 | 9.2918 | 0 | | 31.4 | 9 | 33.4 | 30.2282 | | |
| 109 | 2.972 | 6.32 | 9.2918 | 0 | | 32.1 | 8 | 33.5 | 30.4282 | | |
| 110 | 2.972 | 6.32 | 9.2918 | 0 | 1.524 | 32.8 | 7 | 33.6 | 30.5282 | 76.524 | |
| 111 | 2.972 | 6.32 | 9.2918 | 0 | | 33.4 | 7 | 33.7 | 30.6282 | | |
| 112 | 2.997 | 6.32 | 9.2918 | 0 | | 34.1 | 6 | 33.8 | 30.7282 | | |
| 113 | 3.048 | 6.32 | 9.3172 | 0.254 | | 34.8 | 7 | 34 | 30.8028 | | |
| 114 | 3.099 | 6.32 | 9.368 | 0.508 | | 35.2 | 7 | 34.1 | 30.952 | | |
| 115 | 3.099 | 6.32 | 9.4188 | 0.508 | | 35.8 | 4 | 34.3 | 31.0012 | | |
| 116 | 3.099 | 6.32 | 9.4188 | 0 | | 36.4 | 6 | 34.5 | 31.2012 | | |
| 117 | 3.632 | 6.32 | 9.4188 | 0 | | 37 | 6 | 34.7 | 31.4012 | | |
| 118 | 3.632 | 6.32 | 9.9522 | 5.334 | | 37.4 | 6 | 35 | 31.0678 | | |

| | | | | | | | | | | | |
|-----|-------|------|--------|-------|--------|------|---|----|------|---------|--------|
| 119 | 3.632 | 6.32 | 9.9522 | 0 | | 38.2 | 4 | | 35.2 | 31.3678 | C-84 |
| 120 | 3.632 | 6.32 | 9.9522 | 0 | 6.604 | 38.8 | 8 | 61 | 35.5 | 31.5678 | 67.604 |
| 121 | 3.632 | 6.32 | 9.9522 | 0 | | 39.5 | 6 | | 35.7 | 31.8678 | |
| 122 | 3.632 | 6.32 | 9.9522 | 0 | | 39.9 | 7 | | 36 | 32.0678 | |
| 123 | 3.632 | 6.32 | 9.9522 | 0 | | 40.2 | 4 | | 36.2 | 32.3678 | |
| 124 | 3.658 | 6.32 | 9.9522 | 0 | | 40.7 | 3 | | 36.4 | 32.5678 | |
| 125 | 3.683 | 6.32 | 9.9776 | 0.254 | | 41.1 | 5 | | 36.7 | 32.7424 | |
| 126 | 5.486 | 5.36 | 10.003 | 0.254 | | 41.7 | 4 | | 36.9 | 33.017 | |
| 127 | 6.147 | 5.54 | 10.846 | 8.434 | | 42.4 | 6 | | 37.3 | 31.4136 | |
| 128 | 6.172 | 5.6 | 11.687 | 8.404 | | 43.1 | 7 | | 37.7 | 31.1532 | |
| 129 | 6.477 | 5.61 | 11.772 | 0.854 | | 43.6 | 7 | | 38.1 | 31.5278 | |
| 130 | 6.477 | 5.62 | 12.087 | 3.148 | 21.348 | 44.3 | 5 | 54 | 38.5 | 31.623 | 75.348 |
| 131 | 6.477 | 5.62 | 12.097 | 0.1 | | 44.9 | 7 | | 38.9 | 32.023 | |
| 132 | 6.477 | 5.62 | 12.097 | 0 | | 45.5 | 6 | | 39.3 | 32.423 | |
| 133 | 6.477 | 5.62 | 12.097 | 0 | | 46.1 | 6 | | 39.6 | 32.823 | |
| 134 | 6.477 | 5.62 | 12.097 | 0 | | 46.5 | 6 | | 39.9 | 33.123 | |
| 135 | 6.477 | 5.62 | 12.097 | 0 | | 47.1 | 4 | | 40.2 | 33.423 | |
| 136 | 6.528 | 5.62 | 12.097 | 0 | | 47.5 | 6 | | 40.4 | 33.723 | |
| 137 | 6.528 | 5.62 | 12.148 | 0.508 | | 48.1 | 4 | | 40.7 | 33.8722 | |
| 138 | 6.528 | 5.62 | 12.148 | 0 | | 48.6 | 6 | | 40.9 | 34.1722 | |
| 139 | 6.553 | 5.62 | 12.148 | 0 | | 49.1 | 5 | | 41.1 | 34.3722 | |
| 140 | 6.553 | 5.62 | 12.173 | 0.254 | 0.862 | 49.6 | 5 | 55 | 41.3 | 34.5468 | 55.862 |
| 141 | 6.553 | 5.62 | 12.173 | 0 | | 50 | 5 | | 41.5 | 34.7468 | |
| 142 | 6.833 | 5.62 | 12.173 | 0 | | 50.3 | 4 | | 41.7 | 34.9468 | |
| 143 | 6.909 | 5.62 | 12.453 | 2.794 | | 50.5 | 3 | | 42 | 34.8674 | |
| 144 | 7.391 | 5.62 | 12.529 | 0.762 | | 50.9 | 2 | | 42.9 | 35.0912 | |
| 145 | 8.382 | 5.21 | 13.011 | 4.826 | | 51.3 | 4 | | 44.2 | 35.5086 | |
| 146 | 8.382 | 5.35 | 13.592 | 5.806 | | 51.9 | 4 | | 45.6 | 35.818 | |
| 147 | 9.474 | 5.15 | 13.732 | 1.4 | | 52.4 | 6 | | 46.6 | 37.218 | |
| 148 | 9.525 | 5.24 | 14.624 | 8.922 | | 52.9 | 5 | | 47.6 | 37.1258 | |
| 149 | 9.83 | 5.24 | 14.765 | 1.408 | | 53.3 | 5 | | 48.4 | 38.075 | |
| 150 | 9.931 | 5.24 | 15.07 | 3.048 | 28.966 | 53.7 | 4 | 42 | 49.6 | 38.5702 | 70.966 |
| 151 | 9.957 | 5.24 | 15.171 | 1.016 | | 54.2 | 4 | | 51 | 39.6686 | |
| 152 | 9.957 | 5.24 | 15.197 | 0.254 | | 54.7 | 5 | | 52.1 | 41.0432 | |
| 153 | 9.982 | 5.24 | 15.197 | 0 | | 55.1 | 5 | | 53 | 42.1432 | |
| 154 | 9.982 | 5.24 | 15.222 | 0.254 | | 55.5 | 4 | | 53.7 | 43.0178 | |
| 155 | 9.982 | 5.24 | 15.222 | 0 | | 56 | 4 | | 54.3 | 43.7178 | |
| 156 | 9.982 | 5.24 | 15.222 | 0 | | 56.5 | 5 | | 54.9 | 44.3178 | |
| 157 | 9.982 | 5.24 | 15.222 | 0 | | 56.9 | 5 | | 55.4 | 44.9178 | |
| 158 | 10.57 | 5.24 | 15.222 | 0 | | 57.3 | 4 | | 55.9 | 45.4178 | |
| 159 | 10.72 | 5.24 | 15.806 | 5.842 | | 57.7 | 4 | | 56.3 | 45.3336 | |
| 160 | 10.72 | 5.24 | 15.959 | 1.524 | 8.89 | 58.2 | 4 | 44 | 56.7 | 45.5812 | 52.89 |
| 161 | 10.72 | 5.24 | 15.959 | 0 | | 58.6 | 5 | | 57 | 45.9812 | |
| 162 | 11.18 | 5.24 | 15.959 | 0 | | 59.1 | 4 | | 57.3 | 46.2812 | |
| 163 | 11.18 | 5.24 | 16.416 | 4.572 | | 59.5 | 5 | | 57.6 | 46.124 | |
| 164 | 11.23 | 5.24 | 16.416 | 0 | | 59.9 | 4 | | 57.9 | 46.424 | |
| 165 | 11.23 | 5.24 | 16.467 | 0.508 | | 60.3 | 4 | | 58.1 | 46.6732 | |
| 166 | 11.46 | 5.24 | 16.467 | 0 | | 60.8 | 4 | | 58.4 | 46.8732 | |
| 167 | 11.51 | 5.24 | 16.695 | 2.286 | | 61.3 | 5 | | 58.6 | 46.9446 | |
| 168 | 11.51 | 5.24 | 16.746 | 0.508 | | 61.8 | 5 | | 58.9 | 47.0938 | |
| 169 | 11.51 | 5.24 | 16.746 | 0 | | 62.2 | 5 | | 59.2 | 47.3938 | |
| 170 | 11.51 | 5.24 | 16.746 | 0 | 7.874 | 62.7 | 4 | 45 | 59.4 | 47.6938 | 52.874 |
| 171 | 11.51 | 5.24 | 16.746 | 0 | | 63 | 5 | | 59.7 | 47.8938 | |
| 172 | 11.51 | 5.24 | 16.746 | 0 | | 63.4 | 3 | | 59.9 | 48.1938 | |
| 173 | 13.64 | 3.59 | 16.746 | 0 | | 63.7 | 4 | | 60.2 | 48.3938 | |
| 174 | 13.64 | 4.06 | 17.23 | 4.836 | | 64.6 | 3 | | 60.4 | 46.5602 | |
| 175 | 13.64 | 4.12 | 17.7 | 4.7 | | 65.3 | 9 | | 60.7 | 46.7602 | |
| 176 | 13.64 | 4.14 | 17.76 | 0.6 | | 65.7 | 7 | | 61 | 47.0602 | |
| 177 | 13.64 | 4.15 | 17.78 | 0.2 | | 66.3 | 4 | | 61.3 | 47.3602 | |
| 178 | 13.64 | 4.15 | 17.79 | 0.1 | | 66.9 | 6 | | 61.6 | 47.6602 | |
| 179 | 13.64 | 4.15 | 17.79 | 0 | | 67.3 | 6 | | 61.8 | 47.9602 | |
| 180 | 13.64 | 4.15 | 17.79 | 0 | 10.436 | 67.9 | 4 | 51 | 62.1 | 48.1602 | 61.436 |
| 181 | 13.64 | 4.15 | 17.79 | 0 | | 68.5 | 6 | | 62.3 | 48.4602 | |
| 182 | 13.64 | 4.15 | 17.79 | 0 | | 69 | 6 | | 62.6 | 48.6602 | |
| 183 | 14.22 | 4.04 | 17.79 | 0 | | 69.2 | 5 | | 62.8 | 48.9602 | |

| | | | | | | | | | | | | |
|-----|-------|------|--------|-------|--------|------|---|----|------|---------|--------|------|
| 184 | 14.25 | 4.08 | 18.264 | 4.742 | | 69.6 | 2 | | 63.1 | 48.576 | | C-85 |
| 185 | 14.5 | 4.08 | 18.329 | 0.654 | | 70 | 4 | | 63.4 | 48.8506 | | |
| 186 | 14.63 | 4.08 | 18.583 | 2.54 | | 70.4 | 4 | | 63.7 | 48.8966 | | |
| 187 | 14.91 | 4.08 | 18.71 | 1.27 | | 70.6 | 4 | | 64 | 49.0696 | | |
| 188 | 15.75 | 3.86 | 18.99 | 2.794 | | 71 | 2 | | 64.3 | 49.0902 | | |
| 189 | 15.77 | 3.93 | 19.608 | 6.182 | | 71.4 | 4 | | 64.6 | 48.552 | | |
| 190 | 15.77 | 3.93 | 19.703 | 0.954 | 19.136 | 71.9 | 4 | 41 | 65 | 48.8266 | 60.136 | |
| 191 | 15.77 | 3.93 | 19.703 | 0 | | 72.3 | 5 | | 65.3 | 49.2266 | | |
| 192 | 15.77 | 3.93 | 19.703 | 0 | | 72.7 | 4 | | 65.7 | 49.5266 | | |
| 193 | 15.9 | 3.93 | 19.703 | 0 | | 73 | 4 | | 66 | 49.9266 | | |
| 194 | 15.93 | 3.93 | 19.83 | 1.27 | | 73.4 | 3 | | 66.3 | 50.0996 | | |
| 195 | 15.93 | 3.93 | 19.856 | 0.254 | | 73.8 | 4 | | 66.7 | 50.3742 | | |
| 196 | 15.93 | 3.93 | 19.856 | 0 | | 74.3 | 4 | | 67.1 | 50.7742 | | |
| 197 | 15.93 | 3.93 | 19.856 | 0 | | 74.7 | 5 | | 67.4 | 51.1742 | | |
| 198 | 15.93 | 3.93 | 19.856 | 0 | | 75.2 | 4 | | 67.7 | 51.4742 | | |
| 199 | 15.93 | 3.93 | 19.856 | 0 | | 75.5 | 5 | | 68 | 51.7742 | | |
| 200 | 15.93 | 3.93 | 19.856 | 0 | 1.524 | 75.8 | 3 | 41 | 68.3 | 52.0742 | 42.524 | |
| 201 | 15.93 | 3.93 | 19.856 | 0 | | 76.2 | 3 | | 68.5 | 52.3742 | | |
| 202 | 15.93 | 3.93 | 19.856 | 0 | | 76.6 | 4 | | 68.8 | 52.5742 | | |
| 203 | 15.93 | 3.93 | 19.856 | 0 | | 77 | 4 | | 69 | 52.8742 | | |
| 204 | 15.93 | 3.93 | 19.856 | 0 | | 77.3 | 4 | | 69.3 | 53.0742 | | |
| 205 | 15.93 | 3.93 | 19.856 | 0 | | 77.7 | 3 | | 69.5 | 53.3742 | | |
| 206 | 15.93 | 3.93 | 19.856 | 0 | | 78 | 4 | | 69.8 | 53.5742 | | |
| 207 | 15.93 | 3.93 | 19.856 | 0 | | 78.4 | 3 | | 70 | 53.8742 | | |
| 208 | 15.93 | 3.93 | 19.856 | 0 | | 78.7 | 4 | | 70.2 | 54.0742 | | |
| 209 | 15.93 | 3.93 | 19.856 | 0 | | 79 | 3 | | 70.4 | 54.2742 | | |
| 210 | 15.93 | 3.93 | 19.856 | 0 | 0 | 79.3 | 3 | 35 | 70.7 | 54.4742 | 35 | |
| 211 | 15.93 | 3.93 | 19.856 | 0 | | 79.6 | 3 | | 70.9 | 54.7742 | | |
| 212 | 15.93 | 3.93 | 19.856 | 0 | | 79.9 | 3 | | 71.1 | 54.9742 | | |
| 213 | 15.93 | 3.93 | 19.856 | 0 | | 80.2 | 3 | | 71.4 | 55.1742 | | |
| 214 | 15.93 | 3.93 | 19.856 | 0 | | 80.5 | 3 | | 71.6 | 55.4742 | | |
| 215 | 15.93 | 3.93 | 19.856 | 0 | | 80.8 | 3 | | 71.9 | 55.6742 | | |
| 216 | 16.1 | 3.93 | 19.856 | 0 | | 81 | 3 | | 72.1 | 55.9742 | | |
| 217 | 16.64 | 3.51 | 20.034 | 1.778 | | 81.1 | 2 | | 72.4 | 55.9964 | | |
| 218 | 16.64 | 3.65 | 20.147 | 1.134 | | 81.8 | 1 | | 72.7 | 55.763 | | |
| 219 | 16.64 | 3.66 | 20.287 | 1.4 | | 82.1 | 7 | | 73 | 56.063 | | |
| 220 | 16.64 | 3.66 | 20.297 | 0.1 | 4.412 | 82.3 | 3 | 31 | 73.4 | 56.363 | 35.412 | |
| 221 | 16.64 | 3.66 | 20.297 | 0 | | 82.6 | 2 | | 73.8 | 56.763 | | |
| 222 | 16.64 | 3.66 | 20.297 | 0 | | 82.8 | 3 | | 74.2 | 57.163 | | |
| 223 | 16.64 | 3.66 | 20.297 | 0 | | 83 | 2 | | 74.6 | 57.563 | | |
| 224 | 16.64 | 3.66 | 20.297 | 0 | | 83.1 | 2 | | 75 | 57.963 | | |
| 225 | 16.64 | 3.66 | 20.297 | 0 | | 83.2 | 1 | | 75.5 | 58.363 | | |
| 226 | 16.64 | 3.66 | 20.297 | 0 | | 83.4 | 1 | | 75.8 | 58.863 | | |
| 227 | 16.64 | 3.66 | 20.297 | 0 | | 83.4 | 2 | | 76.2 | 59.163 | | |
| 228 | 16.64 | 3.66 | 20.297 | 0 | | 83.6 | 0 | | 76.5 | 59.563 | | |
| 229 | 16.64 | 3.66 | 20.297 | 0 | | 83.7 | 2 | | 76.8 | 59.863 | | |
| 230 | 16.64 | 3.66 | 20.297 | 0 | 0 | 83.8 | 1 | 16 | 77.1 | 60.163 | 16 | |
| 231 | 16.64 | 3.66 | 20.297 | 0 | | 83.9 | 1 | | 77.4 | 60.463 | | |
| 232 | 16.64 | 3.66 | 20.297 | 0 | | 84 | 1 | | 77.7 | 60.763 | | |
| 233 | 16.64 | 3.66 | 20.297 | 0 | | 84.1 | 1 | | 78 | 61.063 | | |
| 234 | 16.64 | 3.66 | 20.297 | 0 | | 84.2 | 1 | | 78.4 | 61.363 | | |
| 235 | 16.64 | 3.66 | 20.297 | 0 | | 84.3 | 1 | | 78.8 | 61.763 | | |
| 236 | 16.64 | 3.66 | 20.297 | 0 | | 84.4 | 1 | | 79.1 | 62.163 | | |
| 237 | 16.64 | 3.66 | 20.297 | 0 | | 84.5 | 1 | | 79.5 | 62.463 | | |
| 238 | 16.64 | 3.66 | 20.297 | 0 | | 84.6 | 1 | | 79.8 | 62.863 | | |
| 239 | 16.64 | 3.66 | 20.297 | 0 | | 84.6 | 1 | | 80.2 | 63.163 | | |
| 240 | 16.64 | 3.66 | 20.297 | 0 | 0 | 84.7 | 0 | 9 | 80.5 | 63.563 | 9 | |
| 241 | 16.64 | 3.66 | 20.297 | 0 | | 84.8 | 1 | | 80.9 | 63.863 | | |
| 242 | 16.64 | 3.66 | 20.297 | 0 | | 84.9 | 1 | | 81.2 | 64.263 | | |
| 243 | 16.64 | 3.66 | 20.297 | 0 | | 85 | 1 | | 81.5 | 64.563 | | |
| 244 | 16.64 | 3.66 | 20.297 | 0 | | 85.1 | 1 | | 81.8 | 64.863 | | |
| 245 | 16.64 | 3.66 | 20.297 | 0 | | 85.2 | 1 | | 82.1 | 65.163 | | |
| 246 | 16.64 | 3.66 | 20.297 | 0 | | 85.3 | 1 | | 82.4 | 65.463 | | |
| 247 | 16.64 | 3.66 | 20.297 | 0 | | 85.4 | 1 | | 82.7 | 65.763 | | |
| 248 | 16.64 | 3.66 | 20.297 | 0 | | 85.5 | 1 | | 82.9 | 66.063 | | |

| | | | | | | | | | | | |
|-----|-------|------|--------|-------|-------|------|---|----|------|---------|-------|
| 249 | 16.64 | 3.66 | 20.297 | 0 | | 85.6 | 1 | | 83.2 | 66.263 | C-86 |
| 250 | 16.64 | 3.66 | 20.297 | 0 | 0 | 85.6 | 1 | 10 | 83.4 | 66.563 | 10 |
| 251 | 16.64 | 3.66 | 20.297 | 0 | | 85.7 | 0 | | 83.7 | 66.763 | |
| 252 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 1 | | 84 | 67.063 | |
| 253 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 1 | | 84.2 | 67.363 | |
| 254 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 84.4 | 67.563 | |
| 255 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 84.6 | 67.763 | |
| 256 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 84.8 | 67.963 | |
| 257 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 85.1 | 68.163 | |
| 258 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 85.2 | 68.463 | |
| 259 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 85.4 | 68.563 | |
| 260 | 16.64 | 3.66 | 20.297 | 0 | 0 | 85.8 | 0 | 2 | 85.6 | 68.763 | 2 |
| 261 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 85.8 | 68.963 | |
| 262 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 86 | 69.163 | |
| 263 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 86.2 | 69.363 | |
| 264 | 16.64 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 86.4 | 69.563 | |
| 265 | 16.69 | 3.66 | 20.297 | 0 | | 85.8 | 0 | | 86.6 | 69.763 | |
| 266 | 16.69 | 3.66 | 20.348 | 0.508 | | 85.8 | 0 | | 86.8 | 69.9122 | |
| 267 | 16.69 | 3.66 | 20.348 | 0 | | 85.8 | 0 | | 87 | 70.1122 | |
| 268 | 16.69 | 3.66 | 20.348 | 0 | | 85.8 | 0 | | 87.2 | 70.3122 | |
| 269 | 16.71 | 3.66 | 20.348 | 0 | | 85.8 | 0 | | 87.4 | 70.5122 | |
| 270 | 16.71 | 3.66 | 20.373 | 0.254 | 0.762 | 85.8 | 0 | 0 | 87.5 | 70.6868 | 0.762 |
| 271 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 87.7 | 70.7868 | |
| 272 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 87.8 | 70.9868 | |
| 273 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 88 | 71.0868 | |
| 274 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 88.1 | 71.2868 | |
| 275 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 88.2 | 71.3868 | |
| 276 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 88.3 | 71.4868 | |
| 277 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 88.5 | 71.5868 | |
| 278 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 88.6 | 71.7868 | |
| 279 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 88.7 | 71.8868 | |
| 280 | 16.71 | 3.66 | 20.373 | 0 | 0 | 85.8 | 0 | 0 | 88.9 | 71.9868 | 0 |
| 281 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 89 | 72.1868 | |
| 282 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 89.2 | 72.2868 | |
| 283 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 89.3 | 72.4868 | |
| 284 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 89.5 | 72.5868 | |
| 285 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 89.6 | 72.7868 | |
| 286 | 16.71 | 3.66 | 20.373 | 0 | | 85.8 | 0 | | 89.8 | 72.8868 | |
| 287 | 16.92 | 3.51 | 20.373 | 0 | | 85.8 | 0 | | 89.9 | 73.0868 | |
| 288 | 16.92 | 3.63 | 20.426 | 0.532 | | 85.8 | 0 | | 89.9 | 72.9836 | |
| 289 | 16.92 | 3.68 | 20.546 | 1.2 | | 85.8 | 0 | | 90 | 72.9836 | |
| 290 | 16.92 | 3.73 | 20.596 | 0.5 | 2.232 | 85.8 | 0 | 0 | 90 | 73.0836 | 2.232 |
| 291 | 16.92 | 3.78 | 20.646 | 0.5 | | 85.8 | 0 | | 90 | 73.0836 | |
| 292 | 16.92 | 3.83 | 20.696 | 0.5 | | 85.8 | 0 | | 90 | 73.0836 | |
| 293 | 16.92 | 3.88 | 20.746 | 0.5 | | 85.8 | 0 | | 89.9 | 73.0836 | |
| 294 | 16.92 | 3.94 | 20.796 | 0.5 | | 85.8 | 0 | | 89.9 | 72.9836 | |
| 295 | 16.92 | 4 | 20.856 | 0.6 | | 85.8 | 0 | | 89.9 | 72.9836 | |
| 296 | 16.92 | 4.06 | 20.916 | 0.6 | | 85.8 | 0 | | 89.9 | 72.9836 | |
| 297 | 16.92 | 4.12 | 20.976 | 0.6 | | 85.8 | 0 | | 89.9 | 72.9836 | |
| 298 | 16.92 | 4.19 | 21.036 | 0.6 | | 85.8 | 0 | | 89.9 | 72.9836 | |
| 299 | 16.92 | 4.26 | 21.106 | 0.7 | | 85.8 | 0 | | 89.9 | 72.9836 | |
| 300 | 16.92 | 4.33 | 21.176 | 0.7 | 5.8 | 85.8 | 0 | 0 | 89.9 | 72.9836 | 5.8 |
| 301 | 16.92 | 4.4 | 21.246 | 0.7 | | 85.8 | 0 | | 90 | 72.9836 | |
| 302 | 16.92 | 4.48 | 21.316 | 0.7 | | 85.8 | 0 | | 90 | 73.0836 | |
| 303 | 16.92 | 4.55 | 21.396 | 0.8 | | 85.8 | 0 | | 90 | 73.0836 | |
| 304 | 16.92 | 4.63 | 21.466 | 0.7 | | 85.8 | 0 | | 90.1 | 73.0836 | |
| 305 | 16.92 | 4.71 | 21.546 | 0.8 | | 85.8 | 0 | | 90.1 | 73.1836 | |
| 306 | 16.92 | 4.78 | 21.626 | 0.8 | | 85.8 | 0 | | 90.2 | 73.1836 | |
| 307 | 16.92 | 4.86 | 21.696 | 0.7 | | 85.8 | 0 | | 90.2 | 73.2836 | |
| 308 | 16.92 | 4.94 | 21.776 | 0.8 | | 85.8 | 0 | | 90.3 | 73.2836 | |
| 309 | 16.92 | 5.02 | 21.856 | 0.8 | | 85.8 | 0 | | 90.4 | 73.3836 | |
| 310 | 16.92 | 5.11 | 21.936 | 0.8 | 7.6 | 85.8 | 0 | 0 | 90.5 | 73.4836 | 7.6 |
| 311 | 16.92 | 5.19 | 22.026 | 0.9 | | 85.8 | 0 | | 90.5 | 73.5836 | |
| 312 | 16.92 | 5.27 | 22.106 | 0.8 | | 85.8 | 0 | | 90.6 | 73.5836 | |
| 313 | 16.92 | 5.35 | 22.186 | 0.8 | | 85.8 | 0 | | 90.7 | 73.6836 | |

| | | | | | | | | | | |
|-----|-------|------|--------|-------|--------|------|---|------|---------|--------|
| 314 | 16.92 | 5.43 | 22.266 | 0.8 | | 85.8 | 0 | 90.8 | 73.7836 | C-87 |
| 315 | 16.92 | 5.52 | 22.346 | 0.8 | | 85.8 | 0 | 90.9 | 73.8836 | |
| 316 | 16.92 | 5.6 | 22.436 | 0.9 | | 85.8 | 0 | 91 | 73.9836 | |
| 317 | 16.92 | 5.68 | 22.516 | 0.8 | | 85.8 | 0 | 91.1 | 74.0836 | |
| 318 | 16.92 | 5.77 | 22.596 | 0.8 | | 85.8 | 0 | 91.2 | 74.1836 | |
| 319 | 16.92 | 5.85 | 22.686 | 0.9 | | 85.8 | 0 | 91.3 | 74.2836 | |
| 320 | 16.92 | 5.93 | 22.766 | 0.8 | 8.3 | 85.8 | 0 | 91.4 | 74.3836 | 8.3 |
| 321 | 16.92 | 6.02 | 22.846 | 0.8 | | 85.8 | 0 | 91.5 | 74.4836 | |
| 322 | 16.92 | 6.1 | 22.936 | 0.9 | | 85.8 | 0 | 91.6 | 74.5836 | |
| 323 | 16.92 | 6.18 | 23.016 | 0.8 | | 85.8 | 0 | 91.6 | 74.6836 | |
| 324 | 16.92 | 6.27 | 23.096 | 0.8 | | 85.8 | 0 | 91.7 | 74.6836 | |
| 325 | 16.92 | 6.35 | 23.186 | 0.9 | | 85.8 | 0 | 91.8 | 74.7836 | |
| 326 | 16.92 | 6.43 | 23.266 | 0.8 | | 85.8 | 0 | 91.9 | 74.8836 | |
| 327 | 16.92 | 6.52 | 23.346 | 0.8 | | 85.8 | 0 | 92 | 74.9836 | |
| 328 | 16.92 | 6.6 | 23.436 | 0.9 | | 85.8 | 0 | 92.1 | 75.0836 | |
| 329 | 16.92 | 6.68 | 23.516 | 0.8 | | 85.8 | 0 | 92.2 | 75.1836 | |
| 330 | 16.92 | 6.77 | 23.596 | 0.8 | 8.3 | 85.8 | 0 | 92.3 | 75.2836 | 8.3 |
| 331 | 16.92 | 6.85 | 23.686 | 0.9 | | 85.8 | 0 | 92.3 | 75.3836 | |
| 332 | 16.92 | 6.94 | 23.766 | 0.8 | | 85.8 | 0 | 92.4 | 75.3836 | |
| 333 | 16.92 | 7.02 | 23.856 | 0.9 | | 85.8 | 0 | 92.5 | 75.4836 | |
| 334 | 16.92 | 7.1 | 23.936 | 0.8 | | 85.8 | 0 | 92.6 | 75.5836 | |
| 335 | 16.92 | 7.19 | 24.016 | 0.8 | | 85.8 | 0 | 92.7 | 75.6836 | |
| 336 | 16.92 | 7.27 | 24.106 | 0.9 | | 85.8 | 0 | 92.8 | 75.7836 | |
| 337 | 16.92 | 7.35 | 24.186 | 0.8 | | 85.8 | 0 | 92.9 | 75.8836 | |
| 338 | 16.92 | 7.44 | 24.266 | 0.8 | | 85.8 | 0 | 93 | 75.9836 | |
| 339 | 16.92 | 7.52 | 24.356 | 0.9 | | 85.8 | 0 | 93.1 | 76.0836 | |
| 340 | 16.92 | 7.61 | 24.436 | 0.8 | 8.4 | 85.8 | 0 | 93.2 | 76.1836 | 8.4 |
| 341 | 16.92 | 7.69 | 24.526 | 0.9 | | 85.8 | 0 | 93.3 | 76.2836 | |
| 342 | 16.92 | 7.77 | 24.606 | 0.8 | | 85.8 | 0 | 93.4 | 76.3836 | |
| 343 | 16.92 | 7.86 | 24.686 | 0.8 | | 85.8 | 0 | 93.6 | 76.4836 | |
| 344 | 16.92 | 7.94 | 24.776 | 0.9 | | 85.8 | 0 | 93.7 | 76.6836 | |
| 345 | 16.92 | 8.03 | 24.856 | 0.8 | | 85.8 | 0 | 93.9 | 76.7836 | |
| 346 | 16.92 | 8.11 | 24.946 | 0.9 | | 85.8 | 0 | 94 | 76.9836 | |
| 347 | 16.92 | 8.19 | 25.026 | 0.8 | | 85.8 | 0 | 94.2 | 77.0836 | |
| 348 | 16.92 | 8.28 | 25.106 | 0.8 | | 85.8 | 0 | 94.3 | 77.2836 | |
| 349 | 16.92 | 8.36 | 25.196 | 0.9 | | 85.8 | 0 | 94.4 | 77.3836 | |
| 350 | 16.92 | 8.45 | 25.276 | 0.8 | 8.4 | 85.8 | 0 | 94.6 | 77.4836 | 8.4 |
| 351 | 16.92 | 8.53 | 25.366 | 0.9 | | 85.8 | 0 | 94.7 | 77.6836 | |
| 352 | 16.92 | 8.62 | 25.446 | 0.8 | | 85.8 | 0 | 94.8 | 77.7836 | |
| 353 | 16.92 | 8.7 | 25.536 | 0.9 | | 85.8 | 0 | 94.9 | 77.8836 | |
| 354 | 16.92 | 8.79 | 25.616 | 0.8 | | 85.8 | 0 | 95 | 77.9836 | |
| 355 | 16.92 | 8.87 | 25.706 | 0.9 | | 85.8 | 0 | 95.2 | 78.0836 | |
| 356 | 16.92 | 8.96 | 25.786 | 0.8 | | 85.8 | 0 | 95.3 | 78.2836 | |
| 357 | 16.92 | 9.04 | 25.876 | 0.9 | | 85.8 | 0 | 95.4 | 78.3836 | |
| 358 | 16.92 | 9.13 | 25.956 | 0.8 | | 85.8 | 0 | 95.5 | 78.4836 | |
| 359 | 16.92 | 9.21 | 26.046 | 0.9 | | 85.8 | 0 | 95.6 | 78.5836 | |
| 360 | 16.92 | 9.3 | 26.126 | 0.8 | 8.5 | 85.8 | 0 | 95.7 | 78.6836 | 8.5 |
| 361 | 16.92 | 9.39 | 26.216 | 0.9 | | 85.8 | 0 | 95.8 | 78.7836 | |
| 362 | 16.92 | 9.47 | 26.306 | 0.9 | | 85.8 | 0 | 95.9 | 78.8836 | |
| 363 | 16.92 | 9.56 | 26.386 | 0.8 | | 85.8 | 0 | 96 | 78.9836 | |
| 364 | 16.92 | 9.65 | 26.476 | 0.9 | | 85.8 | 0 | 96.1 | 79.0836 | |
| 365 | 16.92 | 9.73 | 26.566 | 0.9 | | 85.8 | 0 | 96.2 | 79.1836 | |
| 366 | 16.92 | 9.82 | 26.646 | 0.8 | | 85.8 | 0 | 96.3 | 79.2836 | |
| 367 | 16.92 | 9.91 | 26.736 | 0.9 | | 85.8 | 0 | 96.4 | 79.3836 | |
| 368 | 17.53 | 9.58 | 26.826 | 0.9 | | 85.8 | 0 | 96.5 | 79.4836 | |
| 369 | 17.63 | 9.73 | 27.106 | 2.796 | | 85.8 | 0 | 96.6 | 78.974 | |
| 370 | 17.63 | 9.97 | 27.358 | 2.516 | 12.312 | 85.8 | 0 | 96.7 | 78.9724 | 12.312 |
| 371 | 17.63 | 10.1 | 27.598 | 2.4 | | 85.8 | 0 | 96.8 | 79.0724 | |
| 372 | 17.63 | 10.2 | 27.728 | 1.3 | | 85.8 | 0 | 96.9 | 79.1724 | |
| 373 | 17.63 | 10.3 | 27.828 | 1 | | 85.8 | 0 | 97 | 79.2724 | |
| 374 | 17.63 | 10.4 | 27.928 | 1 | | 85.8 | 0 | 97.1 | 79.3724 | |
| 375 | 17.63 | 10.5 | 28.028 | 1 | | 85.8 | 0 | 97.2 | 79.4724 | |
| 376 | 17.63 | 10.6 | 28.128 | 1 | | 85.8 | 0 | 97.3 | 79.5724 | |
| 377 | 18.21 | 10.5 | 28.228 | 1 | | 85.8 | 0 | 97.4 | 79.6724 | |
| 378 | 18.24 | 10.7 | 28.712 | 4.842 | | 85.8 | 0 | 97.4 | 79.1882 | |

| | | | | | | | | | | | |
|-----|-------|------|--------|-------|--------|------|----|----|------|---------|--------|
| 379 | 18.24 | 10.8 | 28.937 | 2.254 | | 85.8 | 0 | | 97.5 | 79.1628 | C-88 |
| 380 | 18.24 | 10.9 | 29.037 | 1 | 16.796 | 85.8 | 0 | 0 | 97.6 | 79.2628 | 16.796 |
| 381 | 18.24 | 11 | 29.137 | 1 | | 85.8 | 0 | | 97.6 | 79.3628 | |
| 382 | 18.24 | 11.1 | 29.237 | 1 | | 85.8 | 0 | | 97.8 | 79.3628 | |
| 383 | 18.24 | 11.2 | 29.337 | 1 | | 85.8 | 0 | | 97.9 | 79.5628 | |
| 384 | 18.24 | 11.3 | 29.437 | 1 | | 85.8 | 0 | | 97.9 | 79.6628 | |
| 385 | 18.24 | 11.4 | 29.537 | 1 | | 85.8 | 0 | | 98 | 79.6628 | |
| 386 | 18.24 | 11.5 | 29.637 | 1 | | 85.8 | 0 | | 98.1 | 79.7628 | |
| 387 | 18.24 | 11.6 | 29.737 | 1 | | 85.8 | 0 | | 98.2 | 79.8628 | |
| 388 | 18.24 | 11.7 | 29.837 | 1 | | 86 | 0 | | 98.3 | 79.9628 | |
| 389 | 18.24 | 11.8 | 29.937 | 1 | | 86.1 | 2 | | 98.4 | 80.0628 | |
| 390 | 18.24 | 11.9 | 30.037 | 1 | 10 | 86.2 | 1 | 3 | 98.6 | 80.1628 | 13 |
| 391 | 18.24 | 12 | 30.137 | 1 | | 86.3 | 1 | | 98.7 | 80.3628 | |
| 392 | 18.24 | 12 | 30.237 | 1 | | 86.5 | 1 | | 98.7 | 80.4628 | |
| 393 | 18.24 | 12.1 | 30.237 | 0 | | 86.5 | 2 | | 98.8 | 80.4628 | |
| 394 | 18.24 | 12.2 | 30.337 | 1 | | 86.7 | 0 | | 98.8 | 80.5628 | |
| 395 | 18.24 | 12.3 | 30.437 | 1 | | 86.8 | 2 | | 98.9 | 80.5628 | |
| 396 | 18.24 | 12.3 | 30.537 | 1 | | 86.9 | 1 | | 98.9 | 80.6628 | |
| 397 | 18.24 | 12.4 | 30.537 | 0 | | 87.1 | 1 | | 98.9 | 80.6628 | |
| 398 | 18.24 | 12.5 | 30.637 | 1 | | 87.2 | 2 | | 99 | 80.6628 | |
| 399 | 18.24 | 12.5 | 30.737 | 1 | | 87.3 | 1 | | 99 | 80.7628 | |
| 400 | 18.24 | 12.6 | 30.737 | 0 | 7 | 87.5 | 1 | 12 | 99.1 | 80.7628 | 19 |
| 401 | 18.24 | 12.6 | 30.837 | 1 | | 87.6 | 2 | | 99.2 | 80.8628 | |
| 402 | 18.24 | 12.7 | 30.837 | 0 | | 87.8 | 1 | | 99.2 | 80.9628 | |
| 403 | 18.24 | 12.7 | 30.937 | 1 | | 87.9 | 2 | | 99.3 | 80.9628 | |
| 404 | 18.24 | 12.8 | 30.937 | 0 | | 88.2 | 1 | | 99.3 | 81.0628 | |
| 405 | 18.24 | 12.8 | 31.037 | 1 | | 88.4 | 3 | | 99.2 | 81.0628 | |
| 406 | 18.24 | 12.9 | 31.037 | 0 | | 88.5 | 2 | | 99.2 | 80.9628 | |
| 407 | 18.24 | 12.9 | 31.137 | 1 | | 88.6 | 1 | | 99.1 | 80.9628 | |
| 408 | 18.24 | 13 | 31.137 | 0 | | 88.9 | 1 | | 99 | 80.8628 | |
| 409 | 18.24 | 13 | 31.237 | 1 | | 89.1 | 3 | | 98.8 | 80.7628 | |
| 410 | 18.24 | 13 | 31.237 | 0 | 5 | 89.2 | 2 | 18 | 98.8 | 80.5628 | 23 |
| 411 | 18.24 | 13.1 | 31.237 | 0 | | 89.4 | 1 | | 98.9 | 80.5628 | |
| 412 | 18.24 | 13.1 | 31.337 | 1 | | 89.7 | 2 | | 99 | 80.6628 | |
| 413 | 18.24 | 13.1 | 31.337 | 0 | | 89.8 | 3 | | 99.2 | 80.7628 | |
| 414 | 18.24 | 13.2 | 31.337 | 0 | | 90.1 | 1 | | 99.4 | 80.9628 | |
| 415 | 18.24 | 13.2 | 31.437 | 1 | | 90.3 | 3 | | 99.7 | 81.1628 | |
| 416 | 18.24 | 13.2 | 31.437 | 0 | | 90.6 | 2 | | 99.9 | 81.4628 | |
| 417 | 18.24 | 13.3 | 31.437 | 0 | | 90.9 | 3 | | 100 | 81.6628 | |
| 418 | 18.24 | 13.3 | 31.537 | 1 | | 91.1 | 3 | | 100 | 81.7628 | |
| 419 | 18.24 | 13.3 | 31.537 | 0 | | 91.4 | 2 | | 101 | 81.7628 | |
| 420 | 18.24 | 13.3 | 31.537 | 0 | 3 | 91.6 | 3 | 23 | 101 | 82.7628 | 26 |
| 421 | 18.24 | 13.3 | 31.537 | 0 | | 91.9 | 2 | | 101 | 82.7628 | |
| 422 | 18.24 | 13.3 | 31.537 | 0 | | 92.2 | 3 | | 102 | 82.7628 | |
| 423 | 18.24 | 13.3 | 31.537 | 0 | | 92.4 | 3 | | 102 | 83.7628 | |
| 424 | 18.24 | 13.3 | 31.537 | 0 | | 92.7 | 2 | | 102 | 83.7628 | |
| 425 | 18.24 | 13.4 | 31.537 | 0 | | 93.1 | 3 | | 103 | 83.7628 | |
| 426 | 18.24 | 13.4 | 31.637 | 1 | | 93.4 | 4 | | 103 | 84.7628 | |
| 427 | 18.24 | 13.4 | 31.637 | 0 | | 93.8 | 3 | | 103 | 84.7628 | |
| 428 | 18.24 | 13.4 | 31.637 | 0 | | 94.2 | 4 | | 103 | 84.7628 | |
| 429 | 18.24 | 13.4 | 31.637 | 0 | | 94.6 | 4 | | 104 | 84.7628 | |
| 430 | 18.24 | 13.4 | 31.637 | 0 | 1 | 95 | 4 | 32 | 104 | 85.7628 | 33 |
| 431 | 18.24 | 13.4 | 31.637 | 0 | | 95.4 | 4 | | 104 | 85.7628 | |
| 432 | 18.24 | 13.4 | 31.637 | 0 | | 95.9 | 4 | | 105 | 85.7628 | |
| 433 | 18.24 | 13.4 | 31.637 | 0 | | 96.3 | 5 | | 105 | 86.7628 | |
| 434 | 18.24 | 13.4 | 31.637 | 0 | | 96.8 | 4 | | 106 | 86.7628 | |
| 435 | 18.59 | 13.4 | 31.637 | 0 | | 97.2 | 5 | | 106 | 87.7628 | |
| 436 | 19.25 | 13.3 | 31.993 | 3.556 | | 97.6 | 4 | | 107 | 87.4072 | |
| 437 | 19.25 | 13.3 | 32.553 | 5.604 | | 98.4 | 4 | | 108 | 87.7468 | |
| 438 | 19.25 | 13.3 | 32.553 | 0 | | 98.9 | 8 | | 110 | 88.7468 | |
| 439 | 19.25 | 13.3 | 32.553 | 0 | | 99.4 | 5 | | 111 | 90.7468 | |
| 440 | 19.3 | 13.3 | 32.553 | 0 | 9.16 | 99.7 | 5 | 48 | 112 | 91.7468 | 57.16 |
| 441 | 19.38 | 13.3 | 32.604 | 0.508 | | 100 | 3 | | 114 | 92.696 | |
| 442 | 19.38 | 13.3 | 32.68 | 0.762 | | 101 | 3 | | 115 | 94.6198 | |
| 443 | 19.38 | 13.3 | 32.68 | 0 | | 101 | 10 | | 117 | 95.6198 | |

| | | | | | | | | | | |
|-----|-------|------|--------|-------|--------|-----|----|-----|--------------|--------|
| 444 | 19.38 | 13.3 | 32.68 | 0 | | 101 | 0 | 118 | 97.6198 | C-89 |
| 445 | 19.38 | 13.3 | 32.68 | 0 | | 102 | 0 | 119 | 98.6198 | |
| 446 | 19.38 | 13.3 | 32.68 | 0 | | 102 | 10 | 120 | 99.6198 | |
| 447 | 19.38 | 13.3 | 32.68 | 0 | | 102 | 0 | 121 | 100.6198 | |
| 448 | 19.38 | 13.3 | 32.68 | 0 | | 102 | 0 | 121 | 101.6198 | |
| 449 | 19.38 | 13.3 | 32.68 | 0 | | 103 | 0 | 122 | 101.6198 | |
| 450 | 19.38 | 13.3 | 32.68 | 0 | 1.27 | 103 | 10 | 36 | 123 102.6198 | 37.27 |
| 451 | 19.38 | 13.3 | 32.68 | 0 | | 104 | 0 | 123 | 103.6198 | |
| 452 | 19.38 | 13.3 | 32.68 | 0 | | 104 | 10 | 124 | 103.6198 | |
| 453 | 19.38 | 13.3 | 32.68 | 0 | | 104 | 0 | 124 | 104.6198 | |
| 454 | 19.38 | 13.3 | 32.68 | 0 | | 105 | 0 | 124 | 104.6198 | |
| 455 | 19.38 | 13.3 | 32.68 | 0 | | 106 | 10 | 124 | 104.6198 | |
| 456 | 19.38 | 13.3 | 32.68 | 0 | | 106 | 10 | 124 | 104.6198 | |
| 457 | 19.38 | 13.3 | 32.68 | 0 | | 107 | 0 | 124 | 104.6198 | |
| 458 | 19.38 | 13.3 | 32.68 | 0 | | 107 | 10 | 124 | 104.6198 | |
| 459 | 19.38 | 13.3 | 32.68 | 0 | | 108 | 0 | 124 | 104.6198 | |
| 460 | 19.74 | 13.3 | 32.68 | 0 | 0 | 108 | 10 | 50 | 124 104.6198 | 50 |
| 461 | 19.74 | 13.3 | 33.036 | 3.556 | | 109 | 0 | 124 | 104.2642 | |
| 462 | 19.74 | 13.3 | 33.036 | 0 | | 109 | 10 | 124 | 104.2642 | |
| 463 | 19.74 | 13.3 | 33.036 | 0 | | 110 | 0 | 125 | 104.2642 | |
| 464 | 19.74 | 13.3 | 33.036 | 0 | | 110 | 10 | 125 | 105.2642 | |
| 465 | 19.74 | 13.3 | 33.036 | 0 | | 111 | 0 | 125 | 105.2642 | |
| 466 | 19.74 | 13.3 | 33.036 | 0 | | 112 | 10 | 126 | 105.2642 | |
| 467 | 19.74 | 13.3 | 33.036 | 0 | | 113 | 10 | 126 | 106.2642 | |
| 468 | 19.74 | 13.3 | 33.036 | 0 | | 113 | 10 | 126 | 106.2642 | |
| 469 | 19.74 | 13.3 | 33.036 | 0 | | 114 | 0 | 126 | 106.2642 | |
| 470 | 19.74 | 13.3 | 33.036 | 0 | 3.556 | 115 | 10 | 60 | 126 106.2642 | 63.556 |
| 471 | 19.89 | 13.3 | 33.036 | 0 | | 115 | 10 | 126 | 106.2642 | |
| 472 | 19.89 | 13.3 | 33.188 | 1.524 | | 116 | 0 | 126 | 106.1118 | |
| 473 | 19.89 | 13.3 | 33.188 | 0 | | 117 | 10 | 126 | 106.1118 | |
| 474 | 19.89 | 13.3 | 33.188 | 0 | | 118 | 10 | 127 | 106.1118 | |
| 475 | 19.89 | 13.3 | 33.188 | 0 | | 119 | 10 | 127 | 107.1118 | |
| 476 | 19.89 | 13.3 | 33.188 | 0 | | 119 | 10 | 127 | 107.1118 | |
| 477 | 19.91 | 13.3 | 33.188 | 0 | | 120 | 0 | 127 | 107.1118 | |
| 478 | 19.96 | 13.3 | 33.214 | 0.254 | | 121 | 10 | 127 | 107.0864 | |
| 479 | 20.02 | 13.3 | 33.264 | 0.508 | | 121 | 10 | 127 | 107.0356 | |
| 480 | 20.02 | 13.3 | 33.315 | 0.508 | 2.794 | 122 | 0 | 70 | 127 106.9848 | 72.794 |
| 481 | 20.02 | 13.3 | 33.315 | 0 | | 122 | 10 | 128 | 106.9848 | |
| 482 | 20.55 | 13.3 | 33.315 | 0 | | 123 | 0 | 128 | 107.9848 | |
| 483 | 20.55 | 13.3 | 33.849 | 5.334 | | 123 | 10 | 128 | 107.4514 | |
| 484 | 20.55 | 13.3 | 33.849 | 0 | | 124 | 0 | 128 | 107.4514 | |
| 485 | 20.55 | 13.3 | 33.849 | 0 | | 125 | 10 | 129 | 107.4514 | |
| 486 | 20.55 | 13.3 | 33.849 | 0 | | 125 | 10 | 129 | 108.4514 | |
| 487 | 20.55 | 13.3 | 33.849 | 0 | | 126 | 0 | 129 | 108.4514 | |
| 488 | 20.55 | 13.3 | 33.849 | 0 | | 126 | 10 | 129 | 108.4514 | |
| 489 | 20.57 | 13.3 | 33.849 | 0 | | 126 | 0 | 130 | 108.4514 | |
| 490 | 20.6 | 13.3 | 33.874 | 0.254 | 5.588 | 127 | 0 | 50 | 130 109.426 | 55.588 |
| 491 | 22.4 | 12.4 | 33.899 | 0.254 | | 128 | 10 | 130 | 109.4006 | |
| 492 | 23.06 | 12.5 | 34.803 | 9.034 | | 128 | 10 | 130 | 107.5972 | |
| 493 | 23.09 | 12.6 | 35.563 | 7.604 | | 129 | 0 | 131 | 106.9368 | |
| 494 | 23.39 | 12.6 | 35.689 | 1.254 | | 129 | 10 | 131 | 107.9114 | |
| 495 | 23.39 | 12.6 | 35.993 | 3.048 | | 130 | 0 | 132 | 107.6066 | |
| 496 | 23.39 | 12.6 | 35.993 | 0 | | 131 | 10 | 132 | 108.6066 | |
| 497 | 23.39 | 12.6 | 35.993 | 0 | | 131 | 10 | 132 | 108.6066 | |
| 498 | 23.39 | 12.6 | 35.993 | 0 | | 132 | 0 | 133 | 108.6066 | |
| 499 | 23.39 | 12.6 | 35.993 | 0 | | 132 | 10 | 133 | 109.6066 | |
| 500 | 23.39 | 12.6 | 35.993 | 0 | 21.194 | 133 | 0 | 60 | 133 109.6066 | 81.194 |
| 501 | 23.44 | 12.6 | 35.993 | 0 | | 133 | 10 | 134 | 109.6066 | |
| 502 | 23.44 | 12.6 | 36.044 | 0.508 | | 134 | 0 | 134 | 110.5558 | |
| 503 | 23.44 | 12.6 | 36.044 | 0 | | 134 | 10 | 134 | 110.5558 | |
| 504 | 23.47 | 12.6 | 36.044 | 0 | | 135 | 0 | 134 | 110.5558 | |
| 505 | 23.47 | 12.6 | 36.07 | 0.254 | | 135 | 10 | 134 | 110.5304 | |
| 506 | 23.47 | 12.6 | 36.07 | 0 | | 136 | 0 | 135 | 110.5304 | |
| 507 | 23.75 | 12.6 | 36.07 | 0 | | 136 | 10 | 135 | 111.5304 | |
| 508 | 23.83 | 12.6 | 36.349 | 2.794 | | 136 | 0 | 135 | 111.251 | |

| | | | | | | | | | | | |
|-----|-------|------|--------|-------|--------|-----|----|----|-----|----------|--------|
| 509 | 24.31 | 12.6 | 36.425 | 0.762 | | 137 | 0 | | 136 | 111.1748 | C-90 |
| 510 | 25.3 | 12.2 | 36.908 | 4.826 | 9.144 | 137 | 10 | 50 | 137 | 111.6922 | 59.144 |
| 511 | 25.3 | 12.4 | 37.498 | 5.906 | | 138 | 0 | | 139 | 111.7016 | |
| 512 | 26.39 | 12.2 | 37.698 | 2 | | 138 | 10 | | 140 | 113.7016 | |
| 513 | 26.44 | 12.2 | 38.591 | 8.922 | | 139 | 0 | | 141 | 113.6094 | |
| 514 | 26.75 | 12.2 | 38.641 | 0.508 | | 139 | 10 | | 142 | 114.5586 | |
| 515 | 26.85 | 12.2 | 38.946 | 3.048 | | 139 | 0 | | 143 | 115.2538 | |
| 516 | 26.87 | 12.2 | 39.048 | 1.016 | | 140 | 0 | | 144 | 116.1522 | |
| 517 | 26.87 | 12.2 | 39.073 | 0.254 | | 140 | 10 | | 145 | 117.1268 | |
| 518 | 26.9 | 12.2 | 39.073 | 0 | | 141 | 0 | | 146 | 118.1268 | |
| 519 | 26.9 | 12.2 | 39.099 | 0.254 | | 141 | 10 | | 147 | 119.1014 | |
| 520 | 26.9 | 12.2 | 39.099 | 0 | 21.908 | 142 | 0 | 40 | 147 | 120.1014 | 61.908 |
| 521 | 26.9 | 12.2 | 39.099 | 0 | | 142 | 10 | | 148 | 120.1014 | |
| 522 | 26.9 | 12.2 | 39.099 | 0 | | 143 | 0 | | 149 | 121.1014 | |
| 523 | 27.48 | 12.2 | 39.099 | 0 | | 143 | 10 | | 149 | 122.1014 | |
| 524 | 27.64 | 12.2 | 39.683 | 5.842 | | 143 | 0 | | 149 | 121.5172 | |
| 525 | 27.64 | 12.2 | 39.835 | 1.524 | | 144 | 0 | | 150 | 121.3648 | |
| 526 | 27.64 | 12.2 | 39.835 | 0 | | 144 | 10 | | 150 | 122.3648 | |
| 527 | 28.09 | 12.2 | 39.835 | 0 | | 145 | 0 | | 150 | 122.3648 | |
| 528 | 28.09 | 12.2 | 40.292 | 4.572 | | 145 | 10 | | 151 | 121.9076 | |
| 529 | 28.14 | 12.2 | 40.292 | 0 | | 146 | 0 | | 151 | 122.9076 | |
| 530 | 28.14 | 12.2 | 40.343 | 0.508 | 12.446 | 146 | 10 | 50 | 151 | 122.8568 | 62.446 |
| 531 | 28.37 | 12.2 | 40.343 | 0 | | 147 | 0 | | 152 | 122.8568 | |
| 532 | 28.42 | 12.2 | 40.572 | 2.286 | | 147 | 10 | | 152 | 123.6282 | |
| 533 | 28.42 | 12.2 | 40.623 | 0.508 | | 148 | 0 | | 152 | 123.5774 | |
| 534 | 28.42 | 12.2 | 40.623 | 0 | | 148 | 10 | | 152 | 123.5774 | |
| 535 | 28.42 | 12.2 | 40.623 | 0 | | 148 | 0 | | 153 | 123.5774 | |
| 536 | 28.42 | 12.2 | 40.623 | 0 | | 149 | 0 | | 153 | 124.5774 | |
| 537 | 28.42 | 12.2 | 40.623 | 0 | | 149 | 10 | | 153 | 124.5774 | |
| 538 | 30.56 | 10.6 | 40.623 | 0 | | 149 | 0 | | 153 | 124.5774 | |
| 539 | 30.56 | 11.1 | 41.156 | 5.336 | | 150 | 0 | | 154 | 122.4438 | |
| 540 | 30.56 | 11.1 | 41.656 | 5 | 13.13 | 151 | 10 | 40 | 154 | 123.4438 | 53.13 |
| 541 | 30.56 | 11.1 | 41.656 | 0 | | 151 | 10 | | 154 | 123.4438 | |
| 542 | 30.56 | 11.2 | 41.656 | 0 | | 152 | 0 | | 154 | 123.4438 | |
| 543 | 30.56 | 11.2 | 41.756 | 1 | | 153 | 10 | | 155 | 123.4438 | |
| 544 | 30.56 | 11.2 | 41.756 | 0 | | 153 | 10 | | 155 | 124.4438 | |
| 545 | 30.56 | 11.2 | 41.756 | 0 | | 154 | 0 | | 155 | 124.4438 | |
| 546 | 30.56 | 11.2 | 41.756 | 0 | | 154 | 10 | | 155 | 124.4438 | |
| 547 | 30.56 | 11.2 | 41.756 | 0 | | 155 | 0 | | 156 | 124.4438 | |
| 548 | 31.14 | 11 | 41.756 | 0 | | 155 | 10 | | 156 | 125.4438 | |
| 549 | 31.17 | 11.1 | 42.14 | 3.842 | | 155 | 0 | | 156 | 124.8596 | |
| 550 | 31.42 | 11.1 | 42.266 | 1.254 | 6.096 | 156 | 0 | 50 | 157 | 124.8342 | 56.096 |
| 551 | 31.55 | 11.1 | 42.52 | 2.54 | | 156 | 10 | | 157 | 125.5802 | |
| 552 | 31.83 | 11.1 | 42.647 | 1.27 | | 156 | 0 | | 157 | 125.4532 | |
| 553 | 32.66 | 10.9 | 42.926 | 2.794 | | 157 | 0 | | 157 | 125.1738 | |
| 554 | 32.69 | 10.9 | 43.564 | 6.382 | | 157 | 10 | | 158 | 124.3356 | |
| 555 | 32.69 | 10.9 | 43.59 | 0.254 | | 158 | 0 | | 158 | 125.3102 | |
| 556 | 32.69 | 10.9 | 43.59 | 0 | | 158 | 10 | | 158 | 125.3102 | |
| 557 | 32.69 | 10.9 | 43.59 | 0 | | 158 | 0 | | 159 | 125.3102 | |
| 558 | 32.82 | 10.9 | 43.59 | 0 | | 159 | 0 | | 159 | 126.3102 | |
| 559 | 32.84 | 10.9 | 43.717 | 1.27 | | 159 | 10 | | 159 | 126.1832 | |
| 560 | 32.84 | 10.9 | 43.742 | 0.254 | 14.764 | 160 | 0 | 40 | 160 | 126.1578 | 54.764 |
| 561 | 32.84 | 10.9 | 43.742 | 0 | | 160 | 10 | | 160 | 127.1578 | |
| 562 | 32.84 | 10.9 | 43.742 | 0 | | 160 | 0 | | 161 | 127.1578 | |
| 563 | 32.84 | 10.9 | 43.742 | 0 | | 161 | 0 | | 161 | 128.1578 | |
| 564 | 32.84 | 10.9 | 43.742 | 0 | | 161 | 10 | | 161 | 128.1578 | |
| 565 | 32.84 | 10.9 | 43.742 | 0 | | 162 | 0 | | 161 | 128.1578 | |
| 566 | 32.84 | 10.9 | 43.742 | 0 | | 162 | 10 | | 162 | 128.1578 | |
| 567 | 32.84 | 10.9 | 43.742 | 0 | | 162 | 0 | | 162 | 129.1578 | |
| 568 | 32.84 | 10.9 | 43.742 | 0 | | 163 | 0 | | 162 | 129.1578 | |
| 569 | 32.84 | 10.9 | 43.742 | 0 | | 163 | 10 | | 162 | 129.1578 | |
| 570 | 32.84 | 10.9 | 43.742 | 0 | 0 | 163 | 0 | 40 | 163 | 129.1578 | 40 |
| 571 | 32.84 | 10.9 | 43.742 | 0 | | 164 | 0 | | 163 | 130.1578 | |
| 572 | 32.84 | 10.9 | 43.742 | 0 | | 164 | 10 | | 163 | 130.1578 | |
| 573 | 32.84 | 10.9 | 43.742 | 0 | | 165 | 0 | | 163 | 130.1578 | |

| | | | | | | | | | | |
|-----|-------|------|--------|-------|-------|-----|----|-----|----------|--------|
| 574 | 32.84 | 10.9 | 43.742 | 0 | | 165 | 10 | 164 | 130.1578 | C-91 |
| 575 | 32.84 | 10.9 | 43.742 | 0 | | 165 | 0 | 164 | 131.1578 | |
| 576 | 32.84 | 10.9 | 43.742 | 0 | | 165 | 0 | 164 | 131.1578 | |
| 577 | 32.84 | 10.9 | 43.742 | 0 | | 166 | 0 | 164 | 131.1578 | |
| 578 | 32.84 | 10.9 | 43.742 | 0 | | 166 | 10 | 165 | 131.1578 | |
| 579 | 32.84 | 10.9 | 43.742 | 0 | | 166 | 0 | 165 | 132.1578 | |
| 580 | 32.84 | 10.9 | 43.742 | 0 | 0 | 167 | 0 | 165 | 132.1578 | 30 |
| 581 | 33.02 | 10.9 | 43.742 | 0 | | 167 | 10 | 165 | 132.1578 | |
| 582 | 33.55 | 10.5 | 43.92 | 1.778 | | 167 | 0 | 165 | 131.98 | |
| 583 | 33.55 | 10.7 | 44.053 | 1.334 | | 168 | 0 | 166 | 131.4466 | |
| 584 | 33.55 | 10.7 | 44.253 | 2 | | 168 | 10 | 166 | 132.4466 | |
| 585 | 33.55 | 10.7 | 44.253 | 0 | | 168 | 0 | 167 | 132.4466 | |
| 586 | 33.55 | 10.7 | 44.253 | 0 | | 168 | 0 | 167 | 133.4466 | |
| 587 | 33.55 | 10.7 | 44.253 | 0 | | 169 | 0 | 167 | 133.4466 | |
| 588 | 33.55 | 10.7 | 44.253 | 0 | | 169 | 10 | 168 | 133.4466 | |
| 589 | 33.55 | 10.7 | 44.253 | 0 | | 169 | 0 | 168 | 134.4466 | |
| 590 | 33.55 | 10.7 | 44.253 | 0 | 5.112 | 169 | 0 | 169 | 134.4466 | 35.112 |
| 591 | 33.55 | 10.7 | 44.253 | 0 | | 169 | 0 | 169 | 135.4466 | |
| 592 | 33.55 | 10.7 | 44.253 | 0 | | 169 | 0 | 169 | 135.4466 | |
| 593 | 33.55 | 10.7 | 44.253 | 0 | | 169 | 0 | 170 | 135.4466 | |
| 594 | 33.55 | 10.7 | 44.253 | 0 | | 169 | 0 | 170 | 136.4466 | |
| 595 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 170 | 136.4466 | |
| 596 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 10 | 171 | 136.4466 | |
| 597 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 171 | 137.4466 | |
| 598 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 171 | 137.4466 | |
| 599 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 172 | 137.4466 | |
| 600 | 33.55 | 10.7 | 44.253 | 0 | 0 | 170 | 0 | 172 | 138.4466 | 10 |
| 601 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 172 | 138.4466 | |
| 602 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 173 | 138.4466 | |
| 603 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 173 | 139.4466 | |
| 604 | 33.55 | 10.7 | 44.253 | 0 | | 170 | 0 | 173 | 139.4466 | |
| 605 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 174 | 139.4466 | |
| 606 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 10 | 174 | 140.4466 | |
| 607 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 174 | 140.4466 | |
| 608 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 175 | 140.4466 | |
| 609 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 175 | 141.4466 | |
| 610 | 33.55 | 10.7 | 44.253 | 0 | 0 | 171 | 0 | 175 | 141.4466 | 10 |
| 611 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 176 | 141.4466 | |
| 612 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 176 | 142.4466 | |
| 613 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 176 | 142.4466 | |
| 614 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 176 | 142.4466 | |
| 615 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 177 | 142.4466 | |
| 616 | 33.55 | 10.7 | 44.253 | 0 | | 171 | 0 | 177 | 143.4466 | |
| 617 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 177 | 143.4466 | |
| 618 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 10 | 177 | 143.4466 | |
| 619 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 178 | 143.4466 | |
| 620 | 33.55 | 10.7 | 44.253 | 0 | 0 | 172 | 0 | 178 | 144.4466 | 10 |
| 621 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 178 | 144.4466 | |
| 622 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 178 | 144.4466 | |
| 623 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 178 | 144.4466 | |
| 624 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 179 | 144.4466 | |
| 625 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 179 | 145.4466 | |
| 626 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 179 | 145.4466 | |
| 627 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 179 | 145.4466 | |
| 628 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 179 | 145.4466 | |
| 629 | 33.55 | 10.7 | 44.253 | 0 | | 172 | 0 | 180 | 145.4466 | |
| 630 | 33.6 | 10.7 | 44.253 | 0 | 0 | 172 | 0 | 180 | 146.4466 | 0 |
| 631 | 33.6 | 10.7 | 44.304 | 0.508 | | 172 | 0 | 180 | 146.3958 | |
| 632 | 33.6 | 10.7 | 44.304 | 0 | | 172 | 0 | 180 | 146.3958 | |
| 633 | 33.6 | 10.7 | 44.304 | 0 | | 172 | 0 | 180 | 146.3958 | |
| 634 | 33.63 | 10.7 | 44.304 | 0 | | 172 | 0 | 181 | 146.3958 | |
| 635 | 33.63 | 10.7 | 44.33 | 0.254 | | 172 | 0 | 181 | 147.3704 | |
| 636 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 181 | 147.3704 | |
| 637 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 181 | 147.3704 | |
| 638 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 181 | 147.3704 | |

| | | | | | | | | | | |
|-----|-------|------|--------|-------|-------|-----|---|-----|----------|-------|
| 639 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 181 | 147.3704 | C-92 |
| 640 | 33.63 | 10.7 | 44.33 | 0 | 0.762 | 172 | 0 | 181 | 147.3704 | 0.762 |
| 641 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 181 | 147.3704 | |
| 642 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 182 | 147.3704 | |
| 643 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 182 | 148.3704 | |
| 644 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 182 | 148.3704 | |
| 645 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 182 | 148.3704 | |
| 646 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 182 | 148.3704 | |
| 647 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 182 | 148.3704 | |
| 648 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 182 | 148.3704 | |
| 649 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 183 | 148.3704 | |
| 650 | 33.63 | 10.7 | 44.33 | 0 | 0 | 172 | 0 | 183 | 149.3704 | 0 |
| 651 | 33.63 | 10.7 | 44.33 | 0 | | 172 | 0 | 183 | 149.3704 | |
| 652 | 33.83 | 10.5 | 44.33 | 0 | | 172 | 0 | 183 | 149.3704 | |
| 653 | 33.83 | 10.6 | 44.333 | 0.032 | | 172 | 0 | 183 | 149.1672 | |
| 654 | 33.83 | 10.7 | 44.433 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 655 | 33.83 | 10.7 | 44.533 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 656 | 33.83 | 10.8 | 44.533 | 0 | | 172 | 0 | 183 | 149.1672 | |
| 657 | 33.83 | 10.8 | 44.633 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 658 | 33.83 | 10.9 | 44.633 | 0 | | 172 | 0 | 183 | 149.1672 | |
| 659 | 33.83 | 10.9 | 44.733 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 660 | 33.83 | 11 | 44.733 | 0 | 4.032 | 172 | 0 | 183 | 149.1672 | 4.032 |
| 661 | 33.83 | 11.1 | 44.833 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 662 | 33.83 | 11.1 | 44.933 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 663 | 33.83 | 11.2 | 44.933 | 0 | | 172 | 0 | 183 | 149.1672 | |
| 664 | 33.83 | 11.3 | 45.033 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 665 | 33.83 | 11.3 | 45.133 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 666 | 33.83 | 11.4 | 45.133 | 0 | | 172 | 0 | 183 | 149.1672 | |
| 667 | 33.83 | 11.5 | 45.233 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 668 | 33.83 | 11.6 | 45.333 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 669 | 33.83 | 11.6 | 45.433 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 670 | 33.83 | 11.7 | 45.433 | 0 | 7 | 172 | 0 | 183 | 149.1672 | 7 |
| 671 | 33.83 | 11.8 | 45.533 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 672 | 33.83 | 11.9 | 45.633 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 673 | 33.83 | 11.9 | 45.733 | 1 | | 172 | 0 | 183 | 149.1672 | |
| 674 | 33.83 | 12 | 45.733 | 0 | | 172 | 0 | 184 | 149.1672 | |
| 675 | 33.83 | 12.1 | 45.833 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 676 | 33.83 | 12.2 | 45.933 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 677 | 33.83 | 12.3 | 46.033 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 678 | 33.83 | 12.4 | 46.133 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 679 | 33.83 | 12.4 | 46.233 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 680 | 33.83 | 12.5 | 46.233 | 0 | 8 | 172 | 0 | 184 | 150.1672 | 8 |
| 681 | 33.83 | 12.6 | 46.333 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 682 | 33.83 | 12.7 | 46.433 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 683 | 33.83 | 12.8 | 46.533 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 684 | 33.83 | 12.9 | 46.633 | 1 | | 172 | 0 | 184 | 150.1672 | |
| 685 | 33.83 | 12.9 | 46.733 | 1 | | 172 | 0 | 185 | 150.1672 | |
| 686 | 33.83 | 13 | 46.733 | 0 | | 172 | 0 | 185 | 151.1672 | |
| 687 | 33.83 | 13.1 | 46.833 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 688 | 33.83 | 13.2 | 46.933 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 689 | 33.83 | 13.3 | 47.033 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 690 | 33.83 | 13.4 | 47.133 | 1 | 9 | 172 | 0 | 185 | 151.1672 | 9 |
| 691 | 33.83 | 13.4 | 47.233 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 692 | 33.83 | 13.5 | 47.233 | 0 | | 172 | 0 | 185 | 151.1672 | |
| 693 | 33.83 | 13.6 | 47.333 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 694 | 33.83 | 13.7 | 47.433 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 695 | 33.83 | 13.8 | 47.533 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 696 | 33.83 | 13.9 | 47.633 | 1 | | 172 | 0 | 185 | 151.1672 | |
| 697 | 33.83 | 13.9 | 47.733 | 1 | | 172 | 0 | 186 | 151.1672 | |
| 698 | 33.83 | 14 | 47.733 | 0 | | 172 | 0 | 186 | 152.1672 | |
| 699 | 33.83 | 14.1 | 47.833 | 1 | | 172 | 0 | 186 | 152.1672 | |
| 700 | 33.83 | 14.2 | 47.933 | 1 | 8 | 172 | 0 | 186 | 152.1672 | 8 |
| 701 | 33.83 | 14.3 | 48.033 | 1 | | 172 | 0 | 186 | 152.1672 | |
| 702 | 33.83 | 14.4 | 48.133 | 1 | | 172 | 0 | 186 | 152.1672 | |
| 703 | 33.83 | 14.4 | 48.233 | 1 | | 172 | 0 | 186 | 152.1672 | |

| | | | | | | | | | | | |
|-----|-------|------|--------|-------|--------|-----|----|-----|----------|----------|--------|
| 704 | 33.83 | 14.5 | 48.233 | 0 | | 172 | 0 | 186 | 152.1672 | | |
| 705 | 33.83 | 14.6 | 48.333 | 1 | | 172 | 0 | 186 | 152.1672 | C-93 | |
| 706 | 33.83 | 14.7 | 48.433 | 1 | | 172 | 0 | 186 | 152.1672 | | |
| 707 | 33.83 | 14.8 | 48.533 | 1 | | 172 | 0 | 187 | 152.1672 | | |
| 708 | 33.83 | 14.9 | 48.633 | 1 | | 172 | 0 | 187 | 153.1672 | | |
| 709 | 33.83 | 14.9 | 48.733 | 1 | | 172 | 0 | 187 | 153.1672 | | |
| 710 | 33.83 | 15 | 48.733 | 0 | 8 | 172 | 0 | 0 | 187 | 153.1672 | 8 |
| 711 | 33.83 | 15.1 | 48.833 | 1 | | 172 | 0 | | 187 | 153.1672 | |
| 712 | 33.83 | 15.2 | 48.933 | 1 | | 172 | 0 | | 187 | 153.1672 | |
| 713 | 33.83 | 15.3 | 49.033 | 1 | | 172 | 0 | | 187 | 153.1672 | |
| 714 | 33.83 | 15.4 | 49.133 | 1 | | 172 | 0 | | 188 | 153.1672 | |
| 715 | 33.83 | 15.5 | 49.233 | 1 | | 172 | 0 | | 188 | 154.1672 | |
| 716 | 33.83 | 15.5 | 49.333 | 1 | | 172 | 0 | | 188 | 154.1672 | |
| 717 | 33.83 | 15.6 | 49.333 | 0 | | 172 | 0 | | 188 | 154.1672 | |
| 718 | 33.83 | 15.7 | 49.433 | 1 | | 172 | 0 | | 188 | 154.1672 | |
| 719 | 33.83 | 15.8 | 49.533 | 1 | | 172 | 0 | | 188 | 154.1672 | |
| 720 | 33.83 | 15.9 | 49.633 | 1 | 9 | 172 | 0 | 0 | 188 | 154.1672 | 9 |
| 721 | 33.83 | 16 | 49.733 | 1 | | 172 | 0 | | 188 | 154.1672 | |
| 722 | 33.83 | 16 | 49.833 | 1 | | 172 | 0 | | 189 | 154.1672 | |
| 723 | 33.83 | 16.1 | 49.833 | 0 | | 172 | 0 | | 189 | 155.1672 | |
| 724 | 33.83 | 16.2 | 49.933 | 1 | | 172 | 0 | | 189 | 155.1672 | |
| 725 | 33.83 | 16.3 | 50.033 | 1 | | 172 | 0 | | 189 | 155.1672 | |
| 726 | 33.83 | 16.4 | 50.133 | 1 | | 172 | 0 | | 189 | 155.1672 | |
| 727 | 33.83 | 16.5 | 50.233 | 1 | | 172 | 0 | | 189 | 155.1672 | |
| 728 | 33.83 | 16.6 | 50.333 | 1 | | 172 | 0 | | 189 | 155.1672 | |
| 729 | 33.83 | 16.6 | 50.433 | 1 | | 172 | 0 | | 189 | 155.1672 | |
| 730 | 33.83 | 16.7 | 50.433 | 0 | 8 | 172 | 0 | 0 | 189 | 155.1672 | 8 |
| 731 | 33.83 | 16.8 | 50.533 | 1 | | 172 | 0 | | 189 | 155.1672 | |
| 732 | 33.83 | 16.9 | 50.633 | 1 | | 172 | 0 | | 190 | 155.1672 | |
| 733 | 34.44 | 16.6 | 50.733 | 1 | | 172 | 0 | | 190 | 156.1672 | |
| 734 | 34.54 | 16.7 | 51.042 | 3.096 | | 172 | 0 | | 190 | 155.5576 | |
| 735 | 34.54 | 17 | 51.244 | 2.016 | | 172 | 0 | | 190 | 155.456 | |
| 736 | 34.54 | 17.1 | 51.544 | 3 | | 172 | 0 | | 190 | 155.456 | |
| 737 | 34.54 | 17.2 | 51.644 | 1 | | 172 | 0 | | 190 | 155.456 | |
| 738 | 34.54 | 17.3 | 51.744 | 1 | | 172 | 0 | | 190 | 155.456 | |
| 739 | 34.54 | 17.4 | 51.844 | 1 | | 172 | 0 | | 190 | 155.456 | |
| 740 | 34.54 | 17.5 | 51.944 | 1 | 15.112 | 172 | 0 | 0 | 190 | 155.456 | 15.112 |
| 741 | 34.54 | 17.6 | 52.044 | 1 | | 172 | 0 | | 190 | 155.456 | |
| 742 | 35.13 | 17.5 | 52.144 | 1 | | 172 | 0 | | 191 | 155.456 | |
| 743 | 35.15 | 17.7 | 52.628 | 4.842 | | 172 | 0 | | 191 | 155.8718 | |
| 744 | 35.15 | 17.8 | 52.854 | 2.254 | | 172 | 0 | | 191 | 155.8464 | |
| 745 | 35.15 | 18 | 52.954 | 1 | | 172 | 0 | | 191 | 155.8464 | |
| 746 | 35.15 | 18.1 | 53.154 | 2 | | 172 | 0 | | 191 | 155.8464 | |
| 747 | 35.15 | 18.2 | 53.254 | 1 | | 172 | 0 | | 191 | 155.8464 | |
| 748 | 35.15 | 18.3 | 53.354 | 1 | | 172 | 0 | | 191 | 155.8464 | |
| 749 | 35.15 | 18.3 | 53.454 | 1 | | 172 | 0 | | 191 | 155.8464 | |
| 750 | 35.15 | 18.4 | 53.454 | 0 | 15.096 | 172 | 0 | 0 | 191 | 155.8464 | 15.096 |
| 751 | 35.15 | 18.5 | 53.554 | 1 | | 172 | 0 | | 191 | 155.8464 | |
| 752 | 35.15 | 18.6 | 53.654 | 1 | | 172 | 0 | | 191 | 155.8464 | |
| 753 | 35.15 | 18.7 | 53.754 | 1 | | 172 | 0 | | 191 | 155.8464 | |
| 754 | 35.15 | 18.8 | 53.854 | 1 | | 172 | 0 | | 192 | 155.8464 | |
| 755 | 35.15 | 18.9 | 53.954 | 1 | | 172 | 0 | | 192 | 156.8464 | |
| 756 | 35.15 | 19 | 54.054 | 1 | | 172 | 0 | | 192 | 156.8464 | |
| 757 | 35.15 | 19 | 54.154 | 1 | | 172 | 0 | | 192 | 156.8464 | |
| 758 | 35.15 | 19.1 | 54.154 | 0 | | 172 | 0 | | 192 | 156.8464 | |
| 759 | 35.15 | 19.2 | 54.254 | 1 | | 172 | 0 | | 192 | 156.8464 | |
| 760 | 35.15 | 19.3 | 54.354 | 1 | 9 | 173 | 0 | 0 | 192 | 156.8464 | 9 |
| 761 | 35.15 | 19.3 | 54.454 | 1 | | 173 | 10 | | 192 | 156.8464 | |
| 762 | 35.15 | 19.4 | 54.454 | 0 | | 173 | 0 | | 192 | 156.8464 | |
| 763 | 35.15 | 19.5 | 54.554 | 1 | | 173 | 0 | | 192 | 156.8464 | |
| 764 | 35.15 | 19.5 | 54.654 | 1 | | 173 | 0 | | 192 | 156.8464 | |
| 765 | 35.15 | 19.6 | 54.654 | 0 | | 173 | 0 | | 192 | 156.8464 | |
| 766 | 35.15 | 19.6 | 54.754 | 1 | | 173 | 0 | | 192 | 156.8464 | |
| 767 | 35.15 | 19.7 | 54.754 | 0 | | 174 | 0 | | 192 | 156.8464 | |
| 768 | 35.15 | 19.7 | 54.854 | 1 | | 174 | 10 | | 192 | 156.8464 | |

SCSMatP112

ET=247.913 [84T,164E] Increase= 119.2 [92.6%]

C-97

| Time [day] | CumP [cm] | sum(vTop) [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc) [L] | Daily T [mm] | 10day T [mm/10d] | sum(vBot) [L] | Cumm Dis [cm] | 10day ET [mm/10d] |
|------------|-----------|---------------|-------------|------------------|------------------|---------------|--------------|------------------|---------------|---------------|-------------------|
| 650 | 33.63 | 213 | 246.63 | 10 | 30 | 169 | 0 | 0 | 404 | 370.3704 | 30 |
| 651 | 33.63 | 213 | 246.63 | 0 | | 169 | 0 | | 405 | 370.3704 | |
| 652 | 33.83 | 213 | 246.63 | 0 | | 169 | 0 | | 405 | 371.3704 | |
| 653 | 33.83 | 213 | 246.83 | 2.032 | | 169 | 0 | | 406 | 371.1672 | |
| 654 | 33.83 | 213 | 246.83 | 0 | | 169 | 0 | | 406 | 372.1672 | |
| 655 | 33.83 | 213 | 246.83 | 0 | | 169 | 0 | | 406 | 372.1672 | |
| 656 | 33.83 | 214 | 246.83 | 0 | | 169 | 0 | | 407 | 372.1672 | |
| 657 | 33.83 | 214 | 247.83 | 10 | | 169 | 0 | | 407 | 373.1672 | |
| 658 | 33.83 | 214 | 247.83 | 0 | | 169 | 0 | | 407 | 373.1672 | |
| 659 | 33.83 | 215 | 247.83 | 0 | | 169 | 0 | | 408 | 373.1672 | |
| 660 | 33.83 | 215 | 248.83 | 10 | 22.032 | 169 | 0 | 0 | 408 | 374.1672 | 22.032 |
| 661 | 33.83 | 215 | 248.83 | 0 | | 169 | 0 | | 408 | 374.1672 | |
| 662 | 33.83 | 216 | 248.83 | 0 | | 169 | 0 | | 408 | 374.1672 | |
| 663 | 33.83 | 216 | 249.83 | 10 | | 169 | 0 | | 409 | 374.1672 | |
| 664 | 33.83 | 216 | 249.83 | 0 | | 169 | 0 | | 409 | 375.1672 | |
| 665 | 33.83 | 217 | 249.83 | 0 | | 169 | 0 | | 409 | 375.1672 | |
| 666 | 33.83 | 217 | 250.83 | 10 | | 169 | 0 | | 410 | 375.1672 | |
| 667 | 33.83 | 217 | 250.83 | 0 | | 169 | 0 | | 410 | 376.1672 | |
| 668 | 33.83 | 218 | 250.83 | 0 | | 169 | 0 | | 410 | 376.1672 | |
| 669 | 33.83 | 218 | 251.83 | 10 | | 169 | 0 | | 411 | 376.1672 | |
| 670 | 33.83 | 219 | 251.83 | 0 | 30 | 169 | 0 | 0 | 411 | 377.1672 | 30 |
| 671 | 33.83 | 219 | 252.83 | 10 | | 169 | 0 | | 411 | 377.1672 | |
| 672 | 33.83 | 219 | 252.83 | 0 | | 169 | 0 | | 412 | 377.1672 | |
| 673 | 33.83 | 220 | 252.83 | 0 | | 169 | 0 | | 412 | 378.1672 | |
| 674 | 33.83 | 220 | 253.83 | 10 | | 169 | 0 | | 412 | 378.1672 | |
| 675 | 33.83 | 221 | 253.83 | 0 | | 169 | 0 | | 413 | 378.1672 | |
| 676 | 33.83 | 221 | 254.83 | 10 | | 169 | 0 | | 413 | 379.1672 | |
| 677 | 33.83 | 222 | 254.83 | 0 | | 169 | 0 | | 413 | 379.1672 | |
| 678 | 33.83 | 222 | 255.83 | 10 | | 169 | 0 | | 414 | 379.1672 | |
| 679 | 33.83 | 223 | 255.83 | 0 | | 169 | 0 | | 414 | 380.1672 | |
| 680 | 33.83 | 223 | 256.83 | 10 | 50 | 169 | 0 | 0 | 415 | 380.1672 | 50 |
| 681 | 33.83 | 224 | 256.83 | 0 | | 169 | 0 | | 415 | 381.1672 | |
| 682 | 33.83 | 224 | 257.83 | 10 | | 169 | 0 | | 415 | 381.1672 | |
| 683 | 33.83 | 225 | 257.83 | 0 | | 169 | 0 | | 416 | 381.1672 | |
| 684 | 33.83 | 225 | 258.83 | 10 | | 169 | 0 | | 416 | 382.1672 | |
| 685 | 33.83 | 226 | 258.83 | 0 | | 169 | 0 | | 416 | 382.1672 | |
| 686 | 33.83 | 226 | 259.83 | 10 | | 169 | 0 | | 417 | 382.1672 | |
| 687 | 33.83 | 226 | 259.83 | 0 | | 169 | 0 | | 417 | 383.1672 | |
| 688 | 33.83 | 226 | 259.83 | 0 | | 169 | 0 | | 418 | 383.1672 | |
| 689 | 33.83 | 227 | 259.83 | 0 | | 169 | 0 | | 418 | 384.1672 | |
| 690 | 33.83 | 227 | 260.83 | 10 | 40 | 169 | 0 | 0 | 418 | 384.1672 | 40 |
| 691 | 33.83 | 228 | 260.83 | 0 | | 169 | 0 | | 419 | 384.1672 | |
| 692 | 33.83 | 228 | 261.83 | 10 | | 169 | 0 | | 419 | 385.1672 | |
| 693 | 33.83 | 229 | 261.83 | 0 | | 169 | 0 | | 420 | 385.1672 | |
| 694 | 33.83 | 229 | 262.83 | 10 | | 169 | 0 | | 420 | 386.1672 | |
| 695 | 33.83 | 229 | 262.83 | 0 | | 169 | 0 | | 420 | 386.1672 | |
| 696 | 33.83 | 230 | 262.83 | 0 | | 169 | 0 | | 421 | 386.1672 | |
| 697 | 33.83 | 230 | 263.83 | 10 | | 169 | 0 | | 421 | 387.1672 | |
| 698 | 33.83 | 231 | 263.83 | 0 | | 169 | 0 | | 421 | 387.1672 | |
| 699 | 33.83 | 232 | 264.83 | 10 | | 169 | 0 | | 422 | 387.1672 | |
| 700 | 33.83 | 232 | 265.83 | 10 | 50 | 169 | 0 | 0 | 422 | 388.1672 | 50 |
| 701 | 33.83 | 233 | 265.83 | 0 | | 169 | 0 | | 423 | 388.1672 | |
| 702 | 33.83 | 233 | 266.83 | 10 | | 169 | 0 | | 423 | 389.1672 | |
| 703 | 33.83 | 234 | 266.83 | 0 | | 169 | 0 | | 424 | 389.1672 | |
| 704 | 33.83 | 235 | 267.83 | 10 | | 169 | 0 | | 424 | 390.1672 | |
| 705 | 33.83 | 235 | 268.83 | 10 | | 169 | 0 | | 424 | 390.1672 | |
| 706 | 33.83 | 236 | 268.83 | 0 | | 169 | 0 | | 425 | 390.1672 | |
| 707 | 33.83 | 236 | 269.83 | 10 | | 169 | 0 | | 425 | 391.1672 | |
| 708 | 33.83 | 237 | 269.83 | 0 | | 169 | 0 | | 426 | 391.1672 | |
| 709 | 33.83 | 238 | 270.83 | 10 | | 169 | 0 | | 426 | 392.1672 | |
| 710 | 33.83 | 238 | 271.83 | 10 | 60 | 169 | 0 | 0 | 427 | 392.1672 | 60 |
| 711 | 33.83 | 239 | 271.83 | 0 | | 169 | 0 | | 427 | 393.1672 | |

| | | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|-----|----------|----------|---------|
| 842 | 52.63 | 302 | 353.61 | 0 | | 197 | 0 | 511 | 458.394 | C-100 | |
| 843 | 52.68 | 302 | 354.63 | 10.254 | | 197 | 10 | 512 | 458.3686 | | |
| 844 | 52.73 | 302 | 354.68 | 0.508 | | 198 | 0 | 513 | 459.3178 | | |
| 845 | 52.73 | 302 | 354.73 | 0.508 | | 198 | 10 | 513 | 460.267 | | |
| 846 | 52.73 | 302 | 354.73 | 0 | | 199 | 0 | 514 | 460.267 | | |
| 847 | 53.27 | 303 | 354.73 | 0 | | 200 | 10 | 514 | 461.267 | | |
| 848 | 53.27 | 303 | 356.27 | 15.334 | | 200 | 10 | 515 | 460.7336 | | |
| 849 | 53.27 | 303 | 356.27 | 0 | | 201 | 0 | 515 | 461.7336 | | |
| 850 | 53.27 | 303 | 356.27 | 0 | 26.604 | 201 | 10 | 60 | 516 | 461.7336 | 86.604 |
| 851 | 53.27 | 303 | 356.27 | 0 | | 202 | 0 | 517 | 462.7336 | | |
| 852 | 53.27 | 303 | 356.27 | 0 | | 202 | 10 | 517 | 463.7336 | | |
| 853 | 53.27 | 303 | 356.27 | 0 | | 203 | 0 | 518 | 463.7336 | | |
| 854 | 53.29 | 303 | 356.27 | 0 | | 203 | 10 | 518 | 464.7336 | | |
| 855 | 53.32 | 304 | 356.29 | 0.254 | | 204 | 0 | 519 | 464.7082 | | |
| 856 | 56.12 | 302 | 357.32 | 10.254 | | 204 | 10 | 519 | 465.6828 | | |
| 857 | 56.12 | 302 | 358.12 | 8.034 | | 205 | 0 | 520 | 462.8794 | | |
| 858 | 56.12 | 303 | 358.12 | 0 | | 206 | 10 | 521 | 463.8794 | | |
| 859 | 56.12 | 303 | 359.12 | 10 | | 206 | 10 | 521 | 464.8794 | | |
| 860 | 56.12 | 303 | 359.12 | 0 | 28.542 | 207 | 0 | 50 | 522 | 464.8794 | 78.542 |
| 861 | 56.89 | 303 | 359.12 | 0 | | 207 | 10 | 523 | 465.8794 | | |
| 862 | 56.89 | 304 | 359.89 | 7.7 | | 208 | 0 | 523 | 466.1094 | | |
| 863 | 56.89 | 304 | 360.89 | 10 | | 209 | 10 | 524 | 466.1094 | | |
| 864 | 56.89 | 304 | 360.89 | 0 | | 209 | 10 | 525 | 467.1094 | | |
| 865 | 56.89 | 304 | 360.89 | 0 | | 210 | 0 | 525 | 468.1094 | | |
| 866 | 56.94 | 304 | 360.89 | 0 | | 210 | 10 | 526 | 468.1094 | | |
| 867 | 56.94 | 304 | 360.94 | 0.508 | | 211 | 0 | 526 | 469.0586 | | |
| 868 | 56.94 | 304 | 360.94 | 0 | | 212 | 10 | 527 | 469.0586 | | |
| 869 | 56.97 | 304 | 360.94 | 0 | | 212 | 10 | 527 | 470.0586 | | |
| 870 | 56.97 | 304 | 360.97 | 0.254 | 18.462 | 213 | 0 | 60 | 528 | 470.0332 | 78.462 |
| 871 | 56.97 | 304 | 360.97 | 0 | | 213 | 10 | 528 | 471.0332 | | |
| 872 | 57.25 | 304 | 360.97 | 0 | | 214 | 0 | 529 | 471.0332 | | |
| 873 | 57.32 | 304 | 361.25 | 2.794 | | 214 | 10 | 529 | 471.7538 | | |
| 874 | 57.81 | 305 | 361.32 | 0.762 | | 215 | 0 | 530 | 471.6776 | | |
| 875 | 58.8 | 304 | 362.81 | 14.826 | | 215 | 10 | 531 | 472.195 | | |
| 876 | 58.8 | 305 | 362.8 | -0.094 | | 216 | 0 | 533 | 472.2044 | | |
| 877 | 59.89 | 304 | 363.8 | 10 | | 216 | 10 | 534 | 474.2044 | | |
| 878 | 59.94 | 305 | 363.89 | 0.922 | | 216 | 0 | 535 | 474.1122 | | |
| 879 | 61.99 | 303 | 364.94 | 10.508 | | 217 | 0 | 536 | 475.0614 | | |
| 880 | 62.09 | 304 | 364.99 | 0.48 | 40.198 | 217 | 10 | 50 | 537 | 474.0134 | 90.198 |
| 881 | 63.13 | 303 | 366.09 | 11.016 | | 218 | 0 | 538 | 474.9118 | | |
| 882 | 63.13 | 304 | 366.13 | 0.4 | | 218 | 10 | 539 | 474.8718 | | |
| 883 | 63.15 | 304 | 367.13 | 10 | | 219 | 0 | 540 | 475.8718 | | |
| 884 | 63.15 | 305 | 367.15 | 0.254 | | 219 | 10 | 541 | 476.8464 | | |
| 885 | 63.15 | 305 | 368.15 | 10 | | 220 | 0 | 542 | 477.8464 | | |
| 886 | 63.15 | 306 | 368.15 | 0 | | 220 | 10 | 543 | 478.8464 | | |
| 887 | 63.15 | 306 | 369.15 | 10 | | 221 | 0 | 543 | 479.8464 | | |
| 888 | 63.74 | 306 | 369.15 | 0 | | 221 | 10 | 544 | 479.8464 | | |
| 889 | 63.89 | 307 | 369.74 | 5.842 | | 222 | 0 | 545 | 480.2622 | | |
| 890 | 63.89 | 307 | 370.89 | 11.524 | 59.036 | 223 | 10 | 50 | 546 | 481.1098 | 109.036 |
| 891 | 63.89 | 308 | 370.89 | 0 | | 223 | 10 | 546 | 482.1098 | | |
| 892 | 65.56 | 307 | 371.89 | 10 | | 224 | 0 | 547 | 482.1098 | | |
| 893 | 65.56 | 308 | 372.56 | 6.7 | | 224 | 10 | 548 | 481.4398 | | |
| 894 | 65.61 | 308 | 373.56 | 10 | | 225 | 0 | 548 | 482.4398 | | |
| 895 | 65.61 | 309 | 373.61 | 0.508 | | 225 | 10 | 549 | 482.389 | | |
| 896 | 65.61 | 309 | 374.61 | 10 | | 226 | 0 | 550 | 483.389 | | |
| 897 | 65.66 | 309 | 374.61 | 0 | | 226 | 10 | 550 | 484.389 | | |
| 898 | 65.66 | 310 | 374.66 | 0.508 | | 227 | 0 | 551 | 484.3382 | | |
| 899 | 65.66 | 310 | 375.66 | 10 | | 227 | 10 | 551 | 485.3382 | | |
| 900 | 65.66 | 310 | 375.66 | 0 | 47.716 | 228 | 0 | 50 | 552 | 485.3382 | 97.716 |
| 901 | 65.66 | 310 | 375.66 | 0 | | 228 | 10 | 553 | 486.3382 | | |
| 902 | 65.66 | 311 | 375.66 | 0 | | 229 | 0 | 553 | 487.3382 | | |
| 903 | 67.8 | 309 | 376.66 | 10 | | 229 | 10 | 554 | 487.3382 | | |
| 904 | 67.8 | 310 | 376.8 | 1.336 | | 230 | 0 | 554 | 486.2046 | | |
| 905 | 67.8 | 310 | 377.8 | 10 | | 230 | 10 | 555 | 486.2046 | | |
| 906 | 67.8 | 311 | 377.8 | 0 | | 231 | 0 | 556 | 487.2046 | | |

| | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|-----|----------|--------|
| 907 | 67.8 | 311 | 378.8 | 10 | | 231 | 10 | 556 | 488.2046 | C-101 |
| 908 | 67.8 | 311 | 378.8 | 0 | | 232 | 0 | 557 | 488.2046 | |
| 909 | 67.8 | 311 | 378.8 | 0 | | 232 | 10 | 557 | 489.2046 | |
| 910 | 67.8 | 312 | 378.8 | 0 | 31.336 | 233 | 0 | 558 | 489.2046 | 81.336 |
| 911 | 67.8 | 312 | 379.8 | 10 | | 233 | 10 | 558 | 490.2046 | |
| 912 | 67.8 | 312 | 379.8 | 0 | | 234 | 0 | 559 | 490.2046 | |
| 913 | 68.38 | 312 | 379.8 | 0 | | 234 | 10 | 560 | 491.2046 | |
| 914 | 68.38 | 312 | 380.38 | 5.842 | | 235 | 0 | 560 | 491.6204 | |
| 915 | 68.38 | 313 | 380.38 | 0 | | 235 | 10 | 561 | 491.6204 | |
| 916 | 68.51 | 313 | 381.38 | 10 | | 236 | 0 | 561 | 492.6204 | |
| 917 | 68.79 | 313 | 381.51 | 1.27 | | 236 | 10 | 562 | 492.4934 | |
| 918 | 69.62 | 313 | 381.79 | 2.794 | | 236 | 0 | 562 | 493.214 | |
| 919 | 69.62 | 313 | 382.62 | 8.382 | | 237 | 0 | 563 | 492.3758 | |
| 920 | 69.62 | 313 | 382.62 | 0 | 38.288 | 237 | 10 | 564 | 493.3758 | 88.288 |
| 921 | 69.62 | 313 | 382.62 | 0 | | 238 | 0 | 564 | 494.3758 | |
| 922 | 69.62 | 314 | 382.62 | 0 | | 238 | 10 | 565 | 494.3758 | |
| 923 | 69.75 | 314 | 383.62 | 10 | | 239 | 0 | 565 | 495.3758 | |
| 924 | 69.75 | 314 | 383.75 | 1.27 | | 239 | 10 | 566 | 495.2488 | |
| 925 | 69.75 | 314 | 383.75 | 0 | | 239 | 0 | 567 | 496.2488 | |
| 926 | 69.75 | 314 | 383.75 | 0 | | 240 | 0 | 567 | 497.2488 | |
| 927 | 69.75 | 315 | 383.75 | 0 | | 240 | 10 | 568 | 497.2488 | |
| 928 | 69.75 | 315 | 384.75 | 10 | | 241 | 0 | 568 | 498.2488 | |
| 929 | 69.75 | 315 | 384.75 | 0 | | 241 | 10 | 569 | 498.2488 | |
| 930 | 69.75 | 315 | 384.75 | 0 | 21.27 | 242 | 0 | 570 | 499.2488 | 61.27 |
| 931 | 69.75 | 315 | 384.75 | 0 | | 242 | 10 | 570 | 500.2488 | |
| 932 | 69.75 | 315 | 384.75 | 0 | | 243 | 0 | 571 | 500.2488 | |
| 933 | 69.75 | 316 | 384.75 | 0 | | 243 | 10 | 571 | 501.2488 | |
| 934 | 69.75 | 316 | 385.75 | 10 | | 244 | 0 | 572 | 501.2488 | |
| 935 | 69.75 | 316 | 385.75 | 0 | | 244 | 10 | 572 | 502.2488 | |
| 936 | 69.75 | 316 | 385.75 | 0 | | 245 | 0 | 573 | 502.2488 | |
| 937 | 69.75 | 316 | 385.75 | 0 | | 245 | 10 | 573 | 503.2488 | |
| 938 | 69.75 | 316 | 385.75 | 0 | | 245 | 0 | 574 | 503.2488 | |
| 939 | 69.75 | 317 | 385.75 | 0 | | 246 | 0 | 574 | 504.2488 | |
| 940 | 69.75 | 317 | 386.75 | 10 | 20 | 246 | 10 | 575 | 504.2488 | 70 |
| 941 | 69.75 | 317 | 386.75 | 0 | | 246 | 0 | 575 | 505.2488 | |
| 942 | 69.75 | 317 | 386.75 | 0 | | 247 | 0 | 576 | 505.2488 | |
| 943 | 69.75 | 317 | 386.75 | 0 | | 247 | 10 | 576 | 506.2488 | |
| 944 | 69.75 | 317 | 386.75 | 0 | | 248 | 0 | 577 | 506.2488 | |
| 945 | 69.75 | 317 | 386.75 | 0 | | 248 | 10 | 577 | 507.2488 | |
| 946 | 69.75 | 318 | 386.75 | 0 | | 248 | 0 | 578 | 507.2488 | |
| 947 | 70.28 | 317 | 387.75 | 10 | | 248 | 0 | 578 | 508.2488 | |
| 948 | 70.28 | 318 | 387.28 | -4.666 | | 249 | 0 | 579 | 507.7154 | |
| 949 | 70.28 | 318 | 388.28 | 10 | | 249 | 10 | 579 | 508.7154 | |
| 950 | 70.28 | 318 | 388.28 | 0 | 15.334 | 250 | 0 | 580 | 508.7154 | 45.334 |
| 951 | 70.28 | 318 | 388.28 | 0 | | 250 | 10 | 581 | 509.7154 | |
| 952 | 70.28 | 319 | 388.28 | 0 | | 250 | 0 | 581 | 510.7154 | |
| 953 | 70.28 | 319 | 389.28 | 10 | | 250 | 0 | 582 | 510.7154 | |
| 954 | 70.28 | 319 | 389.28 | 0 | | 250 | 0 | 583 | 511.7154 | |
| 955 | 70.28 | 319 | 389.28 | 0 | | 251 | 0 | 583 | 512.7154 | |
| 956 | 70.28 | 319 | 389.28 | 0 | | 251 | 10 | 584 | 512.7154 | |
| 957 | 70.28 | 320 | 389.28 | 0 | | 251 | 0 | 584 | 513.7154 | |
| 958 | 70.28 | 320 | 390.28 | 10 | | 251 | 0 | 585 | 513.7154 | |
| 959 | 70.28 | 320 | 390.28 | 0 | | 251 | 0 | 585 | 514.7154 | |
| 960 | 70.28 | 321 | 390.28 | 0 | 20 | 251 | 0 | 586 | 514.7154 | 40 |
| 961 | 70.28 | 321 | 391.28 | 10 | | 251 | 0 | 586 | 515.7154 | |
| 962 | 70.28 | 321 | 391.28 | 0 | | 251 | 0 | 587 | 515.7154 | |
| 963 | 70.28 | 322 | 391.28 | 0 | | 252 | 0 | 588 | 516.7154 | |
| 964 | 70.28 | 322 | 392.28 | 10 | | 252 | 10 | 588 | 517.7154 | |
| 965 | 70.28 | 322 | 392.28 | 0 | | 252 | 0 | 589 | 517.7154 | |
| 966 | 70.28 | 323 | 392.28 | 0 | | 252 | 0 | 589 | 518.7154 | |
| 967 | 70.28 | 323 | 393.28 | 10 | | 252 | 0 | 590 | 518.7154 | |
| 968 | 70.28 | 323 | 393.28 | 0 | | 252 | 0 | 591 | 519.7154 | |
| 969 | 70.28 | 324 | 393.28 | 0 | | 252 | 0 | 591 | 520.7154 | |
| 970 | 70.28 | 324 | 394.28 | 10 | 40 | 252 | 0 | 592 | 520.7154 | 50 |
| 971 | 70.28 | 325 | 394.28 | 0 | | 252 | 0 | 593 | 521.7154 | |

| | | | | | | | | | | |
|------|-------|-----|--------|-------|--------|-----|----|-----|----------|--------|
| 972 | 70.28 | 325 | 395.28 | 10 | | 252 | 0 | 593 | 522.7154 | C-102 |
| 973 | 70.28 | 326 | 395.28 | 0 | | 252 | 0 | 594 | 522.7154 | |
| 974 | 70.28 | 326 | 396.28 | 10 | | 253 | 0 | 595 | 523.7154 | |
| 975 | 70.28 | 326 | 396.28 | 0 | | 253 | 10 | 595 | 524.7154 | |
| 976 | 70.28 | 327 | 396.28 | 0 | | 253 | 0 | 596 | 524.7154 | |
| 977 | 70.28 | 327 | 397.28 | 10 | | 253 | 0 | 596 | 525.7154 | |
| 978 | 70.28 | 328 | 397.28 | 0 | | 253 | 0 | 597 | 525.7154 | |
| 979 | 70.28 | 328 | 398.28 | 10 | | 253 | 0 | 598 | 526.7154 | |
| 980 | 70.28 | 329 | 398.28 | 0 | 40 | 253 | 0 | 598 | 527.7154 | 50 |
| 981 | 70.28 | 329 | 399.28 | 10 | | 253 | 0 | 599 | 527.7154 | |
| 982 | 70.28 | 330 | 399.28 | 0 | | 253 | 0 | 599 | 528.7154 | |
| 983 | 70.28 | 330 | 400.28 | 10 | | 253 | 0 | 600 | 528.7154 | |
| 984 | 70.28 | 330 | 400.28 | 0 | | 253 | 0 | 601 | 529.7154 | |
| 985 | 70.28 | 331 | 400.28 | 0 | | 253 | 0 | 601 | 530.7154 | |
| 986 | 70.28 | 331 | 401.28 | 10 | | 253 | 0 | 602 | 530.7154 | |
| 987 | 70.28 | 332 | 401.28 | 0 | | 253 | 0 | 602 | 531.7154 | |
| 988 | 70.28 | 332 | 402.28 | 10 | | 253 | 0 | 603 | 531.7154 | |
| 989 | 70.28 | 333 | 402.28 | 0 | | 253 | 0 | 604 | 532.7154 | |
| 990 | 70.28 | 333 | 403.28 | 10 | 50 | 253 | 0 | 604 | 533.7154 | 50 |
| 991 | 70.28 | 333 | 403.28 | 0 | | 253 | 0 | 605 | 533.7154 | |
| 992 | 70.28 | 334 | 403.28 | 0 | | 253 | 0 | 605 | 534.7154 | |
| 993 | 70.28 | 334 | 404.28 | 10 | | 253 | 0 | 606 | 534.7154 | |
| 994 | 70.28 | 335 | 404.28 | 0 | | 253 | 0 | 606 | 535.7154 | |
| 995 | 70.36 | 335 | 405.28 | 10 | | 253 | 0 | 607 | 535.7154 | |
| 996 | 70.36 | 335 | 405.36 | 0.8 | | 253 | 0 | 608 | 536.6354 | |
| 997 | 70.36 | 335 | 405.36 | 0 | | 253 | 0 | 608 | 537.6354 | |
| 998 | 70.36 | 336 | 405.36 | 0 | | 253 | 0 | 609 | 537.6354 | |
| 999 | 70.54 | 336 | 406.36 | 10 | | 253 | 0 | 609 | 538.6354 | |
| 1000 | 70.54 | 336 | 406.54 | 1.78 | 32.58 | 253 | 0 | 610 | 538.4574 | 32.58 |
| 1001 | 70.54 | 336 | 406.54 | 0 | | 253 | 0 | 610 | 539.4574 | |
| 1002 | 70.54 | 337 | 406.54 | 0 | | 253 | 0 | 611 | 539.4574 | |
| 1003 | 70.54 | 337 | 407.54 | 10 | | 253 | 0 | 611 | 540.4574 | |
| 1004 | 70.54 | 337 | 407.54 | 0 | | 253 | 0 | 612 | 540.4574 | |
| 1005 | 70.54 | 338 | 407.54 | 0 | | 253 | 0 | 612 | 541.4574 | |
| 1006 | 70.54 | 338 | 408.54 | 10 | | 253 | 0 | 613 | 541.4574 | |
| 1007 | 70.54 | 339 | 408.54 | 0 | | 253 | 0 | 613 | 542.4574 | |
| 1008 | 70.54 | 339 | 409.54 | 10 | | 253 | 0 | 614 | 542.4574 | |
| 1009 | 70.54 | 339 | 409.54 | 0 | | 253 | 0 | 614 | 543.4574 | |
| 1010 | 70.54 | 340 | 409.54 | 0 | 30 | 253 | 0 | 615 | 543.4574 | 30 |
| 1011 | 70.54 | 340 | 410.54 | 10 | | 253 | 0 | 616 | 544.4574 | |
| 1012 | 70.54 | 340 | 410.54 | 0 | | 253 | 0 | 616 | 545.4574 | |
| 1013 | 70.54 | 340 | 410.54 | 0 | | 253 | 0 | 617 | 545.4574 | |
| 1014 | 70.54 | 340 | 410.54 | 0 | | 253 | 0 | 617 | 546.4574 | |
| 1015 | 70.54 | 341 | 410.54 | 0 | | 253 | 0 | 618 | 546.4574 | |
| 1016 | 70.54 | 341 | 411.54 | 10 | | 253 | 0 | 618 | 547.4574 | |
| 1017 | 70.75 | 341 | 411.54 | 0 | | 253 | 0 | 619 | 547.4574 | |
| 1018 | 70.75 | 341 | 411.75 | 2.032 | | 253 | 0 | 619 | 548.2542 | |
| 1019 | 70.75 | 341 | 411.75 | 0 | | 253 | 0 | 619 | 548.2542 | |
| 1020 | 70.75 | 341 | 411.75 | 0 | 22.032 | 253 | 0 | 620 | 548.2542 | 22.032 |
| 1021 | 70.75 | 341 | 411.75 | 0 | | 253 | 0 | 620 | 549.2542 | |
| 1022 | 70.75 | 342 | 411.75 | 0 | | 253 | 0 | 621 | 549.2542 | |

end

| SCSMatP162 | | | | ET=306.92 [75T,232E] Increase= 178.2 [138.5%] | | | | | | | |
|------------|-----------|---------------|-------------|-----------------------------------------------|------------------|---------------|--------------|------------------|---------------|---------------|-------------------|
| Time [day] | CumP [cm] | sum(vTop) [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc) [L] | Daily T [mm] | 10day T [mm/10d] | sum(vBot) [L] | Cumm Dis [cm] | 10day ET [mm/10d] |
| 650 | 33.63 | 349 | 382.63 | 10 | 30 | 151 | 0 | 0 | 533 | 499.3704 | 30 |
| 651 | 33.63 | 349 | 382.63 | 0 | | 151 | 0 | | 534 | 499.3704 | |
| 652 | 33.83 | 349 | 382.63 | 0 | | 151 | 0 | | 534 | 500.3704 | |
| 653 | 33.83 | 349 | 382.83 | 2.032 | | 151 | 0 | | 534 | 500.1672 | |

| | | | | | | | | | | | |
|-----|-------|-----|--------|----|--------|-----|---|-----|----------|----------|--------|
| 654 | 33.83 | 349 | 382.83 | 0 | | 151 | 0 | 534 | 500.1672 | C-103 | |
| 655 | 33.83 | 350 | 382.83 | 0 | | 151 | 0 | 534 | 500.1672 | | |
| 656 | 33.83 | 350 | 383.83 | 10 | | 151 | 0 | 535 | 500.1672 | | |
| 657 | 33.83 | 350 | 383.83 | 0 | | 151 | 0 | 535 | 501.1672 | | |
| 658 | 33.83 | 351 | 383.83 | 0 | | 151 | 0 | 535 | 501.1672 | | |
| 659 | 33.83 | 351 | 384.83 | 10 | | 151 | 0 | 535 | 501.1672 | | |
| 660 | 33.83 | 351 | 384.83 | 0 | 22.032 | 151 | 0 | 0 | 535 | 501.1672 | 22.032 |
| 661 | 33.83 | 351 | 384.83 | 0 | | 151 | 0 | | 536 | 501.1672 | |
| 662 | 33.83 | 352 | 384.83 | 0 | | 151 | 0 | | 536 | 502.1672 | |
| 663 | 33.83 | 352 | 385.83 | 10 | | 151 | 0 | | 536 | 502.1672 | |
| 664 | 33.83 | 353 | 385.83 | 0 | | 151 | 0 | | 536 | 502.1672 | |
| 665 | 33.83 | 353 | 386.83 | 10 | | 151 | 0 | | 537 | 502.1672 | |
| 666 | 33.83 | 353 | 386.83 | 0 | | 151 | 0 | | 537 | 503.1672 | |
| 667 | 33.83 | 354 | 386.83 | 0 | | 151 | 0 | | 537 | 503.1672 | |
| 668 | 33.83 | 354 | 387.83 | 10 | | 151 | 0 | | 537 | 503.1672 | |
| 669 | 33.83 | 354 | 387.83 | 0 | | 151 | 0 | | 538 | 503.1672 | |
| 670 | 33.83 | 355 | 387.83 | 0 | 30 | 151 | 0 | 0 | 538 | 504.1672 | 30 |
| 671 | 33.83 | 355 | 388.83 | 10 | | 151 | 0 | | 538 | 504.1672 | |
| 672 | 33.83 | 356 | 388.83 | 0 | | 151 | 0 | | 539 | 504.1672 | |
| 673 | 33.83 | 356 | 389.83 | 10 | | 151 | 0 | | 539 | 505.1672 | |
| 674 | 33.83 | 356 | 389.83 | 0 | | 151 | 0 | | 539 | 505.1672 | |
| 675 | 33.83 | 357 | 389.83 | 0 | | 151 | 0 | | 540 | 505.1672 | |
| 676 | 33.83 | 357 | 390.83 | 10 | | 151 | 0 | | 540 | 506.1672 | |
| 677 | 33.83 | 358 | 390.83 | 0 | | 151 | 0 | | 541 | 506.1672 | |
| 678 | 33.83 | 358 | 391.83 | 10 | | 151 | 0 | | 541 | 507.1672 | |
| 679 | 33.83 | 359 | 391.83 | 0 | | 151 | 0 | | 541 | 507.1672 | |
| 680 | 33.83 | 359 | 392.83 | 10 | 50 | 151 | 0 | 0 | 542 | 507.1672 | 50 |
| 681 | 33.83 | 360 | 392.83 | 0 | | 151 | 0 | | 542 | 508.1672 | |
| 682 | 33.83 | 360 | 393.83 | 10 | | 151 | 0 | | 543 | 508.1672 | |
| 683 | 33.83 | 361 | 393.83 | 0 | | 151 | 0 | | 543 | 509.1672 | |
| 684 | 33.83 | 361 | 394.83 | 10 | | 151 | 0 | | 544 | 509.1672 | |
| 685 | 33.83 | 362 | 394.83 | 0 | | 151 | 0 | | 544 | 510.1672 | |
| 686 | 33.83 | 362 | 395.83 | 10 | | 151 | 0 | | 544 | 510.1672 | |
| 687 | 33.83 | 362 | 395.83 | 0 | | 151 | 0 | | 545 | 510.1672 | |
| 688 | 33.83 | 363 | 395.83 | 0 | | 151 | 0 | | 545 | 511.1672 | |
| 689 | 33.83 | 363 | 396.83 | 10 | | 151 | 0 | | 546 | 511.1672 | |
| 690 | 33.83 | 363 | 396.83 | 0 | 40 | 151 | 0 | 0 | 546 | 512.1672 | 40 |
| 691 | 33.83 | 364 | 396.83 | 0 | | 151 | 0 | | 546 | 512.1672 | |
| 692 | 33.83 | 364 | 397.83 | 10 | | 151 | 0 | | 547 | 512.1672 | |
| 693 | 33.83 | 365 | 397.83 | 0 | | 151 | 0 | | 547 | 513.1672 | |
| 694 | 33.83 | 365 | 398.83 | 10 | | 151 | 0 | | 548 | 513.1672 | |
| 695 | 33.83 | 366 | 398.83 | 0 | | 151 | 0 | | 548 | 514.1672 | |
| 696 | 33.83 | 366 | 399.83 | 10 | | 151 | 0 | | 549 | 514.1672 | |
| 697 | 33.83 | 367 | 399.83 | 0 | | 151 | 0 | | 549 | 515.1672 | |
| 698 | 33.83 | 368 | 400.83 | 10 | | 151 | 0 | | 549 | 515.1672 | |
| 699 | 33.83 | 368 | 401.83 | 10 | | 151 | 0 | | 550 | 515.1672 | |
| 700 | 33.83 | 368 | 401.83 | 0 | 50 | 151 | 0 | 0 | 550 | 516.1672 | 50 |
| 701 | 33.83 | 369 | 401.83 | 0 | | 151 | 0 | | 551 | 516.1672 | |
| 702 | 33.83 | 370 | 402.83 | 10 | | 151 | 0 | | 551 | 517.1672 | |
| 703 | 33.83 | 370 | 403.83 | 10 | | 151 | 0 | | 552 | 517.1672 | |
| 704 | 33.83 | 371 | 403.83 | 0 | | 151 | 0 | | 552 | 518.1672 | |
| 705 | 33.83 | 371 | 404.83 | 10 | | 151 | 0 | | 553 | 518.1672 | |
| 706 | 33.83 | 372 | 404.83 | 0 | | 151 | 0 | | 553 | 519.1672 | |
| 707 | 33.83 | 373 | 405.83 | 10 | | 151 | 0 | | 554 | 519.1672 | |
| 708 | 33.83 | 373 | 406.83 | 10 | | 151 | 0 | | 554 | 520.1672 | |
| 709 | 33.83 | 374 | 406.83 | 0 | | 151 | 0 | | 555 | 520.1672 | |
| 710 | 33.83 | 374 | 407.83 | 10 | 60 | 151 | 0 | 0 | 555 | 521.1672 | 60 |
| 711 | 33.83 | 375 | 407.83 | 0 | | 151 | 0 | | 556 | 521.1672 | |
| 712 | 33.83 | 376 | 408.83 | 10 | | 151 | 0 | | 557 | 522.1672 | |
| 713 | 33.83 | 376 | 409.83 | 10 | | 151 | 0 | | 557 | 523.1672 | |
| 714 | 33.83 | 377 | 409.83 | 0 | | 151 | 0 | | 558 | 523.1672 | |
| 715 | 33.83 | 377 | 410.83 | 10 | | 151 | 0 | | 558 | 524.1672 | |
| 716 | 33.83 | 378 | 410.83 | 0 | | 151 | 0 | | 559 | 524.1672 | |
| 717 | 33.83 | 379 | 411.83 | 10 | | 151 | 0 | | 559 | 525.1672 | |
| 718 | 33.83 | 379 | 412.83 | 10 | | 151 | 0 | | 560 | 525.1672 | |

| | | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|----|-----|----------|--------|
| 719 | 33.83 | 380 | 412.83 | 0 | | 151 | 0 | | 561 | 526.1672 | C-104 |
| 720 | 33.83 | 381 | 413.83 | 10 | 60 | 151 | 0 | 0 | 561 | 527.1672 | 60 |
| 721 | 33.83 | 381 | 414.83 | 10 | | 151 | 0 | | 562 | 527.1672 | |
| 722 | 33.83 | 382 | 414.83 | 0 | | 151 | 0 | | 562 | 528.1672 | |
| 723 | 33.83 | 383 | 415.83 | 10 | | 151 | 0 | | 563 | 528.1672 | |
| 724 | 33.83 | 383 | 416.83 | 10 | | 151 | 0 | | 563 | 529.1672 | |
| 725 | 33.83 | 384 | 416.83 | 0 | | 151 | 0 | | 564 | 529.1672 | |
| 726 | 33.83 | 385 | 417.83 | 10 | | 151 | 0 | | 565 | 530.1672 | |
| 727 | 33.83 | 386 | 418.83 | 10 | | 151 | 0 | | 565 | 531.1672 | |
| 728 | 33.83 | 386 | 419.83 | 10 | | 151 | 0 | | 566 | 531.1672 | |
| 729 | 33.83 | 387 | 419.83 | 0 | | 151 | 0 | | 567 | 532.1672 | |
| 730 | 33.83 | 387 | 420.83 | 10 | 70 | 151 | 0 | 0 | 567 | 533.1672 | 70 |
| 731 | 33.83 | 388 | 420.83 | 0 | | 151 | 0 | | 568 | 533.1672 | |
| 732 | 33.83 | 389 | 421.83 | 10 | | 151 | 0 | | 568 | 534.1672 | |
| 733 | 34.44 | 388 | 422.83 | 10 | | 151 | 0 | | 569 | 534.1672 | |
| 734 | 34.54 | 388 | 422.44 | -3.904 | | 151 | 0 | | 569 | 534.5576 | |
| 735 | 34.54 | 389 | 422.54 | 1.016 | | 151 | 0 | | 570 | 534.456 | |
| 736 | 34.54 | 390 | 423.54 | 10 | | 151 | 0 | | 571 | 535.456 | |
| 737 | 34.54 | 390 | 424.54 | 10 | | 151 | 0 | | 571 | 536.456 | |
| 738 | 34.54 | 391 | 424.54 | 0 | | 151 | 0 | | 572 | 536.456 | |
| 739 | 34.54 | 392 | 425.54 | 10 | | 151 | 0 | | 572 | 537.456 | |
| 740 | 34.54 | 393 | 426.54 | 10 | 57.112 | 151 | 0 | 0 | 573 | 537.456 | 57.112 |
| 741 | 34.54 | 393 | 427.54 | 10 | | 151 | 0 | | 573 | 538.456 | |
| 742 | 35.13 | 393 | 427.54 | 0 | | 151 | 0 | | 574 | 538.456 | |
| 743 | 35.15 | 394 | 428.13 | 5.842 | | 151 | 0 | | 575 | 538.8718 | |
| 744 | 35.15 | 395 | 429.15 | 10.254 | | 151 | 0 | | 575 | 539.8464 | |
| 745 | 35.15 | 395 | 430.15 | 10 | | 151 | 0 | | 576 | 539.8464 | |
| 746 | 35.15 | 396 | 430.15 | 0 | | 151 | 0 | | 576 | 540.8464 | |
| 747 | 35.15 | 397 | 431.15 | 10 | | 151 | 0 | | 577 | 540.8464 | |
| 748 | 35.15 | 398 | 432.15 | 10 | | 151 | 0 | | 578 | 541.8464 | |
| 749 | 35.15 | 399 | 433.15 | 10 | | 151 | 0 | | 578 | 542.8464 | |
| 750 | 35.15 | 399 | 434.15 | 10 | 76.096 | 151 | 0 | 0 | 579 | 542.8464 | 76.096 |
| 751 | 35.15 | 400 | 434.15 | 0 | | 151 | 0 | | 579 | 543.8464 | |
| 752 | 35.15 | 400 | 435.15 | 10 | | 151 | 0 | | 580 | 543.8464 | |
| 753 | 35.15 | 401 | 435.15 | 0 | | 151 | 0 | | 581 | 544.8464 | |
| 754 | 35.15 | 402 | 436.15 | 10 | | 151 | 0 | | 581 | 545.8464 | |
| 755 | 35.15 | 403 | 437.15 | 10 | | 151 | 0 | | 582 | 545.8464 | |
| 756 | 35.15 | 404 | 438.15 | 10 | | 151 | 0 | | 583 | 546.8464 | |
| 757 | 35.15 | 405 | 439.15 | 10 | | 151 | 0 | | 583 | 547.8464 | |
| 758 | 35.15 | 406 | 440.15 | 10 | | 151 | 0 | | 584 | 547.8464 | |
| 759 | 35.15 | 407 | 441.15 | 10 | | 151 | 0 | | 584 | 548.8464 | |
| 760 | 35.15 | 408 | 442.15 | 10 | 80 | 151 | 0 | 0 | 585 | 548.8464 | 80 |
| 761 | 35.15 | 409 | 443.15 | 10 | | 151 | 0 | | 586 | 549.8464 | |
| 762 | 35.15 | 409 | 444.15 | 10 | | 151 | 0 | | 586 | 550.8464 | |
| 763 | 35.15 | 410 | 444.15 | 0 | | 151 | 0 | | 587 | 550.8464 | |
| 764 | 35.15 | 411 | 445.15 | 10 | | 151 | 0 | | 588 | 551.8464 | |
| 765 | 35.15 | 412 | 446.15 | 10 | | 152 | 0 | | 588 | 552.8464 | |
| 766 | 35.15 | 413 | 447.15 | 10 | | 152 | 10 | | 589 | 552.8464 | |
| 767 | 35.15 | 414 | 448.15 | 10 | | 152 | 0 | | 590 | 553.8464 | |
| 768 | 35.15 | 415 | 449.15 | 10 | | 152 | 0 | | 590 | 554.8464 | |
| 769 | 35.15 | 416 | 450.15 | 10 | | 152 | 0 | | 591 | 554.8464 | |
| 770 | 35.15 | 417 | 451.15 | 10 | 90 | 152 | 0 | 10 | 592 | 555.8464 | 100 |
| 771 | 35.15 | 418 | 452.15 | 10 | | 152 | 0 | | 592 | 556.8464 | |
| 772 | 35.15 | 418 | 453.15 | 10 | | 152 | 0 | | 593 | 556.8464 | |
| 773 | 35.15 | 419 | 453.15 | 0 | | 152 | 0 | | 593 | 557.8464 | |
| 774 | 35.15 | 420 | 454.15 | 10 | | 152 | 0 | | 594 | 557.8464 | |
| 775 | 35.15 | 421 | 455.15 | 10 | | 153 | 0 | | 595 | 558.8464 | |
| 776 | 35.15 | 422 | 456.15 | 10 | | 153 | 10 | | 595 | 559.8464 | |
| 777 | 35.15 | 423 | 457.15 | 10 | | 153 | 0 | | 596 | 559.8464 | |
| 778 | 35.15 | 424 | 458.15 | 10 | | 153 | 0 | | 597 | 560.8464 | |
| 779 | 35.15 | 424 | 459.15 | 10 | | 153 | 0 | | 598 | 561.8464 | |
| 780 | 35.15 | 425 | 459.15 | 0 | 80 | 153 | 0 | 10 | 599 | 562.8464 | 90 |
| 781 | 35.15 | 426 | 460.15 | 10 | | 153 | 0 | | 599 | 563.8464 | |
| 782 | 35.15 | 427 | 461.15 | 10 | | 154 | 0 | | 600 | 563.8464 | |
| 783 | 38.55 | 425 | 462.15 | 10 | | 154 | 10 | | 601 | 564.8464 | |

| | | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|-----|----------|----------|---------|
| 784 | 38.55 | 426 | 463.55 | 14 | | 154 | 0 | 602 | 562.4464 | C-105 | |
| 785 | 38.55 | 427 | 464.55 | 10 | | 154 | 0 | 603 | 563.4464 | | |
| 786 | 38.55 | 428 | 465.55 | 10 | | 154 | 0 | 604 | 564.4464 | | |
| 787 | 38.55 | 429 | 466.55 | 10 | | 154 | 0 | 605 | 565.4464 | | |
| 788 | 38.55 | 429 | 467.55 | 10 | | 154 | 0 | 605 | 566.4464 | | |
| 789 | 38.55 | 430 | 467.55 | 0 | | 155 | 0 | 606 | 566.4464 | | |
| 790 | 38.55 | 432 | 468.55 | 10 | 94 | 155 | 10 | 20 | 607 | 567.4464 | 114 |
| 791 | 38.55 | 433 | 470.55 | 20 | | 155 | 0 | | 608 | 568.4464 | |
| 792 | 38.55 | 433 | 471.55 | 10 | | 155 | 0 | | 609 | 569.4464 | |
| 793 | 38.55 | 434 | 471.55 | 0 | | 155 | 0 | | 610 | 570.4464 | |
| 794 | 38.55 | 435 | 472.55 | 10 | | 156 | 0 | | 611 | 571.4464 | |
| 795 | 38.55 | 436 | 473.55 | 10 | | 156 | 10 | | 611 | 572.4464 | |
| 796 | 41.05 | 435 | 474.55 | 10 | | 156 | 0 | | 612 | 572.4464 | |
| 797 | 41.65 | 435 | 476.05 | 15 | | 157 | 0 | | 613 | 570.9464 | |
| 798 | 41.65 | 436 | 476.65 | 6 | | 157 | 10 | | 614 | 571.3464 | |
| 799 | 41.65 | 437 | 477.65 | 10 | | 157 | 0 | | 616 | 572.3464 | |
| 800 | 44.25 | 435 | 478.65 | 10 | 101 | 157 | 0 | 20 | 617 | 574.3464 | 121 |
| 801 | 44.25 | 436 | 479.25 | 6 | | 158 | 0 | | 618 | 572.7464 | |
| 802 | 44.25 | 437 | 480.25 | 10 | | 158 | 10 | | 619 | 573.7464 | |
| 803 | 44.25 | 438 | 481.25 | 10 | | 158 | 0 | | 620 | 574.7464 | |
| 804 | 44.25 | 439 | 482.25 | 10 | | 159 | 0 | | 621 | 575.7464 | |
| 805 | 44.25 | 439 | 483.25 | 10 | | 159 | 10 | | 623 | 576.7464 | |
| 806 | 44.25 | 440 | 483.25 | 0 | | 159 | 0 | | 624 | 578.7464 | |
| 807 | 44.25 | 441 | 484.25 | 10 | | 160 | 0 | | 625 | 579.7464 | |
| 808 | 46.25 | 440 | 485.25 | 10 | | 160 | 10 | | 626 | 580.7464 | |
| 809 | 46.25 | 441 | 486.25 | 10 | | 161 | 0 | | 628 | 579.7464 | |
| 810 | 46.25 | 442 | 487.25 | 10 | 86 | 161 | 10 | 40 | 629 | 581.7464 | 126 |
| 811 | 46.25 | 443 | 488.25 | 10 | | 162 | 0 | | 630 | 582.7464 | |
| 812 | 49.25 | 442 | 489.25 | 10 | | 162 | 10 | | 631 | 583.7464 | |
| 813 | 49.25 | 443 | 491.25 | 20 | | 162 | 0 | | 632 | 581.7464 | |
| 814 | 49.25 | 444 | 492.25 | 10 | | 163 | 0 | | 633 | 582.7464 | |
| 815 | 49.25 | 445 | 493.25 | 10 | | 163 | 10 | | 635 | 583.7464 | |
| 816 | 49.25 | 446 | 494.25 | 10 | | 164 | 0 | | 636 | 585.7464 | |
| 817 | 49.25 | 447 | 495.25 | 10 | | 164 | 10 | | 637 | 586.7464 | |
| 818 | 49.25 | 448 | 496.25 | 10 | | 165 | 0 | | 638 | 587.7464 | |
| 819 | 49.25 | 449 | 497.25 | 10 | | 165 | 10 | | 639 | 588.7464 | |
| 820 | 49.25 | 450 | 498.25 | 10 | 110 | 166 | 0 | 40 | 640 | 589.7464 | 150 |
| 821 | 49.25 | 451 | 499.25 | 10 | | 166 | 10 | | 641 | 590.7464 | |
| 822 | 49.25 | 452 | 500.25 | 10 | | 167 | 0 | | 642 | 591.7464 | |
| 823 | 49.25 | 453 | 501.25 | 10 | | 167 | 10 | | 643 | 592.7464 | |
| 824 | 51.65 | 451 | 502.25 | 10 | | 167 | 0 | | 644 | 593.7464 | |
| 825 | 52.45 | 451 | 502.65 | 4 | | 168 | 0 | | 645 | 592.3464 | |
| 826 | 52.45 | 452 | 503.45 | 8 | | 168 | 10 | | 646 | 592.5464 | |
| 827 | 52.45 | 453 | 504.45 | 10 | | 169 | 0 | | 647 | 593.5464 | |
| 828 | 52.45 | 454 | 505.45 | 10 | | 169 | 10 | | 648 | 594.5464 | |
| 829 | 52.45 | 455 | 506.45 | 10 | | 169 | 0 | | 649 | 595.5464 | |
| 830 | 52.45 | 456 | 507.45 | 10 | 92 | 170 | 0 | 40 | 650 | 596.5464 | 132 |
| 831 | 52.45 | 457 | 508.45 | 10 | | 170 | 10 | | 651 | 597.5464 | |
| 832 | 52.45 | 458 | 509.45 | 10 | | 171 | 0 | | 652 | 598.5464 | |
| 833 | 52.45 | 459 | 510.45 | 10 | | 171 | 10 | | 653 | 599.5464 | |
| 834 | 52.45 | 460 | 511.45 | 10 | | 172 | 0 | | 653 | 600.5464 | |
| 835 | 52.45 | 460 | 512.45 | 10 | | 172 | 10 | | 654 | 600.5464 | |
| 836 | 52.61 | 461 | 512.45 | 0 | | 173 | 0 | | 655 | 601.5464 | |
| 837 | 52.61 | 462 | 513.61 | 11.524 | | 173 | 10 | | 656 | 602.394 | |
| 838 | 52.61 | 463 | 514.61 | 10 | | 174 | 0 | | 657 | 603.394 | |
| 839 | 52.61 | 464 | 515.61 | 10 | | 175 | 10 | | 658 | 604.394 | |
| 840 | 52.61 | 465 | 516.61 | 10 | 91.524 | 175 | 10 | 60 | 659 | 605.394 | 151.524 |
| 841 | 52.61 | 465 | 517.61 | 10 | | 176 | 0 | | 659 | 606.394 | |
| 842 | 52.63 | 466 | 517.61 | 0 | | 176 | 10 | | 660 | 606.394 | |
| 843 | 52.68 | 466 | 518.63 | 10.254 | | 177 | 0 | | 661 | 607.3686 | |
| 844 | 52.73 | 467 | 518.68 | 0.508 | | 177 | 10 | | 662 | 608.3178 | |
| 845 | 52.73 | 467 | 519.73 | 10.508 | | 178 | 0 | | 663 | 609.267 | |
| 846 | 52.73 | 468 | 519.73 | 0 | | 178 | 10 | | 663 | 610.267 | |
| 847 | 53.27 | 468 | 520.73 | 10 | | 179 | 0 | | 664 | 610.267 | |
| 848 | 53.27 | 469 | 521.27 | 5.334 | | 179 | 10 | | 665 | 610.7336 | |

| | | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|----|-----|----------|---------|
| 849 | 53.27 | 469 | 522.27 | 10 | | 180 | 0 | | 666 | 611.7336 | C-105 |
| 850 | 53.27 | 470 | 522.27 | 0 | 56.604 | 180 | 10 | 50 | 667 | 612.7336 | 106.604 |
| 851 | 53.27 | 470 | 523.27 | 10 | | 181 | 0 | | 668 | 613.7336 | |
| 852 | 53.27 | 470 | 523.27 | 0 | | 181 | 10 | | 668 | 614.7336 | |
| 853 | 53.27 | 471 | 523.27 | 0 | | 181 | 0 | | 669 | 614.7336 | |
| 854 | 53.29 | 471 | 524.27 | 10 | | 182 | 0 | | 670 | 615.7336 | |
| 855 | 53.32 | 472 | 524.29 | 0.254 | | 182 | 10 | | 671 | 616.7082 | |
| 856 | 56.12 | 470 | 525.32 | 10.254 | | 183 | 0 | | 672 | 617.6828 | |
| 857 | 56.12 | 471 | 526.12 | 8.034 | | 183 | 10 | | 673 | 615.8794 | |
| 858 | 56.12 | 471 | 527.12 | 10 | | 184 | 0 | | 674 | 616.8794 | |
| 859 | 56.12 | 472 | 527.12 | 0 | | 184 | 10 | | 674 | 617.8794 | |
| 860 | 56.12 | 473 | 528.12 | 10 | 58.542 | 185 | 0 | 40 | 675 | 617.8794 | 98.542 |
| 861 | 56.89 | 473 | 529.12 | 10 | | 185 | 10 | | 676 | 618.8794 | |
| 862 | 56.89 | 473 | 529.89 | 7.7 | | 186 | 0 | | 677 | 619.1094 | |
| 863 | 56.89 | 474 | 529.89 | 0 | | 186 | 10 | | 678 | 620.1094 | |
| 864 | 56.89 | 474 | 530.89 | 10 | | 187 | 0 | | 679 | 621.1094 | |
| 865 | 56.89 | 475 | 530.89 | 0 | | 187 | 10 | | 680 | 622.1094 | |
| 866 | 56.94 | 475 | 531.89 | 10 | | 188 | 0 | | 680 | 623.1094 | |
| 867 | 56.94 | 476 | 531.94 | 0.508 | | 188 | 10 | | 681 | 623.0586 | |
| 868 | 56.94 | 476 | 532.94 | 10 | | 189 | 0 | | 682 | 624.0586 | |
| 869 | 56.97 | 477 | 532.94 | 0 | | 189 | 10 | | 683 | 625.0586 | |
| 870 | 56.97 | 477 | 533.97 | 10.254 | 58.462 | 190 | 0 | 50 | 683 | 626.0332 | 108.462 |
| 871 | 56.97 | 477 | 533.97 | 0 | | 190 | 10 | | 684 | 626.0332 | |
| 872 | 57.25 | 478 | 533.97 | 0 | | 191 | 0 | | 685 | 627.0332 | |
| 873 | 57.32 | 478 | 535.25 | 12.794 | | 191 | 10 | | 686 | 627.7538 | |
| 874 | 57.81 | 478 | 535.32 | 0.762 | | 191 | 0 | | 687 | 628.6776 | |
| 875 | 58.8 | 478 | 535.81 | 4.826 | | 192 | 0 | | 688 | 629.195 | |
| 876 | 58.8 | 479 | 536.8 | 9.906 | | 192 | 10 | | 689 | 629.2044 | |
| 877 | 59.89 | 478 | 537.8 | 10 | | 193 | 0 | | 691 | 630.2044 | |
| 878 | 59.94 | 479 | 537.89 | 0.922 | | 193 | 10 | | 692 | 631.1122 | |
| 879 | 61.99 | 478 | 538.94 | 10.508 | | 193 | 0 | | 693 | 632.0614 | |
| 880 | 62.09 | 478 | 539.99 | 10.48 | 60.198 | 194 | 0 | 40 | 694 | 631.0134 | 100.198 |
| 881 | 63.13 | 477 | 540.09 | 1.016 | | 194 | 10 | | 696 | 631.9118 | |
| 882 | 63.13 | 478 | 540.13 | 0.4 | | 195 | 0 | | 697 | 632.8718 | |
| 883 | 63.15 | 479 | 541.13 | 10 | | 195 | 10 | | 698 | 633.8718 | |
| 884 | 63.15 | 480 | 542.15 | 10.254 | | 196 | 0 | | 699 | 634.8464 | |
| 885 | 63.15 | 481 | 543.15 | 10 | | 196 | 10 | | 700 | 635.8464 | |
| 886 | 63.15 | 482 | 544.15 | 10 | | 197 | 0 | | 702 | 636.8464 | |
| 887 | 63.15 | 483 | 545.15 | 10 | | 197 | 10 | | 703 | 638.8464 | |
| 888 | 63.74 | 483 | 546.15 | 10 | | 198 | 0 | | 704 | 639.8464 | |
| 889 | 63.89 | 484 | 546.74 | 5.842 | | 198 | 10 | | 705 | 640.2622 | |
| 890 | 63.89 | 485 | 547.89 | 11.524 | 79.036 | 199 | 0 | 50 | 706 | 641.1098 | 129.036 |
| 891 | 63.89 | 486 | 548.89 | 10 | | 199 | 10 | | 707 | 642.1098 | |
| 892 | 65.56 | 485 | 549.89 | 10 | | 200 | 0 | | 708 | 643.1098 | |
| 893 | 65.56 | 486 | 550.56 | 6.7 | | 200 | 10 | | 708 | 642.4398 | |
| 894 | 65.61 | 487 | 551.56 | 10 | | 201 | 0 | | 709 | 642.4398 | |
| 895 | 65.61 | 487 | 552.61 | 10.508 | | 201 | 10 | | 710 | 643.389 | |
| 896 | 65.61 | 488 | 552.61 | 0 | | 202 | 0 | | 711 | 644.389 | |
| 897 | 65.66 | 489 | 553.61 | 10 | | 202 | 10 | | 712 | 645.389 | |
| 898 | 65.66 | 490 | 554.66 | 10.508 | | 203 | 0 | | 713 | 646.3382 | |
| 899 | 65.66 | 491 | 555.66 | 10 | | 203 | 10 | | 714 | 647.3382 | |
| 900 | 65.66 | 492 | 556.66 | 10 | 87.716 | 204 | 0 | 50 | 715 | 648.3382 | 137.716 |
| 901 | 65.66 | 492 | 557.66 | 10 | | 204 | 10 | | 716 | 649.3382 | |
| 902 | 65.66 | 493 | 557.66 | 0 | | 204 | 0 | | 716 | 650.3382 | |
| 903 | 67.8 | 491 | 558.66 | 10 | | 205 | 0 | | 717 | 650.3382 | |
| 904 | 67.8 | 492 | 558.8 | 1.336 | | 205 | 10 | | 718 | 649.2046 | |
| 905 | 67.8 | 493 | 559.8 | 10 | | 206 | 0 | | 719 | 650.2046 | |
| 906 | 67.8 | 494 | 560.8 | 10 | | 206 | 10 | | 720 | 651.2046 | |
| 907 | 67.8 | 494 | 561.8 | 10 | | 207 | 0 | | 721 | 652.2046 | |
| 908 | 67.8 | 495 | 561.8 | 0 | | 207 | 10 | | 722 | 653.2046 | |
| 909 | 67.8 | 496 | 562.8 | 10 | | 208 | 0 | | 722 | 654.2046 | |
| 910 | 67.8 | 496 | 563.8 | 10 | 71.336 | 208 | 10 | 50 | 723 | 654.2046 | 121.336 |
| 911 | 67.8 | 497 | 563.8 | 0 | | 209 | 0 | | 724 | 655.2046 | |
| 912 | 67.8 | 498 | 564.8 | 10 | | 209 | 10 | | 725 | 656.2046 | |
| 913 | 68.38 | 497 | 565.8 | 10 | | 209 | 0 | | 726 | 657.2046 | |

| | | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|----|-----|----------|--------|
| 914 | 68.38 | 498 | 565.38 | -4.158 | | 210 | 0 | | 726 | 657.6204 | C-106 |
| 915 | 68.38 | 499 | 566.38 | 10 | | 210 | 10 | | 727 | 657.6204 | |
| 916 | 68.51 | 499 | 567.38 | 10 | | 210 | 0 | | 728 | 658.6204 | |
| 917 | 68.79 | 499 | 567.51 | 1.27 | | 211 | 0 | | 729 | 659.4934 | |
| 918 | 69.62 | 499 | 567.79 | 2.794 | | 211 | 10 | | 730 | 660.214 | |
| 919 | 69.62 | 499 | 568.62 | 8.382 | | 211 | 0 | | 731 | 660.3758 | |
| 920 | 69.62 | 500 | 568.62 | 0 | 48.288 | 212 | 0 | 30 | 732 | 661.3758 | 78.288 |
| 921 | 69.62 | 501 | 569.62 | 10 | | 212 | 10 | | 732 | 662.3758 | |
| 922 | 69.62 | 501 | 570.62 | 10 | | 213 | 0 | | 733 | 662.3758 | |
| 923 | 69.75 | 502 | 570.62 | 0 | | 213 | 10 | | 734 | 663.3758 | |
| 924 | 69.75 | 503 | 571.75 | 11.27 | | 213 | 0 | | 735 | 664.2488 | |
| 925 | 69.75 | 503 | 572.75 | 10 | | 214 | 0 | | 736 | 665.2488 | |
| 926 | 69.75 | 504 | 572.75 | 0 | | 214 | 10 | | 737 | 666.2488 | |
| 927 | 69.75 | 505 | 573.75 | 10 | | 215 | 0 | | 738 | 667.2488 | |
| 928 | 69.75 | 505 | 574.75 | 10 | | 215 | 10 | | 738 | 668.2488 | |
| 929 | 69.75 | 506 | 574.75 | 0 | | 215 | 0 | | 739 | 668.2488 | |
| 930 | 69.75 | 506 | 575.75 | 10 | 71.27 | 216 | 0 | 40 | 740 | 669.2488 | 111.27 |
| 931 | 69.75 | 507 | 575.75 | 0 | | 216 | 10 | | 741 | 670.2488 | |
| 932 | 69.75 | 507 | 576.75 | 10 | | 217 | 0 | | 742 | 671.2488 | |
| 933 | 69.75 | 508 | 576.75 | 0 | | 217 | 10 | | 742 | 672.2488 | |
| 934 | 69.75 | 508 | 577.75 | 10 | | 217 | 0 | | 743 | 672.2488 | |
| 935 | 69.75 | 509 | 577.75 | 0 | | 218 | 0 | | 744 | 673.2488 | |
| 936 | 69.75 | 509 | 578.75 | 10 | | 218 | 10 | | 745 | 674.2488 | |
| 937 | 69.75 | 510 | 578.75 | 0 | | 218 | 0 | | 745 | 675.2488 | |
| 938 | 69.75 | 510 | 579.75 | 10 | | 219 | 0 | | 746 | 675.2488 | |
| 939 | 69.75 | 511 | 579.75 | 0 | | 219 | 10 | | 747 | 676.2488 | |
| 940 | 69.75 | 511 | 580.75 | 10 | 50 | 219 | 0 | 40 | 748 | 677.2488 | 90 |
| 941 | 69.75 | 512 | 580.75 | 0 | | 220 | 0 | | 749 | 678.2488 | |
| 942 | 69.75 | 512 | 581.75 | 10 | | 220 | 10 | | 749 | 679.2488 | |
| 943 | 69.75 | 513 | 581.75 | 0 | | 220 | 0 | | 750 | 679.2488 | |
| 944 | 69.75 | 513 | 582.75 | 10 | | 221 | 0 | | 751 | 680.2488 | |
| 945 | 69.75 | 514 | 582.75 | 0 | | 221 | 10 | | 752 | 681.2488 | |
| 946 | 69.75 | 514 | 583.75 | 10 | | 221 | 0 | | 752 | 682.2488 | |
| 947 | 70.28 | 514 | 583.75 | 0 | | 221 | 0 | | 753 | 682.2488 | |
| 948 | 70.28 | 514 | 584.28 | 5.334 | | 222 | 0 | | 754 | 682.7154 | |
| 949 | 70.28 | 515 | 584.28 | 0 | | 222 | 10 | | 755 | 683.7154 | |
| 950 | 70.28 | 515 | 585.28 | 10 | 45.334 | 222 | 0 | 30 | 756 | 684.7154 | 75.334 |
| 951 | 70.28 | 516 | 585.28 | 0 | | 222 | 0 | | 757 | 685.7154 | |
| 952 | 70.28 | 516 | 586.28 | 10 | | 223 | 0 | | 757 | 686.7154 | |
| 953 | 70.28 | 517 | 586.28 | 0 | | 223 | 10 | | 758 | 686.7154 | |
| 954 | 70.28 | 518 | 587.28 | 10 | | 223 | 0 | | 759 | 687.7154 | |
| 955 | 70.28 | 518 | 588.28 | 10 | | 223 | 0 | | 760 | 688.7154 | |
| 956 | 70.28 | 519 | 588.28 | 0 | | 223 | 0 | | 761 | 689.7154 | |
| 957 | 70.28 | 519 | 589.28 | 10 | | 223 | 0 | | 762 | 690.7154 | |
| 958 | 70.28 | 520 | 589.28 | 0 | | 223 | 0 | | 763 | 691.7154 | |
| 959 | 70.28 | 521 | 590.28 | 10 | | 224 | 0 | | 763 | 692.7154 | |
| 960 | 70.28 | 521 | 591.28 | 10 | 60 | 224 | 10 | 20 | 764 | 692.7154 | 80 |
| 961 | 70.28 | 522 | 591.28 | 0 | | 224 | 0 | | 765 | 693.7154 | |
| 962 | 70.28 | 522 | 592.28 | 10 | | 224 | 0 | | 766 | 694.7154 | |
| 963 | 70.28 | 523 | 592.28 | 0 | | 224 | 0 | | 767 | 695.7154 | |
| 964 | 70.28 | 523 | 593.28 | 10 | | 224 | 0 | | 768 | 696.7154 | |
| 965 | 70.28 | 524 | 593.28 | 0 | | 224 | 0 | | 769 | 697.7154 | |
| 966 | 70.28 | 524 | 594.28 | 10 | | 224 | 0 | | 769 | 698.7154 | |
| 967 | 70.28 | 525 | 594.28 | 0 | | 224 | 0 | | 770 | 698.7154 | |
| 968 | 70.28 | 526 | 595.28 | 10 | | 224 | 0 | | 771 | 699.7154 | |
| 969 | 70.28 | 526 | 596.28 | 10 | | 224 | 0 | | 772 | 700.7154 | |
| 970 | 70.28 | 527 | 596.28 | 0 | 50 | 225 | 0 | 0 | 773 | 701.7154 | 50 |
| 971 | 70.28 | 527 | 597.28 | 10 | | 225 | 10 | | 774 | 702.7154 | |
| 972 | 70.28 | 528 | 597.28 | 0 | | 225 | 0 | | 775 | 703.7154 | |
| 973 | 70.28 | 528 | 598.28 | 10 | | 225 | 0 | | 776 | 704.7154 | |
| 974 | 70.28 | 529 | 598.28 | 0 | | 225 | 0 | | 777 | 705.7154 | |
| 975 | 70.28 | 530 | 599.28 | 10 | | 225 | 0 | | 777 | 706.7154 | |
| 976 | 70.28 | 530 | 600.28 | 10 | | 225 | 0 | | 778 | 706.7154 | |
| 977 | 70.28 | 531 | 600.28 | 0 | | 225 | 0 | | 779 | 707.7154 | |
| 978 | 70.28 | 531 | 601.28 | 10 | | 225 | 0 | | 780 | 708.7154 | |

| | | | | | | | | | | | |
|------|-------|-----|--------|-------|--------|-----|----|----|-----|----------|--------|
| 979 | 70.28 | 532 | 601.28 | 0 | | 225 | 0 | | 781 | 709.7154 | C-107 |
| 980 | 70.28 | 532 | 602.28 | 10 | 60 | 225 | 0 | 10 | 782 | 710.7154 | 70 |
| 981 | 70.28 | 533 | 602.28 | 0 | | 225 | 0 | | 783 | 711.7154 | |
| 982 | 70.28 | 533 | 603.28 | 10 | | 225 | 0 | | 783 | 712.7154 | |
| 983 | 70.28 | 534 | 603.28 | 0 | | 226 | 0 | | 784 | 712.7154 | |
| 984 | 70.28 | 534 | 604.28 | 10 | | 226 | 10 | | 785 | 713.7154 | |
| 985 | 70.28 | 534 | 604.28 | 0 | | 226 | 0 | | 786 | 714.7154 | |
| 986 | 70.28 | 535 | 604.28 | 0 | | 226 | 0 | | 787 | 715.7154 | |
| 987 | 70.28 | 535 | 605.28 | 10 | | 226 | 0 | | 787 | 716.7154 | |
| 988 | 70.28 | 536 | 605.28 | 0 | | 226 | 0 | | 788 | 716.7154 | |
| 989 | 70.28 | 536 | 606.28 | 10 | | 226 | 0 | | 789 | 717.7154 | |
| 990 | 70.28 | 537 | 606.28 | 0 | 40 | 226 | 0 | 10 | 790 | 718.7154 | 50 |
| 991 | 70.28 | 537 | 607.28 | 10 | | 226 | 0 | | 790 | 719.7154 | |
| 992 | 70.28 | 537 | 607.28 | 0 | | 226 | 0 | | 791 | 719.7154 | |
| 993 | 70.28 | 538 | 607.28 | 0 | | 226 | 0 | | 792 | 720.7154 | |
| 994 | 70.28 | 538 | 608.28 | 10 | | 226 | 0 | | 793 | 721.7154 | |
| 995 | 70.36 | 538 | 608.28 | 0 | | 226 | 0 | | 793 | 722.7154 | |
| 996 | 70.36 | 539 | 608.36 | 0.8 | | 226 | 0 | | 794 | 722.6354 | |
| 997 | 70.36 | 539 | 609.36 | 10 | | 226 | 0 | | 795 | 723.6354 | |
| 998 | 70.36 | 539 | 609.36 | 0 | | 226 | 0 | | 795 | 724.6354 | |
| 999 | 70.54 | 539 | 609.36 | 0 | | 226 | 0 | | 796 | 724.6354 | |
| 1000 | 70.54 | 540 | 609.54 | 1.78 | 32.58 | 226 | 0 | 0 | 797 | 725.4574 | 32.58 |
| 1001 | 70.54 | 540 | 610.54 | 10 | | 226 | 0 | | 797 | 726.4574 | |
| 1002 | 70.54 | 540 | 610.54 | 0 | | 226 | 0 | | 798 | 726.4574 | |
| 1003 | 70.54 | 541 | 610.54 | 0 | | 226 | 0 | | 798 | 727.4574 | |
| 1004 | 70.54 | 541 | 611.54 | 10 | | 226 | 0 | | 799 | 727.4574 | |
| 1005 | 70.54 | 541 | 611.54 | 0 | | 226 | 0 | | 799 | 728.4574 | |
| 1006 | 70.54 | 542 | 611.54 | 0 | | 226 | 0 | | 800 | 728.4574 | |
| 1007 | 70.54 | 542 | 612.54 | 10 | | 226 | 0 | | 800 | 729.4574 | |
| 1008 | 70.54 | 542 | 612.54 | 0 | | 226 | 0 | | 801 | 729.4574 | |
| 1009 | 70.54 | 543 | 612.54 | 0 | | 226 | 0 | | 801 | 730.4574 | |
| 1010 | 70.54 | 543 | 613.54 | 10 | 40 | 226 | 0 | 0 | 802 | 730.4574 | 40 |
| 1011 | 70.54 | 543 | 613.54 | 0 | | 226 | 0 | | 802 | 731.4574 | |
| 1012 | 70.54 | 544 | 613.54 | 0 | | 226 | 0 | | 803 | 731.4574 | |
| 1013 | 70.54 | 544 | 614.54 | 10 | | 226 | 0 | | 803 | 732.4574 | |
| 1014 | 70.54 | 544 | 614.54 | 0 | | 226 | 0 | | 803 | 732.4574 | |
| 1015 | 70.54 | 544 | 614.54 | 0 | | 226 | 0 | | 804 | 732.4574 | |
| 1016 | 70.54 | 544 | 614.54 | 0 | | 226 | 0 | | 804 | 733.4574 | |
| 1017 | 70.75 | 544 | 614.54 | 0 | | 226 | 0 | | 804 | 733.4574 | |
| 1018 | 70.75 | 544 | 614.75 | 2.032 | | 226 | 0 | | 805 | 733.2542 | |
| 1019 | 70.75 | 545 | 614.75 | 0 | | 226 | 0 | | 805 | 734.2542 | |
| 1020 | 70.75 | 545 | 615.75 | 10 | 22.032 | 226 | 0 | 0 | 805 | 734.2542 | 22.032 |
| 1021 | 70.75 | 545 | 615.75 | 0 | | 226 | 0 | | 805 | 734.2542 | |
| 1022 | 70.75 | 545 | 615.75 | 0 | | 226 | 0 | | 806 | 734.2542 | |

end

| SCSMatP182 | | | | ET=318.92 [73T,246E] Increase= 190.2 [147.8%] | | | | | | | |
|------------|------------|---------------|-------------|-----------------------------------------------|------------------|----------------|------------------|------------------|----------------|---------------|-------------------|
| Time [day] | CumP' [cm] | sum(vTop) [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc) [mm] | Daily T [mm/10d] | 10day T [mm/10d] | sum(vBot) [cm] | Cumm Dis [cm] | 10day ET [mm/10d] |
| 650 | 33.63 | 391 | 424.63 | 0 | 30 | 147 | 0 | 0 | 573 | 539.3704 | 30 |
| 651 | 33.63 | 392 | 424.63 | 0 | | 147 | 0 | | 573 | 539.3704 | |
| 652 | 33.83 | 391 | 425.63 | 10 | | 147 | 0 | | 574 | 539.3704 | |
| 653 | 33.83 | 392 | 424.83 | -7.968 | | 147 | 0 | | 574 | 540.1672 | |
| 654 | 33.83 | 392 | 425.83 | 10 | | 147 | 0 | | 574 | 540.1672 | |
| 655 | 33.83 | 392 | 425.83 | 0 | | 147 | 0 | | 574 | 540.1672 | |
| 656 | 33.83 | 392 | 425.83 | 0 | | 147 | 0 | | 574 | 540.1672 | |
| 657 | 33.83 | 392 | 425.83 | 0 | | 147 | 0 | | 574 | 540.1672 | |
| 658 | 33.83 | 393 | 425.83 | 0 | | 147 | 0 | | 574 | 540.1672 | |
| 659 | 33.83 | 393 | 426.83 | 10 | | 147 | 0 | | 575 | 540.1672 | |
| 660 | 33.83 | 393 | 426.83 | 0 | 22.032 | 147 | 0 | 0 | 575 | 541.1672 | 22.032 |
| 661 | 33.83 | 394 | 426.83 | 0 | | 147 | 0 | | 575 | 541.1672 | |

| | | | | | | | | | | |
|-----|-------|-----|--------|----|----|-----|---|-----|----------|-------|
| 662 | 33.83 | 394 | 427.83 | 10 | | 147 | 0 | 576 | 541.1672 | C-108 |
| 663 | 33.83 | 394 | 427.83 | 0 | | 147 | 0 | 576 | 542.1672 | |
| 664 | 33.83 | 395 | 427.83 | 0 | | 147 | 0 | 576 | 542.1672 | |
| 665 | 33.83 | 395 | 428.83 | 10 | | 147 | 0 | 576 | 542.1672 | |
| 666 | 33.83 | 395 | 428.83 | 0 | | 147 | 0 | 577 | 542.1672 | |
| 667 | 33.83 | 396 | 428.83 | 0 | | 147 | 0 | 577 | 543.1672 | |
| 668 | 33.83 | 396 | 429.83 | 10 | | 147 | 0 | 577 | 543.1672 | |
| 669 | 33.83 | 397 | 429.83 | 0 | | 147 | 0 | 578 | 543.1672 | |
| 670 | 33.83 | 397 | 430.83 | 10 | 40 | 147 | 0 | 578 | 544.1672 | 40 |
| 671 | 33.83 | 398 | 430.83 | 0 | | 147 | 0 | 579 | 544.1672 | |
| 672 | 33.83 | 398 | 431.83 | 10 | | 147 | 0 | 579 | 545.1672 | |
| 673 | 33.83 | 398 | 431.83 | 0 | | 147 | 0 | 579 | 545.1672 | |
| 674 | 33.83 | 399 | 431.83 | 0 | | 147 | 0 | 580 | 545.1672 | |
| 675 | 33.83 | 399 | 432.83 | 10 | | 147 | 0 | 580 | 546.1672 | |
| 676 | 33.83 | 400 | 432.83 | 0 | | 147 | 0 | 580 | 546.1672 | |
| 677 | 33.83 | 400 | 433.83 | 10 | | 147 | 0 | 581 | 546.1672 | |
| 678 | 33.83 | 401 | 433.83 | 0 | | 147 | 0 | 581 | 547.1672 | |
| 679 | 33.83 | 401 | 434.83 | 10 | | 147 | 0 | 582 | 547.1672 | |
| 680 | 33.83 | 402 | 434.83 | 0 | 40 | 147 | 0 | 582 | 548.1672 | 40 |
| 681 | 33.83 | 402 | 435.83 | 10 | | 147 | 0 | 583 | 548.1672 | |
| 682 | 33.83 | 403 | 435.83 | 0 | | 147 | 0 | 583 | 549.1672 | |
| 683 | 33.83 | 403 | 436.83 | 10 | | 147 | 0 | 584 | 549.1672 | |
| 684 | 33.83 | 404 | 436.83 | 0 | | 147 | 0 | 584 | 550.1672 | |
| 685 | 33.83 | 404 | 437.83 | 10 | | 147 | 0 | 585 | 550.1672 | |
| 686 | 33.83 | 404 | 437.83 | 0 | | 147 | 0 | 585 | 551.1672 | |
| 687 | 33.83 | 404 | 437.83 | 0 | | 147 | 0 | 585 | 551.1672 | |
| 688 | 33.83 | 405 | 437.83 | 0 | | 147 | 0 | 586 | 551.1672 | |
| 689 | 33.83 | 405 | 438.83 | 10 | | 147 | 0 | 586 | 552.1672 | |
| 690 | 33.83 | 406 | 438.83 | 0 | 40 | 147 | 0 | 587 | 552.1672 | 40 |
| 691 | 33.83 | 406 | 439.83 | 10 | | 147 | 0 | 587 | 553.1672 | |
| 692 | 33.83 | 407 | 439.83 | 0 | | 147 | 0 | 588 | 553.1672 | |
| 693 | 33.83 | 407 | 440.83 | 10 | | 147 | 0 | 588 | 554.1672 | |
| 694 | 33.83 | 407 | 440.83 | 0 | | 147 | 0 | 588 | 554.1672 | |
| 695 | 33.83 | 408 | 440.83 | 0 | | 147 | 0 | 589 | 554.1672 | |
| 696 | 33.83 | 408 | 441.83 | 10 | | 147 | 0 | 589 | 555.1672 | |
| 697 | 33.83 | 409 | 441.83 | 0 | | 147 | 0 | 590 | 555.1672 | |
| 698 | 33.83 | 410 | 442.83 | 10 | | 147 | 0 | 590 | 556.1672 | |
| 699 | 33.83 | 410 | 443.83 | 10 | | 147 | 0 | 591 | 556.1672 | |
| 700 | 33.83 | 411 | 443.83 | 0 | 50 | 147 | 0 | 591 | 557.1672 | 50 |
| 701 | 33.83 | 411 | 444.83 | 10 | | 147 | 0 | 592 | 557.1672 | |
| 702 | 33.83 | 412 | 444.83 | 0 | | 147 | 0 | 592 | 558.1672 | |
| 703 | 33.83 | 413 | 445.83 | 10 | | 147 | 0 | 593 | 558.1672 | |
| 704 | 33.83 | 413 | 446.83 | 10 | | 147 | 0 | 593 | 559.1672 | |
| 705 | 33.83 | 413 | 446.83 | 0 | | 147 | 0 | 594 | 559.1672 | |
| 706 | 33.83 | 414 | 446.83 | 0 | | 147 | 0 | 594 | 560.1672 | |
| 707 | 33.83 | 415 | 447.83 | 10 | | 147 | 0 | 595 | 560.1672 | |
| 708 | 33.83 | 415 | 448.83 | 10 | | 147 | 0 | 595 | 561.1672 | |
| 709 | 33.83 | 416 | 448.83 | 0 | | 147 | 0 | 596 | 561.1672 | |
| 710 | 33.83 | 417 | 449.83 | 10 | 60 | 147 | 0 | 596 | 562.1672 | 60 |
| 711 | 33.83 | 417 | 450.83 | 10 | | 147 | 0 | 597 | 562.1672 | |
| 712 | 33.83 | 418 | 450.83 | 0 | | 147 | 0 | 598 | 563.1672 | |
| 713 | 33.83 | 418 | 451.83 | 10 | | 147 | 0 | 598 | 564.1672 | |
| 714 | 33.83 | 419 | 451.83 | 0 | | 147 | 0 | 599 | 564.1672 | |
| 715 | 33.83 | 419 | 452.83 | 10 | | 147 | 0 | 599 | 565.1672 | |
| 716 | 33.83 | 420 | 452.83 | 0 | | 147 | 0 | 600 | 565.1672 | |
| 717 | 33.83 | 421 | 453.83 | 10 | | 147 | 0 | 601 | 566.1672 | |
| 718 | 33.83 | 422 | 454.83 | 10 | | 147 | 0 | 601 | 567.1672 | |
| 719 | 33.83 | 422 | 455.83 | 10 | | 147 | 0 | 602 | 567.1672 | |
| 720 | 33.83 | 423 | 455.83 | 0 | 60 | 147 | 0 | 602 | 568.1672 | 60 |
| 721 | 33.83 | 424 | 456.83 | 10 | | 147 | 0 | 603 | 568.1672 | |
| 722 | 33.83 | 424 | 457.83 | 10 | | 147 | 0 | 604 | 569.1672 | |
| 723 | 33.83 | 425 | 457.83 | 0 | | 147 | 0 | 604 | 570.1672 | |
| 724 | 33.83 | 426 | 458.83 | 10 | | 147 | 0 | 605 | 570.1672 | |
| 725 | 33.83 | 426 | 459.83 | 10 | | 147 | 0 | 606 | 571.1672 | |
| 726 | 33.83 | 427 | 459.83 | 0 | | 147 | 0 | 606 | 572.1672 | |

| | | | | | | | | | | |
|-----|-------|-----|--------|-------|--------|-----|----|-----|----------|--------|
| 727 | 33.83 | 428 | 460.83 | 10 | | 147 | 0 | 607 | 572.1672 | C-109 |
| 728 | 33.83 | 428 | 461.83 | 10 | | 147 | 0 | 607 | 573.1672 | |
| 729 | 33.83 | 429 | 461.83 | 0 | | 147 | 0 | 608 | 573.1672 | |
| 730 | 33.83 | 430 | 462.83 | 10 | 70 | 147 | 0 | 609 | 574.1672 | 70 |
| 731 | 33.83 | 430 | 463.83 | 10 | | 147 | 0 | 609 | 575.1672 | |
| 732 | 33.83 | 431 | 463.83 | 0 | | 147 | 0 | 610 | 575.1672 | |
| 733 | 34.44 | 431 | 464.83 | 10 | | 147 | 0 | 611 | 576.1672 | |
| 734 | 34.54 | 431 | 465.44 | 6.096 | | 147 | 0 | 611 | 576.5576 | |
| 735 | 34.54 | 431 | 465.54 | 1.016 | | 147 | 0 | 612 | 576.456 | |
| 736 | 34.54 | 432 | 465.54 | 0 | | 147 | 0 | 612 | 577.456 | |
| 737 | 34.54 | 433 | 466.54 | 10 | | 147 | 0 | 613 | 577.456 | |
| 738 | 34.54 | 433 | 467.54 | 10 | | 147 | 0 | 613 | 578.456 | |
| 739 | 34.54 | 434 | 467.54 | 0 | | 147 | 0 | 614 | 578.456 | |
| 740 | 34.54 | 435 | 468.54 | 10 | 57.112 | 147 | 0 | 614 | 579.456 | 57.112 |
| 741 | 34.54 | 436 | 469.54 | 10 | | 147 | 0 | 615 | 579.456 | |
| 742 | 35.13 | 436 | 470.54 | 10 | | 147 | 0 | 616 | 580.456 | |
| 743 | 35.15 | 436 | 471.13 | 5.842 | | 147 | 0 | 616 | 580.8718 | |
| 744 | 35.15 | 437 | 471.15 | 0.254 | | 147 | 0 | 617 | 580.8464 | |
| 745 | 35.15 | 438 | 472.15 | 10 | | 147 | 0 | 617 | 581.8464 | |
| 746 | 35.15 | 439 | 473.15 | 10 | | 147 | 0 | 618 | 581.8464 | |
| 747 | 35.15 | 440 | 474.15 | 10 | | 147 | 0 | 619 | 582.8464 | |
| 748 | 35.15 | 441 | 475.15 | 10 | | 147 | 0 | 619 | 583.8464 | |
| 749 | 35.15 | 441 | 476.15 | 10 | | 147 | 0 | 620 | 583.8464 | |
| 750 | 35.15 | 441 | 476.15 | 0 | 76.096 | 147 | 0 | 620 | 584.8464 | 76.096 |
| 751 | 35.15 | 442 | 476.15 | 0 | | 147 | 0 | 621 | 584.8464 | |
| 752 | 35.15 | 443 | 477.15 | 10 | | 147 | 0 | 622 | 585.8464 | |
| 753 | 35.15 | 443 | 478.15 | 10 | | 148 | 0 | 622 | 586.8464 | |
| 754 | 35.15 | 444 | 478.15 | 0 | | 148 | 10 | 623 | 586.8464 | |
| 755 | 35.15 | 445 | 479.15 | 10 | | 148 | 0 | 624 | 587.8464 | |
| 756 | 35.15 | 446 | 480.15 | 10 | | 148 | 0 | 624 | 588.8464 | |
| 757 | 35.15 | 447 | 481.15 | 10 | | 148 | 0 | 625 | 588.8464 | |
| 758 | 35.15 | 448 | 482.15 | 10 | | 148 | 0 | 626 | 589.8464 | |
| 759 | 35.15 | 449 | 483.15 | 10 | | 148 | 0 | 626 | 590.8464 | |
| 760 | 35.15 | 450 | 484.15 | 10 | 80 | 148 | 0 | 627 | 590.8464 | 90 |
| 761 | 35.15 | 451 | 485.15 | 10 | | 148 | 0 | 628 | 591.8464 | |
| 762 | 35.15 | 452 | 486.15 | 10 | | 148 | 0 | 629 | 592.8464 | |
| 763 | 35.15 | 452 | 487.15 | 10 | | 148 | 0 | 629 | 593.8464 | |
| 764 | 35.15 | 453 | 487.15 | 0 | | 148 | 0 | 630 | 593.8464 | |
| 765 | 35.15 | 454 | 488.15 | 10 | | 148 | 0 | 631 | 594.8464 | |
| 766 | 35.15 | 455 | 489.15 | 10 | | 148 | 0 | 631 | 595.8464 | |
| 767 | 35.15 | 456 | 490.15 | 10 | | 149 | 0 | 632 | 595.8464 | |
| 768 | 35.15 | 457 | 491.15 | 10 | | 149 | 10 | 633 | 596.8464 | |
| 769 | 35.15 | 458 | 492.15 | 10 | | 149 | 0 | 634 | 597.8464 | |
| 770 | 35.15 | 460 | 493.15 | 10 | 90 | 149 | 0 | 634 | 598.8464 | 100 |
| 771 | 35.15 | 460 | 495.15 | 20 | | 149 | 0 | 635 | 598.8464 | |
| 772 | 35.15 | 461 | 495.15 | 0 | | 149 | 0 | 636 | 599.8464 | |
| 773 | 35.15 | 462 | 496.15 | 10 | | 149 | 0 | 636 | 600.8464 | |
| 774 | 35.15 | 463 | 497.15 | 10 | | 149 | 0 | 637 | 600.8464 | |
| 775 | 35.15 | 463 | 498.15 | 10 | | 149 | 0 | 638 | 601.8464 | |
| 776 | 35.15 | 464 | 498.15 | 0 | | 150 | 0 | 638 | 602.8464 | |
| 777 | 35.15 | 465 | 499.15 | 10 | | 150 | 10 | 639 | 602.8464 | |
| 778 | 35.15 | 466 | 500.15 | 10 | | 150 | 0 | 640 | 603.8464 | |
| 779 | 35.15 | 467 | 501.15 | 10 | | 150 | 0 | 641 | 604.8464 | |
| 780 | 35.15 | 468 | 502.15 | 10 | 90 | 150 | 0 | 642 | 605.8464 | 100 |
| 781 | 35.15 | 469 | 503.15 | 10 | | 150 | 0 | 643 | 606.8464 | |
| 782 | 35.15 | 470 | 504.15 | 10 | | 150 | 0 | 644 | 607.8464 | |
| 783 | 38.55 | 467 | 505.15 | 10 | | 150 | 0 | 645 | 608.8464 | |
| 784 | 38.55 | 468 | 505.55 | 4 | | 151 | 0 | 645 | 606.4464 | |
| 785 | 38.55 | 469 | 506.55 | 10 | | 151 | 10 | 646 | 606.4464 | |
| 786 | 38.55 | 470 | 507.55 | 10 | | 151 | 0 | 647 | 607.4464 | |
| 787 | 38.55 | 471 | 508.55 | 10 | | 151 | 0 | 648 | 608.4464 | |
| 788 | 38.55 | 472 | 509.55 | 10 | | 151 | 0 | 649 | 609.4464 | |
| 789 | 38.55 | 473 | 510.55 | 10 | | 151 | 0 | 650 | 610.4464 | |
| 790 | 38.55 | 474 | 511.55 | 10 | 94 | 152 | 0 | 651 | 611.4464 | 104 |
| 791 | 38.55 | 475 | 512.55 | 10 | | 152 | 10 | 652 | 612.4464 | |

| | | | | | | | | | | | |
|-----|-------|-----|--------|--------|---------|-----|----|-----|----------|----------|---------|
| 792 | 38.55 | 476 | 513.55 | 10 | | 152 | 0 | 653 | 613.4464 | C-110 | |
| 793 | 38.55 | 478 | 514.55 | 10 | | 152 | 0 | 654 | 614.4464 | | |
| 794 | 38.55 | 479 | 516.55 | 20 | | 152 | 0 | 655 | 615.4464 | | |
| 795 | 38.55 | 480 | 517.55 | 10 | | 153 | 0 | 656 | 616.4464 | | |
| 796 | 41.05 | 478 | 518.55 | 10 | | 153 | 10 | 657 | 617.4464 | | |
| 797 | 41.65 | 479 | 519.05 | 5 | | 153 | 0 | 658 | 615.9464 | | |
| 798 | 41.65 | 480 | 520.65 | 16 | | 154 | 0 | 659 | 616.3464 | | |
| 799 | 41.65 | 481 | 521.65 | 10 | | 154 | 10 | 660 | 617.3464 | | |
| 800 | 44.25 | 479 | 522.65 | 10 | 111 | 154 | 0 | 30 | 661 | 618.3464 | 141 |
| 801 | 44.25 | 480 | 523.25 | 6 | | 154 | 0 | | 662 | 616.7464 | |
| 802 | 44.25 | 481 | 524.25 | 10 | | 155 | 0 | | 663 | 617.7464 | |
| 803 | 44.25 | 481 | 525.25 | 10 | | 155 | 10 | | 664 | 618.7464 | |
| 804 | 44.25 | 482 | 525.25 | 0 | | 156 | 0 | | 666 | 619.7464 | |
| 805 | 44.25 | 483 | 526.25 | 10 | | 156 | 10 | | 667 | 621.7464 | |
| 806 | 44.25 | 484 | 527.25 | 10 | | 156 | 0 | | 668 | 622.7464 | |
| 807 | 44.25 | 485 | 528.25 | 10 | | 156 | 0 | | 669 | 623.7464 | |
| 808 | 46.25 | 484 | 529.25 | 10 | | 157 | 0 | | 670 | 624.7464 | |
| 809 | 46.25 | 485 | 530.25 | 10 | | 157 | 10 | | 671 | 623.7464 | |
| 810 | 46.25 | 486 | 531.25 | 10 | 86 | 158 | 0 | 30 | 672 | 624.7464 | 116 |
| 811 | 46.25 | 487 | 532.25 | 10 | | 158 | 10 | | 673 | 625.7464 | |
| 812 | 49.25 | 485 | 533.25 | 10 | | 159 | 0 | | 674 | 626.7464 | |
| 813 | 49.25 | 486 | 534.25 | 10 | | 159 | 10 | | 675 | 624.7464 | |
| 814 | 49.25 | 487 | 535.25 | 10 | | 159 | 0 | | 676 | 625.7464 | |
| 815 | 49.25 | 488 | 536.25 | 10 | | 160 | 0 | | 677 | 626.7464 | |
| 816 | 49.25 | 490 | 537.25 | 10 | | 160 | 10 | | 679 | 627.7464 | |
| 817 | 49.25 | 491 | 539.25 | 20 | | 161 | 0 | | 680 | 629.7464 | |
| 818 | 49.25 | 492 | 540.25 | 10 | | 161 | 10 | | 681 | 630.7464 | |
| 819 | 49.25 | 493 | 541.25 | 10 | | 162 | 0 | | 682 | 631.7464 | |
| 820 | 49.25 | 494 | 542.25 | 10 | 110 | 162 | 10 | 50 | 683 | 632.7464 | 160 |
| 821 | 49.25 | 495 | 543.25 | 10 | | 163 | 0 | | 684 | 633.7464 | |
| 822 | 49.25 | 496 | 544.25 | 10 | | 163 | 10 | | 685 | 634.7464 | |
| 823 | 49.25 | 497 | 545.25 | 10 | | 164 | 0 | | 686 | 635.7464 | |
| 824 | 51.65 | 495 | 546.25 | 10 | | 164 | 10 | | 687 | 636.7464 | |
| 825 | 52.45 | 495 | 546.65 | 4 | | 164 | 0 | | 688 | 635.3464 | |
| 826 | 52.45 | 496 | 547.45 | 8 | | 165 | 0 | | 689 | 635.5464 | |
| 827 | 52.45 | 497 | 548.45 | 10 | | 165 | 10 | | 690 | 636.5464 | |
| 828 | 52.45 | 497 | 549.45 | 10 | | 165 | 0 | | 691 | 637.5464 | |
| 829 | 52.45 | 498 | 549.45 | 0 | | 166 | 0 | | 692 | 638.5464 | |
| 830 | 52.45 | 499 | 550.45 | 10 | 82 | 166 | 10 | 40 | 693 | 639.5464 | 122 |
| 831 | 52.45 | 500 | 551.45 | 10 | | 167 | 0 | | 694 | 640.5464 | |
| 832 | 52.45 | 501 | 552.45 | 10 | | 167 | 10 | | 695 | 641.5464 | |
| 833 | 52.45 | 502 | 553.45 | 10 | | 168 | 0 | | 696 | 642.5464 | |
| 834 | 52.45 | 503 | 554.45 | 10 | | 168 | 10 | | 697 | 643.5464 | |
| 835 | 52.45 | 504 | 555.45 | 10 | | 169 | 0 | | 698 | 644.5464 | |
| 836 | 52.61 | 505 | 556.45 | 10 | | 169 | 10 | | 699 | 645.5464 | |
| 837 | 52.61 | 506 | 557.61 | 11.524 | | 170 | 0 | | 700 | 646.394 | |
| 838 | 52.61 | 507 | 558.61 | 10 | | 170 | 10 | | 701 | 647.394 | |
| 839 | 52.61 | 509 | 559.61 | 10 | | 171 | 0 | | 702 | 648.394 | |
| 840 | 52.61 | 510 | 561.61 | 20 | 111.524 | 171 | 10 | 50 | 703 | 649.394 | 161.524 |
| 841 | 52.61 | 511 | 562.61 | 10 | | 172 | 0 | | 704 | 650.394 | |
| 842 | 52.63 | 511 | 563.61 | 10 | | 172 | 10 | | 704 | 651.394 | |
| 843 | 52.68 | 512 | 563.63 | 0.254 | | 173 | 0 | | 705 | 651.3686 | |
| 844 | 52.73 | 513 | 564.68 | 10.508 | | 173 | 10 | | 706 | 652.3178 | |
| 845 | 52.73 | 514 | 565.73 | 10.508 | | 174 | 0 | | 707 | 653.267 | |
| 846 | 52.73 | 515 | 566.73 | 10 | | 174 | 10 | | 708 | 654.267 | |
| 847 | 53.27 | 515 | 567.73 | 10 | | 175 | 0 | | 709 | 655.267 | |
| 848 | 53.27 | 516 | 568.27 | 5.334 | | 175 | 10 | | 710 | 655.7336 | |
| 849 | 53.27 | 516 | 569.27 | 10 | | 176 | 0 | | 711 | 656.7336 | |
| 850 | 53.27 | 517 | 569.27 | 0 | 76.604 | 176 | 10 | 50 | 712 | 657.7336 | 126.604 |
| 851 | 53.27 | 518 | 570.27 | 10 | | 177 | 0 | | 713 | 658.7336 | |
| 852 | 53.27 | 518 | 571.27 | 10 | | 177 | 10 | | 714 | 659.7336 | |
| 853 | 53.27 | 519 | 571.27 | 0 | | 177 | 0 | | 715 | 660.7336 | |
| 854 | 53.29 | 519 | 572.27 | 10 | | 178 | 0 | | 716 | 661.7336 | |
| 855 | 53.32 | 520 | 572.29 | 0.254 | | 178 | 10 | | 717 | 662.7082 | |
| 856 | 56.12 | 518 | 573.32 | 10.254 | | 179 | 0 | | 718 | 663.6828 | |

| | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|-----|----------|---------|
| 857 | 56.12 | 519 | 574.12 | 8.034 | | 179 | 10 | 719 | 661.8794 | C-111 |
| 858 | 56.12 | 520 | 575.12 | 10 | | 180 | 0 | 720 | 662.8794 | |
| 859 | 56.12 | 520 | 576.12 | 10 | | 180 | 10 | 721 | 663.8794 | |
| 860 | 56.12 | 521 | 576.12 | 0 | 68.542 | 181 | 0 | 722 | 664.8794 | 108.542 |
| 861 | 56.89 | 521 | 577.12 | 10 | | 181 | 10 | 723 | 665.8794 | |
| 862 | 56.89 | 522 | 577.89 | 7.7 | | 182 | 0 | 724 | 666.1094 | |
| 863 | 56.89 | 523 | 578.89 | 10 | | 182 | 10 | 725 | 667.1094 | |
| 864 | 56.89 | 524 | 579.89 | 10 | | 183 | 0 | 726 | 668.1094 | |
| 865 | 56.89 | 524 | 580.89 | 10 | | 183 | 10 | 727 | 669.1094 | |
| 866 | 56.94 | 525 | 580.89 | 0 | | 184 | 0 | 727 | 670.1094 | |
| 867 | 56.94 | 526 | 581.94 | 10.508 | | 184 | 10 | 728 | 670.0586 | |
| 868 | 56.94 | 526 | 582.94 | 10 | | 185 | 0 | 729 | 671.0586 | |
| 869 | 56.97 | 527 | 582.94 | 0 | | 185 | 10 | 730 | 672.0586 | |
| 870 | 56.97 | 527 | 583.97 | 10.254 | 78.462 | 186 | 0 | 731 | 673.0332 | 128.462 |
| 871 | 56.97 | 528 | 583.97 | 0 | | 186 | 10 | 732 | 674.0332 | |
| 872 | 57.25 | 528 | 584.97 | 10 | | 186 | 0 | 733 | 675.0332 | |
| 873 | 57.32 | 528 | 585.25 | 2.794 | | 187 | 0 | 734 | 675.7538 | |
| 874 | 57.81 | 529 | 585.32 | 0.762 | | 187 | 10 | 735 | 676.6776 | |
| 875 | 58.8 | 528 | 586.81 | 14.826 | | 187 | 0 | 736 | 677.195 | |
| 876 | 58.8 | 529 | 586.8 | -0.094 | | 188 | 0 | 737 | 677.2044 | |
| 877 | 59.89 | 529 | 587.8 | 10 | | 188 | 10 | 739 | 678.2044 | |
| 878 | 59.94 | 530 | 588.89 | 10.922 | | 189 | 0 | 740 | 679.1122 | |
| 879 | 61.99 | 528 | 589.94 | 10.508 | | 189 | 10 | 741 | 680.0614 | |
| 880 | 62.09 | 529 | 589.99 | 0.48 | 60.198 | 189 | 0 | 742 | 679.0134 | 100.198 |
| 881 | 63.13 | 528 | 591.09 | 11.016 | | 190 | 0 | 744 | 679.9118 | |
| 882 | 63.13 | 529 | 591.13 | 0.4 | | 191 | 10 | 745 | 680.8718 | |
| 883 | 63.15 | 530 | 592.13 | 10 | | 191 | 10 | 746 | 681.8718 | |
| 884 | 63.15 | 531 | 593.15 | 10.254 | | 191 | 0 | 747 | 682.8464 | |
| 885 | 63.15 | 532 | 594.15 | 10 | | 192 | 0 | 748 | 683.8464 | |
| 886 | 63.15 | 533 | 595.15 | 10 | | 193 | 10 | 750 | 684.8464 | |
| 887 | 63.15 | 533 | 596.15 | 10 | | 193 | 10 | 751 | 686.8464 | |
| 888 | 63.74 | 534 | 596.15 | 0 | | 193 | 0 | 752 | 687.8464 | |
| 889 | 63.89 | 534 | 597.74 | 15.842 | | 194 | 0 | 753 | 688.2622 | |
| 890 | 63.89 | 535 | 597.89 | 1.524 | 79.036 | 194 | 10 | 754 | 689.1098 | 129.036 |
| 891 | 63.89 | 536 | 598.89 | 10 | | 195 | 0 | 755 | 690.1098 | |
| 892 | 65.56 | 536 | 599.89 | 10 | | 195 | 10 | 756 | 691.1098 | |
| 893 | 65.56 | 537 | 601.56 | 16.7 | | 196 | 0 | 757 | 690.4398 | |
| 894 | 65.61 | 537 | 602.56 | 10 | | 196 | 10 | 758 | 691.4398 | |
| 895 | 65.61 | 538 | 602.61 | 0.508 | | 197 | 0 | 759 | 692.389 | |
| 896 | 65.61 | 539 | 603.61 | 10 | | 197 | 10 | 760 | 693.389 | |
| 897 | 65.66 | 540 | 604.61 | 10 | | 198 | 0 | 761 | 694.389 | |
| 898 | 65.66 | 541 | 605.66 | 10.508 | | 198 | 10 | 762 | 695.3382 | |
| 899 | 65.66 | 541 | 606.66 | 10 | | 199 | 0 | 763 | 696.3382 | |
| 900 | 65.66 | 542 | 606.66 | 0 | 87.716 | 199 | 10 | 764 | 697.3382 | 137.716 |
| 901 | 65.66 | 543 | 607.66 | 10 | | 200 | 0 | 765 | 698.3382 | |
| 902 | 65.66 | 544 | 608.66 | 10 | | 200 | 10 | 766 | 699.3382 | |
| 903 | 67.8 | 542 | 609.66 | 10 | | 200 | 0 | 767 | 700.3382 | |
| 904 | 67.8 | 543 | 609.8 | 1.336 | | 201 | 0 | 768 | 699.2046 | |
| 905 | 67.8 | 544 | 610.8 | 10 | | 201 | 10 | 769 | 700.2046 | |
| 906 | 67.8 | 544 | 611.8 | 10 | | 202 | 0 | 770 | 701.2046 | |
| 907 | 67.8 | 545 | 611.8 | 0 | | 202 | 10 | 771 | 702.2046 | |
| 908 | 67.8 | 546 | 612.8 | 10 | | 203 | 0 | 772 | 703.2046 | |
| 909 | 67.8 | 546 | 613.8 | 10 | | 203 | 10 | 773 | 704.2046 | |
| 910 | 67.8 | 547 | 613.8 | 0 | 71.336 | 203 | 0 | 774 | 705.2046 | 111.336 |
| 911 | 67.8 | 548 | 614.8 | 10 | | 204 | 0 | 774 | 706.2046 | |
| 912 | 67.8 | 549 | 615.8 | 10 | | 204 | 10 | 775 | 706.2046 | |
| 913 | 68.38 | 549 | 616.8 | 10 | | 205 | 0 | 776 | 707.2046 | |
| 914 | 68.38 | 549 | 617.38 | 5.842 | | 205 | 10 | 777 | 707.6204 | |
| 915 | 68.38 | 550 | 617.38 | 0 | | 205 | 0 | 778 | 708.6204 | |
| 916 | 68.51 | 550 | 618.38 | 10 | | 206 | 0 | 779 | 709.6204 | |
| 917 | 68.79 | 550 | 618.51 | 1.27 | | 206 | 10 | 780 | 710.4934 | |
| 918 | 69.62 | 550 | 618.79 | 2.794 | | 206 | 0 | 781 | 711.214 | |
| 919 | 69.62 | 551 | 619.62 | 8.382 | | 207 | 0 | 782 | 711.3758 | |
| 920 | 69.62 | 551 | 620.62 | 10 | 68.288 | 207 | 10 | 783 | 712.3758 | 108.288 |
| 921 | 69.62 | 552 | 620.62 | 0 | | 207 | 0 | 784 | 713.3758 | |

| | | | | | | | | | | |
|-----|-------|-----|--------|--------|--------|-----|----|-----|----------|--------|
| 922 | 69.62 | 553 | 621.62 | 10 | | 208 | 0 | 784 | 714.3758 | |
| 923 | 69.75 | 553 | 622.62 | 10 | | 208 | 10 | 785 | 714.3758 | |
| 924 | 69.75 | 554 | 622.75 | 1.27 | | 208 | 0 | 786 | 715.2488 | |
| 925 | 69.75 | 555 | 623.75 | 10 | | 209 | 0 | 787 | 716.2488 | |
| 926 | 69.75 | 555 | 624.75 | 10 | | 209 | 10 | 788 | 717.2488 | |
| 927 | 69.75 | 556 | 624.75 | 0 | | 210 | 0 | 789 | 718.2488 | |
| 928 | 69.75 | 557 | 625.75 | 10 | | 210 | 10 | 790 | 719.2488 | |
| 929 | 69.75 | 558 | 626.75 | 10 | | 211 | 0 | 791 | 720.2488 | |
| 930 | 69.75 | 558 | 627.75 | 10 | 71.27 | 211 | 10 | 792 | 721.2488 | 111.27 |
| 931 | 69.75 | 559 | 627.75 | 0 | | 211 | 0 | 793 | 722.2488 | |
| 932 | 69.75 | 560 | 628.75 | 10 | | 212 | 0 | 794 | 723.2488 | |
| 933 | 69.75 | 561 | 629.75 | 10 | | 212 | 10 | 794 | 724.2488 | |
| 934 | 69.75 | 561 | 630.75 | 10 | | 212 | 0 | 795 | 724.2488 | |
| 935 | 69.75 | 562 | 630.75 | 0 | | 213 | 0 | 796 | 725.2488 | |
| 936 | 69.75 | 563 | 631.75 | 10 | | 213 | 10 | 797 | 726.2488 | |
| 937 | 69.75 | 564 | 632.75 | 10 | | 213 | 0 | 798 | 727.2488 | |
| 938 | 69.75 | 564 | 633.75 | 10 | | 214 | 0 | 799 | 728.2488 | |
| 939 | 69.75 | 565 | 633.75 | 0 | | 214 | 10 | 800 | 729.2488 | |
| 940 | 69.75 | 566 | 634.75 | 10 | 70 | 214 | 0 | 801 | 730.2488 | 100 |
| 941 | 69.75 | 566 | 635.75 | 10 | | 215 | 0 | 801 | 731.2488 | |
| 942 | 69.75 | 567 | 635.75 | 0 | | 215 | 10 | 802 | 731.2488 | |
| 943 | 69.75 | 568 | 636.75 | 10 | | 215 | 0 | 803 | 732.2488 | |
| 944 | 69.75 | 569 | 637.75 | 10 | | 215 | 0 | 804 | 733.2488 | |
| 945 | 69.75 | 569 | 638.75 | 10 | | 216 | 0 | 805 | 734.2488 | |
| 946 | 69.75 | 570 | 638.75 | 0 | | 216 | 10 | 806 | 735.2488 | |
| 947 | 70.28 | 569 | 639.75 | 10 | | 216 | 0 | 807 | 736.2488 | |
| 948 | 70.28 | 570 | 639.28 | -4.666 | | 217 | 0 | 808 | 736.7154 | |
| 949 | 70.28 | 570 | 640.28 | 10 | | 217 | 10 | 808 | 737.7154 | |
| 950 | 70.28 | 571 | 640.28 | 0 | 55.334 | 217 | 0 | 809 | 737.7154 | 85.334 |
| 951 | 70.28 | 571 | 641.28 | 10 | | 217 | 0 | 810 | 738.7154 | |
| 952 | 70.28 | 572 | 641.28 | 0 | | 218 | 0 | 811 | 739.7154 | |
| 953 | 70.28 | 573 | 642.28 | 10 | | 218 | 10 | 812 | 740.7154 | |
| 954 | 70.28 | 573 | 643.28 | 10 | | 218 | 0 | 813 | 741.7154 | |
| 955 | 70.28 | 574 | 643.28 | 0 | | 218 | 0 | 814 | 742.7154 | |
| 956 | 70.28 | 575 | 644.28 | 10 | | 218 | 0 | 815 | 743.7154 | |
| 957 | 70.28 | 575 | 645.28 | 10 | | 218 | 0 | 816 | 744.7154 | |
| 958 | 70.28 | 576 | 645.28 | 0 | | 218 | 0 | 817 | 745.7154 | |
| 959 | 70.28 | 576 | 646.28 | 10 | | 218 | 0 | 818 | 746.7154 | |
| 960 | 70.28 | 577 | 646.28 | 0 | 60 | 218 | 0 | 819 | 747.7154 | 70 |
| 961 | 70.28 | 577 | 647.28 | 10 | | 219 | 0 | 820 | 748.7154 | |
| 962 | 70.28 | 578 | 647.28 | 0 | | 219 | 10 | 821 | 749.7154 | |
| 963 | 70.28 | 579 | 648.28 | 10 | | 219 | 0 | 822 | 750.7154 | |
| 964 | 70.28 | 579 | 649.28 | 10 | | 219 | 0 | 823 | 751.7154 | |
| 965 | 70.28 | 580 | 649.28 | 0 | | 219 | 0 | 824 | 752.7154 | |
| 966 | 70.28 | 580 | 650.28 | 10 | | 219 | 0 | 825 | 753.7154 | |
| 967 | 70.28 | 581 | 650.28 | 0 | | 219 | 0 | 826 | 754.7154 | |
| 968 | 70.28 | 581 | 651.28 | 10 | | 219 | 0 | 827 | 755.7154 | |
| 969 | 70.28 | 582 | 651.28 | 0 | | 219 | 0 | 827 | 756.7154 | |
| 970 | 70.28 | 582 | 652.28 | 10 | 60 | 219 | 0 | 828 | 756.7154 | 70 |
| 971 | 70.28 | 583 | 652.28 | 0 | | 219 | 0 | 829 | 757.7154 | |
| 972 | 70.28 | 584 | 653.28 | 10 | | 219 | 0 | 830 | 758.7154 | |
| 973 | 70.28 | 584 | 654.28 | 10 | | 220 | 0 | 831 | 759.7154 | |
| 974 | 70.28 | 585 | 654.28 | 0 | | 220 | 10 | 832 | 760.7154 | |
| 975 | 70.28 | 585 | 655.28 | 10 | | 220 | 0 | 833 | 761.7154 | |
| 976 | 70.28 | 586 | 655.28 | 0 | | 220 | 0 | 834 | 762.7154 | |
| 977 | 70.28 | 586 | 656.28 | 10 | | 220 | 0 | 835 | 763.7154 | |
| 978 | 70.28 | 587 | 656.28 | 0 | | 220 | 0 | 836 | 764.7154 | |
| 979 | 70.28 | 587 | 657.28 | 10 | | 220 | 0 | 836 | 765.7154 | |
| 980 | 70.28 | 588 | 657.28 | 0 | 50 | 220 | 0 | 837 | 765.7154 | 60 |
| 981 | 70.28 | 588 | 658.28 | 10 | | 220 | 0 | 838 | 766.7154 | |
| 982 | 70.28 | 589 | 658.28 | 0 | | 220 | 0 | 839 | 767.7154 | |
| 983 | 70.28 | 589 | 659.28 | 10 | | 220 | 0 | 840 | 768.7154 | |
| 984 | 70.28 | 590 | 659.28 | 0 | | 220 | 0 | 841 | 769.7154 | |
| 985 | 70.28 | 590 | 660.28 | 10 | | 220 | 0 | 841 | 770.7154 | |
| 986 | 70.28 | 590 | 660.28 | 0 | | 220 | 0 | 842 | 770.7154 | |

| | | | | | | | | | | | | |
|------|-------|-----|--------|-------|--------|-----|---|---|-----|----------|--|--------|
| 987 | 70.28 | 591 | 660.28 | 0 | | 220 | 0 | | 843 | 771.7154 | | C-113 |
| 988 | 70.28 | 591 | 661.28 | 10 | | 220 | 0 | | 844 | 772.7154 | | |
| 989 | 70.28 | 592 | 661.28 | 0 | | 220 | 0 | | 844 | 773.7154 | | |
| 990 | 70.28 | 592 | 662.28 | 10 | 50 | 220 | 0 | 0 | 845 | 773.7154 | | 50 |
| 991 | 70.28 | 593 | 662.28 | 0 | | 220 | 0 | | 846 | 774.7154 | | |
| 992 | 70.28 | 593 | 663.28 | 10 | | 220 | 0 | | 846 | 775.7154 | | |
| 993 | 70.28 | 593 | 663.28 | 0 | | 220 | 0 | | 847 | 775.7154 | | |
| 994 | 70.28 | 594 | 663.28 | 0 | | 220 | 0 | | 848 | 776.7154 | | |
| 995 | 70.36 | 594 | 664.28 | 10 | | 220 | 0 | | 848 | 777.7154 | | |
| 996 | 70.36 | 594 | 664.36 | 0.8 | | 220 | 0 | | 849 | 777.6354 | | |
| 997 | 70.36 | 595 | 664.36 | 0 | | 220 | 0 | | 849 | 778.6354 | | |
| 998 | 70.36 | 595 | 665.36 | 10 | | 220 | 0 | | 850 | 778.6354 | | |
| 999 | 70.54 | 595 | 665.36 | 0 | | 220 | 0 | | 850 | 779.6354 | | |
| 1000 | 70.54 | 595 | 665.54 | 1.78 | 32.58 | 220 | 0 | 0 | 851 | 779.4574 | | 32.58 |
| 1001 | 70.54 | 596 | 665.54 | 0 | | 220 | 0 | | 851 | 780.4574 | | |
| 1002 | 70.54 | 596 | 666.54 | 10 | | 220 | 0 | | 851 | 780.4574 | | |
| 1003 | 70.54 | 596 | 666.54 | 0 | | 220 | 0 | | 852 | 780.4574 | | |
| 1004 | 70.54 | 597 | 666.54 | 0 | | 220 | 0 | | 852 | 781.4574 | | |
| 1005 | 70.54 | 597 | 667.54 | 10 | | 220 | 0 | | 852 | 781.4574 | | |
| 1006 | 70.54 | 597 | 667.54 | 0 | | 220 | 0 | | 853 | 781.4574 | | |
| 1007 | 70.54 | 598 | 667.54 | 0 | | 220 | 0 | | 853 | 782.4574 | | |
| 1008 | 70.54 | 598 | 668.54 | 10 | | 220 | 0 | | 853 | 782.4574 | | |
| 1009 | 70.54 | 599 | 668.54 | 0 | | 220 | 0 | | 854 | 782.4574 | | |
| 1010 | 70.54 | 599 | 669.54 | 10 | 40 | 220 | 0 | 0 | 854 | 783.4574 | | 40 |
| 1011 | 70.54 | 599 | 669.54 | 0 | | 220 | 0 | | 855 | 783.4574 | | |
| 1012 | 70.54 | 599 | 669.54 | 0 | | 220 | 0 | | 855 | 784.4574 | | |
| 1013 | 70.54 | 599 | 669.54 | 0 | | 220 | 0 | | 855 | 784.4574 | | |
| 1014 | 70.54 | 599 | 669.54 | 0 | | 220 | 0 | | 855 | 784.4574 | | |
| 1015 | 70.54 | 600 | 669.54 | 0 | | 220 | 0 | | 855 | 784.4574 | | |
| 1016 | 70.54 | 600 | 670.54 | 10 | | 220 | 0 | | 856 | 784.4574 | | |
| 1017 | 70.75 | 600 | 670.54 | 0 | | 220 | 0 | | 856 | 785.4574 | | |
| 1018 | 70.75 | 600 | 670.75 | 2.032 | | 220 | 0 | | 856 | 785.2542 | | |
| 1019 | 70.75 | 600 | 670.75 | 0 | | 220 | 0 | | 856 | 785.2542 | | |
| 1020 | 70.75 | 600 | 670.75 | 0 | 22.032 | 220 | 0 | 0 | 856 | 785.2542 | | 22.032 |
| 1021 | 70.75 | 601 | 670.75 | 0 | | 220 | 0 | | 856 | 785.2542 | | |
| 1022 | 70.75 | 601 | 671.75 | 10 | | 220 | 0 | | 857 | 785.2542 | | |
| end | | | | | | | | | | | | |

| SCSMatM288 | | | | | | | | | | | | | ET=37.6371 [12.1T,25.5E] Increase=-91.082 [-70.8%] | | |
|-------------------|-------------------|-----------|--------|----------|----------|----------|---------|----------|-----------|----------|----------|-------|-----------------------------------------------------------|--|--|
| Time | CumP ^r | sum(vTop) | Cumm E | Daily E | 10day E | sum(vRoc | Daily T | 10day T | sum(vBot) | Cumm Dis | 10day ET | | | | |
| [day] | [cm] | [L] | [cm] | [mm/day] | [mm/10d] | [L] | [mm] | [mm/10d] | [L] | [cm] | [mm/10d] | | | | |
| 650 | 33.63 | -0.145 | 33.485 | 0 | 0 | 40.1 | 0 | 0 | -141 | -174.63 | 0 | | | | |
| 651 | 33.63 | -0.145 | 33.485 | 0 | | 40.1 | 0 | | -141 | -174.63 | | | | | |
| 652 | 33.83 | -0.292 | 33.485 | 0 | | 40.1 | 0 | | -142 | -174.63 | | | | | |
| 653 | 33.83 | -0.235 | 33.541 | 0.562 | | 40.1 | 0 | | -143 | -175.833 | | | | | |
| 654 | 33.83 | -0.226 | 33.598 | 0.57 | | 40.1 | 0 | | -144 | -176.833 | | | | | |
| 655 | 33.83 | -0.221 | 33.607 | 0.09 | | 40.1 | 0 | | -144 | -177.833 | | | | | |
| 656 | 33.83 | -0.218 | 33.612 | 0.05 | | 40.1 | 0 | | -145 | -177.833 | | | | | |
| 657 | 33.83 | -0.216 | 33.615 | 0.03 | | 40.1 | 0 | | -146 | -178.833 | | | | | |
| 658 | 33.83 | -0.214 | 33.617 | 0.02 | | 40.1 | 0 | | -147 | -179.833 | | | | | |
| 659 | 33.83 | -0.212 | 33.619 | 0.02 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 660 | 33.83 | -0.211 | 33.621 | 0.02 | 1.362 | 40.1 | 0 | 0 | -147 | -180.833 | | 1.362 | | | |
| 661 | 33.83 | -0.21 | 33.622 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 662 | 33.83 | -0.209 | 33.623 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 663 | 33.83 | -0.208 | 33.624 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 664 | 33.83 | -0.207 | 33.625 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 665 | 33.83 | -0.206 | 33.626 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 666 | 33.83 | -0.205 | 33.627 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 667 | 33.83 | -0.205 | 33.628 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | | | | | |
| 668 | 33.83 | -0.204 | 33.628 | 0 | | 40.1 | 0 | | -147 | -180.833 | | | | | |

| | | | | | | | | | | | |
|-----|-------|--------|--------|------|------|------|---|---|------|----------|-------|
| 669 | 33.83 | -0.203 | 33.629 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | C-114 |
| 670 | 33.83 | -0.203 | 33.63 | 0.01 | 0.09 | 40.1 | 0 | 0 | -147 | -180.833 | 0.09 |
| 671 | 33.83 | -0.203 | 33.63 | 0 | | 40.1 | 0 | | -147 | -180.833 | |
| 672 | 33.83 | -0.202 | 33.63 | 0 | | 40.1 | 0 | | -146 | -180.833 | |
| 673 | 33.83 | -0.202 | 33.631 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 674 | 33.83 | -0.201 | 33.631 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 675 | 33.83 | -0.201 | 33.632 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 676 | 33.83 | -0.2 | 33.632 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 677 | 33.83 | -0.2 | 33.633 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 678 | 33.83 | -0.2 | 33.633 | 0 | | 40.1 | 0 | | -145 | -179.833 | |
| 679 | 33.83 | -0.199 | 33.633 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 680 | 33.83 | -0.199 | 33.634 | 0.01 | 0.04 | 40.1 | 0 | 0 | -145 | -178.833 | 0.04 |
| 681 | 33.83 | -0.199 | 33.634 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 682 | 33.83 | -0.199 | 33.634 | 0 | | 40.1 | 0 | | -146 | -178.833 | |
| 683 | 33.83 | -0.198 | 33.634 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 684 | 33.83 | -0.198 | 33.635 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 685 | 33.83 | -0.198 | 33.635 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 686 | 33.83 | -0.198 | 33.635 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 687 | 33.83 | -0.197 | 33.635 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 688 | 33.83 | -0.197 | 33.636 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 689 | 33.83 | -0.197 | 33.636 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 690 | 33.83 | -0.197 | 33.636 | 0 | 0.02 | 40.1 | 0 | 0 | -145 | -179.833 | 0.02 |
| 691 | 33.83 | -0.196 | 33.636 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 692 | 33.83 | -0.196 | 33.637 | 0.01 | | 40.1 | 0 | | -145 | -178.833 | |
| 693 | 33.83 | -0.196 | 33.637 | 0 | | 40.1 | 0 | | -146 | -178.833 | |
| 694 | 33.83 | -0.196 | 33.637 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 695 | 33.83 | -0.196 | 33.637 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 696 | 33.83 | -0.195 | 33.637 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 697 | 33.83 | -0.195 | 33.638 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 698 | 33.83 | -0.195 | 33.638 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 699 | 33.83 | -0.195 | 33.638 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 700 | 33.83 | -0.195 | 33.638 | 0 | 0.02 | 40.1 | 0 | 0 | -146 | -179.833 | 0.02 |
| 701 | 33.83 | -0.195 | 33.638 | 0 | | 40.1 | 0 | | -145 | -179.833 | |
| 702 | 33.83 | -0.194 | 33.638 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 703 | 33.83 | -0.194 | 33.639 | 0.01 | | 40.1 | 0 | | -145 | -178.833 | |
| 704 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 705 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 706 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 707 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | | -145 | -178.833 | |
| 708 | 33.83 | -0.193 | 33.639 | 0 | | 40.1 | 0 | | -144 | -178.833 | |
| 709 | 33.83 | -0.193 | 33.64 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 710 | 33.83 | -0.193 | 33.64 | 0 | 0.02 | 40.1 | 0 | 0 | -144 | -177.833 | 0.02 |
| 711 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 712 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 713 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 714 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 715 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 716 | 33.83 | -0.192 | 33.64 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 717 | 33.83 | -0.192 | 33.641 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 718 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 719 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 720 | 33.83 | -0.192 | 33.641 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 721 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 722 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 723 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 724 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 725 | 33.83 | -0.191 | 33.641 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 726 | 33.83 | -0.191 | 33.642 | 0.01 | | 40.1 | 0 | | -144 | -177.833 | |
| 727 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 728 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 729 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 730 | 33.83 | -0.191 | 33.642 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 731 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 732 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | | -144 | -177.833 | |
| 733 | 34.44 | -0.52 | 33.642 | 0 | | 40.1 | 0 | | -144 | -177.833 | |

| | | | | | | | | | | | |
|-----|-------|--------|--------|-------|-------|------|---|---|------|----------|-------|
| 734 | 34.54 | -0.406 | 33.922 | 2.806 | | 40.1 | 0 | | -144 | -178.442 | C-115 |
| 735 | 34.54 | -0.38 | 34.138 | 2.156 | | 40.1 | 0 | | -144 | -178.544 | |
| 736 | 34.54 | -0.366 | 34.164 | 0.26 | | 40.1 | 0 | | -144 | -178.544 | |
| 737 | 34.54 | -0.356 | 34.178 | 0.14 | | 40.1 | 0 | | -144 | -178.544 | |
| 738 | 34.54 | -0.349 | 34.188 | 0.1 | | 40.1 | 0 | | -144 | -178.544 | |
| 739 | 34.54 | -0.344 | 34.195 | 0.07 | | 40.1 | 0 | | -144 | -178.544 | |
| 740 | 34.54 | -0.339 | 34.2 | 0.05 | 5.582 | 40.1 | 0 | 0 | -144 | -178.544 | 5.582 |
| 741 | 34.54 | -0.335 | 34.205 | 0.05 | | 40.1 | 0 | | -144 | -178.544 | |
| 742 | 35.13 | -0.471 | 34.209 | 0.04 | | 40.1 | 0 | | -144 | -178.544 | |
| 743 | 35.15 | -0.394 | 34.657 | 4.482 | | 40.1 | 0 | | -144 | -179.128 | |
| 744 | 35.15 | -0.38 | 34.76 | 1.024 | | 40.1 | 0 | | -144 | -179.154 | |
| 745 | 35.15 | -0.371 | 34.774 | 0.14 | | 40.1 | 0 | | -144 | -179.154 | |
| 746 | 35.15 | -0.365 | 34.783 | 0.09 | | 40.1 | 0 | | -146 | -179.154 | |
| 747 | 35.15 | -0.36 | 34.789 | 0.06 | | 40.1 | 0 | | -144 | -181.154 | |
| 748 | 35.15 | -0.356 | 34.794 | 0.05 | | 40.1 | 0 | | -144 | -179.154 | |
| 749 | 35.15 | -0.352 | 34.798 | 0.04 | | 40.1 | 0 | | -145 | -179.154 | |
| 750 | 35.15 | -0.349 | 34.802 | 0.04 | 6.016 | 40.1 | 0 | 0 | -145 | -180.154 | 6.016 |
| 751 | 35.15 | -0.346 | 34.805 | 0.03 | | 40.1 | 0 | | -145 | -180.154 | |
| 752 | 35.15 | -0.344 | 34.808 | 0.03 | | 40.1 | 0 | | -145 | -180.154 | |
| 753 | 35.15 | -0.342 | 34.81 | 0.02 | | 40.1 | 0 | | -144 | -180.154 | |
| 754 | 35.15 | -0.34 | 34.812 | 0.02 | | 40.1 | 0 | | -143 | -179.154 | |
| 755 | 35.15 | -0.34 | 34.814 | 0.02 | | 40.1 | 0 | | -144 | -178.154 | |
| 756 | 35.15 | -0.339 | 34.814 | 0 | | 40.1 | 0 | | -144 | -179.154 | |
| 757 | 35.15 | -0.339 | 34.815 | 0.01 | | 40.2 | 0 | | -145 | -179.154 | |
| 758 | 35.15 | -0.339 | 34.815 | 0 | | 40.2 | 1 | | -146 | -180.154 | |
| 759 | 35.15 | -0.339 | 34.815 | 0 | | 40.2 | 0 | | -146 | -181.154 | |
| 760 | 35.15 | -0.339 | 34.815 | 0 | 0.13 | 40.2 | 0 | 1 | -146 | -181.154 | 1.13 |
| 761 | 35.15 | -0.339 | 34.815 | 0 | | 40.2 | 0 | | -147 | -181.154 | |
| 762 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 763 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 1 | | -147 | -182.154 | |
| 764 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 765 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 766 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 767 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 768 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -148 | -182.154 | |
| 769 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -149 | -183.154 | |
| 770 | 35.15 | -0.339 | 34.815 | 0 | 0 | 40.3 | 0 | 1 | -150 | -184.154 | 1 |
| 771 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -152 | -185.154 | |
| 772 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -153 | -187.154 | |
| 773 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -154 | -188.154 | |
| 774 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -155 | -189.154 | |
| 775 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -152 | -190.154 | |
| 776 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -150 | -187.154 | |
| 777 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -149 | -185.154 | |
| 778 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -184.154 | |
| 779 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -146 | -182.154 | |
| 780 | 35.15 | -0.339 | 34.815 | 0 | 0 | 40.3 | 0 | 0 | -146 | -181.154 | 0 |
| 781 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -146 | -181.154 | |
| 782 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -145 | -181.154 | |
| 783 | 38.55 | -2.77 | 34.815 | 0 | | 40.3 | 0 | | -144 | -180.154 | |
| 784 | 38.55 | -2.08 | 35.784 | 9.69 | | 40.4 | 0 | | -143 | -182.554 | |
| 785 | 38.55 | -1.93 | 36.474 | 6.9 | | 40.4 | 1 | | -142 | -181.554 | |
| 786 | 38.55 | -1.85 | 36.624 | 1.5 | | 40.5 | 0 | | -141 | -180.554 | |
| 787 | 38.55 | -1.81 | 36.704 | 0.8 | | 40.6 | 1 | | -142 | -179.554 | |
| 788 | 38.55 | -1.79 | 36.744 | 0.4 | | 40.7 | 1 | | -142 | -180.554 | |
| 789 | 38.55 | -1.77 | 36.764 | 0.2 | | 40.8 | 1 | | -143 | -180.554 | |
| 790 | 38.55 | -1.76 | 36.784 | 0.2 | 19.69 | 40.9 | 1 | 5 | -143 | -181.554 | 24.69 |
| 791 | 38.55 | -1.75 | 36.794 | 0.1 | | 41 | 1 | | -143 | -181.554 | |
| 792 | 38.55 | -1.75 | 36.804 | 0.1 | | 41.1 | 1 | | -143 | -181.554 | |
| 793 | 38.55 | -1.75 | 36.804 | 0 | | 41.2 | 1 | | -143 | -181.554 | |
| 794 | 38.55 | -1.75 | 36.804 | 0 | | 41.3 | 1 | | -143 | -181.554 | |
| 795 | 38.55 | -1.75 | 36.804 | 0 | | 41.4 | 1 | | -143 | -181.554 | |
| 796 | 41.05 | -3.04 | 36.804 | 0 | | 41.6 | 1 | | -144 | -181.554 | |
| 797 | 41.65 | -2.67 | 38.014 | 12.1 | | 41.7 | 2 | | -140 | -185.054 | |
| 798 | 41.65 | -2.59 | 38.984 | 9.7 | | 41.8 | 1 | | -135 | -181.654 | |

| | | | | | | | | | | |
|------|-------|-------|--------|-------|-------|------|---|------|---------------|-------|
| 994 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | C-119 |
| 995 | 70.36 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 996 | 70.36 | -11.5 | 58.865 | 0.8 | | 52.2 | 0 | -141 | -211.365 | |
| 997 | 70.36 | -11.5 | 58.865 | 0 | | 52.2 | 0 | -141 | -211.365 | |
| 998 | 70.36 | -11.5 | 58.865 | 0 | | 52.2 | 0 | -140 | -211.365 | |
| 999 | 70.54 | -11.5 | 58.865 | 0 | | 52.2 | 0 | -141 | -210.365 | |
| 1000 | 70.54 | -11.5 | 59.043 | 1.78 | 2.58 | 52.2 | 0 | 0 | -141 -211.543 | 2.58 |
| 1001 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1002 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1003 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -211.543 | |
| 1004 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | |
| 1005 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | |
| 1006 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | |
| 1007 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | |
| 1008 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | |
| 1009 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | |
| 1010 | 70.54 | -11.5 | 59.043 | 0 | 0 | 52.2 | 0 | 0 | -141 -212.543 | 0 |
| 1011 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1012 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1013 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1014 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1015 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1016 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | |
| 1017 | 70.75 | -11.7 | 59.043 | 0 | | 52.2 | 0 | -140 | -211.543 | |
| 1018 | 70.75 | -11.6 | 59.046 | 0.032 | | 52.2 | 0 | -141 | -210.746 | |
| 1019 | 70.75 | -11.6 | 59.146 | 1 | | 52.2 | 0 | -141 | -211.746 | |
| 1020 | 70.75 | -11.6 | 59.146 | 0 | 1.032 | 52.2 | 0 | 0 | -140 -211.746 | 1.032 |
| 1021 | 70.75 | -11.6 | 59.146 | 0 | | 52.2 | 0 | -140 | -210.746 | |
| 1022 | 70.75 | -11.6 | 59.146 | 0 | | 52.2 | 0 | -140 | -210.746 | |

end

SCSMatM488 **ET=37.6371 [12.1T,25.5E] Increase= -91.082 [-70.8%]**

| Time [day] | CumP [cm] | sum(vTop) [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc) [L] | Daily T [mm] | 10day T [mm/10d] | sum(vBot) [L] | Cumm Dis [cm] | 10day ET [mm/10d] |
|------------|-----------|---------------|-------------|------------------|------------------|---------------|--------------|------------------|---------------|---------------|-------------------|
| 650 | 33.63 | -0.145 | 33.485 | 0 | 0 | 40.1 | 0 | 0 | -141 | -174.63 | 0 |
| 651 | 33.63 | -0.145 | 33.485 | 0 | | 40.1 | 0 | | -141 | -174.63 | |
| 652 | 33.83 | -0.292 | 33.485 | 0 | | 40.1 | 0 | | -142 | -174.63 | |
| 653 | 33.83 | -0.235 | 33.541 | 0.562 | | 40.1 | 0 | | -143 | -175.833 | |
| 654 | 33.83 | -0.226 | 33.598 | 0.57 | | 40.1 | 0 | | -144 | -176.833 | |
| 655 | 33.83 | -0.221 | 33.607 | 0.09 | | 40.1 | 0 | | -144 | -177.833 | |
| 656 | 33.83 | -0.218 | 33.612 | 0.05 | | 40.1 | 0 | | -145 | -177.833 | |
| 657 | 33.83 | -0.216 | 33.615 | 0.03 | | 40.1 | 0 | | -146 | -178.833 | |
| 658 | 33.83 | -0.214 | 33.617 | 0.02 | | 40.1 | 0 | | -147 | -179.833 | |
| 659 | 33.83 | -0.212 | 33.619 | 0.02 | | 40.1 | 0 | | -147 | -180.833 | |
| 660 | 33.83 | -0.211 | 33.621 | 0.02 | 1.362 | 40.1 | 0 | 0 | -147 | -180.833 | 1.362 |
| 661 | 33.83 | -0.21 | 33.622 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 662 | 33.83 | -0.209 | 33.623 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 663 | 33.83 | -0.208 | 33.624 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 664 | 33.83 | -0.207 | 33.625 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 665 | 33.83 | -0.206 | 33.626 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 666 | 33.83 | -0.205 | 33.627 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 667 | 33.83 | -0.205 | 33.628 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 668 | 33.83 | -0.204 | 33.628 | 0 | | 40.1 | 0 | | -147 | -180.833 | |
| 669 | 33.83 | -0.203 | 33.629 | 0.01 | | 40.1 | 0 | | -147 | -180.833 | |
| 670 | 33.83 | -0.203 | 33.63 | 0.01 | 0.09 | 40.1 | 0 | 0 | -147 | -180.833 | 0.09 |
| 671 | 33.83 | -0.203 | 33.63 | 0 | | 40.1 | 0 | | -147 | -180.833 | |
| 672 | 33.83 | -0.202 | 33.63 | 0 | | 40.1 | 0 | | -146 | -180.833 | |
| 673 | 33.83 | -0.202 | 33.631 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |
| 674 | 33.83 | -0.201 | 33.631 | 0 | | 40.1 | 0 | | -146 | -179.833 | |
| 675 | 33.83 | -0.201 | 33.632 | 0.01 | | 40.1 | 0 | | -146 | -179.833 | |

| | | | | | | | | | | | |
|-----|-------|--------|--------|-------|-------|------|---|------|----------|----------|-------|
| 676 | 33.83 | -0.2 | 33.632 | 0 | | 40.1 | 0 | -146 | -179.833 | C-120 | |
| 677 | 33.83 | -0.2 | 33.633 | 0.01 | | 40.1 | 0 | -146 | -179.833 | | |
| 678 | 33.83 | -0.2 | 33.633 | 0 | | 40.1 | 0 | -145 | -179.833 | | |
| 679 | 33.83 | -0.199 | 33.633 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 680 | 33.83 | -0.199 | 33.634 | 0.01 | 0.04 | 40.1 | 0 | 0 | -145 | -178.833 | 0.04 |
| 681 | 33.83 | -0.199 | 33.634 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 682 | 33.83 | -0.199 | 33.634 | 0 | | 40.1 | 0 | -146 | -178.833 | | |
| 683 | 33.83 | -0.198 | 33.634 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 684 | 33.83 | -0.198 | 33.635 | 0.01 | | 40.1 | 0 | -146 | -179.833 | | |
| 685 | 33.83 | -0.198 | 33.635 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 686 | 33.83 | -0.198 | 33.635 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 687 | 33.83 | -0.197 | 33.635 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 688 | 33.83 | -0.197 | 33.636 | 0.01 | | 40.1 | 0 | -146 | -179.833 | | |
| 689 | 33.83 | -0.197 | 33.636 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 690 | 33.83 | -0.197 | 33.636 | 0 | 0.02 | 40.1 | 0 | 0 | -145 | -179.833 | 0.02 |
| 691 | 33.83 | -0.196 | 33.636 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 692 | 33.83 | -0.196 | 33.637 | 0.01 | | 40.1 | 0 | -145 | -178.833 | | |
| 693 | 33.83 | -0.196 | 33.637 | 0 | | 40.1 | 0 | -146 | -178.833 | | |
| 694 | 33.83 | -0.196 | 33.637 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 695 | 33.83 | -0.196 | 33.637 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 696 | 33.83 | -0.195 | 33.637 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 697 | 33.83 | -0.195 | 33.638 | 0.01 | | 40.1 | 0 | -146 | -179.833 | | |
| 698 | 33.83 | -0.195 | 33.638 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 699 | 33.83 | -0.195 | 33.638 | 0 | | 40.1 | 0 | -146 | -179.833 | | |
| 700 | 33.83 | -0.195 | 33.638 | 0 | 0.02 | 40.1 | 0 | 0 | -146 | -179.833 | 0.02 |
| 701 | 33.83 | -0.195 | 33.638 | 0 | | 40.1 | 0 | -145 | -179.833 | | |
| 702 | 33.83 | -0.194 | 33.638 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 703 | 33.83 | -0.194 | 33.639 | 0.01 | | 40.1 | 0 | -145 | -178.833 | | |
| 704 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 705 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 706 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 707 | 33.83 | -0.194 | 33.639 | 0 | | 40.1 | 0 | -145 | -178.833 | | |
| 708 | 33.83 | -0.193 | 33.639 | 0 | | 40.1 | 0 | -144 | -178.833 | | |
| 709 | 33.83 | -0.193 | 33.64 | 0.01 | | 40.1 | 0 | -144 | -177.833 | | |
| 710 | 33.83 | -0.193 | 33.64 | 0 | 0.02 | 40.1 | 0 | 0 | -144 | -177.833 | 0.02 |
| 711 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 712 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 713 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 714 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 715 | 33.83 | -0.193 | 33.64 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 716 | 33.83 | -0.192 | 33.64 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 717 | 33.83 | -0.192 | 33.641 | 0.01 | | 40.1 | 0 | -144 | -177.833 | | |
| 718 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 719 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 720 | 33.83 | -0.192 | 33.641 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 721 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 722 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 723 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 724 | 33.83 | -0.192 | 33.641 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 725 | 33.83 | -0.191 | 33.641 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 726 | 33.83 | -0.191 | 33.642 | 0.01 | | 40.1 | 0 | -144 | -177.833 | | |
| 727 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 728 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 729 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 730 | 33.83 | -0.191 | 33.642 | 0 | 0.01 | 40.1 | 0 | 0 | -144 | -177.833 | 0.01 |
| 731 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 732 | 33.83 | -0.191 | 33.642 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 733 | 34.44 | -0.52 | 33.642 | 0 | | 40.1 | 0 | -144 | -177.833 | | |
| 734 | 34.54 | -0.406 | 33.922 | 2.806 | | 40.1 | 0 | -144 | -178.442 | | |
| 735 | 34.54 | -0.38 | 34.138 | 2.156 | | 40.1 | 0 | -144 | -178.544 | | |
| 736 | 34.54 | -0.366 | 34.164 | 0.26 | | 40.1 | 0 | -144 | -178.544 | | |
| 737 | 34.54 | -0.356 | 34.178 | 0.14 | | 40.1 | 0 | -144 | -178.544 | | |
| 738 | 34.54 | -0.349 | 34.188 | 0.1 | | 40.1 | 0 | -144 | -178.544 | | |
| 739 | 34.54 | -0.344 | 34.195 | 0.07 | | 40.1 | 0 | -144 | -178.544 | | |
| 740 | 34.54 | -0.339 | 34.2 | 0.05 | 5.582 | 40.1 | 0 | 0 | -144 | -178.544 | 5.582 |

| | | | | | | | | | | | |
|-----|-------|--------|--------|-------|-------|------|---|----|------|----------|-------|
| 741 | 34.54 | -0.335 | 34.205 | 0.05 | | 40.1 | 0 | | -144 | -178.544 | C-121 |
| 742 | 35.13 | -0.471 | 34.209 | 0.04 | | 40.1 | 0 | | -144 | -178.544 | |
| 743 | 35.15 | -0.394 | 34.657 | 4.482 | | 40.1 | 0 | | -144 | -179.128 | |
| 744 | 35.15 | -0.38 | 34.76 | 1.024 | | 40.1 | 0 | | -144 | -179.154 | |
| 745 | 35.15 | -0.371 | 34.774 | 0.14 | | 40.1 | 0 | | -144 | -179.154 | |
| 746 | 35.15 | -0.365 | 34.783 | 0.09 | | 40.1 | 0 | | -146 | -179.154 | |
| 747 | 35.15 | -0.36 | 34.789 | 0.06 | | 40.1 | 0 | | -144 | -181.154 | |
| 748 | 35.15 | -0.356 | 34.794 | 0.05 | | 40.1 | 0 | | -144 | -179.154 | |
| 749 | 35.15 | -0.352 | 34.798 | 0.04 | | 40.1 | 0 | | -145 | -179.154 | |
| 750 | 35.15 | -0.349 | 34.802 | 0.04 | 6.016 | 40.1 | 0 | 0 | -145 | -180.154 | 6.016 |
| 751 | 35.15 | -0.346 | 34.805 | 0.03 | | 40.1 | 0 | | -145 | -180.154 | |
| 752 | 35.15 | -0.344 | 34.808 | 0.03 | | 40.1 | 0 | | -145 | -180.154 | |
| 753 | 35.15 | -0.342 | 34.81 | 0.02 | | 40.1 | 0 | | -144 | -180.154 | |
| 754 | 35.15 | -0.34 | 34.812 | 0.02 | | 40.1 | 0 | | -143 | -179.154 | |
| 755 | 35.15 | -0.34 | 34.814 | 0.02 | | 40.1 | 0 | | -144 | -178.154 | |
| 756 | 35.15 | -0.339 | 34.814 | 0 | | 40.1 | 0 | | -144 | -179.154 | |
| 757 | 35.15 | -0.339 | 34.815 | 0.01 | | 40.2 | 0 | | -145 | -179.154 | |
| 758 | 35.15 | -0.339 | 34.815 | 0 | | 40.2 | 1 | | -146 | -180.154 | |
| 759 | 35.15 | -0.339 | 34.815 | 0 | | 40.2 | 0 | | -146 | -181.154 | |
| 760 | 35.15 | -0.339 | 34.815 | 0 | 0.13 | 40.2 | 0 | 1 | -146 | -181.154 | 1.13 |
| 761 | 35.15 | -0.339 | 34.815 | 0 | | 40.2 | 0 | | -147 | -181.154 | |
| 762 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 763 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 1 | | -147 | -182.154 | |
| 764 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 765 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 766 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 767 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -182.154 | |
| 768 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -148 | -182.154 | |
| 769 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -149 | -183.154 | |
| 770 | 35.15 | -0.339 | 34.815 | 0 | 0 | 40.3 | 0 | 1 | -150 | -184.154 | 1 |
| 771 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -152 | -185.154 | |
| 772 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -153 | -187.154 | |
| 773 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -154 | -188.154 | |
| 774 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -155 | -189.154 | |
| 775 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -152 | -190.154 | |
| 776 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -150 | -187.154 | |
| 777 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -149 | -185.154 | |
| 778 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -147 | -184.154 | |
| 779 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -146 | -182.154 | |
| 780 | 35.15 | -0.339 | 34.815 | 0 | 0 | 40.3 | 0 | 0 | -146 | -181.154 | 0 |
| 781 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -146 | -181.154 | |
| 782 | 35.15 | -0.339 | 34.815 | 0 | | 40.3 | 0 | | -145 | -181.154 | |
| 783 | 38.55 | -2.77 | 34.815 | 0 | | 40.3 | 0 | | -144 | -180.154 | |
| 784 | 38.55 | -2.08 | 35.784 | 9.69 | | 40.4 | 0 | | -143 | -182.554 | |
| 785 | 38.55 | -1.93 | 36.474 | 6.9 | | 40.4 | 1 | | -142 | -181.554 | |
| 786 | 38.55 | -1.85 | 36.624 | 1.5 | | 40.5 | 0 | | -141 | -180.554 | |
| 787 | 38.55 | -1.81 | 36.704 | 0.8 | | 40.6 | 1 | | -142 | -179.554 | |
| 788 | 38.55 | -1.79 | 36.744 | 0.4 | | 40.7 | 1 | | -142 | -180.554 | |
| 789 | 38.55 | -1.77 | 36.764 | 0.2 | | 40.8 | 1 | | -143 | -180.554 | |
| 790 | 38.55 | -1.76 | 36.784 | 0.2 | 19.69 | 40.9 | 1 | 5 | -143 | -181.554 | 24.69 |
| 791 | 38.55 | -1.75 | 36.794 | 0.1 | | 41 | 1 | | -143 | -181.554 | |
| 792 | 38.55 | -1.75 | 36.804 | 0.1 | | 41.1 | 1 | | -143 | -181.554 | |
| 793 | 38.55 | -1.75 | 36.804 | 0 | | 41.2 | 1 | | -143 | -181.554 | |
| 794 | 38.55 | -1.75 | 36.804 | 0 | | 41.3 | 1 | | -143 | -181.554 | |
| 795 | 38.55 | -1.75 | 36.804 | 0 | | 41.4 | 1 | | -143 | -181.554 | |
| 796 | 41.05 | -3.04 | 36.804 | 0 | | 41.6 | 1 | | -144 | -181.554 | |
| 797 | 41.65 | -2.67 | 38.014 | 12.1 | | 41.7 | 2 | | -140 | -185.054 | |
| 798 | 41.65 | -2.59 | 38.984 | 9.7 | | 41.8 | 1 | | -135 | -181.654 | |
| 799 | 41.65 | -2.56 | 39.064 | 0.8 | | 41.9 | 1 | | -133 | -176.654 | |
| 800 | 44.25 | -4.46 | 39.094 | 0.3 | 23.1 | 42 | 1 | 11 | -132 | -174.654 | 34.1 |
| 801 | 44.25 | -3.89 | 39.794 | 7 | | 42.1 | 1 | | -129 | -176.254 | |
| 802 | 44.25 | -3.74 | 40.364 | 5.7 | | 42.4 | 1 | | -119 | -173.254 | |
| 803 | 44.25 | -3.69 | 40.514 | 1.5 | | 42.5 | 3 | | -104 | -163.254 | |
| 804 | 44.25 | -3.67 | 40.564 | 0.5 | | 42.7 | 1 | | -104 | -148.254 | |
| 805 | 44.25 | -3.66 | 40.584 | 0.2 | | 42.9 | 2 | | -109 | -148.254 | |

| | | | | | | | | | | |
|-----|-------|-------|--------|-------|--------|------|---|-------|----------|--------|
| 806 | 44.25 | -3.65 | 40.594 | 0.1 | | 43 | 2 | -100 | -153.254 | C-122 |
| 807 | 44.25 | -3.65 | 40.604 | 0.1 | | 43.2 | 1 | -94 | -144.254 | |
| 808 | 46.25 | -4.84 | 40.604 | 0 | | 43.4 | 2 | -91.5 | -138.254 | |
| 809 | 46.25 | -4.42 | 41.414 | 8.1 | | 43.6 | 2 | -91.4 | -137.754 | |
| 810 | 46.25 | -4.37 | 41.834 | 4.2 | 27.4 | 43.8 | 2 | -92.8 | -137.654 | 44.4 |
| 811 | 46.25 | -4.35 | 41.884 | 0.5 | | 44 | 2 | -95.7 | -139.054 | |
| 812 | 49.25 | -6.09 | 41.904 | 0.2 | | 44.2 | 2 | -97 | -141.954 | |
| 813 | 49.25 | -5.51 | 43.164 | 12.6 | | 44.3 | 2 | -98.6 | -146.254 | |
| 814 | 49.25 | -5.41 | 43.744 | 5.8 | | 44.5 | 1 | -99.4 | -147.854 | |
| 815 | 49.25 | -5.38 | 43.844 | 1 | | 44.7 | 2 | -104 | -148.654 | |
| 816 | 49.25 | -5.37 | 43.874 | 0.3 | | 44.9 | 2 | -109 | -153.254 | |
| 817 | 49.25 | -5.37 | 43.884 | 0.1 | | 45.1 | 2 | -115 | -158.254 | |
| 818 | 49.25 | -5.37 | 43.884 | 0 | | 45.3 | 2 | -120 | -164.254 | |
| 819 | 49.25 | -5.37 | 43.884 | 0 | | 45.4 | 2 | -124 | -169.254 | |
| 820 | 49.25 | -5.37 | 43.884 | 0 | 20.5 | 45.5 | 1 | -127 | -173.254 | 38.5 |
| 821 | 49.25 | -5.37 | 43.884 | 0 | | 45.6 | 1 | -131 | -176.254 | |
| 822 | 49.25 | -5.37 | 43.884 | 0 | | 45.6 | 1 | -134 | -180.254 | |
| 823 | 49.25 | -5.37 | 43.884 | 0 | | 45.6 | 0 | -135 | -183.254 | |
| 824 | 51.65 | -6.85 | 43.884 | 0 | | 45.7 | 0 | -136 | -184.254 | |
| 825 | 52.45 | -6.97 | 44.804 | 9.2 | | 45.8 | 1 | -137 | -187.654 | |
| 826 | 52.45 | -6.67 | 45.484 | 6.8 | | 45.9 | 1 | -136 | -189.454 | |
| 827 | 52.45 | -6.61 | 45.784 | 3 | | 46.1 | 1 | -133 | -188.454 | |
| 828 | 52.45 | -6.59 | 45.844 | 0.6 | | 46.2 | 2 | -132 | -185.454 | |
| 829 | 52.45 | -6.59 | 45.864 | 0.2 | | 46.4 | 1 | -132 | -184.454 | |
| 830 | 52.45 | -6.59 | 45.864 | 0 | 19.8 | 46.6 | 2 | -132 | -184.454 | 29.8 |
| 831 | 52.45 | -6.59 | 45.864 | 0 | | 46.7 | 2 | -134 | -184.454 | |
| 832 | 52.45 | -6.59 | 45.864 | 0 | | 46.8 | 1 | -137 | -186.454 | |
| 833 | 52.45 | -6.59 | 45.864 | 0 | | 46.9 | 1 | -138 | -189.454 | |
| 834 | 52.45 | -6.59 | 45.864 | 0 | | 46.9 | 1 | -139 | -190.454 | |
| 835 | 52.45 | -6.59 | 45.864 | 0 | | 46.9 | 0 | -140 | -191.454 | |
| 836 | 52.61 | -6.59 | 45.864 | 0 | | 46.9 | 0 | -141 | -192.454 | |
| 837 | 52.61 | -6.59 | 46.016 | 1.524 | | 46.9 | 0 | -142 | -193.606 | |
| 838 | 52.61 | -6.59 | 46.016 | 0 | | 46.9 | 0 | -143 | -194.606 | |
| 839 | 52.61 | -6.59 | 46.016 | 0 | | 46.9 | 0 | -144 | -195.606 | |
| 840 | 52.61 | -6.59 | 46.016 | 0 | 1.524 | 47 | 0 | -144 | -196.606 | 6.524 |
| 841 | 52.61 | -6.59 | 46.016 | 0 | | 47 | 1 | -145 | -196.606 | |
| 842 | 52.63 | -6.59 | 46.016 | 0 | | 47 | 0 | -146 | -197.606 | |
| 843 | 52.68 | -6.59 | 46.041 | 0.254 | | 47 | 0 | -146 | -198.631 | |
| 844 | 52.73 | -6.59 | 46.092 | 0.508 | | 47 | 0 | -146 | -198.682 | |
| 845 | 52.73 | -6.59 | 46.143 | 0.508 | | 47 | 0 | -145 | -198.733 | |
| 846 | 52.73 | -6.59 | 46.143 | 0 | | 47 | 0 | -145 | -197.733 | |
| 847 | 53.27 | -6.59 | 46.143 | 0 | | 47 | 0 | -145 | -197.733 | |
| 848 | 53.27 | -6.59 | 46.676 | 5.334 | | 47 | 0 | -145 | -198.266 | |
| 849 | 53.27 | -6.59 | 46.676 | 0 | | 47 | 0 | -145 | -198.266 | |
| 850 | 53.27 | -6.59 | 46.676 | 0 | 6.604 | 47 | 0 | -146 | -198.266 | 7.604 |
| 851 | 53.27 | -6.59 | 46.676 | 0 | | 47 | 0 | -146 | -199.266 | |
| 852 | 53.27 | -6.59 | 46.676 | 0 | | 47 | 0 | -146 | -199.266 | |
| 853 | 53.27 | -6.59 | 46.676 | 0 | | 47 | 0 | -146 | -199.266 | |
| 854 | 53.29 | -6.59 | 46.676 | 0 | | 47 | 0 | -147 | -199.266 | |
| 855 | 53.32 | -6.59 | 46.702 | 0.254 | | 47 | 0 | -147 | -200.292 | |
| 856 | 56.12 | -8.55 | 46.727 | 0.254 | | 47.1 | 0 | -146 | -200.317 | |
| 857 | 56.12 | -8.01 | 47.571 | 8.434 | | 47.3 | 1 | -145 | -202.121 | |
| 858 | 56.12 | -7.92 | 48.111 | 5.4 | | 47.5 | 2 | -143 | -201.121 | |
| 859 | 56.12 | -7.89 | 48.201 | 0.9 | | 47.6 | 2 | -143 | -199.121 | |
| 860 | 56.12 | -7.88 | 48.231 | 0.3 | 15.542 | 47.8 | 1 | -143 | -199.121 | 21.542 |
| 861 | 56.89 | -7.88 | 48.241 | 0.1 | | 48 | 2 | -143 | -199.121 | |
| 862 | 56.89 | -7.88 | 49.011 | 7.7 | | 48.2 | 2 | -144 | -199.891 | |
| 863 | 56.89 | -7.88 | 49.011 | 0 | | 48.3 | 2 | -146 | -200.891 | |
| 864 | 56.89 | -7.88 | 49.011 | 0 | | 48.4 | 1 | -147 | -202.891 | |
| 865 | 56.89 | -7.88 | 49.011 | 0 | | 48.4 | 1 | -148 | -203.891 | |
| 866 | 56.94 | -7.88 | 49.011 | 0 | | 48.4 | 0 | -148 | -204.891 | |
| 867 | 56.94 | -7.88 | 49.061 | 0.508 | | 48.4 | 0 | -149 | -204.941 | |
| 868 | 56.94 | -7.88 | 49.061 | 0 | | 48.4 | 0 | -150 | -205.941 | |
| 869 | 56.97 | -7.88 | 49.061 | 0 | | 48.4 | 0 | -151 | -206.941 | |
| 870 | 56.97 | -7.88 | 49.087 | 0.254 | 8.562 | 48.4 | 0 | -151 | -207.967 | 16.562 |

| | | | | | | | | | | |
|-----|-------|-------|--------|-------|--------|------|---|------|----------|--------|
| 871 | 56.97 | -7.88 | 49.087 | 0 | | 48.4 | 0 | -152 | -207.967 | C-123 |
| 872 | 57.25 | -7.88 | 49.087 | 0 | | 48.4 | 0 | -151 | -208.967 | |
| 873 | 57.32 | -7.88 | 49.366 | 2.794 | | 48.4 | 0 | -148 | -208.246 | |
| 874 | 57.81 | -7.88 | 49.442 | 0.762 | | 48.4 | 0 | -142 | -205.322 | |
| 875 | 58.8 | -8.28 | 49.925 | 4.826 | | 48.5 | 0 | -120 | -199.805 | |
| 876 | 58.8 | -8.15 | 50.516 | 5.906 | | 48.6 | 1 | -119 | -178.796 | |
| 877 | 59.89 | -8.35 | 50.646 | 1.3 | | 48.6 | 1 | -124 | -177.796 | |
| 878 | 59.94 | -8.26 | 51.538 | 8.922 | | 48.7 | 0 | -127 | -183.888 | |
| 879 | 61.99 | -9.75 | 51.679 | 1.408 | | 48.8 | 1 | -127 | -186.939 | |
| 880 | 62.09 | -9.34 | 52.237 | 5.58 | 31.498 | 48.9 | 1 | -119 | -188.987 | 35.498 |
| 881 | 63.13 | -9.88 | 52.748 | 5.116 | | 49.1 | 1 | -113 | -181.088 | |
| 882 | 63.13 | -9.58 | 53.248 | 5 | | 49.3 | 2 | -118 | -176.128 | |
| 883 | 63.15 | -9.54 | 53.548 | 3 | | 49.4 | 2 | -121 | -181.128 | |
| 884 | 63.15 | -9.53 | 53.614 | 0.654 | | 49.6 | 1 | -125 | -184.154 | |
| 885 | 63.15 | -9.53 | 53.624 | 0.1 | | 49.8 | 2 | -127 | -188.154 | |
| 886 | 63.15 | -9.53 | 53.624 | 0 | | 50 | 2 | -129 | -190.154 | |
| 887 | 63.15 | -9.53 | 53.624 | 0 | | 50.1 | 2 | -131 | -192.154 | |
| 888 | 63.74 | -9.53 | 53.624 | 0 | | 50.1 | 1 | -133 | -194.154 | |
| 889 | 63.89 | -9.53 | 54.208 | 5.842 | | 50.1 | 0 | -134 | -196.738 | |
| 890 | 63.89 | -9.53 | 54.36 | 1.524 | 21.236 | 50.1 | 0 | -135 | -197.89 | 34.236 |
| 891 | 63.89 | -9.53 | 54.36 | 0 | | 50.1 | 0 | -137 | -198.89 | |
| 892 | 65.56 | -10.2 | 54.36 | 0 | | 50.2 | 0 | -138 | -200.89 | |
| 893 | 65.56 | -9.97 | 55.36 | 10 | | 50.3 | 1 | -139 | -203.56 | |
| 894 | 65.61 | -9.96 | 55.59 | 2.3 | | 50.4 | 1 | -139 | -204.56 | |
| 895 | 65.61 | -9.96 | 55.651 | 0.608 | | 50.5 | 1 | -140 | -204.611 | |
| 896 | 65.61 | -9.96 | 55.651 | 0 | | 50.6 | 1 | -141 | -205.611 | |
| 897 | 65.66 | -9.96 | 55.651 | 0 | | 50.6 | 1 | -142 | -206.611 | |
| 898 | 65.66 | -9.96 | 55.702 | 0.508 | | 50.6 | 0 | -142 | -207.662 | |
| 899 | 65.66 | -9.96 | 55.702 | 0 | | 50.6 | 0 | -142 | -207.662 | |
| 900 | 65.66 | -9.96 | 55.702 | 0 | 13.416 | 50.6 | 0 | -142 | -207.662 | 18.416 |
| 901 | 65.66 | -9.96 | 55.702 | 0 | | 50.6 | 0 | -143 | -207.662 | |
| 902 | 65.66 | -9.96 | 55.702 | 0 | | 50.6 | 0 | -143 | -208.662 | |
| 903 | 67.8 | -11.6 | 55.702 | 0 | | 50.6 | 0 | -144 | -208.662 | |
| 904 | 67.8 | -11.1 | 56.195 | 4.936 | | 50.9 | 0 | -144 | -211.795 | |
| 905 | 67.8 | -11.1 | 56.695 | 5 | | 51 | 3 | -143 | -211.795 | |
| 906 | 67.8 | -11.1 | 56.695 | 0 | | 51.1 | 1 | -143 | -210.795 | |
| 907 | 67.8 | -11.1 | 56.695 | 0 | | 51.3 | 1 | -144 | -210.795 | |
| 908 | 67.8 | -11.1 | 56.695 | 0 | | 51.4 | 2 | -144 | -211.795 | |
| 909 | 67.8 | -11.1 | 56.695 | 0 | | 51.5 | 1 | -145 | -211.795 | |
| 910 | 67.8 | -11.1 | 56.695 | 0 | 9.936 | 51.6 | 1 | -145 | -212.795 | 18.936 |
| 911 | 67.8 | -11.1 | 56.695 | 0 | | 51.7 | 1 | -145 | -212.795 | |
| 912 | 67.8 | -11.1 | 56.695 | 0 | | 51.7 | 1 | -146 | -212.795 | |
| 913 | 68.38 | -11.2 | 56.695 | 0 | | 51.7 | 0 | -146 | -213.795 | |
| 914 | 68.38 | -11.1 | 57.18 | 4.842 | | 51.8 | 0 | -146 | -214.38 | |
| 915 | 68.38 | -11.1 | 57.28 | 1 | | 51.8 | 1 | -146 | -214.38 | |
| 916 | 68.51 | -11.1 | 57.28 | 0 | | 51.8 | 0 | -146 | -214.38 | |
| 917 | 68.79 | -11.1 | 57.407 | 1.27 | | 51.8 | 0 | -145 | -214.507 | |
| 918 | 69.62 | -11.3 | 57.686 | 2.794 | | 51.8 | 0 | -145 | -213.786 | |
| 919 | 69.62 | -11.3 | 58.324 | 6.382 | | 51.9 | 0 | -144 | -214.624 | |
| 920 | 69.62 | -11.3 | 58.324 | 0 | 16.288 | 51.9 | 1 | -144 | -213.624 | 20.288 |
| 921 | 69.62 | -11.3 | 58.324 | 0 | | 52 | 0 | -144 | -213.624 | |
| 922 | 69.62 | -11.3 | 58.324 | 0 | | 52 | 1 | -144 | -213.624 | |
| 923 | 69.75 | -11.3 | 58.324 | 0 | | 52 | 0 | -145 | -213.624 | |
| 924 | 69.75 | -11.3 | 58.451 | 1.27 | | 52 | 0 | -144 | -214.751 | |
| 925 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -144 | -213.751 | |
| 926 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -144 | -213.751 | |
| 927 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -145 | -213.751 | |
| 928 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -146 | -214.751 | |
| 929 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -146 | -215.751 | |
| 930 | 69.75 | -11.3 | 58.451 | 0 | 1.27 | 52 | 0 | -147 | -215.751 | 2.27 |
| 931 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -147 | -216.751 | |
| 932 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -147 | -216.751 | |
| 933 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -148 | -216.751 | |
| 934 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -148 | -217.751 | |
| 935 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -148 | -217.751 | |

| | | | | | | | | | | |
|------|-------|-------|--------|-------|-------|------|---|------|----------|-------|
| 936 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -149 | -217.751 | C-124 |
| 937 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -149 | -218.751 | |
| 938 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -149 | -218.751 | |
| 939 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -150 | -218.751 | |
| 940 | 69.75 | -11.3 | 58.451 | 0 | 0 | 52 | 0 | -150 | -219.751 | 0 |
| 941 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -150 | -219.751 | |
| 942 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -150 | -219.751 | |
| 943 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -150 | -219.751 | |
| 944 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -150 | -219.751 | |
| 945 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -150 | -219.751 | |
| 946 | 69.75 | -11.3 | 58.451 | 0 | | 52 | 0 | -150 | -219.751 | |
| 947 | 70.28 | -11.7 | 58.451 | 0 | | 52 | 0 | -149 | -219.751 | |
| 948 | 70.28 | -11.6 | 58.585 | 1.334 | | 52.1 | 0 | -148 | -219.285 | |
| 949 | 70.28 | -11.5 | 58.685 | 1 | | 52.1 | 1 | -147 | -218.285 | |
| 950 | 70.28 | -11.5 | 58.785 | 1 | 3.334 | 52.2 | 0 | -146 | -217.285 | 4.334 |
| 951 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 1 | -145 | -216.285 | |
| 952 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -144 | -215.285 | |
| 953 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -144 | -214.285 | |
| 954 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -144 | -214.285 | |
| 955 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -144 | -214.285 | |
| 956 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -144 | -214.285 | |
| 957 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -144 | -214.285 | |
| 958 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -145 | -214.285 | |
| 959 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -145 | -215.285 | |
| 960 | 70.28 | -11.5 | 58.785 | 0 | 0 | 52.2 | 0 | -146 | -215.285 | 1 |
| 961 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -145 | -216.285 | |
| 962 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -145 | -215.285 | |
| 963 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -144 | -215.285 | |
| 964 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -143 | -214.285 | |
| 965 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -213.285 | |
| 966 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 967 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 968 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 969 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -212.285 | |
| 970 | 70.28 | -11.5 | 58.785 | 0 | 0 | 52.2 | 0 | -141 | -211.285 | 0 |
| 971 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 972 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 973 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 974 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 975 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -211.285 | |
| 976 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 977 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 978 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 979 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 980 | 70.28 | -11.5 | 58.785 | 0 | 0 | 52.2 | 0 | -142 | -212.285 | 0 |
| 981 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -212.285 | |
| 982 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 983 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 984 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -211.285 | |
| 985 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 986 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 987 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 988 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 989 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -142 | -212.285 | |
| 990 | 70.28 | -11.5 | 58.785 | 0 | 0 | 52.2 | 0 | -142 | -212.285 | 0 |
| 991 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -212.285 | |
| 992 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 993 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 994 | 70.28 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 995 | 70.36 | -11.5 | 58.785 | 0 | | 52.2 | 0 | -141 | -211.285 | |
| 996 | 70.36 | -11.5 | 58.865 | 0.8 | | 52.2 | 0 | -141 | -211.365 | |
| 997 | 70.36 | -11.5 | 58.865 | 0 | | 52.2 | 0 | -141 | -211.365 | |
| 998 | 70.36 | -11.5 | 58.865 | 0 | | 52.2 | 0 | -140 | -211.365 | |
| 999 | 70.54 | -11.5 | 58.865 | 0 | | 52.2 | 0 | -141 | -210.365 | |
| 1000 | 70.54 | -11.5 | 59.043 | 1.78 | 2.58 | 52.2 | 0 | -141 | -211.543 | 2.58 |

| | | | | | | | | | | | |
|------|-------|-------|--------|-------|-------|------|---|------|----------|----------|-------|
| 1001 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | C-125 | |
| 1002 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | | |
| 1003 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -211.543 | | |
| 1004 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | | |
| 1005 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | | |
| 1006 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | | |
| 1007 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | | |
| 1008 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | | |
| 1009 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -142 | -212.543 | | |
| 1010 | 70.54 | -11.5 | 59.043 | 0 | 0 | 52.2 | 0 | 0 | -141 | -212.543 | 0 |
| 1011 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | | |
| 1012 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | | |
| 1013 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | | |
| 1014 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | | |
| 1015 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | | |
| 1016 | 70.54 | -11.5 | 59.043 | 0 | | 52.2 | 0 | -141 | -211.543 | | |
| 1017 | 70.75 | -11.7 | 59.043 | 0 | | 52.2 | 0 | -140 | -211.543 | | |
| 1018 | 70.75 | -11.6 | 59.046 | 0.032 | | 52.2 | 0 | -141 | -210.746 | | |
| 1019 | 70.75 | -11.6 | 59.146 | 1 | | 52.2 | 0 | -141 | -211.746 | | |
| 1020 | 70.75 | -11.6 | 59.146 | 0 | 1.032 | 52.2 | 0 | 0 | -140 | -211.746 | 1.032 |
| 1021 | 70.75 | -11.6 | 59.146 | 0 | | 52.2 | 0 | -140 | -210.746 | | |
| 1022 | 70.75 | -11.6 | 59.146 | 0 | | 52.2 | 0 | -140 | -210.746 | | |

end

Appendix C.7. South Cottonwood Models Results

C-126

Key:
 CumP = Cumulative Precipitation, sum(vTop) = gross cumulative surface flux, Daily E = daily evaporation,
 10 day E = sum of previous 10 "Daily E" values, sum(vRoot) = cumulative root uptake, Daily T = daily transpiration
 10 day T = sum of previous 10 "Daily T" values, Cumm Dis = cumulative net groundwater discharge,
 10day ET = sum of "10day E" and 10day T" values ***NOTE: OUTPUT RESULTS DAYS 657-1022 = 1999 days 1-365**

| <u>SCWmat</u> | | <u>ET=83.7364 [63T,20.7E], ERROR= -7.675%</u> | | | | | | | | | |
|---------------|----------------|-----------------------------------------------|---------------|-----------------|-----------------|-------------------|----------------|-----------------|------------------|----------------|-----------------|
| <u>Time</u> | <u>CumP(Cr</u> | <u>sum(vTop)</u> | <u>Cumm E</u> | <u>Daily E</u> | <u>10day E</u> | <u>sum(vRoot)</u> | <u>Daily T</u> | <u>10day T</u> | <u>sum(vBot)</u> | <u>Cum Dis</u> | <u>10day ET</u> |
| <u>[day]</u> | <u>[cm]</u> | <u>[L]</u> | <u>[cm]</u> | <u>[mm/day]</u> | <u>[mm/10d]</u> | <u>[L]</u> | <u>[mm]</u> | <u>[mm/10d]</u> | <u>[L]</u> | <u>[cm]</u> | <u>[mm/10d]</u> |
| 1 | 0.6604 | -0.0724 | -0.0724 | -0.724 | | 0.0452 | 0 | | 9.41 | 9.41 | |
| 2 | 0.8636 | 0.48 | 0.588 | 6.604 | | 0.0888 | 0.452 | | 10.2 | 8.7496 | |
| 3 | 0.8636 | 0.76 | 1.3436 | 7.556 | | 0.132 | 0.436 | | 10.2 | 9.3364 | |
| 4 | 0.8636 | 1.01 | 1.6236 | 2.8 | | 0.176 | 0.432 | | 10.4 | 9.3364 | |
| 5 | 0.8636 | 1.33 | 1.8736 | 2.5 | | 0.219 | 0.44 | | 11 | 9.5364 | |
| 6 | 0.8636 | 1.47 | 2.1936 | 3.2 | | 0.304 | 0.43 | | 11.4 | 10.1364 | |
| 7 | 0.8636 | 1.58 | 2.3336 | 1.4 | | 0.388 | 0.85 | | 11.8 | 10.5364 | |
| 8 | 0.8636 | 1.67 | 2.4436 | 1.1 | | 0.473 | 0.84 | | 12.1 | 10.9364 | |
| 9 | 0.8636 | 1.74 | 2.5336 | 0.9 | | 0.556 | 0.85 | | 12.3 | 11.2364 | |
| 10 | 0.8636 | 1.8 | 2.6036 | 0.7 | 26.036 | 0.64 | 0.83 | 5.56 | 12.3 | 11.4364 | 31.596 |
| 11 | 0.8636 | 1.86 | 2.6636 | 0.6 | | 0.725 | 0.84 | | 12.2 | 11.4364 | |
| 12 | 1.5494 | 1.62 | 2.7236 | 0.6 | | 0.809 | 0.85 | | 12.3 | 11.3364 | |
| 13 | 1.5494 | 1.88 | 3.1694 | 4.458 | | 0.893 | 0.84 | | 12.7 | 10.7506 | |
| 14 | 1.5494 | 1.96 | 3.4294 | 2.6 | | 0.976 | 0.84 | | 12.6 | 11.1506 | |
| 15 | 1.5494 | 2.01 | 3.5094 | 0.8 | | 1.06 | 0.83 | | 12.7 | 11.0506 | |
| 16 | 1.5494 | 2.05 | 3.5594 | 0.5 | | 1.14 | 0.84 | | 12.3 | 11.1506 | |
| 17 | 1.5494 | 2.09 | 3.5994 | 0.4 | | 1.23 | 0.8 | | 11.9 | 10.7506 | |
| 18 | 1.5494 | 2.12 | 3.6394 | 0.4 | | 1.32 | 0.9 | | 11.7 | 10.3506 | |
| 19 | 1.5494 | 2.14 | 3.6694 | 0.3 | | 1.4 | 0.9 | | 11.4 | 10.1506 | |
| 20 | 1.5494 | 2.17 | 3.6894 | 0.2 | 10.858 | 1.49 | 0.8 | 8.44 | 11.3 | 9.8506 | 19.298 |
| 21 | 1.5494 | 2.19 | 3.7194 | 0.3 | | 1.57 | 0.9 | | 11.3 | 9.7506 | |
| 22 | 1.5494 | 2.21 | 3.7394 | 0.2 | | 1.66 | 0.8 | | 11.4 | 9.7506 | |
| 23 | 1.5494 | 2.23 | 3.7594 | 0.2 | | 1.75 | 0.9 | | 11.6 | 9.8506 | |
| 24 | 1.5494 | 2.25 | 3.7794 | 0.2 | | 1.85 | 0.9 | | 11.8 | 10.0506 | |
| 25 | 1.5494 | 2.27 | 3.7994 | 0.2 | | 1.94 | 1 | | 11.5 | 10.2506 | |
| 26 | 1.5494 | 2.29 | 3.8194 | 0.2 | | 2.14 | 0.9 | | 11.2 | 9.9506 | |
| 27 | 1.5494 | 2.3 | 3.8394 | 0.2 | | 2.29 | 2 | | 10.8 | 9.6506 | |
| 28 | 1.5494 | 2.31 | 3.8494 | 0.1 | | 2.43 | 1.5 | | 10.5 | 9.2506 | |
| 29 | 1.5494 | 2.33 | 3.8594 | 0.1 | | 2.57 | 1.4 | | 10.5 | 8.9506 | |
| 30 | 1.5494 | 2.34 | 3.8794 | 0.2 | 1.9 | 2.68 | 1.4 | 11.7 | 10.6 | 8.9506 | 13.6 |
| 31 | 1.5494 | 2.35 | 3.8894 | 0.1 | | 2.86 | 1.1 | | 10.7 | 9.0506 | |
| 32 | 1.5494 | 2.36 | 3.8994 | 0.1 | | 3.05 | 1.8 | | 11.2 | 9.1506 | |
| 33 | 1.5494 | 2.37 | 3.9094 | 0.1 | | 3.12 | 1.9 | | 11.8 | 9.6506 | |
| 34 | 1.5494 | 2.38 | 3.9194 | 0.1 | | 3.26 | 0.7 | | 12.3 | 10.2506 | |
| 35 | 1.5494 | 2.39 | 3.9294 | 0.1 | | 3.46 | 1.4 | | 12.6 | 10.7506 | |
| 36 | 1.5494 | 2.39 | 3.9394 | 0.1 | | 3.54 | 2 | | 12.7 | 11.0506 | |
| 37 | 1.5494 | 2.4 | 3.9394 | 0 | | 3.68 | 0.8 | | 12.3 | 11.1506 | |
| 38 | 1.5494 | 2.41 | 3.9494 | 0.1 | | 3.8 | 1.4 | | 11.5 | 10.7506 | |
| 39 | 1.5494 | 2.41 | 3.9594 | 0.1 | | 4.01 | 1.2 | | 10.9 | 9.9506 | |
| 40 | 1.5494 | 2.42 | 3.9594 | 0 | 0.8 | 4.26 | 2.1 | 14.4 | 10.3 | 9.3506 | 15.2 |
| 41 | 1.5494 | 2.42 | 3.9694 | 0.1 | | 4.38 | 2.5 | | 9.65 | 8.7506 | |
| 42 | 1.5494 | 2.43 | 3.9694 | 0 | | 4.62 | 1.2 | | 9.15 | 8.1006 | |
| 43 | 1.5494 | 2.43 | 3.9794 | 0.1 | | 4.89 | 2.4 | | 8.84 | 7.6006 | |
| 44 | 1.5494 | 2.43 | 3.9794 | 0 | | 5.08 | 2.7 | | 8.53 | 7.2906 | |
| 45 | 1.5494 | 2.44 | 3.9794 | 0 | | 5.22 | 1.9 | | 8.31 | 6.9806 | |
| 46 | 1.5494 | 2.44 | 3.9894 | 0.1 | | 5.57 | 1.4 | | 8.11 | 6.7606 | |
| 47 | 1.5494 | 2.45 | 3.9894 | 0 | | 5.84 | 3.5 | | 7.89 | 6.5606 | |
| 48 | 1.5494 | 2.45 | 3.9994 | 0.1 | | 6 | 2.7 | | 7.81 | 6.3406 | |
| 49 | 1.5494 | 2.45 | 3.9994 | 0 | | 6.34 | 1.6 | | 7.49 | 6.2606 | |
| 50 | 1.5494 | 2.45 | 3.9994 | 0 | 0.4 | 6.56 | 3.4 | 23.3 | 7.3 | 5.9406 | 23.7 |
| 51 | 1.5494 | 2.45 | 3.9994 | 0 | | 6.93 | 2.2 | | 6.95 | 5.7506 | |
| 52 | 1.5494 | 2.46 | 3.9994 | 0 | | 7.23 | 3.7 | | 6.57 | 5.4006 | |
| 53 | 1.5494 | 2.46 | 4.0094 | 0.1 | | 7.56 | 3 | | 6.34 | 5.0206 | |

| | | | | | | | | | | | |
|-----|--------|------|--------|-------|-------|------|-----|------|------|---------|--------|
| 54 | 1.5494 | 2.46 | 4.0094 | 0 | | 7.89 | 3.3 | | 6.13 | 4.7906 | |
| 55 | 1.5494 | 2.46 | 4.0094 | 0 | | 8.2 | 3.3 | | 5.91 | 4.5806 | |
| 56 | 1.5494 | 2.46 | 4.0094 | 0 | | 8.57 | 3.1 | | 5.76 | 4.3606 | C-127 |
| 57 | 1.5494 | 2.46 | 4.0094 | 0 | | 8.98 | 3.7 | | 5.6 | 4.2106 | |
| 58 | 1.5494 | 2.46 | 4.0094 | 0 | | 9.25 | 4.1 | | 5.44 | 4.0506 | |
| 59 | 1.5494 | 2.47 | 4.0094 | 0 | | 9.68 | 2.7 | | 5.17 | 3.8906 | |
| 60 | 1.5494 | 2.47 | 4.0194 | 0.1 | 0.2 | 10.1 | 4.3 | 33.4 | 4.96 | 3.6206 | 33.6 |
| 61 | 1.5494 | 2.47 | 4.0194 | 0 | | 10.6 | 4.2 | | 4.94 | 3.4106 | |
| 62 | 1.5494 | 2.47 | 4.0194 | 0 | | 11 | 5 | | 4.9 | 3.3906 | |
| 63 | 1.5494 | 2.47 | 4.0194 | 0 | | 11.4 | 4 | | 4.81 | 3.3506 | |
| 64 | 1.5494 | 2.47 | 4.0194 | 0 | | 11.8 | 4 | | 4.79 | 3.2606 | |
| 65 | 1.5494 | 2.47 | 4.0194 | 0 | | 12.2 | 4 | | 4.88 | 3.2406 | |
| 66 | 1.5494 | 2.47 | 4.0194 | 0 | | 12.6 | 4 | | 4.94 | 3.3306 | |
| 67 | 1.5494 | 2.47 | 4.0194 | 0 | | 13 | 4 | | 4.93 | 3.3906 | |
| 68 | 1.5494 | 2.47 | 4.0194 | 0 | | 13.4 | 4 | | 5.08 | 3.3806 | |
| 69 | 1.5494 | 2.47 | 4.0194 | 0 | | 13.8 | 4 | | 5.26 | 3.5306 | |
| 70 | 1.5494 | 2.47 | 4.0194 | 0 | 0 | 14 | 4 | 41.2 | 5.53 | 3.7106 | 41.2 |
| 71 | 1.5494 | 2.47 | 4.0194 | 0 | | 14.4 | 2 | | 6.44 | 3.9806 | |
| 72 | 1.5494 | 2.47 | 4.0194 | 0 | | 15.2 | 4 | | 6.68 | 4.8906 | |
| 73 | 1.5494 | 2.47 | 4.0194 | 0 | | 15.5 | 8 | | 7.99 | 5.1306 | |
| 74 | 1.5748 | 2.47 | 4.0194 | 0 | | 16 | 3 | | 9.17 | 6.4406 | |
| 75 | 1.5748 | 2.47 | 4.0448 | 0.254 | | 16.2 | 5 | | 9.93 | 7.5952 | |
| 76 | 1.5748 | 2.47 | 4.0448 | 0 | | 16.5 | 2 | | 10.5 | 8.3552 | |
| 77 | 1.5748 | 2.47 | 4.0448 | 0 | | 16.8 | 3 | | 11 | 8.9252 | |
| 78 | 1.5748 | 2.47 | 4.0448 | 0 | | 17.1 | 3 | | 11.4 | 9.4252 | |
| 79 | 1.5748 | 2.47 | 4.0448 | 0 | | 17.6 | 3 | | 11.6 | 9.8252 | |
| 80 | 1.5748 | 2.47 | 4.0448 | 0 | 0.254 | 18.1 | 5 | 38 | 11.4 | 10.0252 | 38.254 |
| 81 | 1.5748 | 2.48 | 4.0448 | 0 | | 18.5 | 5 | | 11 | 9.8252 | |
| 82 | 1.5748 | 2.48 | 4.0548 | 0.1 | | 19 | 4 | | 10.8 | 9.4252 | |
| 83 | 1.5748 | 2.48 | 4.0548 | 0 | | 19.4 | 5 | | 10.7 | 9.2252 | |
| 84 | 1.5748 | 2.48 | 4.0548 | 0 | | 19.7 | 4 | | 10.5 | 9.1252 | |
| 85 | 1.5748 | 2.48 | 4.0548 | 0 | | 20.1 | 3 | | 10.4 | 8.9252 | |
| 86 | 1.5748 | 2.48 | 4.0548 | 0 | | 20.5 | 4 | | 10.2 | 8.8252 | |
| 87 | 1.5748 | 2.48 | 4.0548 | 0 | | 20.9 | 4 | | 10.1 | 8.6252 | |
| 88 | 1.5748 | 2.48 | 4.0548 | 0 | | 21.3 | 4 | | 9.99 | 8.5252 | |
| 89 | 1.5748 | 2.48 | 4.0548 | 0 | | 21.6 | 4 | | 9.9 | 8.4152 | |
| 90 | 1.5748 | 2.48 | 4.0548 | 0 | 0.1 | 22 | 3 | 40 | 9.88 | 8.3252 | 40.1 |
| 91 | 1.5748 | 2.48 | 4.0548 | 0 | | 22.3 | 4 | | 9.99 | 8.3052 | |
| 92 | 1.5748 | 2.48 | 4.0548 | 0 | | 22.6 | 3 | | 10.3 | 8.4152 | |
| 93 | 1.5748 | 2.48 | 4.0548 | 0 | | 22.9 | 3 | | 10.4 | 8.7252 | |
| 94 | 1.6764 | 2.48 | 4.0548 | 0 | | 23.2 | 3 | | 10.5 | 8.8252 | |
| 95 | 1.8034 | 2.48 | 4.1564 | 1.016 | | 23.5 | 3 | | 10.8 | 8.8236 | |
| 96 | 1.8034 | 2.48 | 4.2834 | 1.27 | | 23.8 | 3 | | 10.8 | 8.9966 | |
| 97 | 1.8034 | 2.48 | 4.2834 | 0 | | 24.1 | 3 | | 11.5 | 8.9966 | |
| 98 | 1.8034 | 2.48 | 4.2834 | 0 | | 24.5 | 3 | | 12 | 9.6966 | |
| 99 | 1.8034 | 2.48 | 4.2834 | 0 | | 24.7 | 4 | | 12.5 | 10.1966 | |
| 100 | 1.8034 | 2.48 | 4.2834 | 0 | 2.286 | 25.1 | 2 | 31 | 12.6 | 10.6966 | 33.286 |
| 101 | 1.8034 | 2.48 | 4.2834 | 0 | | 25.4 | 4 | | 12.7 | 10.7966 | |
| 102 | 1.8034 | 2.48 | 4.2834 | 0 | | 25.8 | 3 | | 12.5 | 10.8966 | |
| 103 | 1.8034 | 2.48 | 4.2834 | 0 | | 26.1 | 4 | | 12.5 | 10.6966 | |
| 104 | 1.8034 | 2.48 | 4.2834 | 0 | | 26.4 | 3 | | 12.5 | 10.6966 | |
| 105 | 1.8034 | 2.48 | 4.2834 | 0 | | 26.7 | 3 | | 12.6 | 10.6966 | |
| 106 | 1.8034 | 2.48 | 4.2834 | 0 | | 27.1 | 3 | | 12.9 | 10.7966 | |
| 107 | 1.8034 | 2.48 | 4.2834 | 0 | | 27.5 | 4 | | 13.5 | 11.0966 | |
| 108 | 1.8034 | 2.48 | 4.2834 | 0 | | 27.9 | 4 | | 14.3 | 11.6966 | |
| 109 | 1.8034 | 2.48 | 4.2834 | 0 | | 28.2 | 4 | | 15.6 | 12.4966 | |
| 110 | 1.8034 | 2.48 | 4.2834 | 0 | 0 | 28.5 | 3 | 35 | 17.1 | 13.7966 | 35 |
| 111 | 1.8288 | 2.48 | 4.2834 | 0 | | 28.8 | 3 | | 18.7 | 15.2966 | |
| 112 | 2.0828 | 2.48 | 4.3088 | 0.254 | | 29.2 | 3 | | 20.4 | 16.8712 | |
| 113 | 2.1844 | 2.48 | 4.5628 | 2.54 | | 29.5 | 4 | | 22.1 | 18.3172 | |
| 114 | 2.1844 | 2.48 | 4.6644 | 1.016 | | 29.8 | 3 | | 23.7 | 19.9156 | |
| 115 | 2.1844 | 2.48 | 4.6644 | 0 | | 30.2 | 3 | | 25.1 | 21.5156 | |
| 116 | 2.2352 | 2.48 | 4.6644 | 0 | | 30.5 | 4 | | 26 | 22.9156 | |
| 117 | 2.9972 | 2.48 | 4.7152 | 0.508 | | 31 | 3 | | 26.5 | 23.7648 | |
| 118 | 3.0226 | 2.48 | 5.4772 | 7.62 | | 31.2 | 5 | | 27 | 23.5028 | |

| | | | | | | | | | | | |
|-----|--------|--------|---------|-------|--------|------|---|----|------|---------|--------|
| 119 | 3.0226 | 2.48 | 5.5026 | 0.254 | | 31.8 | 2 | | 27.8 | 23.9774 | |
| 120 | 3.0226 | 2.48 | 5.5026 | 0 | 12.192 | 32.1 | 6 | 36 | 28.6 | 24.7774 | 48.192 |
| 121 | 3.0226 | 2.48 | 5.5026 | 0 | | 32.5 | 3 | | 29.4 | 25.5774 | |
| 122 | 3.0226 | 2.48 | 5.5026 | 0 | | 32.7 | 4 | | 30 | 26.3774 | C-128 |
| 123 | 3.0226 | 2.48 | 5.5026 | 0 | | 32.9 | 2 | | 29.9 | 26.9774 | |
| 124 | 3.0226 | 2.48 | 5.5026 | 0 | | 33.2 | 2 | | 29.1 | 26.8774 | |
| 125 | 8.8138 | -2.69 | 5.5026 | 0 | | 33.5 | 3 | | 28.7 | 26.0774 | |
| 126 | 8.8138 | -1.85 | 6.1238 | 6.212 | | 34.1 | 3 | | 29.1 | 19.8862 | |
| 127 | 8.8138 | -1.31 | 6.9638 | 8.4 | | 34.6 | 6 | | 31.2 | 20.2862 | |
| 128 | 8.8138 | -1.16 | 7.5038 | 5.4 | | 35.1 | 5 | | 32.7 | 22.3862 | |
| 129 | 8.8138 | -1.08 | 7.6538 | 1.5 | | 35.4 | 5 | | 33.6 | 23.8862 | |
| 130 | 8.8138 | -1.02 | 7.7338 | 0.8 | 22.312 | 36 | 3 | 36 | 34.1 | 24.7862 | 58.312 |
| 131 | 8.8138 | -0.988 | 7.7938 | 0.6 | | 36.4 | 6 | | 33.8 | 25.2862 | |
| 132 | 8.8138 | -0.961 | 7.8258 | 0.32 | | 36.8 | 4 | | 33.1 | 24.9862 | |
| 133 | 8.8138 | -0.94 | 7.8528 | 0.27 | | 37.3 | 4 | | 32.5 | 24.2862 | |
| 134 | 8.8138 | -0.924 | 7.8738 | 0.21 | | 37.7 | 5 | | 32 | 23.6862 | |
| 135 | 8.8138 | -0.912 | 7.8898 | 0.16 | | 38.2 | 4 | | 31.6 | 23.1862 | |
| 136 | 8.8138 | -0.902 | 7.9018 | 0.12 | | 38.6 | 5 | | 31 | 22.7862 | |
| 137 | 8.8138 | -0.894 | 7.9118 | 0.1 | | 39.1 | 4 | | 30.5 | 22.1862 | |
| 138 | 8.8138 | -0.888 | 7.9198 | 0.08 | | 39.5 | 5 | | 30 | 21.6862 | |
| 139 | 8.8138 | -0.883 | 7.9258 | 0.06 | | 40 | 4 | | 29.7 | 21.1862 | |
| 140 | 8.8138 | -0.879 | 7.9308 | 0.05 | 1.97 | 40.4 | 5 | 46 | 29.6 | 20.8862 | 47.97 |
| 141 | 8.8138 | -0.875 | 7.9348 | 0.04 | | 40.8 | 4 | | 29.4 | 20.7862 | |
| 142 | 10.82 | -2.38 | 7.9388 | 0.04 | | 41 | 4 | | 29.2 | 20.5862 | |
| 143 | 11.328 | -2.41 | 8.4404 | 5.016 | | 41.4 | 2 | | 29.5 | 18.3796 | |
| 144 | 15.037 | -5.53 | 8.9184 | 4.78 | | 41.8 | 4 | | 29.9 | 18.1716 | |
| 145 | 16.84 | -6.75 | 9.5068 | 5.884 | | 42.2 | 4 | | 30.3 | 14.8632 | |
| 146 | 16.84 | -5.88 | 10.0902 | 5.834 | | 42.8 | 4 | | 30.6 | 13.4598 | |
| 147 | 20.244 | -8.39 | 10.9602 | 8.7 | | 43.3 | 6 | | 30.6 | 13.7598 | |
| 148 | 20.244 | -7.66 | 11.8538 | 8.936 | | 43.8 | 5 | | 30.8 | 10.3562 | |
| 149 | 20.244 | -7.1 | 12.5838 | 7.3 | | 44.2 | 5 | | 31.3 | 10.5562 | |
| 150 | 20.244 | -6.51 | 13.1438 | 5.6 | 52.13 | 44.6 | 4 | 42 | 31.8 | 11.0562 | 94.13 |
| 151 | 20.244 | -6.05 | 13.7338 | 5.9 | | 45.3 | 4 | | 32.5 | 11.5562 | |
| 152 | 20.244 | -5.85 | 14.1938 | 4.6 | | 45.9 | 7 | | 32.7 | 12.2562 | |
| 153 | 20.244 | -5.72 | 14.3938 | 2 | | 46.3 | 6 | | 32.9 | 12.4562 | |
| 154 | 20.244 | -5.63 | 14.5238 | 1.3 | | 46.7 | 4 | | 33.1 | 12.6562 | |
| 155 | 20.244 | -5.55 | 14.6138 | 0.9 | | 47.3 | 4 | | 33.4 | 12.8562 | |
| 156 | 20.244 | -5.49 | 14.6938 | 0.8 | | 47.8 | 6 | | 33.5 | 13.1562 | |
| 157 | 20.244 | -5.45 | 14.7538 | 0.6 | | 48.2 | 5 | | 33.5 | 13.2562 | |
| 158 | 20.498 | -5.41 | 14.7938 | 0.4 | | 48.6 | 4 | | 33.5 | 13.2562 | |
| 159 | 20.549 | -5.38 | 15.0878 | 2.94 | | 49.1 | 4 | | 33.8 | 13.0022 | |
| 160 | 20.549 | -5.35 | 15.1686 | 0.808 | 20.248 | 49.8 | 5 | 49 | 34 | 13.2514 | 69.248 |
| 161 | 20.549 | -5.33 | 15.1986 | 0.3 | | 50.3 | 7 | | 34.2 | 13.4514 | |
| 162 | 20.599 | -5.32 | 15.2186 | 0.2 | | 50.7 | 5 | | 34.6 | 13.6514 | |
| 163 | 20.599 | -5.3 | 15.2794 | 0.608 | | 51.2 | 4 | | 34.9 | 14.0006 | |
| 164 | 20.599 | -5.29 | 15.2994 | 0.2 | | 51.7 | 5 | | 35 | 14.3006 | |
| 165 | 20.599 | -5.28 | 15.3094 | 0.1 | | 52 | 5 | | 35.1 | 14.4006 | |
| 166 | 20.828 | -5.27 | 15.3194 | 0.1 | | 52.5 | 3 | | 35.2 | 14.5006 | |
| 167 | 21.488 | -5.27 | 15.558 | 2.386 | | 52.9 | 5 | | 35.4 | 14.372 | |
| 168 | 21.488 | -5.26 | 16.2184 | 6.604 | | 53.5 | 4 | | 35.7 | 13.9116 | |
| 169 | 21.488 | -5.26 | 16.2284 | 0.1 | | 54.1 | 6 | | 35.8 | 14.2116 | |
| 170 | 21.488 | -5.25 | 16.2284 | 0 | 10.598 | 54.6 | 6 | 50 | 36.1 | 14.3116 | 60.598 |
| 171 | 21.488 | -5.25 | 16.2384 | 0.1 | | 54.9 | 5 | | 36.1 | 14.6116 | |
| 172 | 21.514 | -5.25 | 16.2384 | 0 | | 55.3 | 3 | | 36.1 | 14.6116 | |
| 173 | 21.565 | -5.24 | 16.2638 | 0.254 | | 55.6 | 4 | | 36 | 14.5862 | |
| 174 | 21.565 | -5.24 | 16.3246 | 0.608 | | 56.1 | 3 | | 36.6 | 14.4354 | |
| 175 | 21.565 | -5.24 | 16.3246 | 0 | | 56.6 | 5 | | 37.3 | 15.0354 | |
| 176 | 21.565 | -5.24 | 16.3246 | 0 | | 56.8 | 5 | | 38 | 15.7354 | |
| 177 | 21.565 | -5.24 | 16.3246 | 0 | | 57.2 | 2 | | 38.1 | 16.4354 | |
| 178 | 21.565 | -5.24 | 16.3246 | 0 | | 57.6 | 4 | | 38.1 | 16.5354 | |
| 179 | 21.565 | -5.23 | 16.3246 | 0 | | 57.9 | 4 | | 38.2 | 16.5354 | |
| 180 | 21.565 | -5.23 | 16.3346 | 0.1 | 1.062 | 58.2 | 3 | 38 | 38.2 | 16.6354 | 39.062 |
| 181 | 21.565 | -5.23 | 16.3346 | 0 | | 58.7 | 3 | | 38.2 | 16.6354 | |
| 182 | 21.565 | -5.23 | 16.3346 | 0 | | 59.1 | 5 | | 38.2 | 16.6354 | |
| 183 | 22.428 | -5.62 | 16.3346 | 0 | | 59.3 | 4 | | 38.5 | 16.6354 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|------|---|----|------|---------|--------|
| 184 | 22.809 | -5.5 | 16.8082 | 4.736 | | 59.7 | 2 | | 38.9 | 16.0718 | |
| 185 | 22.987 | -5.42 | 17.3092 | 5.01 | | 60.1 | 4 | | 39.4 | 16.0908 | |
| 186 | 23.165 | -5.39 | 17.567 | 2.578 | | 60.4 | 4 | | 39.6 | 16.413 | |
| 187 | 23.419 | -5.38 | 17.7748 | 2.078 | | 60.6 | 3 | | 39.8 | 16.4352 | |
| 188 | 23.444 | -5.36 | 18.0388 | 2.64 | | 61.2 | 2 | | 40.8 | 16.3812 | C-129 |
| 189 | 23.444 | -5.36 | 18.0842 | 0.454 | | 61.5 | 6 | | 41.4 | 17.3558 | |
| 190 | 23.444 | -5.35 | 18.0842 | 0 | 17.496 | 61.9 | 3 | 36 | 42 | 17.9558 | 53.496 |
| 191 | 23.444 | -5.35 | 18.0942 | 0.1 | | 62.3 | 4 | | 42.4 | 18.5558 | |
| 192 | 23.444 | -5.34 | 18.0942 | 0 | | 62.6 | 4 | | 42.9 | 18.9558 | |
| 193 | 23.495 | -5.34 | 18.1042 | 0.1 | | 62.8 | 3 | | 43.2 | 19.4558 | |
| 194 | 23.495 | -5.34 | 18.155 | 0.508 | | 63.1 | 2 | | 43.2 | 19.705 | |
| 195 | 23.495 | -5.34 | 18.155 | 0 | | 63.5 | 3 | | 42.9 | 19.705 | |
| 196 | 23.495 | -5.33 | 18.155 | 0 | | 63.9 | 4 | | 43.1 | 19.405 | |
| 197 | 23.495 | -5.33 | 18.165 | 0.1 | | 64.2 | 4 | | 43.4 | 19.605 | |
| 198 | 23.495 | -5.33 | 18.165 | 0 | | 64.6 | 3 | | 43.5 | 19.905 | |
| 199 | 23.495 | -5.33 | 18.165 | 0 | | 64.9 | 4 | | 43.8 | 20.005 | |
| 200 | 23.495 | -5.33 | 18.165 | 0 | 0.808 | 65.1 | 3 | 34 | 44.4 | 20.305 | 34.808 |
| 201 | 23.495 | -5.33 | 18.165 | 0 | | 65.4 | 2 | | 44.8 | 20.905 | |
| 202 | 23.495 | -5.33 | 18.165 | 0 | | 65.7 | 3 | | 44.9 | 21.305 | |
| 203 | 23.495 | -5.33 | 18.165 | 0 | | 65.9 | 3 | | 46.1 | 21.405 | |
| 204 | 23.495 | -5.33 | 18.165 | 0 | | 66.3 | 2 | | 48 | 22.605 | |
| 205 | 23.495 | -5.33 | 18.165 | 0 | | 66.5 | 4 | | 49.6 | 24.505 | |
| 206 | 23.495 | -5.33 | 18.165 | 0 | | 66.8 | 2 | | 50.9 | 26.105 | |
| 207 | 23.495 | -5.33 | 18.165 | 0 | | 67 | 3 | | 51.6 | 27.405 | |
| 208 | 23.495 | -5.33 | 18.165 | 0 | | 67.3 | 2 | | 52.1 | 28.105 | |
| 209 | 23.495 | -5.32 | 18.165 | 0 | | 67.5 | 3 | | 53.1 | 28.605 | |
| 210 | 23.495 | -5.32 | 18.175 | 0.1 | 0.1 | 67.8 | 2 | 26 | 53.5 | 29.605 | 26.1 |
| 211 | 23.495 | -5.32 | 18.175 | 0 | | 68 | 3 | | 54 | 30.005 | |
| 212 | 23.495 | -5.32 | 18.175 | 0 | | 68.2 | 2 | | 54.8 | 30.505 | |
| 213 | 23.495 | -5.32 | 18.175 | 0 | | 68.4 | 2 | | 55.6 | 31.305 | |
| 214 | 23.495 | -5.32 | 18.175 | 0 | | 68.7 | 2 | | 56.6 | 32.105 | |
| 215 | 23.495 | -5.32 | 18.175 | 0 | | 68.9 | 3 | | 57.5 | 33.105 | |
| 216 | 23.571 | -5.32 | 18.175 | 0 | | 69 | 2 | | 58.2 | 34.005 | |
| 217 | 24.613 | -6.25 | 18.2512 | 0.762 | | 69.1 | 1 | | 59.2 | 34.6288 | |
| 218 | 24.613 | -5.87 | 18.3626 | 1.114 | | 69.7 | 1 | | 60.5 | 34.5874 | |
| 219 | 24.613 | -5.76 | 18.7426 | 3.8 | | 70 | 6 | | 61.8 | 35.8874 | |
| 220 | 24.613 | -5.71 | 18.8526 | 1.1 | 6.776 | 70.2 | 3 | 25 | 62.9 | 37.1874 | 31.776 |
| 221 | 24.613 | -5.69 | 18.9026 | 0.5 | | 70.4 | 2 | | 63.8 | 38.2874 | |
| 222 | 24.613 | -5.67 | 18.9226 | 0.2 | | 70.6 | 2 | | 64.6 | 39.1874 | |
| 223 | 24.613 | -5.66 | 18.9426 | 0.2 | | 70.7 | 2 | | 65.5 | 39.9874 | |
| 224 | 24.613 | -5.65 | 18.9526 | 0.1 | | 70.8 | 1 | | 66.3 | 40.8874 | |
| 225 | 24.613 | -5.64 | 18.9626 | 0.1 | | 70.8 | 1 | | 67 | 41.6874 | |
| 226 | 24.613 | -5.63 | 18.9726 | 0.1 | | 70.9 | 0 | | 67.6 | 42.3874 | |
| 227 | 24.613 | -5.62 | 18.9826 | 0.1 | | 70.9 | 1 | | 68.4 | 42.9874 | |
| 228 | 24.613 | -5.62 | 18.9926 | 0.1 | | 71 | 0 | | 68.8 | 43.7874 | |
| 229 | 24.613 | -5.61 | 18.9926 | 0 | | 71.1 | 1 | | 70.9 | 44.1874 | |
| 230 | 24.613 | -5.61 | 19.0026 | 0.1 | 1.5 | 71.1 | 1 | 11 | 72 | 46.2874 | 12.5 |
| 231 | 24.613 | -5.61 | 19.0026 | 0 | | 71.2 | 0 | | 72.9 | 47.3874 | |
| 232 | 24.613 | -5.6 | 19.0026 | 0 | | 71.2 | 1 | | 73.8 | 48.2874 | |
| 233 | 24.613 | -5.6 | 19.0126 | 0.1 | | 71.3 | 0 | | 74.7 | 49.1874 | |
| 234 | 24.613 | -5.6 | 19.0126 | 0 | | 71.3 | 1 | | 75.3 | 50.0874 | |
| 235 | 24.613 | -5.6 | 19.0126 | 0 | | 71.3 | 0 | | 75.8 | 50.6874 | |
| 236 | 24.613 | -5.59 | 19.0126 | 0 | | 71.3 | 0 | | 76.1 | 51.1874 | |
| 237 | 24.613 | -5.59 | 19.0226 | 0.1 | | 71.4 | 0 | | 76.2 | 51.4874 | |
| 238 | 24.613 | -5.59 | 19.0226 | 0 | | 71.4 | 1 | | 76.8 | 51.5874 | |
| 239 | 24.613 | -5.59 | 19.0226 | 0 | | 71.4 | 0 | | 77.2 | 52.1874 | |
| 240 | 24.663 | -5.59 | 19.0226 | 0 | 0.2 | 71.4 | 0 | 3 | 77.5 | 52.5874 | 3.2 |
| 241 | 24.663 | -5.59 | 19.0734 | 0.508 | | 71.5 | 0 | | 77.9 | 52.8366 | |
| 242 | 24.663 | -5.58 | 19.0734 | 0 | | 71.5 | 1 | | 78.2 | 53.2366 | |
| 243 | 24.663 | -5.58 | 19.0834 | 0.1 | | 71.5 | 0 | | 78.5 | 53.5366 | |
| 244 | 24.714 | -5.58 | 19.0834 | 0 | | 71.5 | 0 | | 78.4 | 53.8366 | |
| 245 | 24.714 | -5.58 | 19.1342 | 0.508 | | 71.6 | 0 | | 78 | 53.6858 | |
| 246 | 24.714 | -5.58 | 19.1342 | 0 | | 71.6 | 1 | | 78 | 53.2858 | |
| 247 | 24.714 | -5.58 | 19.1342 | 0 | | 71.6 | 0 | | 78.2 | 53.2858 | |
| 248 | 24.714 | -5.58 | 19.1342 | 0 | | 71.7 | 0 | | 78.3 | 53.4858 | |

| | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|------|---|------|---------|-------|
| 249 | 24.714 | -5.58 | 19.1342 | 0 | | 71.7 | 1 | 78.3 | 53.5858 | |
| 250 | 24.714 | -5.57 | 19.1342 | 0 | 1.116 | 71.7 | 0 | 77.8 | 53.5858 | 4.116 |
| 251 | 24.714 | -5.57 | 19.1442 | 0.1 | | 71.7 | 0 | 78.1 | 53.0858 | |
| 252 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 77.9 | 53.3858 | |
| 253 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 77.2 | 53.1858 | |
| 254 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 76.6 | 52.4858 | C-130 |
| 255 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 76.7 | 51.8858 | |
| 256 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 76.4 | 51.9858 | |
| 257 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 76.5 | 51.6858 | |
| 258 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 76.5 | 51.7858 | |
| 259 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 76.3 | 51.7858 | |
| 260 | 24.714 | -5.57 | 19.1442 | 0 | 0.1 | 71.7 | 0 | 76.2 | 51.5858 | 0.1 |
| 261 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 76.5 | 51.4858 | |
| 262 | 24.714 | -5.57 | 19.1442 | 0 | | 71.7 | 0 | 77.3 | 51.7858 | |
| 263 | 24.714 | -5.56 | 19.1442 | 0 | | 71.7 | 0 | 77.8 | 52.5858 | |
| 264 | 24.714 | -5.56 | 19.1542 | 0.1 | | 71.7 | 0 | 77.3 | 53.0858 | |
| 265 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 76.3 | 52.5858 | |
| 266 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 76.7 | 51.5858 | |
| 267 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 77.2 | 51.9858 | |
| 268 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 77.4 | 52.4858 | |
| 269 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 77.3 | 52.6858 | |
| 270 | 24.714 | -5.56 | 19.1542 | 0 | 0.1 | 71.7 | 0 | 76.5 | 52.5858 | 0.1 |
| 271 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 77.3 | 51.7858 | |
| 272 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 77 | 52.5858 | |
| 273 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 76.7 | 52.2858 | |
| 274 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 77.1 | 51.9858 | |
| 275 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 76.7 | 52.3858 | |
| 276 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 76.7 | 51.9858 | |
| 277 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 76.3 | 51.9858 | |
| 278 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 76.1 | 51.5858 | |
| 279 | 24.714 | -5.56 | 19.1542 | 0 | | 71.7 | 0 | 75.5 | 51.3858 | |
| 280 | 24.714 | -5.56 | 19.1542 | 0 | 0 | 71.7 | 0 | 75 | 50.7858 | 0 |
| 281 | 24.714 | -5.55 | 19.1542 | 0 | | 71.7 | 0 | 74.4 | 50.2858 | |
| 282 | 24.714 | -5.55 | 19.1642 | 0.1 | | 71.7 | 0 | 74.1 | 49.6858 | |
| 283 | 24.892 | -5.68 | 19.1642 | 0 | | 71.7 | 0 | 73.3 | 49.3858 | |
| 284 | 24.892 | -5.62 | 19.212 | 0.478 | | 71.7 | 0 | 72.2 | 48.408 | |
| 285 | 24.892 | -5.61 | 19.272 | 0.6 | | 71.7 | 0 | 71.3 | 47.308 | |
| 286 | 25.197 | -5.61 | 19.282 | 0.1 | | 71.7 | 0 | 70.4 | 46.408 | |
| 287 | 25.222 | -5.6 | 19.5868 | 3.048 | | 71.7 | 0 | 69.5 | 45.2032 | |
| 288 | 25.222 | -5.6 | 19.6222 | 0.354 | | 71.7 | 0 | 69.1 | 44.2778 | |
| 289 | 25.222 | -5.59 | 19.6222 | 0 | | 71.7 | 0 | 67.5 | 43.8778 | |
| 290 | 25.222 | -5.59 | 19.6322 | 0.1 | 4.78 | 71.7 | 0 | 66.3 | 42.2778 | 4.78 |
| 291 | 25.222 | -5.59 | 19.6322 | 0 | | 71.7 | 0 | 65.8 | 41.0778 | |
| 292 | 25.222 | -5.59 | 19.6322 | 0 | | 71.7 | 0 | 65.2 | 40.5778 | |
| 293 | 25.222 | -5.58 | 19.6322 | 0 | | 71.7 | 0 | 65 | 39.9778 | |
| 294 | 25.222 | -5.58 | 19.6422 | 0.1 | | 71.7 | 0 | 64.9 | 39.7778 | |
| 295 | 25.222 | -5.58 | 19.6422 | 0 | | 71.7 | 0 | 64.8 | 39.6778 | |
| 296 | 25.222 | -5.58 | 19.6422 | 0 | | 71.7 | 0 | 64.7 | 39.5778 | |
| 297 | 25.222 | -5.58 | 19.6422 | 0 | | 71.7 | 0 | 64.7 | 39.4778 | |
| 298 | 25.222 | -5.58 | 19.6422 | 0 | | 71.7 | 0 | 64.7 | 39.4778 | |
| 299 | 25.222 | -5.57 | 19.6422 | 0 | | 71.7 | 0 | 64.8 | 39.4778 | |
| 300 | 25.222 | -5.57 | 19.6522 | 0.1 | 0.2 | 71.7 | 0 | 65 | 39.5778 | 0.2 |
| 301 | 25.222 | -5.57 | 19.6522 | 0 | | 71.7 | 0 | 65.2 | 39.7778 | |
| 302 | 25.222 | -5.57 | 19.6522 | 0 | | 71.7 | 0 | 65.4 | 39.9778 | |
| 303 | 25.222 | -5.57 | 19.6522 | 0 | | 71.7 | 0 | 65.6 | 40.1778 | |
| 304 | 25.222 | -5.57 | 19.6522 | 0 | | 71.7 | 0 | 65.8 | 40.3778 | |
| 305 | 25.222 | -5.57 | 19.6522 | 0 | | 71.7 | 0 | 65.8 | 40.5778 | |
| 306 | 25.222 | -5.57 | 19.6522 | 0 | | 71.7 | 0 | 65.8 | 40.5778 | |
| 307 | 25.222 | -5.57 | 19.6522 | 0 | | 71.7 | 0 | 65.9 | 40.5778 | |
| 308 | 25.222 | -5.56 | 19.6522 | 0 | | 71.7 | 0 | 66 | 40.6778 | |
| 309 | 25.222 | -5.56 | 19.6622 | 0.1 | | 71.7 | 0 | 66.2 | 40.7778 | |
| 310 | 25.222 | -5.56 | 19.6622 | 0 | 0.1 | 71.7 | 0 | 66.3 | 40.9778 | 0.1 |
| 311 | 25.222 | -5.56 | 19.6622 | 0 | | 71.7 | 0 | 66.5 | 41.0778 | |
| 312 | 25.222 | -5.56 | 19.6622 | 0 | | 71.7 | 0 | 66.6 | 41.2778 | |
| 313 | 25.248 | -5.56 | 19.6622 | 0 | | 71.7 | 0 | 66.8 | 41.3778 | |

| | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|------|------|---------|---------|-------------|
| 314 | 25.248 | -5.56 | 19.6876 | 0.254 | 71.7 | 0 | 66.8 | 41.5524 | | |
| 315 | 25.248 | -5.56 | 19.6876 | 0 | 71.7 | 0 | 66.6 | 41.5524 | | |
| 316 | 25.248 | -5.56 | 19.6876 | 0 | 71.7 | 0 | 66.5 | 41.3524 | | |
| 317 | 25.248 | -5.56 | 19.6876 | 0 | 71.7 | 0 | 66.3 | 41.2524 | | |
| 318 | 25.248 | -5.56 | 19.6876 | 0 | 71.7 | 0 | 66.3 | 41.0524 | | |
| 319 | 25.248 | -5.56 | 19.6876 | 0 | 71.7 | 0 | 66.2 | 41.0524 | | |
| 320 | 25.248 | -5.56 | 19.6876 | 0 | 0.254 | 71.7 | 0 | 66.1 | 40.9524 | 0.254 C-131 |
| 321 | 25.248 | -5.56 | 19.6876 | 0 | 71.7 | 0 | 66 | 40.8524 | | |
| 322 | 25.248 | -5.55 | 19.6876 | 0 | 71.7 | 0 | 65.9 | 40.7524 | | |
| 323 | 25.248 | -5.55 | 19.6976 | 0.1 | 71.7 | 0 | 66 | 40.6524 | | |
| 324 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66 | 40.7524 | | |
| 325 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66 | 40.7524 | | |
| 326 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66 | 40.7524 | | |
| 327 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66 | 40.7524 | | |
| 328 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 65.9 | 40.7524 | | |
| 329 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66 | 40.6524 | | |
| 330 | 25.248 | -5.55 | 19.6976 | 0 | 0.1 | 71.7 | 0 | 66.1 | 40.7524 | 0.1 |
| 331 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.2 | 40.8524 | | |
| 332 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.3 | 40.9524 | | |
| 333 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.5 | 41.0524 | | |
| 334 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.4 | 41.2524 | | |
| 335 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.4 | 41.1524 | | |
| 336 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.4 | 41.1524 | | |
| 337 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 65.7 | 41.1524 | | |
| 338 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.3 | 40.4524 | | |
| 339 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.2 | 41.0524 | | |
| 340 | 25.248 | -5.55 | 19.6976 | 0 | 0 | 71.7 | 0 | 66.2 | 40.9524 | 0 |
| 341 | 25.248 | -5.55 | 19.6976 | 0 | 71.7 | 0 | 66.3 | 40.9524 | | |
| 342 | 25.248 | -5.54 | 19.6976 | 0 | 71.7 | 0 | 66.3 | 41.0524 | | |
| 343 | 25.248 | -5.54 | 19.7076 | 0.1 | 71.7 | 0 | 66.2 | 41.0524 | | |
| 344 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.2 | 40.9524 | | |
| 345 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.2 | 40.9524 | | |
| 346 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.2 | 40.9524 | | |
| 347 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.2 | 40.9524 | | |
| 348 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.2 | 40.9524 | | |
| 349 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.2 | 40.9524 | | |
| 350 | 25.248 | -5.54 | 19.7076 | 0 | 0.1 | 71.7 | 0 | 66.2 | 40.9524 | 0.1 |
| 351 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 65.9 | 40.9524 | | |
| 352 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 65.9 | 40.6524 | | |
| 353 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.2 | 40.6524 | | |
| 354 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 66.7 | 40.9524 | | |
| 355 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67 | 41.4524 | | |
| 356 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.2 | 41.7524 | | |
| 357 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.5 | 41.9524 | | |
| 358 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.7 | 42.2524 | | |
| 359 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.8 | 42.4524 | | |
| 360 | 25.248 | -5.54 | 19.7076 | 0 | 0 | 71.7 | 0 | 67.9 | 42.5524 | 0 |
| 361 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.8 | 42.6524 | | |
| 362 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.9 | 42.5524 | | |
| 363 | 25.248 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.8 | 42.6524 | | |
| 364 | 25.273 | -5.54 | 19.7076 | 0 | 71.7 | 0 | 67.7 | 42.5524 | | |
| 365 | 25.273 | -5.54 | 19.733 | 0.254 | 71.7 | 0 | 67.5 | 42.427 | | |
| 366 | 25.273 | -5.54 | 19.733 | 0 | 71.7 | 0 | 67.4 | 42.227 | | |
| 367 | 25.273 | -5.54 | 19.733 | 0 | 71.7 | 0 | 67.4 | 42.127 | | |
| 368 | 25.933 | -5.92 | 19.733 | 0 | 71.7 | 0 | 67.2 | 42.127 | | |
| 369 | 26.137 | -5.87 | 20.0134 | 2.804 | 71.7 | 0 | 67.4 | 41.2666 | | |
| 370 | 26.137 | -5.75 | 20.2666 | 2.532 | 5.59 | 71.7 | 0 | 67.9 | 41.2634 | 5.59 |
| 371 | 26.137 | -5.71 | 20.3866 | 1.2 | 71.7 | 0 | 68.2 | 41.7634 | | |
| 372 | 26.137 | -5.69 | 20.4266 | 0.4 | 71.7 | 0 | 68.6 | 42.0634 | | |
| 373 | 26.137 | -5.67 | 20.4466 | 0.2 | 71.7 | 0 | 68.8 | 42.4634 | | |
| 374 | 26.137 | -5.66 | 20.4666 | 0.2 | 71.7 | 0 | 69 | 42.6634 | | |
| 375 | 26.137 | -5.65 | 20.4766 | 0.1 | 71.7 | 0 | 68.9 | 42.8634 | | |
| 376 | 26.137 | -5.64 | 20.4866 | 0.1 | 71.7 | 0 | 68.8 | 42.7634 | | |
| 377 | 26.822 | -5.88 | 20.4966 | 0.1 | 71.7 | 0 | 68.8 | 42.6634 | | |
| 378 | 26.822 | -5.74 | 20.9424 | 4.458 | 71.7 | 0 | 69.1 | 41.9776 | | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|------|---|----|------|---------|--------|
| 379 | 26.822 | -5.7 | 21.0824 | 1.4 | | 71.7 | 0 | | 69.1 | 42.2776 | |
| 380 | 26.822 | -5.68 | 21.1224 | 0.4 | 8.558 | 71.7 | 0 | 0 | 69 | 42.2776 | 8.558 |
| 381 | 26.822 | -5.67 | 21.1424 | 0.2 | | 71.7 | 0 | | 68.6 | 42.1776 | |
| 382 | 26.822 | -5.66 | 21.1524 | 0.1 | | 71.7 | 0 | | 68.2 | 41.7776 | |
| 383 | 26.822 | -5.65 | 21.1624 | 0.1 | | 71.7 | 0 | | 67.9 | 41.3776 | |
| 384 | 26.822 | -5.64 | 21.1724 | 0.1 | | 71.7 | 0 | | 67.5 | 41.0776 | |
| 385 | 26.822 | -5.63 | 21.1824 | 0.1 | | 71.7 | 0 | | 67.4 | 40.6776 | |
| 386 | 26.822 | -5.63 | 21.1924 | 0.1 | | 71.7 | 0 | | 67.3 | 40.5776 | C-132 |
| 387 | 26.822 | -5.62 | 21.1924 | 0 | | 71.7 | 0 | | 67.4 | 40.4776 | |
| 388 | 26.822 | -5.62 | 21.2024 | 0.1 | | 71.8 | 0 | | 67.6 | 40.5776 | |
| 389 | 26.822 | -5.61 | 21.2024 | 0 | | 71.8 | 1 | | 67.7 | 40.7776 | |
| 390 | 26.822 | -5.61 | 21.2124 | 0.1 | 0.9 | 71.9 | 0 | 1 | 67.5 | 40.8776 | 1.9 |
| 391 | 26.822 | -5.61 | 21.2124 | 0 | | 72 | 1 | | 67.1 | 40.6776 | |
| 392 | 26.822 | -5.61 | 21.2124 | 0 | | 72.1 | 1 | | 66.7 | 40.2776 | |
| 393 | 26.822 | -5.6 | 21.2124 | 0 | | 72.2 | 1 | | 66.4 | 39.8776 | |
| 394 | 26.822 | -5.6 | 21.2224 | 0.1 | | 72.3 | 1 | | 66.5 | 39.5776 | |
| 395 | 26.822 | -5.6 | 21.2224 | 0 | | 72.4 | 1 | | 66.6 | 39.6776 | |
| 396 | 26.822 | -5.6 | 21.2224 | 0 | | 72.5 | 1 | | 66.7 | 39.7776 | |
| 397 | 26.822 | -5.6 | 21.2224 | 0 | | 72.6 | 1 | | 67.2 | 39.8776 | |
| 398 | 26.822 | -5.6 | 21.2224 | 0 | | 72.7 | 1 | | 67.8 | 40.3776 | |
| 399 | 26.822 | -5.59 | 21.2224 | 0 | | 72.8 | 1 | | 68.2 | 40.9776 | |
| 400 | 26.822 | -5.59 | 21.2324 | 0.1 | 0.2 | 72.9 | 1 | 10 | 68.6 | 41.3776 | 10.2 |
| 401 | 26.822 | -5.59 | 21.2324 | 0 | | 73 | 1 | | 68.7 | 41.7776 | |
| 402 | 26.822 | -5.59 | 21.2324 | 0 | | 73 | 1 | | 68.3 | 41.8776 | |
| 403 | 26.822 | -5.59 | 21.2324 | 0 | | 73.1 | 0 | | 67.4 | 41.4776 | |
| 404 | 26.822 | -5.59 | 21.2324 | 0 | | 73.3 | 1 | | 66.8 | 40.5776 | |
| 405 | 26.822 | -5.59 | 21.2324 | 0 | | 73.4 | 2 | | 66.2 | 39.9776 | |
| 406 | 26.822 | -5.59 | 21.2324 | 0 | | 73.5 | 1 | | 65.6 | 39.3776 | |
| 407 | 26.822 | -5.59 | 21.2324 | 0 | | 73.7 | 1 | | 65.1 | 38.7776 | |
| 408 | 26.822 | -5.59 | 21.2324 | 0 | | 73.9 | 2 | | 64.8 | 38.2776 | |
| 409 | 26.822 | -5.59 | 21.2324 | 0 | | 74 | 2 | | 64.5 | 37.9776 | |
| 410 | 26.822 | -5.58 | 21.2324 | 0 | 0 | 74.1 | 1 | 12 | 64.3 | 37.6776 | 12 |
| 411 | 26.822 | -5.58 | 21.2424 | 0.1 | | 74.3 | 1 | | 64.1 | 37.4776 | |
| 412 | 26.822 | -5.58 | 21.2424 | 0 | | 74.5 | 2 | | 63.8 | 37.2776 | |
| 413 | 26.822 | -5.58 | 21.2424 | 0 | | 74.6 | 2 | | 63.8 | 36.9776 | |
| 414 | 26.822 | -5.58 | 21.2424 | 0 | | 74.8 | 1 | | 63.5 | 36.9776 | |
| 415 | 26.822 | -5.58 | 21.2424 | 0 | | 75 | 2 | | 63.3 | 36.6776 | |
| 416 | 26.822 | -5.58 | 21.2424 | 0 | | 75.2 | 2 | | 62.9 | 36.4776 | |
| 417 | 26.822 | -5.58 | 21.2424 | 0 | | 75.5 | 2 | | 62.5 | 36.0776 | |
| 418 | 26.822 | -5.58 | 21.2424 | 0 | | 75.7 | 3 | | 62.3 | 35.6776 | |
| 419 | 26.822 | -5.58 | 21.2424 | 0 | | 75.9 | 2 | | 62.1 | 35.4776 | |
| 420 | 26.822 | -5.58 | 21.2424 | 0 | 0.1 | 76.1 | 2 | 19 | 61.9 | 35.2776 | 19.1 |
| 421 | 26.822 | -5.58 | 21.2424 | 0 | | 76.4 | 2 | | 61.7 | 35.0776 | |
| 422 | 26.822 | -5.58 | 21.2424 | 0 | | 76.7 | 3 | | 61.6 | 34.8776 | |
| 423 | 26.822 | -5.58 | 21.2424 | 0 | | 76.8 | 3 | | 61.4 | 34.7776 | |
| 424 | 26.822 | -5.58 | 21.2424 | 0 | | 77.1 | 1 | | 61.1 | 34.5776 | |
| 425 | 26.822 | -5.58 | 21.2424 | 0 | | 77.5 | 3 | | 60.9 | 34.2776 | |
| 426 | 26.822 | -5.58 | 21.2424 | 0 | | 77.8 | 4 | | 60.9 | 34.0776 | |
| 427 | 26.822 | -5.58 | 21.2424 | 0 | | 78.1 | 3 | | 60.9 | 34.0776 | |
| 428 | 26.822 | -5.58 | 21.2424 | 0 | | 78.4 | 3 | | 60.8 | 34.0776 | |
| 429 | 26.822 | -5.58 | 21.2424 | 0 | | 78.6 | 3 | | 60.8 | 33.9776 | |
| 430 | 26.822 | -5.58 | 21.2424 | 0 | 0 | 78.9 | 2 | 27 | 60.8 | 33.9776 | 27 |
| 431 | 26.822 | -5.58 | 21.2424 | 0 | | 79.2 | 3 | | 60.9 | 33.9776 | |
| 432 | 26.822 | -5.58 | 21.2424 | 0 | | 79.5 | 3 | | 60.9 | 34.0776 | |
| 433 | 26.822 | -5.58 | 21.2424 | 0 | | 79.8 | 3 | | 61 | 34.0776 | |
| 434 | 26.822 | -5.58 | 21.2424 | 0 | | 80.1 | 3 | | 61.2 | 34.1776 | |
| 435 | 26.822 | -5.58 | 21.2424 | 0 | | 80.3 | 3 | | 61.5 | 34.3776 | |
| 436 | 26.822 | -5.58 | 21.2424 | 0 | | 80.6 | 2 | | 62.4 | 34.6776 | |
| 437 | 26.822 | -5.58 | 21.2424 | 0 | | 81.2 | 3 | | 62.6 | 35.5776 | |
| 438 | 26.822 | -5.58 | 21.2424 | 0 | | 81.5 | 6 | | 64 | 35.7776 | |
| 439 | 26.848 | -5.58 | 21.2424 | 0 | | 81.8 | 3 | | 65.1 | 37.1776 | |
| 440 | 26.848 | -5.58 | 21.2678 | 0.254 | 0.254 | 82 | 3 | 32 | 65.9 | 38.2522 | 32.254 |
| 441 | 26.848 | -5.58 | 21.2678 | 0 | | 82.3 | 2 | | 66.5 | 39.0522 | |
| 442 | 26.848 | -5.58 | 21.2678 | 0 | | 82.5 | 3 | | 67 | 39.6522 | |
| 443 | 26.848 | -5.58 | 21.2678 | 0 | | 82.8 | 2 | | 67.4 | 40.1522 | |

| | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|------|----|------|---------|--------|
| 444 | 26.848 | -5.58 | 21.2678 | 0 | | 83.2 | 3 | 67.6 | 40.5522 | |
| 445 | 26.848 | -5.58 | 21.2678 | 0 | | 83.5 | 4 | 67.4 | 40.7522 | |
| 446 | 26.848 | -5.58 | 21.2678 | 0 | | 83.9 | 3 | 67 | 40.5522 | |
| 447 | 26.848 | -5.58 | 21.2678 | 0 | | 84.3 | 4 | 66.8 | 40.1522 | |
| 448 | 26.848 | -5.58 | 21.2678 | 0 | | 84.6 | 4 | 66.7 | 39.9522 | |
| 449 | 26.848 | -5.58 | 21.2678 | 0 | | 84.9 | 3 | 66.4 | 39.8522 | |
| 450 | 26.848 | -5.58 | 21.2678 | 0 | 0 | 85.2 | 3 | 66.4 | 39.5522 | 31 |
| 451 | 26.848 | -5.58 | 21.2678 | 0 | | 85.6 | 3 | 66.2 | 39.5522 | |
| 452 | 26.848 | -5.58 | 21.2678 | 0 | | 85.9 | 4 | 66.1 | 39.3522 | C-133 |
| 453 | 26.848 | -5.58 | 21.2678 | 0 | | 86.2 | 3 | 66 | 39.2522 | |
| 454 | 26.848 | -5.58 | 21.2678 | 0 | | 86.6 | 3 | 65.9 | 39.1522 | |
| 455 | 26.848 | -5.58 | 21.2678 | 0 | | 86.9 | 4 | 65.8 | 39.0522 | |
| 456 | 26.848 | -5.58 | 21.2678 | 0 | | 87.1 | 3 | 66 | 38.9522 | |
| 457 | 26.848 | -5.58 | 21.2678 | 0 | | 87.4 | 2 | 66.3 | 39.1522 | |
| 458 | 26.848 | -5.58 | 21.2678 | 0 | | 87.7 | 3 | 66.4 | 39.4522 | |
| 459 | 26.949 | -5.58 | 21.2678 | 0 | | 88 | 3 | 66.5 | 39.5522 | |
| 460 | 27.076 | -5.58 | 21.3694 | 1.016 | 1.016 | 88.2 | 3 | 66.8 | 39.5506 | 32.016 |
| 461 | 27.076 | -5.58 | 21.4964 | 1.27 | | 88.5 | 2 | 66.8 | 39.7236 | |
| 462 | 27.076 | -5.58 | 21.4964 | 0 | | 88.8 | 3 | 67.5 | 39.7236 | |
| 463 | 27.076 | -5.58 | 21.4964 | 0 | | 89.1 | 3 | 67.9 | 40.4236 | |
| 464 | 27.076 | -5.58 | 21.4964 | 0 | | 89.3 | 3 | 68.4 | 40.8236 | |
| 465 | 27.076 | -5.58 | 21.4964 | 0 | | 89.6 | 2 | 68.6 | 41.3236 | |
| 466 | 27.076 | -5.58 | 21.4964 | 0 | | 89.9 | 3 | 68.7 | 41.5236 | |
| 467 | 27.076 | -5.58 | 21.4964 | 0 | | 90.3 | 3 | 68.5 | 41.6236 | |
| 468 | 27.076 | -5.58 | 21.4964 | 0 | | 90.5 | 4 | 68.5 | 41.4236 | |
| 469 | 27.076 | -5.58 | 21.4964 | 0 | | 90.8 | 2 | 68.5 | 41.4236 | |
| 470 | 27.076 | -5.58 | 21.4964 | 0 | 1.27 | 91.1 | 3 | 68.6 | 41.4236 | 29.27 |
| 471 | 27.076 | -5.58 | 21.4964 | 0 | | 91.5 | 3 | 68.9 | 41.5236 | |
| 472 | 27.076 | -5.58 | 21.4964 | 0 | | 91.8 | 4 | 69.5 | 41.8236 | |
| 473 | 27.076 | -5.58 | 21.4964 | 0 | | 92.2 | 3 | 70.3 | 42.4236 | |
| 474 | 27.076 | -5.58 | 21.4964 | 0 | | 92.5 | 4 | 71.5 | 43.2236 | |
| 475 | 27.076 | -5.58 | 21.4964 | 0 | | 92.8 | 3 | 73.1 | 44.4236 | |
| 476 | 27.102 | -5.58 | 21.4964 | 0 | | 93.1 | 3 | 74.7 | 46.0236 | |
| 477 | 27.356 | -5.58 | 21.5218 | 0.254 | | 93.4 | 3 | 76.3 | 47.5982 | |
| 478 | 27.457 | -5.58 | 21.7758 | 2.54 | | 93.8 | 3 | 78 | 48.9442 | |
| 479 | 27.457 | -5.58 | 21.8774 | 1.016 | | 94 | 4 | 79.6 | 50.5426 | |
| 480 | 27.457 | -5.58 | 21.8774 | 0 | 3.81 | 94.5 | 2 | 81.1 | 52.1426 | 35.81 |
| 481 | 27.508 | -5.58 | 21.8774 | 0 | | 94.8 | 5 | 82 | 53.6426 | |
| 482 | 28.27 | -5.58 | 21.9282 | 0.508 | | 95.2 | 3 | 82.5 | 54.4918 | |
| 483 | 28.296 | -5.58 | 22.6902 | 7.62 | | 95.4 | 4 | 82.9 | 54.2298 | |
| 484 | 28.296 | -5.58 | 22.7156 | 0.254 | | 95.9 | 2 | 83.8 | 54.6044 | |
| 485 | 28.296 | -5.58 | 22.7156 | 0 | | 96.3 | 5 | 84.6 | 55.5044 | |
| 486 | 28.296 | -5.58 | 22.7156 | 0 | | 96.6 | 4 | 85.4 | 56.3044 | |
| 487 | 28.296 | -5.58 | 22.7156 | 0 | | 96.8 | 3 | 85.9 | 57.1044 | |
| 488 | 28.296 | -5.58 | 22.7156 | 0 | | 97 | 2 | 85.9 | 57.6044 | |
| 489 | 28.296 | -5.58 | 22.7156 | 0 | | 97.4 | 2 | 85.1 | 57.6044 | |
| 490 | 34.087 | -10.8 | 22.7156 | 0 | 8.382 | 97.6 | 4 | 84.6 | 56.8044 | 42.382 |
| 491 | 34.087 | -9.91 | 23.2868 | 5.712 | | 98.2 | 2 | 85.1 | 50.5132 | |
| 492 | 34.087 | -9.37 | 24.1768 | 8.9 | | 98.7 | 6 | 87.1 | 51.0132 | |
| 493 | 34.087 | -9.22 | 24.7168 | 5.4 | | 99.2 | 5 | 88.7 | 53.0132 | |
| 494 | 34.087 | -9.14 | 24.8668 | 1.5 | | 99.5 | 5 | 89.5 | 54.6132 | |
| 495 | 34.087 | -9.09 | 24.9468 | 0.8 | | 100 | 3 | 90.1 | 55.4132 | |
| 496 | 34.087 | -9.05 | 24.9968 | 0.5 | | 100 | 5 | 89.8 | 56.0132 | |
| 497 | 34.087 | -9.02 | 25.0368 | 0.4 | | 101 | 0 | 89.1 | 55.7132 | |
| 498 | 34.087 | -9 | 25.0668 | 0.3 | | 101 | 10 | 88.5 | 55.0132 | |
| 499 | 34.087 | -8.99 | 25.0868 | 0.2 | | 102 | 0 | 88 | 54.4132 | |
| 500 | 34.087 | -8.97 | 25.0968 | 0.1 | 23.812 | 102 | 10 | 87.5 | 53.9132 | 69.812 |
| 501 | 34.087 | -8.96 | 25.1168 | 0.2 | | 103 | 0 | 87 | 53.4132 | |
| 502 | 34.087 | -8.96 | 25.1268 | 0.1 | | 103 | 10 | 86.5 | 52.9132 | |
| 503 | 34.087 | -8.95 | 25.1268 | 0 | | 104 | 0 | 86 | 52.4132 | |
| 504 | 34.087 | -8.95 | 25.1368 | 0.1 | | 104 | 10 | 85.6 | 51.9132 | |
| 505 | 34.087 | -8.94 | 25.1368 | 0 | | 105 | 0 | 85.5 | 51.5132 | |
| 506 | 34.087 | -8.94 | 25.1468 | 0.1 | | 105 | 10 | 85.4 | 51.4132 | |
| 507 | 36.093 | -10.4 | 25.1468 | 0 | | 105 | 0 | 85.2 | 51.3132 | |
| 508 | 36.601 | -10.5 | 25.6934 | 5.466 | | 105 | 0 | 85.5 | 49.1066 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|-----|----|----|------|---------|--------|
| 509 | 40.31 | -13.6 | 26.1014 | 4.08 | | 106 | 0 | | 85.9 | 48.8986 | |
| 510 | 42.113 | -14.8 | 26.7098 | 6.084 | 16.13 | 106 | 10 | 40 | 86.3 | 45.5902 | 56.13 |
| 511 | 42.113 | -13.9 | 27.3132 | 6.034 | | 107 | 0 | | 86.6 | 44.1868 | |
| 512 | 45.517 | -16.4 | 28.2132 | 9 | | 107 | 10 | | 86.6 | 44.4868 | |
| 513 | 45.517 | -15.7 | 29.1168 | 9.036 | | 108 | 0 | | 86.8 | 41.0832 | |
| 514 | 45.517 | -15.2 | 29.8168 | 7 | | 108 | 10 | | 87.2 | 41.2832 | |
| 515 | 45.517 | -14.6 | 30.3168 | 5 | | 109 | 0 | | 87.7 | 41.6832 | |
| 516 | 45.517 | -14.1 | 30.9168 | 6 | | 109 | 10 | | 88.4 | 42.1832 | |
| 517 | 45.517 | -13.9 | 31.4168 | 5 | | 110 | 0 | | 88.6 | 42.8832 | |
| 518 | 45.517 | -13.8 | 31.6168 | 2 | | 110 | 10 | | 88.9 | 43.0832 | C-134 |
| 519 | 45.517 | -13.7 | 31.7168 | 1 | | 111 | 0 | | 89 | 43.3832 | |
| 520 | 45.517 | -13.6 | 31.8168 | 1 | 51.07 | 111 | 10 | 50 | 89.3 | 43.4832 | 101.07 |
| 521 | 45.517 | -13.6 | 31.9168 | 1 | | 112 | 0 | | 89.5 | 43.7832 | |
| 522 | 45.517 | -13.5 | 31.9168 | 0 | | 112 | 10 | | 89.5 | 43.9832 | |
| 523 | 45.771 | -13.5 | 32.0168 | 1 | | 113 | 0 | | 89.5 | 43.9832 | |
| 524 | 45.822 | -13.4 | 32.2708 | 2.54 | | 113 | 10 | | 89.8 | 43.7292 | |
| 525 | 45.822 | -13.4 | 32.4216 | 1.508 | | 114 | 0 | | 89.9 | 43.9784 | |
| 526 | 45.822 | -13.4 | 32.4216 | 0 | | 114 | 10 | | 90.2 | 44.0784 | |
| 527 | 45.872 | -13.4 | 32.4216 | 0 | | 115 | 0 | | 90.6 | 44.3784 | |
| 528 | 45.872 | -13.4 | 32.4724 | 0.508 | | 115 | 10 | | 90.9 | 44.7276 | |
| 529 | 45.872 | -13.4 | 32.4724 | 0 | | 116 | 0 | | 91 | 45.0276 | |
| 530 | 45.872 | -13.3 | 32.4724 | 0 | 6.556 | 116 | 10 | 50 | 91.1 | 45.1276 | 56.556 |
| 531 | 46.101 | -13.3 | 32.5724 | 1 | | 117 | 0 | | 91.2 | 45.2276 | |
| 532 | 46.761 | -13.3 | 32.801 | 2.286 | | 117 | 10 | | 91.3 | 45.099 | |
| 533 | 46.761 | -13.3 | 33.4614 | 6.604 | | 118 | 0 | | 91.6 | 44.5386 | |
| 534 | 46.761 | -13.3 | 33.4614 | 0 | | 118 | 10 | | 91.7 | 44.8386 | |
| 535 | 46.761 | -13.3 | 33.4614 | 0 | | 119 | 0 | | 92 | 44.9386 | |
| 536 | 46.761 | -13.3 | 33.4614 | 0 | | 119 | 10 | | 92 | 45.2386 | |
| 537 | 46.787 | -13.3 | 33.4614 | 0 | | 119 | 0 | | 92 | 45.2386 | |
| 538 | 46.838 | -13.3 | 33.4868 | 0.254 | | 120 | 0 | | 92 | 45.2132 | |
| 539 | 46.838 | -13.3 | 33.5376 | 0.508 | | 120 | 10 | | 92.5 | 45.1624 | |
| 540 | 46.838 | -13.3 | 33.5376 | 0 | 10.652 | 121 | 0 | 40 | 93.2 | 45.6624 | 50.652 |
| 541 | 46.838 | -13.3 | 33.5376 | 0 | | 121 | 10 | | 93.9 | 46.3624 | |
| 542 | 46.838 | -13.3 | 33.5376 | 0 | | 121 | 0 | | 94.4 | 47.0624 | |
| 543 | 46.838 | -13.3 | 33.5376 | 0 | | 122 | 0 | | 95.3 | 47.5624 | |
| 544 | 46.838 | -13.3 | 33.5376 | 0 | | 122 | 10 | | 95.5 | 48.4624 | |
| 545 | 46.838 | -13.3 | 33.5376 | 0 | | 122 | 0 | | 95.7 | 48.6624 | |
| 546 | 46.838 | -13.3 | 33.5376 | 0 | | 123 | 0 | | 95.8 | 48.8624 | |
| 547 | 46.838 | -13.3 | 33.5376 | 0 | | 123 | 10 | | 95.7 | 48.9624 | |
| 548 | 47.701 | -13.7 | 33.5376 | 0 | | 123 | 0 | | 95.8 | 48.8624 | |
| 549 | 48.082 | -13.6 | 34.0012 | 4.636 | | 124 | 0 | | 95.9 | 48.0988 | |
| 550 | 48.26 | -13.5 | 34.4822 | 4.81 | 9.446 | 124 | 10 | 40 | 95.9 | 47.8178 | 49.446 |
| 551 | 48.438 | -13.5 | 34.76 | 2.778 | | 124 | 0 | | 97.8 | 47.64 | |
| 552 | 48.692 | -13.4 | 34.9378 | 1.778 | | 125 | 0 | | 99.2 | 49.3622 | |
| 553 | 48.717 | -13.4 | 35.2918 | 3.54 | | 125 | 10 | | 100 | 50.5082 | |
| 554 | 48.717 | -13.4 | 35.3172 | 0.254 | | 126 | 0 | | 101 | 51.2828 | |
| 555 | 48.717 | -13.4 | 35.3172 | 0 | | 126 | 10 | | 102 | 52.2828 | |
| 556 | 48.717 | -13.4 | 35.3172 | 0 | | 126 | 0 | | 102 | 53.2828 | |
| 557 | 48.717 | -13.4 | 35.3172 | 0 | | 127 | 0 | | 103 | 53.2828 | |
| 558 | 48.768 | -13.4 | 35.3172 | 0 | | 127 | 10 | | 103 | 54.2828 | |
| 559 | 48.768 | -13.4 | 35.368 | 0.508 | | 127 | 0 | | 103 | 54.232 | |
| 560 | 48.768 | -13.4 | 35.368 | 0 | 8.858 | 128 | 0 | 30 | 104 | 54.232 | 38.858 |
| 561 | 48.768 | -13.4 | 35.368 | 0 | | 128 | 10 | | 104 | 55.232 | |
| 562 | 48.768 | -13.4 | 35.368 | 0 | | 128 | 0 | | 105 | 55.232 | |
| 563 | 48.768 | -13.4 | 35.368 | 0 | | 129 | 0 | | 105 | 56.232 | |
| 564 | 48.768 | -13.4 | 35.368 | 0 | | 129 | 10 | | 106 | 56.232 | |
| 565 | 48.768 | -13.4 | 35.368 | 0 | | 129 | 0 | | 106 | 57.232 | |
| 566 | 48.768 | -13.4 | 35.368 | 0 | | 130 | 0 | | 107 | 57.232 | |
| 567 | 48.768 | -13.4 | 35.368 | 0 | | 130 | 10 | | 108 | 58.232 | |
| 568 | 48.768 | -13.4 | 35.368 | 0 | | 130 | 0 | | 109 | 59.232 | |
| 569 | 48.768 | -13.4 | 35.368 | 0 | | 130 | 0 | | 109 | 60.232 | |
| 570 | 48.768 | -13.4 | 35.368 | 0 | 0 | 131 | 0 | 30 | 110 | 60.232 | 30 |
| 571 | 48.768 | -13.4 | 35.368 | 0 | | 131 | 10 | | 110 | 61.232 | |
| 572 | 48.768 | -13.4 | 35.368 | 0 | | 131 | 0 | | 111 | 61.232 | |
| 573 | 48.768 | -13.4 | 35.368 | 0 | | 131 | 0 | | 111 | 62.232 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|-----|----|----|-----|---------|--------|
| 574 | 48.768 | -13.4 | 35.368 | 0 | | 132 | 0 | | 111 | 62.232 | |
| 575 | 48.768 | -13.4 | 35.368 | 0 | | 132 | 10 | | 112 | 62.232 | |
| 576 | 48.768 | -13.4 | 35.368 | 0 | | 132 | 0 | | 112 | 63.232 | |
| 577 | 48.768 | -13.4 | 35.368 | 0 | | 132 | 0 | | 112 | 63.232 | |
| 578 | 48.768 | -13.4 | 35.368 | 0 | | 133 | 0 | | 112 | 63.232 | |
| 579 | 48.768 | -13.4 | 35.368 | 0 | | 133 | 10 | | 113 | 63.232 | |
| 580 | 48.768 | -13.4 | 35.368 | 0 | 0 | 133 | 0 | 30 | 114 | 64.232 | 30 |
| 581 | 48.844 | -13.4 | 35.368 | 0 | | 133 | 0 | | 114 | 65.232 | |
| 582 | 49.886 | -14.3 | 35.4442 | 0.762 | | 133 | 0 | | 115 | 65.1558 | |
| 583 | 49.886 | -13.9 | 35.5856 | 1.414 | | 134 | 0 | | 115 | 65.1144 | |
| 584 | 49.886 | -13.8 | 35.9856 | 4 | | 134 | 10 | | 115 | 65.1144 | C-135 |
| 585 | 49.886 | -13.8 | 36.0856 | 1 | | 134 | 0 | | 116 | 65.1144 | |
| 586 | 49.886 | -13.8 | 36.0856 | 0 | | 135 | 0 | | 117 | 66.1144 | |
| 587 | 49.886 | -13.7 | 36.0856 | 0 | | 135 | 10 | | 117 | 67.1144 | |
| 588 | 49.886 | -13.7 | 36.1856 | 1 | | 135 | 0 | | 118 | 67.1144 | |
| 589 | 49.886 | -13.7 | 36.1856 | 0 | | 135 | 0 | | 119 | 68.1144 | |
| 590 | 49.886 | -13.7 | 36.1856 | 0 | 8.176 | 135 | 0 | 20 | 119 | 69.1144 | 28.176 |
| 591 | 49.886 | -13.7 | 36.1856 | 0 | | 135 | 0 | | 120 | 69.1144 | |
| 592 | 49.886 | -13.7 | 36.1856 | 0 | | 135 | 0 | | 120 | 70.1144 | |
| 593 | 49.886 | -13.7 | 36.1856 | 0 | | 135 | 0 | | 120 | 70.1144 | |
| 594 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 121 | 70.1144 | |
| 595 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 10 | | 121 | 71.1144 | |
| 596 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 122 | 71.1144 | |
| 597 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 122 | 72.1144 | |
| 598 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 122 | 72.1144 | |
| 599 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 122 | 72.1144 | |
| 600 | 49.886 | -13.7 | 36.1856 | 0 | 0 | 136 | 0 | 10 | 121 | 72.1144 | 10 |
| 601 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 121 | 71.1144 | |
| 602 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 121 | 71.1144 | |
| 603 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 122 | 71.1144 | |
| 604 | 49.886 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 122 | 72.1144 | |
| 605 | 49.936 | -13.7 | 36.1856 | 0 | | 136 | 0 | | 122 | 72.1144 | |
| 606 | 49.936 | -13.7 | 36.2364 | 0.508 | | 136 | 0 | | 122 | 72.0636 | |
| 607 | 49.936 | -13.7 | 36.2364 | 0 | | 136 | 0 | | 122 | 72.0636 | |
| 608 | 49.936 | -13.7 | 36.2364 | 0 | | 136 | 0 | | 122 | 72.0636 | |
| 609 | 49.987 | -13.6 | 36.2364 | 0 | | 136 | 0 | | 122 | 72.0636 | |
| 610 | 49.987 | -13.6 | 36.3872 | 1.508 | 2.016 | 136 | 0 | 0 | 122 | 72.0128 | 2.016 |
| 611 | 49.987 | -13.6 | 36.3872 | 0 | | 136 | 0 | | 122 | 72.0128 | |
| 612 | 49.987 | -13.6 | 36.3872 | 0 | | 136 | 0 | | 122 | 72.0128 | |
| 613 | 49.987 | -13.6 | 36.3872 | 0 | | 136 | 0 | | 122 | 72.0128 | |
| 614 | 49.987 | -13.6 | 36.3872 | 0 | | 136 | 0 | | 122 | 72.0128 | |
| 615 | 49.987 | -13.6 | 36.3872 | 0 | | 136 | 0 | | 122 | 72.0128 | |
| 616 | 49.987 | -13.6 | 36.3872 | 0 | | 136 | 0 | | 122 | 72.0128 | |
| 617 | 49.987 | -13.6 | 36.3872 | 0 | | 136 | 0 | | 122 | 72.0128 | |
| 618 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 619 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 10 | | 122 | 72.0128 | |
| 620 | 49.987 | -13.6 | 36.3872 | 0 | 0 | 137 | 0 | 10 | 122 | 72.0128 | 10 |
| 621 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 72.0128 | |
| 622 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 623 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 624 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 625 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 626 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 627 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 628 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 629 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 630 | 49.987 | -13.6 | 36.3872 | 0 | 0 | 137 | 0 | 0 | 123 | 73.0128 | 0 |
| 631 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 632 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 633 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 634 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 635 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 636 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 123 | 73.0128 | |
| 637 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 73.0128 | |
| 638 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|-----|---|---|-----|---------|-------------|
| 639 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 640 | 49.987 | -13.6 | 36.3872 | 0 | 0 | 137 | 0 | 0 | 122 | 72.0128 | 0 |
| 641 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 642 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 643 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 644 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 645 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 646 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 647 | 49.987 | -13.6 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 648 | 50.165 | -13.7 | 36.3872 | 0 | | 137 | 0 | | 122 | 72.0128 | |
| 649 | 50.165 | -13.7 | 36.465 | 0.778 | | 137 | 0 | | 122 | 71.835 | |
| 650 | 50.165 | -13.7 | 36.465 | 0 | 0.778 | 137 | 0 | 0 | 122 | 71.835 | 0.778 C-136 |
| 651 | 50.47 | -13.7 | 36.465 | 0 | | 137 | 0 | | 121 | 71.835 | |
| 652 | 50.495 | -13.7 | 36.7698 | 3.048 | | 137 | 0 | | 121 | 70.5302 | |
| 653 | 50.495 | -13.7 | 36.7952 | 0.254 | | 137 | 0 | | 121 | 70.5048 | |
| 654 | 50.495 | -13.7 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 655 | 50.495 | -13.7 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 656 | 50.495 | -13.7 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 657 | 50.495 | -13.7 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 658 | 50.495 | -13.7 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 659 | 50.495 | -13.7 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 660 | 50.495 | -13.7 | 36.7952 | 0 | 3.302 | 137 | 0 | 0 | 121 | 70.5048 | 3.302 |
| 661 | 50.495 | -13.7 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 662 | 50.495 | -13.6 | 36.7952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 663 | 50.495 | -13.6 | 36.8952 | 1 | | 137 | 0 | | 121 | 70.5048 | |
| 664 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 121 | 70.5048 | |
| 665 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 122 | 70.5048 | |
| 666 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 122 | 71.5048 | |
| 667 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 122 | 71.5048 | |
| 668 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 122 | 71.5048 | |
| 669 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 122 | 71.5048 | |
| 670 | 50.495 | -13.6 | 36.8952 | 0 | 1 | 137 | 0 | 0 | 122 | 71.5048 | 1 |
| 671 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 122 | 71.5048 | |
| 672 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 122 | 71.5048 | |
| 673 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 123 | 71.5048 | |
| 674 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 123 | 72.5048 | |
| 675 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 123 | 72.5048 | |
| 676 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 123 | 72.5048 | |
| 677 | 50.495 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 123 | 72.5048 | |
| 678 | 50.521 | -13.6 | 36.8952 | 0 | | 137 | 0 | | 123 | 72.5048 | |
| 679 | 50.521 | -13.6 | 36.9206 | 0.254 | | 137 | 0 | | 123 | 72.4794 | |
| 680 | 50.521 | -13.6 | 36.9206 | 0 | 0.254 | 137 | 0 | 0 | 123 | 72.4794 | 0.254 |
| 681 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 682 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 683 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 684 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 685 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 686 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 687 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 688 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 689 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 690 | 50.521 | -13.6 | 36.9206 | 0 | 0 | 137 | 0 | 0 | 123 | 72.4794 | 0 |
| 691 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 692 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 693 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 694 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 695 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 696 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 697 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 698 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 699 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 700 | 50.521 | -13.6 | 36.9206 | 0 | 0 | 137 | 0 | 0 | 123 | 72.4794 | 0 |
| 701 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 702 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 122 | 72.4794 | |
| 703 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 71.4794 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|-----|----|-----|---------|---------|-------|
| 704 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | 123 | 72.4794 | | |
| 705 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | 123 | 72.4794 | | |
| 706 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | 123 | 72.4794 | | |
| 707 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | 123 | 72.4794 | | |
| 708 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | 123 | 72.4794 | | |
| 709 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | 123 | 72.4794 | | |
| 710 | 50.521 | -13.6 | 36.9206 | 0 | 0 | 137 | 0 | 0 | 123 | 72.4794 | 0 |
| 711 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 712 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 713 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 714 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 715 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 716 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | C-137 |
| 717 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 122 | 72.4794 | |
| 718 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 71.4794 | |
| 719 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 123 | 72.4794 | |
| 720 | 50.521 | -13.6 | 36.9206 | 0 | 0 | 137 | 0 | 0 | 124 | 72.4794 | 0 |
| 721 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 73.4794 | |
| 722 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 73.4794 | |
| 723 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 73.4794 | |
| 724 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 73.4794 | |
| 725 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 73.4794 | |
| 726 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 73.4794 | |
| 727 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 125 | 73.4794 | |
| 728 | 50.521 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 74.4794 | |
| 729 | 50.546 | -13.6 | 36.9206 | 0 | | 137 | 0 | | 124 | 73.4794 | |
| 730 | 50.546 | -13.6 | 36.946 | 0.254 | 0.254 | 137 | 0 | 0 | 124 | 73.454 | 0.254 |
| 731 | 50.546 | -13.6 | 36.946 | 0 | | 137 | 0 | | 124 | 73.454 | |
| 732 | 50.546 | -13.6 | 36.946 | 0 | | 137 | 0 | | 124 | 73.454 | |
| 733 | 51.206 | -14 | 36.946 | 0 | | 137 | 0 | | 124 | 73.454 | |
| 734 | 51.41 | -13.9 | 37.2064 | 2.604 | | 137 | 0 | | 124 | 72.7936 | |
| 735 | 51.41 | -13.8 | 37.5096 | 3.032 | | 137 | 0 | | 124 | 72.5904 | |
| 736 | 51.41 | -13.8 | 37.6096 | 1 | | 137 | 0 | | 125 | 72.5904 | |
| 737 | 51.41 | -13.8 | 37.6096 | 0 | | 137 | 0 | | 125 | 73.5904 | |
| 738 | 51.41 | -13.8 | 37.6096 | 0 | | 137 | 0 | | 125 | 73.5904 | |
| 739 | 51.41 | -13.7 | 37.6096 | 0 | | 137 | 0 | | 126 | 73.5904 | |
| 740 | 51.41 | -13.7 | 37.7096 | 1 | 7.636 | 137 | 0 | 0 | 125 | 74.5904 | 7.636 |
| 741 | 51.41 | -13.7 | 37.7096 | 0 | | 137 | 0 | | 125 | 73.5904 | |
| 742 | 52.095 | -14 | 37.7096 | 0 | | 137 | 0 | | 125 | 73.5904 | |
| 743 | 52.095 | -13.8 | 38.0954 | 3.858 | | 137 | 0 | | 126 | 72.9046 | |
| 744 | 52.095 | -13.8 | 38.2954 | 2 | | 137 | 0 | | 126 | 73.9046 | |
| 745 | 52.095 | -13.8 | 38.2954 | 0 | | 137 | 0 | | 126 | 73.9046 | |
| 746 | 52.095 | -13.7 | 38.2954 | 0 | | 137 | 0 | | 125 | 73.9046 | |
| 747 | 52.095 | -13.7 | 38.3954 | 1 | | 137 | 0 | | 125 | 72.9046 | |
| 748 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 72.9046 | |
| 749 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 750 | 52.095 | -13.7 | 38.3954 | 0 | 6.858 | 137 | 0 | 0 | 124 | 71.9046 | 6.858 |
| 751 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 752 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 753 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 754 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 755 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 756 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 757 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 123 | 71.9046 | |
| 758 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 123 | 70.9046 | |
| 759 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 123 | 70.9046 | |
| 760 | 52.095 | -13.7 | 38.3954 | 0 | 0 | 137 | 0 | 0 | 123 | 70.9046 | 0 |
| 761 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 123 | 70.9046 | |
| 762 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 70.9046 | |
| 763 | 52.095 | -13.7 | 38.3954 | 0 | | 137 | 0 | | 124 | 71.9046 | |
| 764 | 52.095 | -13.7 | 38.3954 | 0 | | 138 | 0 | | 125 | 71.9046 | |
| 765 | 52.095 | -13.7 | 38.3954 | 0 | | 138 | 10 | | 125 | 72.9046 | |
| 766 | 52.095 | -13.7 | 38.3954 | 0 | | 138 | 0 | | 125 | 72.9046 | |
| 767 | 52.095 | -13.7 | 38.3954 | 0 | | 138 | 0 | | 125 | 72.9046 | |
| 768 | 52.095 | -13.7 | 38.3954 | 0 | | 138 | 0 | | 124 | 72.9046 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|-----|----|----|-----|---------|--------|
| 769 | 52.095 | -13.7 | 38.3954 | 0 | | 138 | 0 | | 123 | 71.9046 | |
| 770 | 52.095 | -13.7 | 38.3954 | 0 | 0 | 138 | 0 | 10 | 123 | 70.9046 | 10 |
| 771 | 52.095 | -13.7 | 38.3954 | 0 | | 138 | 0 | | 122 | 70.9046 | |
| 772 | 53.095 | -14 | 38.3954 | 0 | | 139 | 0 | | 122 | 69.9046 | |
| 773 | 53.095 | -13.9 | 39.0954 | 7 | | 139 | 10 | | 121 | 68.9046 | |
| 774 | 53.095 | -13.8 | 39.1954 | 1 | | 139 | 0 | | 121 | 67.9046 | |
| 775 | 53.095 | -13.8 | 39.2954 | 1 | | 139 | 0 | | 121 | 67.9046 | |
| 776 | 53.095 | -13.8 | 39.2954 | 0 | | 139 | 0 | | 121 | 67.9046 | |
| 777 | 53.095 | -13.8 | 39.2954 | 0 | | 140 | 0 | | 121 | 67.9046 | |
| 778 | 53.095 | -13.8 | 39.2954 | 0 | | 140 | 10 | | 121 | 67.9046 | |
| 779 | 53.095 | -13.8 | 39.2954 | 0 | | 140 | 0 | | 120 | 67.9046 | |
| 780 | 53.095 | -13.8 | 39.2954 | 0 | 9 | 140 | 0 | 20 | 120 | 66.9046 | 29 |
| 781 | 53.095 | -13.8 | 39.2954 | 0 | | 140 | 0 | | 120 | 66.9046 | |
| 782 | 53.095 | -13.8 | 39.2954 | 0 | | 141 | 0 | | 119 | 66.9046 | C-138 |
| 783 | 53.095 | -13.8 | 39.2954 | 0 | | 141 | 10 | | 119 | 65.9046 | |
| 784 | 54.095 | -13.8 | 39.2954 | 0 | | 141 | 0 | | 119 | 65.9046 | |
| 785 | 54.095 | -13.8 | 40.2954 | 10 | | 141 | 0 | | 119 | 64.9046 | |
| 786 | 54.095 | -13.8 | 40.2954 | 0 | | 142 | 0 | | 119 | 64.9046 | |
| 787 | 55.095 | -13.8 | 40.2954 | 0 | | 142 | 10 | | 119 | 64.9046 | |
| 788 | 55.095 | -13.8 | 41.2954 | 10 | | 142 | 0 | | 118 | 63.9046 | |
| 789 | 55.095 | -13.8 | 41.2954 | 0 | | 142 | 0 | | 118 | 62.9046 | |
| 790 | 55.095 | -13.8 | 41.2954 | 0 | 20 | 143 | 0 | 20 | 118 | 62.9046 | 40 |
| 791 | 55.095 | -13.8 | 41.2954 | 0 | | 143 | 10 | | 118 | 62.9046 | |
| 792 | 55.095 | -13.8 | 41.2954 | 0 | | 143 | 0 | | 118 | 62.9046 | |
| 793 | 55.095 | -13.8 | 41.2954 | 0 | | 144 | 0 | | 118 | 62.9046 | |
| 794 | 55.095 | -13.8 | 41.2954 | 0 | | 144 | 10 | | 118 | 62.9046 | |
| 795 | 55.095 | -13.8 | 41.2954 | 0 | | 144 | 0 | | 118 | 62.9046 | |
| 796 | 55.095 | -13.8 | 41.2954 | 0 | | 145 | 0 | | 118 | 62.9046 | |
| 797 | 55.095 | -13.8 | 41.2954 | 0 | | 145 | 10 | | 118 | 62.9046 | |
| 798 | 55.095 | -13.8 | 41.2954 | 0 | | 145 | 0 | | 118 | 62.9046 | |
| 799 | 55.251 | -13.8 | 41.2954 | 0 | | 146 | 0 | | 119 | 62.9046 | |
| 800 | 55.911 | -13.8 | 41.451 | 1.556 | 1.556 | 146 | 10 | 40 | 119 | 63.749 | 41.556 |
| 801 | 55.911 | -13.8 | 42.1114 | 6.604 | | 146 | 0 | | 120 | 63.0886 | |
| 802 | 55.911 | -13.8 | 42.1114 | 0 | | 147 | 0 | | 120 | 64.0886 | |
| 803 | 55.911 | -13.8 | 42.1114 | 0 | | 147 | 10 | | 121 | 64.0886 | |
| 804 | 56.165 | -13.8 | 42.1114 | 0 | | 148 | 0 | | 123 | 65.0886 | |
| 805 | 56.216 | -13.8 | 42.3654 | 2.54 | | 148 | 10 | | 123 | 66.8346 | |
| 806 | 56.978 | -13.8 | 42.4162 | 0.508 | | 148 | 0 | | 124 | 66.7838 | |
| 807 | 56.978 | -13.8 | 43.1782 | 7.62 | | 148 | 0 | | 125 | 67.0218 | |
| 808 | 56.978 | -13.8 | 43.1782 | 0 | | 149 | 0 | | 125 | 68.0218 | |
| 809 | 56.978 | -13.8 | 43.1782 | 0 | | 149 | 10 | | 125 | 68.0218 | |
| 810 | 56.978 | -13.8 | 43.1782 | 0 | 17.272 | 150 | 0 | 30 | 125 | 68.0218 | 47.272 |
| 811 | 56.978 | -13.8 | 43.1782 | 0 | | 150 | 10 | | 125 | 68.0218 | |
| 812 | 56.978 | -13.8 | 43.1782 | 0 | | 150 | 0 | | 125 | 68.0218 | |
| 813 | 56.978 | -13.8 | 43.1782 | 0 | | 151 | 0 | | 124 | 68.0218 | |
| 814 | 56.978 | -13.8 | 43.1782 | 0 | | 151 | 10 | | 124 | 67.0218 | |
| 815 | 56.978 | -13.8 | 43.1782 | 0 | | 151 | 0 | | 124 | 67.0218 | |
| 816 | 56.978 | -13.8 | 43.1782 | 0 | | 152 | 0 | | 124 | 67.0218 | |
| 817 | 56.978 | -13.8 | 43.1782 | 0 | | 152 | 10 | | 124 | 67.0218 | |
| 818 | 56.978 | -13.8 | 43.1782 | 0 | | 152 | 0 | | 124 | 67.0218 | |
| 819 | 56.978 | -13.8 | 43.1782 | 0 | | 153 | 0 | | 124 | 67.0218 | |
| 820 | 56.978 | -13.8 | 43.1782 | 0 | 0 | 153 | 10 | 40 | 124 | 67.0218 | 40 |
| 821 | 56.978 | -13.8 | 43.1782 | 0 | | 153 | 0 | | 124 | 67.0218 | |
| 822 | 56.978 | -13.8 | 43.1782 | 0 | | 154 | 0 | | 124 | 67.0218 | |
| 823 | 56.978 | -13.8 | 43.1782 | 0 | | 154 | 10 | | 124 | 67.0218 | |
| 824 | 57.994 | -13.9 | 43.1782 | 0 | | 154 | 0 | | 125 | 67.0218 | |
| 825 | 58.35 | -13.8 | 44.0942 | 9.16 | | 155 | 0 | | 125 | 67.0058 | |
| 826 | 58.35 | -13.8 | 44.5498 | 4.556 | | 155 | 10 | | 125 | 66.6502 | |
| 827 | 58.35 | -13.8 | 44.5498 | 0 | | 155 | 0 | | 126 | 66.6502 | |
| 828 | 58.35 | -13.8 | 44.5498 | 0 | | 156 | 0 | | 126 | 67.6502 | |
| 829 | 58.35 | -13.8 | 44.5498 | 0 | | 156 | 10 | | 127 | 67.6502 | |
| 830 | 58.35 | -13.8 | 44.5498 | 0 | 13.716 | 156 | 0 | 30 | 127 | 68.6502 | 43.716 |
| 831 | 58.35 | -13.8 | 44.5498 | 0 | | 156 | 0 | | 127 | 68.6502 | |
| 832 | 58.35 | -13.8 | 44.5498 | 0 | | 157 | 0 | | 127 | 68.6502 | |
| 833 | 58.35 | -13.8 | 44.5498 | 0 | | 157 | 10 | | 127 | 68.6502 | |

| | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|-----|----|-----|---------|--------|
| 834 | 58.35 | -13.8 | 44.5498 | 0 | | 157 | 0 | 127 | 68.6502 | |
| 835 | 58.35 | -13.8 | 44.5498 | 0 | | 158 | 0 | 127 | 68.6502 | |
| 836 | 59.874 | -14.2 | 44.5498 | 0 | | 158 | 10 | 127 | 68.6502 | |
| 837 | 59.874 | -14 | 45.6738 | 11.24 | | 158 | 0 | 128 | 67.1262 | |
| 838 | 59.874 | -14 | 45.8738 | 2 | | 159 | 0 | 129 | 68.1262 | |
| 839 | 59.874 | -14 | 45.8738 | 0 | | 159 | 10 | 130 | 69.1262 | |
| 840 | 59.874 | -14 | 45.8738 | 0 | 13.24 | 159 | 0 | 131 | 70.1262 | 43.24 |
| 841 | 59.899 | -13.9 | 45.8738 | 0 | | 160 | 0 | 133 | 71.1262 | |
| 842 | 60.153 | -13.9 | 45.9992 | 1.254 | | 160 | 10 | 135 | 73.1008 | |
| 843 | 60.255 | -13.9 | 46.2532 | 2.54 | | 160 | 0 | 136 | 74.8468 | |
| 844 | 60.255 | -13.9 | 46.3548 | 1.016 | | 161 | 0 | 138 | 75.7452 | |
| 845 | 60.255 | -13.9 | 46.3548 | 0 | | 161 | 10 | 139 | 77.7452 | |
| 846 | 60.306 | -13.9 | 46.3548 | 0 | | 161 | 0 | 140 | 78.7452 | |
| 847 | 61.068 | -13.9 | 46.4056 | 0.508 | | 162 | 0 | 141 | 79.6944 | |
| 848 | 61.093 | -13.9 | 47.1676 | 7.62 | | 162 | 10 | 141 | 79.9324 | C-139 |
| 849 | 61.093 | -13.9 | 47.193 | 0.254 | | 163 | 0 | 142 | 79.907 | |
| 850 | 61.093 | -13.9 | 47.193 | 0 | 13.192 | 163 | 10 | 143 | 80.907 | 53.192 |
| 851 | 61.093 | -13.9 | 47.193 | 0 | | 163 | 0 | 144 | 81.907 | |
| 852 | 61.093 | -13.9 | 47.193 | 0 | | 163 | 0 | 144 | 82.907 | |
| 853 | 61.093 | -13.9 | 47.193 | 0 | | 164 | 0 | 144 | 82.907 | |
| 854 | 61.093 | -13.9 | 47.193 | 0 | | 164 | 10 | 143 | 82.907 | |
| 855 | 65.884 | -18.1 | 47.193 | 0 | | 164 | 0 | 143 | 81.907 | |
| 856 | 65.884 | -17.2 | 47.7842 | 5.912 | | 165 | 0 | 143 | 77.1158 | |
| 857 | 65.884 | -16.8 | 48.6842 | 9 | | 165 | 10 | 145 | 77.1158 | |
| 858 | 65.884 | -16.7 | 49.0842 | 4 | | 166 | 0 | 147 | 79.1158 | |
| 859 | 65.884 | -16.6 | 49.1842 | 1 | | 166 | 10 | 148 | 81.1158 | |
| 860 | 65.884 | -16.6 | 49.2842 | 1 | 20.912 | 167 | 0 | 148 | 82.1158 | 50.912 |
| 861 | 65.884 | -16.5 | 49.2842 | 0 | | 167 | 10 | 148 | 82.1158 | |
| 862 | 65.884 | -16.5 | 49.3842 | 1 | | 167 | 0 | 147 | 82.1158 | |
| 863 | 65.884 | -16.5 | 49.3842 | 0 | | 168 | 0 | 147 | 81.1158 | |
| 864 | 65.884 | -16.5 | 49.3842 | 0 | | 168 | 10 | 146 | 81.1158 | |
| 865 | 65.884 | -16.5 | 49.3842 | 0 | | 169 | 0 | 146 | 80.1158 | |
| 866 | 65.884 | -16.5 | 49.3842 | 0 | | 169 | 10 | 145 | 80.1158 | |
| 867 | 65.884 | -16.5 | 49.3842 | 0 | | 170 | 0 | 145 | 79.1158 | |
| 868 | 65.884 | -16.5 | 49.3842 | 0 | | 170 | 10 | 144 | 79.1158 | |
| 869 | 65.884 | -16.5 | 49.3842 | 0 | | 171 | 0 | 144 | 78.1158 | |
| 870 | 65.884 | -16.5 | 49.3842 | 0 | 1 | 171 | 10 | 144 | 78.1158 | 51 |
| 871 | 65.884 | -16.5 | 49.3842 | 0 | | 171 | 0 | 144 | 78.1158 | |
| 872 | 67.891 | -18 | 49.3842 | 0 | | 172 | 0 | 144 | 78.1158 | |
| 873 | 67.891 | -17.5 | 49.8908 | 5.066 | | 172 | 10 | 144 | 76.1092 | |
| 874 | 71.599 | -20.6 | 50.3908 | 5 | | 172 | 0 | 144 | 76.1092 | |
| 875 | 71.599 | -20 | 50.9992 | 6.084 | | 173 | 0 | 145 | 72.4008 | |
| 876 | 71.599 | -19.4 | 51.5992 | 6 | | 173 | 10 | 145 | 73.4008 | |
| 877 | 71.599 | -19.2 | 52.1992 | 6 | | 174 | 0 | 145 | 73.4008 | |
| 878 | 71.599 | -19.1 | 52.3992 | 2 | | 174 | 10 | 145 | 73.4008 | |
| 879 | 71.599 | -19 | 52.4992 | 1 | | 175 | 0 | 146 | 73.4008 | |
| 880 | 71.599 | -19 | 52.5992 | 1 | 32.15 | 175 | 10 | 146 | 74.4008 | 72.15 |
| 881 | 71.599 | -19 | 52.5992 | 0 | | 176 | 0 | 147 | 74.4008 | |
| 882 | 71.599 | -18.9 | 52.5992 | 0 | | 176 | 10 | 147 | 75.4008 | |
| 883 | 71.599 | -18.9 | 52.6992 | 1 | | 176 | 0 | 147 | 75.4008 | |
| 884 | 71.599 | -18.9 | 52.6992 | 0 | | 177 | 0 | 147 | 75.4008 | |
| 885 | 71.599 | -18.9 | 52.6992 | 0 | | 177 | 10 | 148 | 75.4008 | |
| 886 | 71.599 | -18.9 | 52.6992 | 0 | | 178 | 0 | 148 | 76.4008 | |
| 887 | 71.599 | -18.9 | 52.6992 | 0 | | 178 | 10 | 148 | 76.4008 | |
| 888 | 71.853 | -18.9 | 52.6992 | 0 | | 179 | 0 | 148 | 76.4008 | |
| 889 | 71.904 | -18.9 | 52.9532 | 2.54 | | 179 | 10 | 148 | 76.1468 | |
| 890 | 71.904 | -18.9 | 53.004 | 0.508 | 4.048 | 180 | 0 | 148 | 76.096 | 44.048 |
| 891 | 71.904 | -18.9 | 53.004 | 0 | | 180 | 10 | 149 | 76.096 | |
| 892 | 71.955 | -18.9 | 53.004 | 0 | | 180 | 0 | 149 | 77.096 | |
| 893 | 71.955 | -18.9 | 53.0548 | 0.508 | | 181 | 0 | 149 | 77.0452 | |
| 894 | 71.955 | -18.9 | 53.0548 | 0 | | 181 | 10 | 149 | 77.0452 | |
| 895 | 71.955 | -18.9 | 53.0548 | 0 | | 182 | 0 | 149 | 77.0452 | |
| 896 | 72.183 | -18.9 | 53.0548 | 0 | | 182 | 10 | 150 | 77.0452 | |
| 897 | 72.234 | -18.9 | 53.2834 | 2.286 | | 182 | 0 | 150 | 77.8166 | |
| 898 | 72.234 | -18.8 | 53.3342 | 0.508 | | 183 | 0 | 150 | 77.7658 | |

| | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|-----|----|-----|----------|--------|
| 899 | 72.234 | -18.8 | 53.4342 | 1 | | 183 | 10 | 150 | 77.7658 | |
| 900 | 72.234 | -18.8 | 53.4342 | 0 | 4.302 | 184 | 0 | 150 | 77.7658 | 44.302 |
| 901 | 72.234 | -18.8 | 53.4342 | 0 | | 184 | 10 | 150 | 77.7658 | |
| 902 | 72.26 | -18.8 | 53.4342 | 0 | | 184 | 0 | 150 | 77.7658 | |
| 903 | 73.352 | -19.5 | 53.4596 | 0.254 | | 185 | 0 | 150 | 77.7404 | |
| 904 | 73.352 | -19.1 | 53.8518 | 3.922 | | 185 | 10 | 151 | 76.6482 | |
| 905 | 73.352 | -19.1 | 54.2518 | 4 | | 186 | 0 | 152 | 77.6482 | |
| 906 | 73.352 | -19.1 | 54.2518 | 0 | | 186 | 10 | 152 | 78.6482 | |
| 907 | 73.352 | -19 | 54.2518 | 0 | | 186 | 0 | 152 | 78.6482 | |
| 908 | 73.352 | -19 | 54.3518 | 1 | | 186 | 0 | 152 | 78.6482 | |
| 909 | 73.352 | -19 | 54.3518 | 0 | | 187 | 0 | 152 | 78.6482 | |
| 910 | 73.352 | -19 | 54.3518 | 0 | 9.176 | 187 | 10 | 152 | 78.6482 | 49.176 |
| 911 | 73.352 | -19 | 54.3518 | 0 | | 187 | 0 | 153 | 78.6482 | |
| 912 | 73.352 | -19 | 54.3518 | 0 | | 188 | 0 | 153 | 79.6482 | |
| 913 | 74.215 | -19.4 | 54.3518 | 0 | | 188 | 10 | 153 | 79.6482 | |
| 914 | 74.596 | -19.3 | 54.8154 | 4.636 | | 188 | 0 | 153 | 78.7846 | C-140 |
| 915 | 74.774 | -19.2 | 55.2964 | 4.81 | | 189 | 0 | 154 | 78.4036 | |
| 916 | 74.952 | -19.1 | 55.5742 | 2.778 | | 189 | 10 | 154 | 79.2258 | |
| 917 | 74.952 | -19.1 | 55.852 | 2.778 | | 189 | 0 | 154 | 79.048 | |
| 918 | 74.977 | -19.1 | 55.852 | 0 | | 190 | 0 | 155 | 79.048 | |
| 919 | 74.977 | -19.1 | 55.8774 | 0.254 | | 190 | 10 | 156 | 80.0226 | |
| 920 | 74.977 | -19.1 | 55.8774 | 0 | 15.256 | 190 | 0 | 156 | 81.0226 | 45.256 |
| 921 | 74.977 | -19.1 | 55.8774 | 0 | | 191 | 0 | 157 | 81.0226 | |
| 922 | 74.977 | -19.1 | 55.8774 | 0 | | 191 | 10 | 157 | 82.0226 | |
| 923 | 75.028 | -19.1 | 55.8774 | 0 | | 191 | 0 | 158 | 82.0226 | |
| 924 | 75.028 | -19.1 | 55.9282 | 0.508 | | 192 | 0 | 157 | 82.9718 | |
| 925 | 75.028 | -19.1 | 55.9282 | 0 | | 192 | 10 | 157 | 81.9718 | |
| 926 | 75.028 | -19.1 | 55.9282 | 0 | | 192 | 0 | 157 | 81.9718 | |
| 927 | 75.028 | -19.1 | 55.9282 | 0 | | 193 | 0 | 158 | 81.9718 | |
| 928 | 75.028 | -19.1 | 55.9282 | 0 | | 193 | 10 | 158 | 82.9718 | |
| 929 | 75.028 | -19.1 | 55.9282 | 0 | | 193 | 0 | 158 | 82.9718 | |
| 930 | 75.028 | -19.1 | 55.9282 | 0 | 0.508 | 193 | 0 | 159 | 82.9718 | 30.508 |
| 931 | 75.028 | -19.1 | 55.9282 | 0 | | 194 | 0 | 159 | 83.9718 | |
| 932 | 75.028 | -19.1 | 55.9282 | 0 | | 194 | 10 | 159 | 83.9718 | |
| 933 | 75.028 | -19.1 | 55.9282 | 0 | | 194 | 0 | 160 | 83.9718 | |
| 934 | 75.028 | -19.1 | 55.9282 | 0 | | 195 | 0 | 162 | 84.9718 | |
| 935 | 75.028 | -19.1 | 55.9282 | 0 | | 195 | 10 | 164 | 86.9718 | |
| 936 | 75.028 | -19.1 | 55.9282 | 0 | | 195 | 0 | 165 | 88.9718 | |
| 937 | 75.028 | -19.1 | 55.9282 | 0 | | 195 | 0 | 166 | 89.9718 | |
| 938 | 75.028 | -19.1 | 55.9282 | 0 | | 195 | 0 | 166 | 90.9718 | |
| 939 | 75.028 | -19.1 | 55.9282 | 0 | | 196 | 0 | 167 | 90.9718 | |
| 940 | 75.028 | -19.1 | 55.9282 | 0 | 0 | 196 | 10 | 168 | 91.9718 | 30 |
| 941 | 75.028 | -19.1 | 55.9282 | 0 | | 196 | 0 | 168 | 92.9718 | |
| 942 | 75.028 | -19.1 | 55.9282 | 0 | | 196 | 0 | 169 | 92.9718 | |
| 943 | 75.028 | -19.1 | 55.9282 | 0 | | 197 | 0 | 170 | 93.9718 | |
| 944 | 75.028 | -19.1 | 55.9282 | 0 | | 197 | 10 | 171 | 94.9718 | |
| 945 | 75.028 | -19.1 | 55.9282 | 0 | | 197 | 0 | 172 | 95.9718 | |
| 946 | 75.104 | -19.1 | 55.9282 | 0 | | 197 | 0 | 173 | 96.9718 | |
| 947 | 76.146 | -20 | 56.0044 | 0.762 | | 197 | 0 | 173 | 97.8956 | |
| 948 | 76.146 | -19.6 | 56.1458 | 1.414 | | 198 | 0 | 175 | 96.8542 | |
| 949 | 76.146 | -19.5 | 56.5458 | 4 | | 198 | 10 | 176 | 98.8542 | |
| 950 | 76.146 | -19.5 | 56.6458 | 1 | 7.176 | 198 | 0 | 177 | 99.8542 | 27.176 |
| 951 | 76.146 | -19.4 | 56.6458 | 0 | | 199 | 0 | 178 | 100.8542 | |
| 952 | 76.146 | -19.4 | 56.7458 | 1 | | 199 | 10 | 179 | 101.8542 | |
| 953 | 76.146 | -19.4 | 56.7458 | 0 | | 199 | 0 | 180 | 102.8542 | |
| 954 | 76.146 | -19.4 | 56.7458 | 0 | | 199 | 0 | 181 | 103.8542 | |
| 955 | 76.146 | -19.4 | 56.7458 | 0 | | 199 | 0 | 181 | 104.8542 | |
| 956 | 76.146 | -19.4 | 56.7458 | 0 | | 199 | 0 | 182 | 104.8542 | |
| 957 | 76.146 | -19.4 | 56.7458 | 0 | | 199 | 0 | 183 | 105.8542 | |
| 958 | 76.146 | -19.4 | 56.7458 | 0 | | 199 | 0 | 183 | 106.8542 | |
| 959 | 76.146 | -19.4 | 56.7458 | 0 | | 199 | 0 | 185 | 106.8542 | |
| 960 | 76.146 | -19.3 | 56.7458 | 0 | 1 | 199 | 0 | 186 | 108.8542 | 11 |
| 961 | 76.146 | -19.3 | 56.8458 | 1 | | 199 | 0 | 187 | 109.8542 | |
| 962 | 76.146 | -19.3 | 56.8458 | 0 | | 199 | 0 | 188 | 110.8542 | |
| 963 | 76.146 | -19.3 | 56.8458 | 0 | | 199 | 0 | 189 | 111.8542 | |

| | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-----|----|----|-----|----------|-------------|
| 964 | 76.146 | -19.3 | 56.8458 | 0 | | 199 | 0 | | 190 | 112.8542 | |
| 965 | 76.146 | -19.3 | 56.8458 | 0 | | 199 | 0 | | 190 | 113.8542 | |
| 966 | 76.146 | -19.3 | 56.8458 | 0 | | 199 | 0 | | 190 | 113.8542 | |
| 967 | 76.146 | -19.3 | 56.8458 | 0 | | 199 | 0 | | 191 | 113.8542 | |
| 968 | 76.146 | -19.3 | 56.8458 | 0 | | 199 | 0 | | 191 | 114.8542 | |
| 969 | 76.146 | -19.3 | 56.8458 | 0 | | 200 | 0 | | 192 | 114.8542 | |
| 970 | 76.197 | -19.3 | 56.8458 | 0 | 1 | 200 | 10 | 10 | 192 | 115.8542 | 11 |
| 971 | 76.197 | -19.3 | 56.8966 | 0.508 | | 200 | 0 | | 192 | 115.8034 | |
| 972 | 76.197 | -19.3 | 56.8966 | 0 | | 200 | 0 | | 193 | 115.8034 | |
| 973 | 76.197 | -19.3 | 56.8966 | 0 | | 200 | 0 | | 193 | 116.8034 | |
| 974 | 76.247 | -19.3 | 56.8966 | 0 | | 200 | 0 | | 193 | 116.8034 | |
| 975 | 76.247 | -19.3 | 56.9474 | 0.508 | | 200 | 0 | | 192 | 116.7526 | |
| 976 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 115.7526 | |
| 977 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 115.7526 | |
| 978 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 193 | 115.7526 | |
| 979 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 193 | 116.7526 | |
| 980 | 76.247 | -19.3 | 56.9474 | 0 | 1.016 | 200 | 0 | 0 | 192 | 116.7526 | 1.016 C-141 |
| 981 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 115.7526 | |
| 982 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 115.7526 | |
| 983 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 115.7526 | |
| 984 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 115.7526 | |
| 985 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 114.7526 | |
| 986 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 114.7526 | |
| 987 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 114.7526 | |
| 988 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 114.7526 | |
| 989 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 114.7526 | |
| 990 | 76.247 | -19.3 | 56.9474 | 0 | 0 | 200 | 0 | 0 | 190 | 114.7526 | 0 |
| 991 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 113.7526 | |
| 992 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 114.7526 | |
| 993 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 115.7526 | |
| 994 | 76.247 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 192 | 115.7526 | |
| 995 | 76.298 | -19.3 | 56.9474 | 0 | | 200 | 0 | | 191 | 115.7526 | |
| 996 | 76.298 | -19.3 | 56.9982 | 0.508 | | 200 | 0 | | 191 | 114.7018 | |
| 997 | 76.298 | -19.3 | 56.9982 | 0 | | 200 | 0 | | 192 | 114.7018 | |
| 998 | 76.298 | -19.3 | 56.9982 | 0 | | 200 | 0 | | 192 | 115.7018 | |
| 999 | 76.324 | -19.3 | 56.9982 | 0 | | 200 | 0 | | 192 | 115.7018 | |
| 1000 | 76.324 | -19.3 | 57.0236 | 0.254 | 0.762 | 200 | 0 | 0 | 191 | 115.6764 | 0.762 |
| 1001 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 192 | 114.6764 | |
| 1002 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 115.6764 | |
| 1003 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1004 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1005 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1006 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1007 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1008 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 192 | 114.6764 | |
| 1009 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 192 | 115.6764 | |
| 1010 | 76.324 | -19.3 | 57.0236 | 0 | 0 | 200 | 0 | 0 | 191 | 115.6764 | 0 |
| 1011 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1012 | 76.324 | -19.3 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1013 | 76.501 | -19.4 | 57.0236 | 0 | | 200 | 0 | | 191 | 114.6764 | |
| 1014 | 76.501 | -19.4 | 57.1014 | 0.778 | | 200 | 0 | | 191 | 114.4986 | |
| 1015 | 76.501 | -19.4 | 57.1014 | 0 | | 200 | 0 | | 191 | 114.4986 | |
| 1016 | 76.806 | -19.4 | 57.1014 | 0 | | 200 | 0 | | 191 | 114.4986 | |
| 1017 | 76.832 | -19.3 | 57.4062 | 3.048 | | 200 | 0 | | 191 | 114.1938 | |
| 1018 | 76.832 | -19.3 | 57.5316 | 1.254 | | 200 | 0 | | 191 | 114.1684 | |
| 1019 | 76.832 | -19.3 | 57.5316 | 0 | | 200 | 0 | | 191 | 114.1684 | |
| 1020 | 76.832 | -19.3 | 57.5316 | 0 | 5.08 | 200 | 0 | 0 | 191 | 114.1684 | 5.08 |
| 1021 | 76.832 | -19.3 | 57.5316 | 0 | | 200 | 0 | | 191 | 114.1684 | |
| 1022 | 76.832 | -19.3 | 57.5316 | 0 | | 200 | 0 | | 191 | 114.1684 | |

end

SCWMATP173

ET=77.13 [29T,48.13E] Increase=-6.61 [-7.89%]

| Time [day] | CumP [cm] | sum(vTop [L]) | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d [L] | sum(vRoc [mm]) | Daily T [mm] | 10day T [mm/10d [L] | sum(vBot [cm]) | Cum Disct [cm] | 10day ET [mm/10d] |
|------------|-----------|---------------|-------------|------------------|---------------------|----------------|--------------|---------------------|----------------|----------------|-------------------|
| 650 | 50.165 | 63.1 | 113.265 | 0 | 0.778 | 59 | 0 | 0 | 160 | 109.835 | 0.778 |
| 651 | 50.47 | 63.1 | 113.265 | 0 | | 59 | 0 | | 160 | 109.835 | |
| 652 | 50.495 | 63.2 | 113.57 | 3.048 | | 59 | 0 | | 160 | 109.5302 | |
| 653 | 50.495 | 63.2 | 113.695 | 1.254 | | 59 | 0 | | 161 | 109.5048 | |
| 654 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 161 | 110.5048 | |
| 655 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 161 | 110.5048 | |
| 656 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 162 | 110.5048 | |
| 657 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 162 | 111.5048 | |
| 658 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 162 | 111.5048 | |
| 659 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 162 | 111.5048 | |
| 660 | 50.495 | 63.2 | 113.695 | 0 | 4.302 | 59 | 0 | 0 | 163 | 111.5048 | 4.302 |
| 661 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 163 | 112.5048 | C-142 |
| 662 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 163 | 112.5048 | |
| 663 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 164 | 112.5048 | |
| 664 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 164 | 113.5048 | |
| 665 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 164 | 113.5048 | |
| 666 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 165 | 113.5048 | |
| 667 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 165 | 114.5048 | |
| 668 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 165 | 114.5048 | |
| 669 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 166 | 114.5048 | |
| 670 | 50.495 | 63.2 | 113.695 | 0 | 0 | 59 | 0 | 0 | 166 | 115.5048 | 0 |
| 671 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 166 | 115.5048 | |
| 672 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 166 | 115.5048 | |
| 673 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 166 | 115.5048 | |
| 674 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 166 | 115.5048 | |
| 675 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 166 | 115.5048 | |
| 676 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 166 | 115.5048 | |
| 677 | 50.495 | 63.2 | 113.695 | 0 | | 59 | 0 | | 167 | 115.5048 | |
| 678 | 50.521 | 63.2 | 113.695 | 0 | | 59 | 0 | | 167 | 116.5048 | |
| 679 | 50.521 | 63.2 | 113.721 | 0.254 | | 59 | 0 | | 167 | 116.4794 | |
| 680 | 50.521 | 63.2 | 113.721 | 0 | 0.254 | 59 | 0 | 0 | 167 | 116.4794 | 0.254 |
| 681 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 167 | 116.4794 | |
| 682 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 167 | 116.4794 | |
| 683 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 167 | 116.4794 | |
| 684 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 167 | 116.4794 | |
| 685 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 167 | 116.4794 | |
| 686 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 167 | 116.4794 | |
| 687 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 168 | 116.4794 | |
| 688 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 168 | 117.4794 | |
| 689 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 168 | 117.4794 | |
| 690 | 50.521 | 63.2 | 113.721 | 0 | 0 | 59 | 0 | 0 | 168 | 117.4794 | 0 |
| 691 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 168 | 117.4794 | |
| 692 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 169 | 117.4794 | |
| 693 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 169 | 118.4794 | |
| 694 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 169 | 118.4794 | |
| 695 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 169 | 118.4794 | |
| 696 | 50.521 | 63.2 | 113.721 | 0 | | 59 | 0 | | 169 | 118.4794 | |
| 697 | 50.521 | 63.3 | 113.721 | 0 | | 59 | 0 | | 170 | 118.4794 | |
| 698 | 50.521 | 63.4 | 113.821 | 1 | | 59 | 0 | | 170 | 119.4794 | |
| 699 | 50.521 | 63.5 | 113.921 | 1 | | 59 | 0 | | 170 | 119.4794 | |
| 700 | 50.521 | 63.6 | 114.021 | 1 | 3 | 59 | 0 | 0 | 170 | 119.4794 | 3 |
| 701 | 50.521 | 63.8 | 114.121 | 1 | | 59 | 0 | | 170 | 119.4794 | |
| 702 | 50.521 | 63.9 | 114.321 | 2 | | 59 | 0 | | 171 | 119.4794 | |
| 703 | 50.521 | 64.1 | 114.421 | 1 | | 59 | 0 | | 171 | 120.4794 | |
| 704 | 50.521 | 64.3 | 114.621 | 2 | | 59 | 0 | | 171 | 120.4794 | |
| 705 | 50.521 | 64.5 | 114.821 | 2 | | 59 | 0 | | 171 | 120.4794 | |
| 706 | 50.521 | 64.7 | 115.021 | 2 | | 59 | 0 | | 171 | 120.4794 | |
| 707 | 50.521 | 64.9 | 115.221 | 2 | | 59 | 0 | | 171 | 120.4794 | |
| 708 | 50.521 | 65.1 | 115.421 | 2 | | 59 | 0 | | 172 | 120.4794 | |

| | | | | | | | | | | | |
|-----|--------|------|---------|-------|--------|------|---|---|-----|----------|--------|
| 709 | 50.521 | 65.2 | 115.621 | 2 | | 59 | 0 | | 172 | 121.4794 | |
| 710 | 50.521 | 65.4 | 115.721 | 1 | 17 | 59 | 0 | 0 | 172 | 121.4794 | 17 |
| 711 | 50.521 | 65.6 | 115.921 | 2 | | 59 | 0 | | 172 | 121.4794 | |
| 712 | 50.521 | 65.8 | 116.121 | 2 | | 59 | 0 | | 172 | 121.4794 | |
| 713 | 50.521 | 65.9 | 116.321 | 2 | | 59 | 0 | | 172 | 121.4794 | |
| 714 | 50.521 | 66.1 | 116.421 | 1 | | 59 | 0 | | 172 | 121.4794 | |
| 715 | 50.521 | 66.2 | 116.621 | 2 | | 59 | 0 | | 172 | 121.4794 | |
| 716 | 50.521 | 66.4 | 116.721 | 1 | | 59 | 0 | | 172 | 121.4794 | |
| 717 | 50.521 | 66.5 | 116.921 | 2 | | 59 | 0 | | 172 | 121.4794 | |
| 718 | 50.521 | 66.6 | 117.021 | 1 | | 59 | 0 | | 172 | 121.4794 | |
| 719 | 50.521 | 66.7 | 117.121 | 1 | | 59 | 0 | | 172 | 121.4794 | |
| 720 | 50.521 | 66.8 | 117.221 | 1 | 15 | 59 | 0 | 0 | 172 | 121.4794 | 15 |
| 721 | 50.521 | 67 | 117.321 | 1 | | 59 | 0 | | 173 | 121.4794 | |
| 722 | 50.521 | 67.1 | 117.521 | 2 | | 59 | 0 | | 173 | 122.4794 | |
| 723 | 50.521 | 67.2 | 117.621 | 1 | | 59 | 0 | | 173 | 122.4794 | |
| 724 | 50.521 | 67.3 | 117.721 | 1 | | 59 | 0 | | 173 | 122.4794 | |
| 725 | 50.521 | 67.4 | 117.821 | 1 | | 59 | 0 | | 173 | 122.4794 | |
| 726 | 50.521 | 67.5 | 117.921 | 1 | | 59 | 0 | | 173 | 122.4794 | |
| 727 | 50.521 | 67.6 | 118.021 | 1 | | 59 | 0 | | 173 | 122.4794 | C-143 |
| 728 | 50.521 | 67.7 | 118.121 | 1 | | 59 | 0 | | 173 | 122.4794 | |
| 729 | 50.546 | 67.8 | 118.221 | 1 | | 59 | 0 | | 173 | 122.4794 | |
| 730 | 50.546 | 67.9 | 118.346 | 1.254 | 11.254 | 59 | 0 | 0 | 173 | 122.454 | 11.254 |
| 731 | 50.546 | 68 | 118.446 | 1 | | 59 | 0 | | 173 | 122.454 | |
| 732 | 50.546 | 68.1 | 118.546 | 1 | | 59 | 0 | | 173 | 122.454 | |
| 733 | 51.206 | 67.7 | 118.646 | 1 | | 59 | 0 | | 173 | 122.454 | |
| 734 | 51.41 | 67.8 | 118.906 | 2.604 | | 59 | 0 | | 173 | 121.7936 | |
| 735 | 51.41 | 68.2 | 119.21 | 3.032 | | 59 | 0 | | 174 | 121.5904 | |
| 736 | 51.41 | 68.4 | 119.61 | 4 | | 59 | 0 | | 174 | 122.5904 | |
| 737 | 51.41 | 68.5 | 119.81 | 2 | | 59 | 0 | | 174 | 122.5904 | |
| 738 | 51.41 | 68.6 | 119.91 | 1 | | 59 | 0 | | 174 | 122.5904 | |
| 739 | 51.41 | 68.7 | 120.01 | 1 | | 59 | 0 | | 174 | 122.5904 | |
| 740 | 51.41 | 68.8 | 120.11 | 1 | 17.636 | 59 | 0 | 0 | 175 | 122.5904 | 17.636 |
| 741 | 51.41 | 68.9 | 120.21 | 1 | | 59 | 0 | | 175 | 123.5904 | |
| 742 | 52.095 | 68.6 | 120.31 | 1 | | 59 | 0 | | 175 | 123.5904 | |
| 743 | 52.095 | 69 | 120.695 | 3.858 | | 59 | 0 | | 175 | 122.9046 | |
| 744 | 52.095 | 69.1 | 121.095 | 4 | | 59 | 0 | | 175 | 122.9046 | |
| 745 | 52.095 | 69.3 | 121.195 | 1 | | 59 | 0 | | 175 | 122.9046 | |
| 746 | 52.095 | 69.4 | 121.395 | 2 | | 59 | 0 | | 176 | 122.9046 | |
| 747 | 52.095 | 69.5 | 121.495 | 1 | | 59 | 0 | | 176 | 123.9046 | |
| 748 | 52.095 | 69.7 | 121.595 | 1 | | 59 | 0 | | 176 | 123.9046 | |
| 749 | 52.095 | 69.8 | 121.795 | 2 | | 59 | 0 | | 177 | 123.9046 | |
| 750 | 52.095 | 70 | 121.895 | 1 | 17.858 | 59 | 0 | 0 | 177 | 124.9046 | 17.858 |
| 751 | 52.095 | 70.1 | 122.095 | 2 | | 59 | 0 | | 177 | 124.9046 | |
| 752 | 52.095 | 70.3 | 122.195 | 1 | | 59 | 0 | | 177 | 124.9046 | |
| 753 | 52.095 | 70.5 | 122.395 | 2 | | 59 | 0 | | 178 | 124.9046 | |
| 754 | 52.095 | 70.7 | 122.595 | 2 | | 59.1 | 0 | | 178 | 125.9046 | |
| 755 | 52.095 | 70.9 | 122.795 | 2 | | 59.1 | 1 | | 178 | 125.9046 | |
| 756 | 52.095 | 71.1 | 122.995 | 2 | | 59.2 | 0 | | 178 | 125.9046 | |
| 757 | 52.095 | 71.3 | 123.195 | 2 | | 59.2 | 1 | | 178 | 125.9046 | |
| 758 | 52.095 | 71.5 | 123.395 | 2 | | 59.3 | 0 | | 178 | 125.9046 | |
| 759 | 52.095 | 71.6 | 123.595 | 2 | | 59.3 | 1 | | 178 | 125.9046 | |
| 760 | 52.095 | 71.8 | 123.695 | 1 | 18 | 59.4 | 0 | 3 | 179 | 125.9046 | 21 |
| 761 | 52.095 | 71.9 | 123.895 | 2 | | 59.4 | 1 | | 179 | 126.9046 | |
| 762 | 52.095 | 72.1 | 123.995 | 1 | | 59.5 | 0 | | 179 | 126.9046 | |
| 763 | 52.095 | 72.2 | 124.195 | 2 | | 59.5 | 1 | | 179 | 126.9046 | |
| 764 | 52.095 | 72.3 | 124.295 | 1 | | 59.6 | 0 | | 179 | 126.9046 | |
| 765 | 52.095 | 72.5 | 124.395 | 1 | | 59.7 | 1 | | 179 | 126.9046 | |
| 766 | 52.095 | 72.6 | 124.595 | 2 | | 59.7 | 1 | | 180 | 126.9046 | |
| 767 | 52.095 | 72.7 | 124.695 | 1 | | 59.8 | 0 | | 180 | 127.9046 | |
| 768 | 52.095 | 72.9 | 124.795 | 1 | | 59.8 | 1 | | 180 | 127.9046 | |
| 769 | 52.095 | 73 | 124.995 | 2 | | 59.9 | 0 | | 180 | 127.9046 | |
| 770 | 52.095 | 73.1 | 125.095 | 1 | 14 | 60 | 1 | 6 | 181 | 127.9046 | 20 |
| 771 | 52.095 | 73.2 | 125.195 | 1 | | 60.1 | 1 | | 181 | 128.9046 | |
| 772 | 53.095 | 72.9 | 125.295 | 1 | | 60.2 | 1 | | 181 | 128.9046 | |
| 773 | 53.095 | 73.4 | 125.995 | 7 | | 60.2 | 1 | | 181 | 127.9046 | |

| | | | | | | | | | | | |
|-----|--------|------|---------|-------|--------|------|---|-----|----------|----------|--------|
| 774 | 53.095 | 73.6 | 126.495 | 5 | | 60.3 | 0 | 182 | 127.9046 | | |
| 775 | 53.095 | 73.7 | 126.695 | 2 | | 60.4 | 1 | 181 | 128.9046 | | |
| 776 | 53.095 | 73.9 | 126.795 | 1 | | 60.6 | 1 | 182 | 127.9046 | | |
| 777 | 53.095 | 74 | 126.995 | 2 | | 60.7 | 2 | 182 | 128.9046 | | |
| 778 | 53.095 | 74.1 | 127.095 | 1 | | 60.7 | 1 | 182 | 128.9046 | | |
| 779 | 53.095 | 74.3 | 127.195 | 1 | | 60.9 | 0 | 183 | 128.9046 | | |
| 780 | 53.095 | 74.4 | 127.395 | 2 | 23 | 61 | 2 | 10 | 183 | 129.9046 | 33 |
| 781 | 53.095 | 74.5 | 127.495 | 1 | | 61.1 | 1 | | 183 | 129.9046 | |
| 782 | 53.095 | 74.6 | 127.595 | 1 | | 61.2 | 1 | | 183 | 129.9046 | |
| 783 | 53.095 | 74.7 | 127.695 | 1 | | 61.3 | 1 | | 183 | 129.9046 | |
| 784 | 54.095 | 74.7 | 127.795 | 1 | | 61.5 | 1 | | 184 | 129.9046 | |
| 785 | 54.095 | 74.9 | 128.795 | 10 | | 61.6 | 2 | | 184 | 129.9046 | |
| 786 | 54.095 | 75 | 128.995 | 2 | | 61.7 | 1 | | 184 | 129.9046 | |
| 787 | 55.095 | 75.1 | 129.095 | 1 | | 61.9 | 1 | | 184 | 129.9046 | |
| 788 | 55.095 | 75.3 | 130.195 | 11 | | 62 | 2 | | 185 | 128.9046 | |
| 789 | 55.095 | 75.4 | 130.395 | 2 | | 62.1 | 1 | | 185 | 129.9046 | |
| 790 | 55.095 | 75.5 | 130.495 | 1 | 31 | 62.3 | 1 | 12 | 185 | 129.9046 | 43 |
| 791 | 55.095 | 75.6 | 130.595 | 1 | | 62.4 | 2 | | 185 | 129.9046 | |
| 792 | 55.095 | 75.7 | 130.695 | 1 | | 62.6 | 1 | | 186 | 129.9046 | |
| 793 | 55.095 | 75.7 | 130.795 | 1 | | 62.7 | 2 | | 186 | 130.9046 | C-144 |
| 794 | 55.095 | 75.8 | 130.795 | 0 | | 62.9 | 1 | | 187 | 130.9046 | |
| 795 | 55.095 | 75.9 | 130.895 | 1 | | 63 | 2 | | 187 | 131.9046 | |
| 796 | 55.095 | 76 | 130.995 | 1 | | 63.2 | 1 | | 188 | 131.9046 | |
| 797 | 55.095 | 76.2 | 131.095 | 1 | | 63.4 | 2 | | 188 | 132.9046 | |
| 798 | 55.095 | 76.4 | 131.295 | 2 | | 63.6 | 2 | | 189 | 132.9046 | |
| 799 | 55.251 | 76.6 | 131.495 | 2 | | 63.7 | 2 | | 189 | 133.9046 | |
| 800 | 55.911 | 76.7 | 131.851 | 3.556 | 13.556 | 63.8 | 1 | 16 | 190 | 133.749 | 29.556 |
| 801 | 55.911 | 77.1 | 132.611 | 7.604 | | 64 | 1 | | 190 | 134.0886 | |
| 802 | 55.911 | 77.4 | 133.011 | 4 | | 64.3 | 2 | | 190 | 134.0886 | |
| 803 | 55.911 | 77.6 | 133.311 | 3 | | 64.5 | 3 | | 191 | 134.0886 | |
| 804 | 56.165 | 77.9 | 133.511 | 2 | | 64.6 | 2 | | 191 | 135.0886 | |
| 805 | 56.216 | 78.1 | 134.065 | 5.54 | | 64.8 | 1 | | 191 | 134.8346 | |
| 806 | 56.978 | 78.2 | 134.316 | 2.508 | | 65 | 2 | | 192 | 134.7838 | |
| 807 | 56.978 | 78.5 | 135.178 | 8.62 | | 65.1 | 2 | | 192 | 135.0218 | |
| 808 | 56.978 | 78.7 | 135.478 | 3 | | 65.2 | 1 | | 193 | 135.0218 | |
| 809 | 56.978 | 78.9 | 135.678 | 2 | | 65.4 | 1 | | 194 | 136.0218 | |
| 810 | 56.978 | 79.2 | 135.878 | 2 | 40.272 | 65.6 | 2 | 17 | 194 | 137.0218 | 57.272 |
| 811 | 56.978 | 79.5 | 136.178 | 3 | | 65.8 | 2 | | 195 | 137.0218 | |
| 812 | 56.978 | 79.8 | 136.478 | 3 | | 66 | 2 | | 196 | 138.0218 | |
| 813 | 56.978 | 80.2 | 136.778 | 3 | | 66.2 | 2 | | 196 | 139.0218 | |
| 814 | 56.978 | 80.7 | 137.178 | 4 | | 66.3 | 2 | | 197 | 139.0218 | |
| 815 | 56.978 | 81.1 | 137.678 | 5 | | 66.5 | 1 | | 197 | 140.0218 | |
| 816 | 56.978 | 81.5 | 138.078 | 4 | | 66.7 | 2 | | 198 | 140.0218 | |
| 817 | 56.978 | 82 | 138.478 | 4 | | 66.9 | 2 | | 199 | 141.0218 | |
| 818 | 56.978 | 82.5 | 138.978 | 5 | | 67 | 2 | | 200 | 142.0218 | |
| 819 | 56.978 | 82.9 | 139.478 | 5 | | 67.2 | 1 | | 200 | 143.0218 | |
| 820 | 56.978 | 83.4 | 139.878 | 4 | 40 | 67.4 | 2 | 18 | 200 | 143.0218 | 58 |
| 821 | 56.978 | 83.7 | 140.378 | 5 | | 67.5 | 2 | | 200 | 143.0218 | |
| 822 | 56.978 | 84.1 | 140.678 | 3 | | 67.7 | 1 | | 201 | 143.0218 | |
| 823 | 56.978 | 84.4 | 141.078 | 4 | | 67.8 | 2 | | 201 | 144.0218 | |
| 824 | 57.994 | 84.3 | 141.378 | 3 | | 68 | 1 | | 201 | 144.0218 | |
| 825 | 58.35 | 84.6 | 142.294 | 9.16 | | 68.1 | 2 | | 202 | 143.0058 | |
| 826 | 58.35 | 85 | 142.95 | 6.556 | | 68.3 | 1 | | 202 | 143.6502 | |
| 827 | 58.35 | 85.3 | 143.35 | 4 | | 68.4 | 2 | | 203 | 143.6502 | |
| 828 | 58.35 | 85.5 | 143.65 | 3 | | 68.6 | 1 | | 203 | 144.6502 | |
| 829 | 58.35 | 85.7 | 143.85 | 2 | | 68.7 | 2 | | 203 | 144.6502 | |
| 830 | 58.35 | 86 | 144.05 | 2 | 41.716 | 68.9 | 1 | 15 | 203 | 144.6502 | 56.716 |
| 831 | 58.35 | 86.2 | 144.35 | 3 | | 69 | 2 | | 203 | 144.6502 | |
| 832 | 58.35 | 86.3 | 144.55 | 2 | | 69.2 | 1 | | 203 | 144.6502 | |
| 833 | 58.35 | 86.5 | 144.65 | 1 | | 69.4 | 2 | | 203 | 144.6502 | |
| 834 | 58.35 | 86.6 | 144.85 | 2 | | 69.5 | 2 | | 204 | 144.6502 | |
| 835 | 58.35 | 86.7 | 144.95 | 1 | | 69.7 | 1 | | 204 | 145.6502 | |
| 836 | 59.874 | 86.3 | 145.05 | 1 | | 69.9 | 2 | | 205 | 145.6502 | |
| 837 | 59.874 | 86.8 | 146.174 | 11.24 | | 70.1 | 2 | | 205 | 145.1262 | |
| 838 | 59.874 | 87 | 146.674 | 5 | | 70.3 | 2 | | 206 | 145.1262 | |

| | | | | | | | | | | | |
|-----|--------|------|---------|-------|--------|------|---|----|-----|----------|--------|
| 839 | 59.874 | 87.1 | 146.874 | 2 | | 70.4 | 2 | | 206 | 146.1262 | |
| 840 | 59.874 | 87.2 | 146.974 | 1 | 29.24 | 70.5 | 1 | 17 | 206 | 146.1262 | 46.24 |
| 841 | 59.899 | 87.4 | 147.074 | 1 | | 70.7 | 1 | | 206 | 146.1262 | |
| 842 | 60.153 | 87.6 | 147.299 | 2.254 | | 70.9 | 2 | | 206 | 146.1008 | |
| 843 | 60.255 | 87.8 | 147.753 | 4.54 | | 71.1 | 2 | | 205 | 145.8468 | |
| 844 | 60.255 | 87.9 | 148.055 | 3.016 | | 71.2 | 2 | | 205 | 144.7452 | |
| 845 | 60.255 | 88 | 148.155 | 1 | | 71.4 | 1 | | 205 | 144.7452 | |
| 846 | 60.306 | 88.1 | 148.255 | 1 | | 71.6 | 2 | | 205 | 144.7452 | |
| 847 | 61.068 | 88.2 | 148.406 | 1.508 | | 71.8 | 2 | | 204 | 144.6944 | |
| 848 | 61.093 | 88.3 | 149.268 | 8.62 | | 72 | 2 | | 204 | 142.9324 | |
| 849 | 61.093 | 88.3 | 149.393 | 1.254 | | 72.3 | 2 | | 204 | 142.907 | |
| 850 | 61.093 | 88.4 | 149.393 | 0 | 24.192 | 72.5 | 3 | 19 | 204 | 142.907 | 43.192 |
| 851 | 61.093 | 88.4 | 149.493 | 1 | | 72.7 | 2 | | 204 | 142.907 | |
| 852 | 61.093 | 88.5 | 149.493 | 0 | | 72.8 | 2 | | 204 | 142.907 | |
| 853 | 61.093 | 88.5 | 149.593 | 1 | | 72.9 | 1 | | 203 | 142.907 | |
| 854 | 61.093 | 88.5 | 149.593 | 0 | | 73.1 | 1 | | 203 | 141.907 | |
| 855 | 65.884 | 84.3 | 149.593 | 0 | | 73.2 | 2 | | 203 | 141.907 | |
| 856 | 65.884 | 85.2 | 150.184 | 5.912 | | 73.5 | 1 | | 202 | 137.1158 | |
| 857 | 65.884 | 86 | 151.084 | 9 | | 73.8 | 3 | | 202 | 136.1158 | |
| 858 | 65.884 | 86.4 | 151.884 | 8 | | 74 | 3 | | 202 | 136.1158 | |
| 859 | 65.884 | 86.6 | 152.284 | 4 | | 74.2 | 2 | | 202 | 136.1158 | C-145 |
| 860 | 65.884 | 86.8 | 152.484 | 2 | 30.912 | 74.4 | 2 | 19 | 201 | 136.1158 | 49.912 |
| 861 | 65.884 | 86.9 | 152.684 | 2 | | 74.6 | 2 | | 201 | 135.1158 | |
| 862 | 65.884 | 86.9 | 152.784 | 1 | | 74.8 | 2 | | 201 | 135.1158 | |
| 863 | 65.884 | 87 | 152.784 | 0 | | 75.1 | 2 | | 200 | 135.1158 | |
| 864 | 65.884 | 87.1 | 152.884 | 1 | | 75.2 | 3 | | 200 | 134.1158 | |
| 865 | 65.884 | 87.1 | 152.984 | 1 | | 75.5 | 1 | | 200 | 134.1158 | |
| 866 | 65.884 | 87.1 | 152.984 | 0 | | 75.6 | 3 | | 200 | 134.1158 | |
| 867 | 65.884 | 87.2 | 152.984 | 0 | | 75.8 | 1 | | 200 | 134.1158 | |
| 868 | 65.884 | 87.2 | 153.084 | 1 | | 76 | 2 | | 200 | 134.1158 | |
| 869 | 65.884 | 87.2 | 153.084 | 0 | | 76.3 | 2 | | 199 | 134.1158 | |
| 870 | 65.884 | 87.2 | 153.084 | 0 | 6 | 76.5 | 3 | 21 | 199 | 133.1158 | 27 |
| 871 | 65.884 | 87.3 | 153.084 | 0 | | 76.6 | 2 | | 199 | 133.1158 | |
| 872 | 67.891 | 85.8 | 153.184 | 1 | | 76.7 | 1 | | 199 | 133.1158 | |
| 873 | 67.891 | 86.2 | 153.691 | 5.066 | | 76.9 | 1 | | 199 | 131.1092 | |
| 874 | 71.599 | 83.1 | 154.091 | 4 | | 77.1 | 2 | | 200 | 131.1092 | |
| 875 | 71.599 | 83.7 | 154.699 | 6.084 | | 77.2 | 2 | | 200 | 128.4008 | |
| 876 | 71.599 | 84.5 | 155.299 | 6 | | 77.5 | 1 | | 201 | 128.4008 | |
| 877 | 71.599 | 84.9 | 156.099 | 8 | | 77.7 | 3 | | 201 | 129.4008 | |
| 878 | 71.599 | 85 | 156.499 | 4 | | 77.9 | 2 | | 202 | 129.4008 | |
| 879 | 71.599 | 85.2 | 156.599 | 1 | | 78.1 | 2 | | 202 | 130.4008 | |
| 880 | 71.599 | 85.3 | 156.799 | 2 | 37.15 | 78.3 | 2 | 18 | 202 | 130.4008 | 55.15 |
| 881 | 71.599 | 85.3 | 156.899 | 1 | | 78.5 | 2 | | 203 | 130.4008 | |
| 882 | 71.599 | 85.4 | 156.899 | 0 | | 78.7 | 2 | | 203 | 131.4008 | |
| 883 | 71.599 | 85.4 | 156.999 | 1 | | 78.9 | 2 | | 202 | 131.4008 | |
| 884 | 71.599 | 85.5 | 156.999 | 0 | | 79.1 | 2 | | 202 | 130.4008 | |
| 885 | 71.599 | 85.5 | 157.099 | 1 | | 79.3 | 2 | | 201 | 130.4008 | |
| 886 | 71.599 | 85.5 | 157.099 | 0 | | 79.5 | 2 | | 201 | 129.4008 | |
| 887 | 71.599 | 85.5 | 157.099 | 0 | | 79.7 | 2 | | 201 | 129.4008 | |
| 888 | 71.853 | 85.6 | 157.099 | 0 | | 79.8 | 2 | | 200 | 129.4008 | |
| 889 | 71.904 | 85.6 | 157.453 | 3.54 | | 80 | 1 | | 200 | 128.1468 | |
| 890 | 71.904 | 85.6 | 157.504 | 0.508 | 7.048 | 80.3 | 2 | 19 | 200 | 128.096 | 26.048 |
| 891 | 71.904 | 85.6 | 157.504 | 0 | | 80.4 | 3 | | 199 | 128.096 | |
| 892 | 71.955 | 85.6 | 157.504 | 0 | | 80.6 | 1 | | 199 | 127.096 | |
| 893 | 71.955 | 85.6 | 157.555 | 0.508 | | 80.8 | 2 | | 199 | 127.0452 | |
| 894 | 71.955 | 85.6 | 157.555 | 0 | | 81 | 2 | | 199 | 127.0452 | |
| 895 | 71.955 | 85.6 | 157.555 | 0 | | 81.1 | 2 | | 199 | 127.0452 | |
| 896 | 72.183 | 85.6 | 157.555 | 0 | | 81.3 | 1 | | 199 | 127.0452 | |
| 897 | 72.234 | 85.6 | 157.783 | 2.286 | | 81.4 | 2 | | 199 | 126.8166 | |
| 898 | 72.234 | 85.6 | 157.834 | 0.508 | | 81.6 | 1 | | 199 | 126.7658 | |
| 899 | 72.234 | 85.6 | 157.834 | 0 | | 81.8 | 2 | | 199 | 126.7658 | |
| 900 | 72.234 | 85.6 | 157.834 | 0 | 3.302 | 82 | 2 | 18 | 199 | 126.7658 | 21.302 |
| 901 | 72.234 | 85.6 | 157.834 | 0 | | 82.1 | 2 | | 199 | 126.7658 | |
| 902 | 72.26 | 85.6 | 157.834 | 0 | | 82.2 | 1 | | 200 | 126.7658 | |
| 903 | 73.352 | 85 | 157.86 | 0.254 | | 82.3 | 1 | | 200 | 127.7404 | |

| | | | | | | | | | | | |
|-----|--------|------|---------|-------|--------|------|---|----|-----|----------|--------|
| 904 | 73.352 | 85.3 | 158.352 | 4.922 | | 82.5 | 1 | | 199 | 126.6482 | |
| 905 | 73.352 | 85.4 | 158.652 | 3 | | 82.7 | 2 | | 199 | 125.6482 | |
| 906 | 73.352 | 85.4 | 158.752 | 1 | | 82.8 | 2 | | 199 | 125.6482 | |
| 907 | 73.352 | 85.4 | 158.752 | 0 | | 82.9 | 1 | | 199 | 125.6482 | |
| 908 | 73.352 | 85.4 | 158.752 | 0 | | 83 | 1 | | 199 | 125.6482 | |
| 909 | 73.352 | 85.4 | 158.752 | 0 | | 83.1 | 1 | | 199 | 125.6482 | |
| 910 | 73.352 | 85.4 | 158.752 | 0 | 9.176 | 83.2 | 1 | 13 | 199 | 125.6482 | 22.176 |
| 911 | 73.352 | 85.4 | 158.752 | 0 | | 83.4 | 1 | | 199 | 125.6482 | |
| 912 | 73.352 | 85.4 | 158.752 | 0 | | 83.5 | 2 | | 200 | 125.6482 | |
| 913 | 74.215 | 85.1 | 158.752 | 0 | | 83.6 | 1 | | 201 | 126.6482 | |
| 914 | 74.596 | 85.2 | 159.315 | 5.636 | | 83.7 | 1 | | 202 | 126.7846 | |
| 915 | 74.774 | 85.3 | 159.796 | 4.81 | | 83.8 | 1 | | 204 | 127.4036 | |
| 916 | 74.952 | 85.3 | 160.074 | 2.778 | | 83.9 | 1 | | 205 | 129.2258 | |
| 917 | 74.952 | 85.3 | 160.252 | 1.778 | | 84 | 1 | | 206 | 130.048 | |
| 918 | 74.977 | 85.3 | 160.252 | 0 | | 84.2 | 1 | | 207 | 131.048 | |
| 919 | 74.977 | 85.4 | 160.277 | 0.254 | | 84.2 | 2 | | 208 | 132.0226 | |
| 920 | 74.977 | 85.4 | 160.377 | 1 | 16.256 | 84.4 | 0 | 11 | 208 | 133.0226 | 27.256 |
| 921 | 74.977 | 85.4 | 160.377 | 0 | | 84.5 | 2 | | 208 | 133.0226 | |
| 922 | 74.977 | 85.4 | 160.377 | 0 | | 84.6 | 1 | | 209 | 133.0226 | |
| 923 | 75.028 | 85.4 | 160.377 | 0 | | 84.7 | 1 | | 209 | 134.0226 | |
| 924 | 75.028 | 85.4 | 160.428 | 0.508 | | 84.7 | 1 | | 210 | 133.9718 | |
| 925 | 75.028 | 85.4 | 160.428 | 0 | | 84.9 | 0 | | 210 | 134.9718 | C-146 |
| 926 | 75.028 | 85.4 | 160.428 | 0 | | 85 | 2 | | 210 | 134.9718 | |
| 927 | 75.028 | 85.4 | 160.428 | 0 | | 85.1 | 1 | | 209 | 134.9718 | |
| 928 | 75.028 | 85.4 | 160.428 | 0 | | 85.2 | 1 | | 209 | 133.9718 | |
| 929 | 75.028 | 85.4 | 160.428 | 0 | | 85.3 | 1 | | 209 | 133.9718 | |
| 930 | 75.028 | 85.4 | 160.428 | 0 | 0.508 | 85.4 | 1 | 11 | 210 | 133.9718 | 11.508 |
| 931 | 75.028 | 85.4 | 160.428 | 0 | | 85.5 | 1 | | 211 | 134.9718 | |
| 932 | 75.028 | 85.4 | 160.428 | 0 | | 85.5 | 1 | | 212 | 135.9718 | |
| 933 | 75.028 | 85.4 | 160.428 | 0 | | 85.6 | 0 | | 212 | 136.9718 | |
| 934 | 75.028 | 85.4 | 160.428 | 0 | | 85.7 | 1 | | 212 | 136.9718 | |
| 935 | 75.028 | 85.4 | 160.428 | 0 | | 85.8 | 1 | | 211 | 136.9718 | |
| 936 | 75.028 | 85.4 | 160.428 | 0 | | 85.9 | 1 | | 210 | 135.9718 | |
| 937 | 75.028 | 85.4 | 160.428 | 0 | | 86 | 1 | | 210 | 134.9718 | |
| 938 | 75.028 | 85.4 | 160.428 | 0 | | 86.1 | 1 | | 209 | 134.9718 | |
| 939 | 75.028 | 85.4 | 160.428 | 0 | | 86.2 | 1 | | 208 | 133.9718 | |
| 940 | 75.028 | 85.4 | 160.428 | 0 | 0 | 86.2 | 1 | 9 | 208 | 132.9718 | 9 |
| 941 | 75.028 | 85.4 | 160.428 | 0 | | 86.3 | 0 | | 207 | 132.9718 | |
| 942 | 75.028 | 85.4 | 160.428 | 0 | | 86.4 | 1 | | 207 | 131.9718 | |
| 943 | 75.028 | 85.4 | 160.428 | 0 | | 86.5 | 1 | | 206 | 131.9718 | |
| 944 | 75.028 | 85.4 | 160.428 | 0 | | 86.6 | 1 | | 206 | 130.9718 | |
| 945 | 75.028 | 85.4 | 160.428 | 0 | | 86.6 | 1 | | 206 | 130.9718 | |
| 946 | 75.104 | 85.4 | 160.428 | 0 | | 86.7 | 0 | | 206 | 130.9718 | |
| 947 | 76.146 | 84.4 | 160.504 | 0.762 | | 86.7 | 1 | | 206 | 130.8956 | |
| 948 | 76.146 | 84.8 | 160.546 | 0.414 | | 87 | 0 | | 206 | 129.8542 | |
| 949 | 76.146 | 84.9 | 160.946 | 4 | | 87.1 | 3 | | 206 | 129.8542 | |
| 950 | 76.146 | 85 | 161.046 | 1 | 6.176 | 87.1 | 1 | 9 | 206 | 129.8542 | 15.176 |
| 951 | 76.146 | 85 | 161.146 | 1 | | 87.2 | 0 | | 205 | 129.8542 | |
| 952 | 76.146 | 85 | 161.146 | 0 | | 87.3 | 1 | | 206 | 128.8542 | |
| 953 | 76.146 | 85 | 161.146 | 0 | | 87.4 | 1 | | 206 | 129.8542 | |
| 954 | 76.146 | 85 | 161.146 | 0 | | 87.4 | 1 | | 206 | 129.8542 | |
| 955 | 76.146 | 85 | 161.146 | 0 | | 87.4 | 0 | | 206 | 129.8542 | |
| 956 | 76.146 | 85 | 161.146 | 0 | | 87.4 | 0 | | 206 | 129.8542 | |
| 957 | 76.146 | 85 | 161.146 | 0 | | 87.5 | 0 | | 206 | 129.8542 | |
| 958 | 76.146 | 85 | 161.146 | 0 | | 87.5 | 1 | | 206 | 129.8542 | |
| 959 | 76.146 | 85 | 161.146 | 0 | | 87.5 | 0 | | 206 | 129.8542 | |
| 960 | 76.146 | 85 | 161.146 | 0 | 1 | 87.6 | 0 | 4 | 205 | 129.8542 | 5 |
| 961 | 76.146 | 85 | 161.146 | 0 | | 87.6 | 1 | | 205 | 128.8542 | |
| 962 | 76.146 | 85 | 161.146 | 0 | | 87.6 | 0 | | 205 | 128.8542 | |
| 963 | 76.146 | 85 | 161.146 | 0 | | 87.6 | 0 | | 205 | 128.8542 | |
| 964 | 76.146 | 85 | 161.146 | 0 | | 87.7 | 0 | | 205 | 128.8542 | |
| 965 | 76.146 | 85 | 161.146 | 0 | | 87.7 | 1 | | 205 | 128.8542 | |
| 966 | 76.146 | 85 | 161.146 | 0 | | 87.7 | 0 | | 205 | 128.8542 | |
| 967 | 76.146 | 85 | 161.146 | 0 | | 87.7 | 0 | | 205 | 128.8542 | |
| 968 | 76.146 | 85 | 161.146 | 0 | | 87.7 | 0 | | 205 | 128.8542 | |

| | | | | | | | | | | | |
|------|--------|------|---------|-------|-------|------|---|---|-----|----------|-------|
| 969 | 76.146 | 85 | 161.146 | 0 | | 87.7 | 0 | | 204 | 128.8542 | |
| 970 | 76.197 | 85 | 161.146 | 0 | 0 | 87.8 | 0 | 2 | 204 | 127.8542 | 2 |
| 971 | 76.197 | 85 | 161.197 | 0.508 | | 87.8 | 1 | | 204 | 127.8034 | |
| 972 | 76.197 | 85 | 161.197 | 0 | | 87.8 | 0 | | 204 | 127.8034 | |
| 973 | 76.197 | 85 | 161.197 | 0 | | 87.8 | 0 | | 204 | 127.8034 | |
| 974 | 76.247 | 85 | 161.197 | 0 | | 87.8 | 0 | | 204 | 127.8034 | |
| 975 | 76.247 | 85 | 161.247 | 0.508 | | 87.9 | 0 | | 204 | 127.7526 | |
| 976 | 76.247 | 85 | 161.247 | 0 | | 87.9 | 1 | | 203 | 127.7526 | |
| 977 | 76.247 | 85 | 161.247 | 0 | | 87.9 | 0 | | 204 | 126.7526 | |
| 978 | 76.247 | 85 | 161.247 | 0 | | 87.9 | 0 | | 204 | 127.7526 | |
| 979 | 76.247 | 85 | 161.247 | 0 | | 87.9 | 0 | | 204 | 127.7526 | |
| 980 | 76.247 | 85 | 161.247 | 0 | 1.016 | 87.9 | 0 | 2 | 204 | 127.7526 | 3.016 |
| 981 | 76.247 | 85 | 161.247 | 0 | | 87.9 | 0 | | 204 | 127.7526 | |
| 982 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 204 | 127.7526 | |
| 983 | 76.247 | 85 | 161.247 | 0 | | 88 | 1 | | 204 | 127.7526 | |
| 984 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 203 | 127.7526 | |
| 985 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 203 | 126.7526 | |
| 986 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 203 | 126.7526 | |
| 987 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 203 | 126.7526 | |
| 988 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 203 | 126.7526 | |
| 989 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 203 | 126.7526 | |
| 990 | 76.247 | 85 | 161.247 | 0 | 0 | 88 | 0 | 1 | 203 | 126.7526 | 1 |
| 991 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 204 | 126.7526 | C-147 |
| 992 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 204 | 127.7526 | |
| 993 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 205 | 127.7526 | |
| 994 | 76.247 | 85 | 161.247 | 0 | | 88 | 0 | | 205 | 128.7526 | |
| 995 | 76.298 | 85 | 161.247 | 0 | | 88 | 0 | | 205 | 128.7526 | |
| 996 | 76.298 | 85 | 161.298 | 0.508 | | 88 | 0 | | 205 | 128.7018 | |
| 997 | 76.298 | 85 | 161.298 | 0 | | 88 | 0 | | 205 | 128.7018 | |
| 998 | 76.298 | 85 | 161.298 | 0 | | 88 | 0 | | 204 | 128.7018 | |
| 999 | 76.324 | 85 | 161.298 | 0 | | 88 | 0 | | 204 | 127.7018 | |
| 1000 | 76.324 | 85 | 161.324 | 0.254 | 0.762 | 88 | 0 | 0 | 204 | 127.6764 | 0.762 |
| 1001 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 204 | 127.6764 | |
| 1002 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 204 | 127.6764 | |
| 1003 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 204 | 127.6764 | |
| 1004 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 204 | 127.6764 | |
| 1005 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 204 | 127.6764 | |
| 1006 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 205 | 127.6764 | |
| 1007 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 206 | 128.6764 | |
| 1008 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 207 | 129.6764 | |
| 1009 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 208 | 130.6764 | |
| 1010 | 76.324 | 85 | 161.324 | 0 | 0 | 88 | 0 | 0 | 209 | 131.6764 | 0 |
| 1011 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 209 | 132.6764 | |
| 1012 | 76.324 | 85 | 161.324 | 0 | | 88 | 0 | | 210 | 132.6764 | |
| 1013 | 76.501 | 84.9 | 161.324 | 0 | | 88 | 0 | | 210 | 133.6764 | |
| 1014 | 76.501 | 85 | 161.401 | 0.778 | | 88 | 0 | | 210 | 133.4986 | |
| 1015 | 76.501 | 85 | 161.501 | 1 | | 88 | 0 | | 210 | 133.4986 | |
| 1016 | 76.806 | 85 | 161.501 | 0 | | 88 | 0 | | 211 | 133.4986 | |
| 1017 | 76.832 | 85 | 161.806 | 3.048 | | 88 | 0 | | 212 | 134.1938 | |
| 1018 | 76.832 | 85 | 161.832 | 0.254 | | 88 | 0 | | 212 | 135.1684 | |
| 1019 | 76.832 | 85 | 161.832 | 0 | | 88 | 0 | | 213 | 135.1684 | |
| 1020 | 76.832 | 85 | 161.832 | 0 | 5.08 | 88 | 0 | 0 | 213 | 136.1684 | 5.08 |
| 1021 | 76.832 | 85 | 161.832 | 0 | | 88 | 0 | | 214 | 136.1684 | |
| 1022 | 76.832 | 85 | 161.832 | 0 | | 88 | 0 | | 215 | 137.1684 | |
| end | | | | | | | | | | | |

SCWMATP224

ET=260.33 [25T,235E] Increase = 210.9 [210%]

| Time [day] | CumP [cm] | (C sum [L] | vTop [cm] | Cumm E | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc [L] | Daily T [mm] | 10day T [mm/10d] | sum(vBot [L] | Cum Disct [cm] | 10day ET [mm/10d] |
|------------|-----------|------------|-----------|--------|------------------|------------------|--------------|--------------|------------------|--------------|----------------|-------------------|
| 650 | 50.165 | 383 | 433.165 | 0 | 31.778 | 48.5 | 0 | 0 | 490 | 439.835 | 31.778 | |

| | | | | | | | | | | |
|-----|--------|-----|---------|--------|--------|------|---|-----|----------|--------|
| 651 | 50.47 | 383 | 433.165 | 0 | | 48.5 | 0 | 491 | 439.835 | |
| 652 | 50.495 | 383 | 433.47 | 3.048 | | 48.5 | 0 | 491 | 440.5302 | |
| 653 | 50.495 | 384 | 433.495 | 0.254 | | 48.5 | 0 | 491 | 440.5048 | |
| 654 | 50.495 | 384 | 434.495 | 10 | | 48.5 | 0 | 491 | 440.5048 | |
| 655 | 50.495 | 384 | 434.495 | 0 | | 48.5 | 0 | 492 | 440.5048 | |
| 656 | 50.495 | 384 | 434.495 | 0 | | 48.5 | 0 | 492 | 441.5048 | |
| 657 | 50.495 | 384 | 434.495 | 0 | | 48.5 | 0 | 492 | 441.5048 | |
| 658 | 50.495 | 385 | 434.495 | 0 | | 48.5 | 0 | 493 | 441.5048 | |
| 659 | 50.495 | 385 | 435.495 | 10 | | 48.5 | 0 | 493 | 442.5048 | |
| 660 | 50.495 | 385 | 435.495 | 0 | 23.302 | 48.5 | 0 | 493 | 442.5048 | 23.302 |
| 661 | 50.495 | 386 | 435.495 | 0 | | 48.5 | 0 | 494 | 442.5048 | |
| 662 | 50.495 | 386 | 436.495 | 10 | | 48.5 | 0 | 494 | 443.5048 | |
| 663 | 50.495 | 387 | 436.495 | 0 | | 48.5 | 0 | 495 | 443.5048 | |
| 664 | 50.495 | 387 | 437.495 | 10 | | 48.5 | 0 | 495 | 444.5048 | |
| 665 | 50.495 | 387 | 437.495 | 0 | | 48.5 | 0 | 496 | 444.5048 | |
| 666 | 50.495 | 388 | 437.495 | 0 | | 48.5 | 0 | 496 | 445.5048 | |
| 667 | 50.495 | 388 | 438.495 | 10 | | 48.5 | 0 | 496 | 445.5048 | |
| 668 | 50.495 | 388 | 438.495 | 0 | | 48.5 | 0 | 497 | 445.5048 | |
| 669 | 50.495 | 389 | 438.495 | 0 | | 48.5 | 0 | 497 | 446.5048 | |
| 670 | 50.495 | 389 | 439.495 | 10 | 40 | 48.5 | 0 | 498 | 446.5048 | 40 |
| 671 | 50.495 | 390 | 439.495 | 0 | | 48.5 | 0 | 498 | 447.5048 | |
| 672 | 50.495 | 390 | 440.495 | 10 | | 48.5 | 0 | 498 | 447.5048 | |
| 673 | 50.495 | 390 | 440.495 | 0 | | 48.5 | 0 | 499 | 447.5048 | |
| 674 | 50.495 | 391 | 440.495 | 0 | | 48.5 | 0 | 499 | 448.5048 | C-148 |
| 675 | 50.495 | 391 | 441.495 | 10 | | 48.5 | 0 | 500 | 448.5048 | |
| 676 | 50.495 | 392 | 441.495 | 0 | | 48.5 | 0 | 500 | 449.5048 | |
| 677 | 50.495 | 392 | 442.495 | 10 | | 48.5 | 0 | 501 | 449.5048 | |
| 678 | 50.521 | 393 | 442.495 | 0 | | 48.5 | 0 | 501 | 450.5048 | |
| 679 | 50.521 | 393 | 443.521 | 10.254 | | 48.5 | 0 | 502 | 450.794 | |
| 680 | 50.521 | 394 | 443.521 | 0 | 40.254 | 48.5 | 0 | 502 | 451.794 | 40.254 |
| 681 | 50.521 | 394 | 444.521 | 10 | | 48.5 | 0 | 503 | 451.794 | |
| 682 | 50.521 | 395 | 444.521 | 0 | | 48.5 | 0 | 503 | 452.794 | |
| 683 | 50.521 | 395 | 445.521 | 10 | | 48.5 | 0 | 504 | 452.794 | |
| 684 | 50.521 | 396 | 445.521 | 0 | | 48.5 | 0 | 504 | 453.794 | |
| 685 | 50.521 | 396 | 446.521 | 10 | | 48.5 | 0 | 505 | 453.794 | |
| 686 | 50.521 | 396 | 446.521 | 0 | | 48.5 | 0 | 505 | 454.794 | |
| 687 | 50.521 | 396 | 446.521 | 0 | | 48.5 | 0 | 505 | 454.794 | |
| 688 | 50.521 | 397 | 446.521 | 0 | | 48.5 | 0 | 505 | 454.794 | |
| 689 | 50.521 | 397 | 447.521 | 10 | | 48.5 | 0 | 506 | 454.794 | |
| 690 | 50.521 | 398 | 447.521 | 0 | 40 | 48.5 | 0 | 506 | 455.794 | 40 |
| 691 | 50.521 | 398 | 448.521 | 10 | | 48.5 | 0 | 507 | 455.794 | |
| 692 | 50.521 | 399 | 448.521 | 0 | | 48.5 | 0 | 507 | 456.794 | |
| 693 | 50.521 | 399 | 449.521 | 10 | | 48.5 | 0 | 508 | 456.794 | |
| 694 | 50.521 | 399 | 449.521 | 0 | | 48.5 | 0 | 508 | 457.794 | |
| 695 | 50.521 | 400 | 449.521 | 0 | | 48.5 | 0 | 509 | 457.794 | |
| 696 | 50.521 | 400 | 450.521 | 10 | | 48.5 | 0 | 509 | 458.794 | |
| 697 | 50.521 | 401 | 450.521 | 0 | | 48.5 | 0 | 510 | 458.794 | |
| 698 | 50.521 | 402 | 451.521 | 10 | | 48.5 | 0 | 511 | 459.794 | |
| 699 | 50.521 | 402 | 452.521 | 10 | | 48.5 | 0 | 511 | 460.794 | |
| 700 | 50.521 | 403 | 452.521 | 0 | 50 | 48.5 | 0 | 512 | 460.794 | 50 |
| 701 | 50.521 | 403 | 453.521 | 10 | | 48.5 | 0 | 512 | 461.794 | |
| 702 | 50.521 | 404 | 453.521 | 0 | | 48.5 | 0 | 513 | 461.794 | |
| 703 | 50.521 | 405 | 454.521 | 10 | | 48.5 | 0 | 513 | 462.794 | |
| 704 | 50.521 | 405 | 455.521 | 10 | | 48.5 | 0 | 514 | 462.794 | |
| 705 | 50.521 | 406 | 455.521 | 0 | | 48.5 | 0 | 514 | 463.794 | |
| 706 | 50.521 | 406 | 456.521 | 10 | | 48.5 | 0 | 515 | 463.794 | |
| 707 | 50.521 | 407 | 456.521 | 0 | | 48.5 | 0 | 516 | 464.794 | |
| 708 | 50.521 | 407 | 457.521 | 10 | | 48.5 | 0 | 516 | 465.794 | |
| 709 | 50.521 | 408 | 457.521 | 0 | | 48.5 | 0 | 517 | 465.794 | |
| 710 | 50.521 | 409 | 458.521 | 10 | 60 | 48.5 | 0 | 518 | 466.794 | 60 |
| 711 | 50.521 | 409 | 459.521 | 10 | | 48.5 | 0 | 518 | 467.794 | |
| 712 | 50.521 | 410 | 459.521 | 0 | | 48.5 | 0 | 519 | 467.794 | |
| 713 | 50.521 | 410 | 460.521 | 10 | | 48.5 | 0 | 519 | 468.794 | |
| 714 | 50.521 | 411 | 460.521 | 0 | | 48.5 | 0 | 520 | 468.794 | |
| 715 | 50.521 | 411 | 461.521 | 10 | | 48.5 | 0 | 520 | 469.794 | |

| | | | | | | | | | | | |
|-----|--------|-----|---------|--------|--------|------|---|-----|----------|----------|--------------|
| 716 | 50.521 | 412 | 461.521 | 0 | | 48.5 | 0 | 521 | 469.4794 | | |
| 717 | 50.521 | 413 | 462.521 | 10 | | 48.5 | 0 | 522 | 470.4794 | | |
| 718 | 50.521 | 414 | 463.521 | 10 | | 48.5 | 0 | 522 | 471.4794 | | |
| 719 | 50.521 | 414 | 464.521 | 10 | | 48.5 | 0 | 523 | 471.4794 | | |
| 720 | 50.521 | 415 | 464.521 | 0 | 60 | 48.5 | 0 | 0 | 524 | 472.4794 | 60 |
| 721 | 50.521 | 416 | 465.521 | 10 | | 48.5 | 0 | | 525 | 473.4794 | |
| 722 | 50.521 | 416 | 466.521 | 10 | | 48.5 | 0 | | 525 | 474.4794 | |
| 723 | 50.521 | 417 | 466.521 | 0 | | 48.5 | 0 | | 526 | 474.4794 | |
| 724 | 50.521 | 418 | 467.521 | 10 | | 48.5 | 0 | | 526 | 475.4794 | |
| 725 | 50.521 | 418 | 468.521 | 10 | | 48.5 | 0 | | 527 | 475.4794 | |
| 726 | 50.521 | 419 | 468.521 | 0 | | 48.5 | 0 | | 528 | 476.4794 | |
| 727 | 50.521 | 420 | 469.521 | 10 | | 48.5 | 0 | | 529 | 477.4794 | |
| 728 | 50.521 | 420 | 470.521 | 10 | | 48.5 | 0 | | 529 | 478.4794 | |
| 729 | 50.546 | 421 | 470.521 | 0 | | 48.5 | 0 | | 530 | 478.4794 | |
| 730 | 50.546 | 422 | 471.546 | 10.254 | 70.254 | 48.5 | 0 | 0 | 530 | 479.454 | 70.254 |
| 731 | 50.546 | 422 | 472.546 | 10 | | 48.5 | 0 | | 531 | 479.454 | |
| 732 | 50.546 | 423 | 472.546 | 0 | | 48.5 | 0 | | 532 | 480.454 | |
| 733 | 51.206 | 422 | 473.546 | 10 | | 48.5 | 0 | | 532 | 481.454 | |
| 734 | 51.41 | 423 | 473.206 | -3.396 | | 48.5 | 0 | | 532 | 480.7936 | |
| 735 | 51.41 | 423 | 474.41 | 12.032 | | 48.5 | 0 | | 532 | 480.5904 | |
| 736 | 51.41 | 424 | 474.41 | 0 | | 48.5 | 0 | | 533 | 480.5904 | |
| 737 | 51.41 | 425 | 475.41 | 10 | | 48.5 | 0 | | 533 | 481.5904 | |
| 738 | 51.41 | 425 | 476.41 | 10 | | 48.5 | 0 | | 534 | 481.5904 | |
| 739 | 51.41 | 426 | 476.41 | 0 | | 48.5 | 0 | | 535 | 482.5904 | |
| 740 | 51.41 | 427 | 477.41 | 10 | 58.636 | 48.5 | 0 | 0 | 536 | 483.5904 | 58.636 C-149 |
| 741 | 51.41 | 427 | 478.41 | 10 | | 48.5 | 0 | | 537 | 484.5904 | |
| 742 | 52.095 | 427 | 478.41 | 0 | | 48.5 | 0 | | 537 | 485.5904 | |
| 743 | 52.095 | 428 | 479.095 | 6.858 | | 48.5 | 0 | | 537 | 484.9046 | |
| 744 | 52.095 | 429 | 480.095 | 10 | | 48.5 | 0 | | 538 | 484.9046 | |
| 745 | 52.095 | 430 | 481.095 | 10 | | 48.5 | 0 | | 539 | 485.9046 | |
| 746 | 52.095 | 430 | 482.095 | 10 | | 48.5 | 0 | | 540 | 486.9046 | |
| 747 | 52.095 | 431 | 482.095 | 0 | | 48.5 | 0 | | 541 | 487.9046 | |
| 748 | 52.095 | 432 | 483.095 | 10 | | 48.5 | 0 | | 542 | 488.9046 | |
| 749 | 52.095 | 433 | 484.095 | 10 | | 48.5 | 0 | | 542 | 489.9046 | |
| 750 | 52.095 | 433 | 485.095 | 10 | 76.858 | 48.5 | 0 | 0 | 542 | 489.9046 | 76.858 |
| 751 | 52.095 | 434 | 485.095 | 0 | | 48.5 | 0 | | 543 | 489.9046 | |
| 752 | 52.095 | 434 | 486.095 | 10 | | 48.5 | 0 | | 544 | 490.9046 | |
| 753 | 52.095 | 435 | 486.095 | 0 | | 48.5 | 0 | | 545 | 491.9046 | |
| 754 | 52.095 | 436 | 487.095 | 10 | | 48.5 | 0 | | 546 | 492.9046 | |
| 755 | 52.095 | 437 | 488.095 | 10 | | 48.5 | 0 | | 546 | 493.9046 | |
| 756 | 52.095 | 438 | 489.095 | 10 | | 48.6 | 0 | | 547 | 493.9046 | |
| 757 | 52.095 | 439 | 490.095 | 10 | | 48.6 | 1 | | 548 | 494.9046 | |
| 758 | 52.095 | 440 | 491.095 | 10 | | 48.7 | 0 | | 549 | 495.9046 | |
| 759 | 52.095 | 441 | 492.095 | 10 | | 48.7 | 1 | | 550 | 496.9046 | |
| 760 | 52.095 | 442 | 493.095 | 10 | 80 | 48.7 | 0 | 2 | 551 | 497.9046 | 82 |
| 761 | 52.095 | 443 | 494.095 | 10 | | 48.8 | 0 | | 552 | 498.9046 | |
| 762 | 52.095 | 443 | 495.095 | 10 | | 48.8 | 1 | | 553 | 499.9046 | |
| 763 | 52.095 | 444 | 495.095 | 0 | | 48.8 | 0 | | 554 | 500.9046 | |
| 764 | 52.095 | 445 | 496.095 | 10 | | 48.9 | 0 | | 555 | 501.9046 | |
| 765 | 52.095 | 446 | 497.095 | 10 | | 48.9 | 1 | | 556 | 502.9046 | |
| 766 | 52.095 | 447 | 498.095 | 10 | | 49 | 0 | | 557 | 503.9046 | |
| 767 | 52.095 | 448 | 499.095 | 10 | | 49 | 1 | | 558 | 504.9046 | |
| 768 | 52.095 | 449 | 500.095 | 10 | | 49 | 0 | | 559 | 505.9046 | |
| 769 | 52.095 | 450 | 501.095 | 10 | | 49.1 | 0 | | 560 | 506.9046 | |
| 770 | 52.095 | 451 | 502.095 | 10 | 90 | 49.1 | 1 | 4 | 561 | 507.9046 | 94 |
| 771 | 52.095 | 452 | 503.095 | 10 | | 49.2 | 0 | | 562 | 508.9046 | |
| 772 | 53.095 | 452 | 504.095 | 10 | | 49.3 | 1 | | 562 | 509.9046 | |
| 773 | 53.095 | 453 | 505.095 | 10 | | 49.3 | 1 | | 563 | 508.9046 | |
| 774 | 53.095 | 453 | 506.095 | 10 | | 49.4 | 0 | | 564 | 509.9046 | |
| 775 | 53.095 | 454 | 506.095 | 0 | | 49.4 | 1 | | 564 | 510.9046 | |
| 776 | 53.095 | 455 | 507.095 | 10 | | 49.5 | 0 | | 565 | 510.9046 | |
| 777 | 53.095 | 455 | 508.095 | 10 | | 49.6 | 1 | | 566 | 511.9046 | |
| 778 | 53.095 | 456 | 508.095 | 0 | | 49.6 | 1 | | 567 | 512.9046 | |
| 779 | 53.095 | 457 | 509.095 | 10 | | 49.7 | 0 | | 568 | 513.9046 | |
| 780 | 53.095 | 458 | 510.095 | 10 | 80 | 49.8 | 1 | 6 | 569 | 514.9046 | 86 |

| | | | | | | | | | | | |
|-----|--------|-----|---------|--------|---------|------|---|----|-----|----------|--------|
| 781 | 53.095 | 459 | 511.095 | 10 | | 49.9 | 1 | | 570 | 515.9046 | |
| 782 | 53.095 | 460 | 512.095 | 10 | | 50 | 1 | | 571 | 516.9046 | |
| 783 | 53.095 | 461 | 513.095 | 10 | | 50 | 1 | | 572 | 517.9046 | |
| 784 | 54.095 | 461 | 514.095 | 10 | | 50.1 | 0 | | 572 | 518.9046 | |
| 785 | 54.095 | 462 | 515.095 | 10 | | 50.2 | 1 | | 573 | 517.9046 | |
| 786 | 54.095 | 463 | 516.095 | 10 | | 50.3 | 1 | | 574 | 518.9046 | |
| 787 | 55.095 | 463 | 517.095 | 10 | | 50.4 | 1 | | 574 | 519.9046 | |
| 788 | 55.095 | 464 | 518.095 | 10 | | 50.5 | 1 | | 575 | 518.9046 | |
| 789 | 55.095 | 465 | 519.095 | 10 | | 50.6 | 1 | | 576 | 519.9046 | |
| 790 | 55.095 | 466 | 520.095 | 10 | 100 | 50.7 | 1 | 9 | 577 | 520.9046 | 109 |
| 791 | 55.095 | 467 | 521.095 | 10 | | 50.8 | 1 | | 579 | 521.9046 | |
| 792 | 55.095 | 468 | 522.095 | 10 | | 50.9 | 1 | | 580 | 523.9046 | |
| 793 | 55.095 | 469 | 523.095 | 10 | | 51 | 1 | | 581 | 524.9046 | |
| 794 | 55.095 | 470 | 524.095 | 10 | | 51.1 | 1 | | 582 | 525.9046 | |
| 795 | 55.095 | 471 | 525.095 | 10 | | 51.2 | 1 | | 584 | 526.9046 | |
| 796 | 55.095 | 472 | 526.095 | 10 | | 51.3 | 1 | | 585 | 528.9046 | |
| 797 | 55.095 | 473 | 527.095 | 10 | | 51.4 | 1 | | 586 | 529.9046 | |
| 798 | 55.095 | 474 | 528.095 | 10 | | 51.5 | 1 | | 587 | 530.9046 | |
| 799 | 55.251 | 475 | 529.095 | 10 | | 51.5 | 1 | | 588 | 531.9046 | |
| 800 | 55.911 | 475 | 530.251 | 11.556 | 101.556 | 51.6 | 0 | 9 | 589 | 532.749 | 110.56 |
| 801 | 55.911 | 476 | 530.911 | 6.604 | | 51.7 | 1 | | 589 | 533.0886 | |
| 802 | 55.911 | 477 | 531.911 | 10 | | 51.9 | 1 | | 590 | 533.0886 | |
| 803 | 55.911 | 478 | 532.911 | 10 | | 52 | 2 | | 591 | 534.0886 | |
| 804 | 56.165 | 478 | 533.911 | 10 | | 52.1 | 1 | | 592 | 535.0886 | |
| 805 | 56.216 | 479 | 534.165 | 2.54 | | 52.2 | 1 | | 593 | 535.8346 | |
| 806 | 56.978 | 479 | 535.216 | 10.508 | | 52.3 | 1 | | 593 | 536.7838 | C-150 |
| 807 | 56.978 | 480 | 535.978 | 7.62 | | 52.4 | 1 | | 594 | 536.0218 | |
| 808 | 56.978 | 481 | 536.978 | 10 | | 52.4 | 1 | | 595 | 537.0218 | |
| 809 | 56.978 | 482 | 537.978 | 10 | | 52.6 | 0 | | 596 | 538.0218 | |
| 810 | 56.978 | 483 | 538.978 | 10 | 87.272 | 52.7 | 2 | 11 | 597 | 539.0218 | 98.272 |
| 811 | 56.978 | 484 | 539.978 | 10 | | 52.8 | 1 | | 599 | 540.0218 | |
| 812 | 56.978 | 486 | 540.978 | 10 | | 52.9 | 1 | | 600 | 542.0218 | |
| 813 | 56.978 | 487 | 542.978 | 20 | | 53 | 1 | | 601 | 543.0218 | |
| 814 | 56.978 | 488 | 543.978 | 10 | | 53 | 1 | | 602 | 544.0218 | |
| 815 | 56.978 | 489 | 544.978 | 10 | | 53.1 | 0 | | 604 | 545.0218 | |
| 816 | 56.978 | 490 | 545.978 | 10 | | 53.2 | 1 | | 605 | 547.0218 | |
| 817 | 56.978 | 491 | 546.978 | 10 | | 53.3 | 1 | | 606 | 548.0218 | |
| 818 | 56.978 | 492 | 547.978 | 10 | | 53.4 | 1 | | 607 | 549.0218 | |
| 819 | 56.978 | 493 | 548.978 | 10 | | 53.5 | 1 | | 608 | 550.0218 | |
| 820 | 56.978 | 494 | 549.978 | 10 | 110 | 53.6 | 1 | 9 | 609 | 551.0218 | 119 |
| 821 | 56.978 | 495 | 550.978 | 10 | | 53.7 | 1 | | 610 | 552.0218 | |
| 822 | 56.978 | 496 | 551.978 | 10 | | 53.8 | 1 | | 611 | 553.0218 | |
| 823 | 56.978 | 497 | 552.978 | 10 | | 53.9 | 1 | | 612 | 554.0218 | |
| 824 | 57.994 | 497 | 553.978 | 10 | | 53.9 | 1 | | 613 | 555.0218 | |
| 825 | 58.35 | 497 | 554.994 | 10.16 | | 54 | 0 | | 613 | 555.0058 | |
| 826 | 58.35 | 498 | 555.35 | 3.556 | | 54.1 | 1 | | 614 | 554.6502 | |
| 827 | 58.35 | 499 | 556.35 | 10 | | 54.2 | 1 | | 615 | 555.6502 | |
| 828 | 58.35 | 500 | 557.35 | 10 | | 54.3 | 1 | | 616 | 556.6502 | |
| 829 | 58.35 | 500 | 558.35 | 10 | | 54.4 | 1 | | 616 | 557.6502 | |
| 830 | 58.35 | 501 | 558.35 | 0 | 83.716 | 54.5 | 1 | 9 | 617 | 557.6502 | 92.716 |
| 831 | 58.35 | 502 | 559.35 | 10 | | 54.6 | 1 | | 619 | 558.6502 | |
| 832 | 58.35 | 504 | 560.35 | 10 | | 54.7 | 1 | | 620 | 560.6502 | |
| 833 | 58.35 | 505 | 562.35 | 20 | | 54.8 | 1 | | 621 | 561.6502 | |
| 834 | 58.35 | 505 | 563.35 | 10 | | 54.9 | 1 | | 622 | 562.6502 | |
| 835 | 58.35 | 506 | 563.35 | 0 | | 55 | 1 | | 623 | 563.6502 | |
| 836 | 59.874 | 506 | 564.35 | 10 | | 55.2 | 1 | | 623 | 564.6502 | |
| 837 | 59.874 | 507 | 565.874 | 15.24 | | 55.3 | 2 | | 624 | 563.1262 | |
| 838 | 59.874 | 508 | 566.874 | 10 | | 55.4 | 1 | | 625 | 564.1262 | |
| 839 | 59.874 | 509 | 567.874 | 10 | | 55.5 | 1 | | 627 | 565.1262 | |
| 840 | 59.874 | 510 | 568.874 | 10 | 105.24 | 55.6 | 1 | 11 | 628 | 567.1262 | 116.24 |
| 841 | 59.899 | 511 | 569.874 | 10 | | 55.7 | 1 | | 629 | 568.1262 | |
| 842 | 60.153 | 512 | 570.899 | 10.254 | | 55.8 | 1 | | 629 | 569.1008 | |
| 843 | 60.255 | 513 | 572.153 | 12.54 | | 55.9 | 1 | | 630 | 568.8468 | |
| 844 | 60.255 | 513 | 573.255 | 11.016 | | 56 | 1 | | 631 | 569.7452 | |
| 845 | 60.255 | 514 | 573.255 | 0 | | 56.2 | 1 | | 632 | 570.7452 | |

| | | | | | | | | | | | |
|-----|--------|-----|---------|--------|--------|------|---|----|-----|----------|--------|
| 846 | 60.306 | 515 | 574.255 | 10 | | 56.4 | 2 | | 633 | 571.7452 | |
| 847 | 61.068 | 515 | 575.306 | 10.508 | | 56.6 | 2 | | 633 | 572.6944 | |
| 848 | 61.093 | 516 | 576.068 | 7.62 | | 56.7 | 2 | | 633 | 571.9324 | |
| 849 | 61.093 | 517 | 577.093 | 10.254 | | 56.9 | 1 | | 634 | 571.907 | |
| 850 | 61.093 | 518 | 578.093 | 10 | 92.192 | 57.1 | 2 | 14 | 635 | 572.907 | 106.19 |
| 851 | 61.093 | 519 | 579.093 | 10 | | 57.2 | 2 | | 637 | 573.907 | |
| 852 | 61.093 | 520 | 580.093 | 10 | | 57.4 | 1 | | 637 | 575.907 | |
| 853 | 61.093 | 520 | 581.093 | 10 | | 57.4 | 2 | | 638 | 575.907 | |
| 854 | 61.093 | 521 | 581.093 | 0 | | 57.6 | 0 | | 639 | 576.907 | |
| 855 | 65.884 | 517 | 582.093 | 10 | | 57.7 | 2 | | 636 | 577.907 | |
| 856 | 65.884 | 518 | 582.884 | 7.912 | | 57.9 | 1 | | 635 | 570.1158 | |
| 857 | 65.884 | 518 | 583.884 | 10 | | 58.1 | 2 | | 636 | 569.1158 | |
| 858 | 65.884 | 519 | 583.884 | 0 | | 58.3 | 2 | | 637 | 570.1158 | |
| 859 | 65.884 | 520 | 584.884 | 10 | | 58.5 | 2 | | 637 | 571.1158 | |
| 860 | 65.884 | 521 | 585.884 | 10 | 77.912 | 58.7 | 2 | 16 | 638 | 571.1158 | 93.912 |
| 861 | 65.884 | 522 | 586.884 | 10 | | 58.9 | 2 | | 639 | 572.1158 | |
| 862 | 65.884 | 523 | 587.884 | 10 | | 59 | 2 | | 640 | 573.1158 | |
| 863 | 65.884 | 524 | 588.884 | 10 | | 59.2 | 1 | | 640 | 574.1158 | |
| 864 | 65.884 | 524 | 589.884 | 10 | | 59.4 | 2 | | 641 | 574.1158 | |
| 865 | 65.884 | 525 | 589.884 | 0 | | 59.6 | 2 | | 642 | 575.1158 | |
| 866 | 65.884 | 526 | 590.884 | 10 | | 59.8 | 2 | | 643 | 576.1158 | |
| 867 | 65.884 | 527 | 591.884 | 10 | | 59.9 | 2 | | 644 | 577.1158 | |
| 868 | 65.884 | 528 | 592.884 | 10 | | 60.1 | 1 | | 644 | 578.1158 | |
| 869 | 65.884 | 529 | 593.884 | 10 | | 60.3 | 2 | | 645 | 578.1158 | |
| 870 | 65.884 | 529 | 594.884 | 10 | 90 | 60.5 | 2 | 18 | 646 | 579.1158 | 108 |
| 871 | 65.884 | 530 | 594.884 | 0 | | 60.6 | 2 | | 646 | 580.1158 | |
| 872 | 67.891 | 528 | 595.884 | 10 | | 60.7 | 1 | | 647 | 580.1158 | C-151 |
| 873 | 67.891 | 529 | 595.891 | 0.066 | | 60.9 | 1 | | 647 | 579.1092 | |
| 874 | 71.599 | 526 | 596.891 | 10 | | 61 | 2 | | 647 | 579.1092 | |
| 875 | 71.599 | 526 | 597.599 | 7.084 | | 61.2 | 1 | | 645 | 575.4008 | |
| 876 | 71.599 | 527 | 597.599 | 0 | | 61.4 | 2 | | 646 | 573.4008 | |
| 877 | 71.599 | 528 | 598.599 | 10 | | 61.6 | 2 | | 648 | 574.4008 | |
| 878 | 71.599 | 528 | 599.599 | 10 | | 61.7 | 2 | | 649 | 576.4008 | |
| 879 | 71.599 | 529 | 599.599 | 0 | | 61.9 | 1 | | 650 | 577.4008 | |
| 880 | 71.599 | 529 | 600.599 | 10 | 57.15 | 62 | 2 | 16 | 651 | 578.4008 | 73.15 |
| 881 | 71.599 | 530 | 600.599 | 0 | | 62.3 | 1 | | 652 | 579.4008 | |
| 882 | 71.599 | 531 | 601.599 | 10 | | 62.5 | 3 | | 653 | 580.4008 | |
| 883 | 71.599 | 532 | 602.599 | 10 | | 62.6 | 2 | | 653 | 581.4008 | |
| 884 | 71.599 | 533 | 603.599 | 10 | | 62.8 | 1 | | 654 | 581.4008 | |
| 885 | 71.599 | 534 | 604.599 | 10 | | 62.9 | 2 | | 655 | 582.4008 | |
| 886 | 71.599 | 535 | 605.599 | 10 | | 63.1 | 1 | | 655 | 583.4008 | |
| 887 | 71.599 | 536 | 606.599 | 10 | | 63.3 | 2 | | 656 | 583.4008 | |
| 888 | 71.853 | 536 | 607.599 | 10 | | 63.4 | 2 | | 656 | 584.4008 | |
| 889 | 71.904 | 537 | 607.853 | 2.54 | | 63.6 | 1 | | 657 | 584.1468 | |
| 890 | 71.904 | 538 | 608.904 | 10.508 | 83.048 | 63.8 | 2 | 17 | 657 | 585.096 | 100.05 |
| 891 | 71.904 | 538 | 609.904 | 10 | | 64 | 2 | | 658 | 585.096 | |
| 892 | 71.955 | 539 | 609.904 | 0 | | 64.2 | 2 | | 658 | 586.096 | |
| 893 | 71.955 | 539 | 610.955 | 10.508 | | 64.3 | 2 | | 658 | 586.0452 | |
| 894 | 71.955 | 540 | 610.955 | 0 | | 64.5 | 1 | | 659 | 586.0452 | |
| 895 | 71.955 | 540 | 611.955 | 10 | | 64.7 | 2 | | 659 | 587.0452 | |
| 896 | 72.183 | 540 | 611.955 | 0 | | 64.8 | 2 | | 660 | 587.0452 | |
| 897 | 72.234 | 540 | 612.183 | 2.286 | | 65 | 1 | | 660 | 587.8166 | |
| 898 | 72.234 | 541 | 612.234 | 0.508 | | 65.2 | 2 | | 660 | 587.7658 | |
| 899 | 72.234 | 541 | 613.234 | 10 | | 65.4 | 2 | | 661 | 587.7658 | |
| 900 | 72.234 | 541 | 613.234 | 0 | 43.302 | 65.6 | 2 | 18 | 661 | 588.7658 | 61.302 |
| 901 | 72.234 | 541 | 613.234 | 0 | | 65.7 | 2 | | 662 | 588.7658 | |
| 902 | 72.26 | 542 | 613.234 | 0 | | 65.9 | 1 | | 663 | 589.7658 | |
| 903 | 73.352 | 541 | 614.26 | 10.254 | | 66 | 2 | | 663 | 590.7404 | |
| 904 | 73.352 | 542 | 614.352 | 0.922 | | 66.2 | 1 | | 663 | 589.6482 | |
| 905 | 73.352 | 543 | 615.352 | 10 | | 66.3 | 2 | | 664 | 589.6482 | |
| 906 | 73.352 | 543 | 616.352 | 10 | | 66.4 | 1 | | 664 | 590.6482 | |
| 907 | 73.352 | 543 | 616.352 | 0 | | 66.6 | 1 | | 664 | 590.6482 | |
| 908 | 73.352 | 544 | 616.352 | 0 | | 66.7 | 2 | | 664 | 590.6482 | |
| 909 | 73.352 | 544 | 617.352 | 10 | | 66.8 | 1 | | 664 | 590.6482 | |
| 910 | 73.352 | 544 | 617.352 | 0 | 41.176 | 67 | 1 | 14 | 665 | 590.6482 | 55.176 |

| | | | | | | | | | | |
|-----|--------|-----|---------|--------|--------|------|---|----|-----|-----------------|
| 911 | 73.352 | 544 | 617.352 | 0 | | 67.1 | 2 | | 666 | 591.6482 |
| 912 | 73.352 | 544 | 617.352 | 0 | | 67.3 | 1 | | 667 | 592.6482 |
| 913 | 74.215 | 544 | 617.352 | 0 | | 67.4 | 2 | | 668 | 593.6482 |
| 914 | 74.596 | 544 | 618.215 | 8.636 | | 67.5 | 1 | | 670 | 593.7846 |
| 915 | 74.774 | 545 | 618.596 | 3.81 | | 67.7 | 1 | | 671 | 595.4036 |
| 916 | 74.952 | 545 | 619.774 | 11.778 | | 67.8 | 2 | | 673 | 596.2258 |
| 917 | 74.952 | 545 | 619.952 | 1.778 | | 67.9 | 1 | | 674 | 598.048 |
| 918 | 74.977 | 546 | 619.952 | 0 | | 68.1 | 1 | | 675 | 599.048 |
| 919 | 74.977 | 546 | 620.977 | 10.254 | | 68.2 | 2 | | 676 | 600.0226 |
| 920 | 74.977 | 547 | 620.977 | 0 | 36.256 | 68.4 | 1 | 14 | 676 | 601.0226 50.256 |
| 921 | 74.977 | 548 | 621.977 | 10 | | 68.6 | 2 | | 677 | 601.0226 |
| 922 | 74.977 | 548 | 622.977 | 10 | | 68.7 | 2 | | 678 | 602.0226 |
| 923 | 75.028 | 549 | 622.977 | 0 | | 68.8 | 1 | | 679 | 603.0226 |
| 924 | 75.028 | 550 | 624.028 | 10.508 | | 68.9 | 1 | | 680 | 603.9718 |
| 925 | 75.028 | 550 | 625.028 | 10 | | 69 | 1 | | 681 | 604.9718 |
| 926 | 75.028 | 551 | 625.028 | 0 | | 69.2 | 1 | | 681 | 605.9718 |
| 927 | 75.028 | 552 | 626.028 | 10 | | 69.3 | 2 | | 682 | 605.9718 |
| 928 | 75.028 | 553 | 627.028 | 10 | | 69.5 | 1 | | 683 | 606.9718 |
| 929 | 75.028 | 554 | 628.028 | 10 | | 69.6 | 2 | | 684 | 607.9718 |
| 930 | 75.028 | 554 | 629.028 | 10 | 80.508 | 69.7 | 1 | 14 | 685 | 608.9718 94.508 |
| 931 | 75.028 | 555 | 629.028 | 0 | | 69.8 | 1 | | 686 | 609.9718 |
| 932 | 75.028 | 556 | 630.028 | 10 | | 69.9 | 1 | | 687 | 610.9718 |
| 933 | 75.028 | 557 | 631.028 | 10 | | 70 | 1 | | 688 | 611.9718 |
| 934 | 75.028 | 557 | 632.028 | 10 | | 70.1 | 1 | | 689 | 612.9718 |
| 935 | 75.028 | 558 | 632.028 | 0 | | 70.3 | 1 | | 689 | 613.9718 |
| 936 | 75.028 | 559 | 633.028 | 10 | | 70.4 | 2 | | 690 | 613.9718 |
| 937 | 75.028 | 559 | 634.028 | 10 | | 70.5 | 1 | | 690 | 614.9718 |
| 938 | 75.028 | 560 | 634.028 | 0 | | 70.6 | 1 | | 691 | 614.9718 C-152 |
| 939 | 75.028 | 561 | 635.028 | 10 | | 70.7 | 1 | | 691 | 615.9718 |
| 940 | 75.028 | 562 | 636.028 | 10 | 70 | 70.8 | 1 | 11 | 692 | 615.9718 81 |
| 941 | 75.028 | 562 | 637.028 | 10 | | 70.9 | 1 | | 692 | 616.9718 |
| 942 | 75.028 | 563 | 637.028 | 0 | | 71 | 1 | | 692 | 616.9718 |
| 943 | 75.028 | 564 | 638.028 | 10 | | 71.1 | 1 | | 693 | 616.9718 |
| 944 | 75.028 | 564 | 639.028 | 10 | | 71.2 | 1 | | 693 | 617.9718 |
| 945 | 75.028 | 565 | 639.028 | 0 | | 71.3 | 1 | | 694 | 617.9718 |
| 946 | 75.104 | 566 | 640.028 | 10 | | 71.4 | 1 | | 694 | 618.9718 |
| 947 | 76.146 | 565 | 641.104 | 10.762 | | 71.4 | 1 | | 695 | 618.8956 |
| 948 | 76.146 | 565 | 641.146 | 0.414 | | 71.8 | 0 | | 695 | 618.8542 |
| 949 | 76.146 | 565 | 641.146 | 0 | | 71.9 | 4 | | 695 | 618.8542 |
| 950 | 76.146 | 566 | 641.146 | 0 | 51.176 | 72 | 1 | 12 | 696 | 618.8542 63.176 |
| 951 | 76.146 | 567 | 642.146 | 10 | | 72.1 | 1 | | 696 | 619.8542 |
| 952 | 76.146 | 567 | 643.146 | 10 | | 72.2 | 1 | | 697 | 619.8542 |
| 953 | 76.146 | 568 | 643.146 | 0 | | 72.3 | 1 | | 698 | 620.8542 |
| 954 | 76.146 | 568 | 644.146 | 10 | | 72.3 | 1 | | 698 | 621.8542 |
| 955 | 76.146 | 569 | 644.146 | 0 | | 72.4 | 0 | | 699 | 621.8542 |
| 956 | 76.146 | 570 | 645.146 | 10 | | 72.4 | 1 | | 700 | 622.8542 |
| 957 | 76.146 | 570 | 646.146 | 10 | | 72.4 | 0 | | 700 | 623.8542 |
| 958 | 76.146 | 571 | 646.146 | 0 | | 72.5 | 0 | | 701 | 623.8542 |
| 959 | 76.146 | 572 | 647.146 | 10 | | 72.5 | 1 | | 701 | 624.8542 |
| 960 | 76.146 | 572 | 648.146 | 10 | 70 | 72.5 | 0 | 6 | 702 | 624.8542 76 |
| 961 | 76.146 | 573 | 648.146 | 0 | | 72.6 | 0 | | 702 | 625.8542 |
| 962 | 76.146 | 573 | 649.146 | 10 | | 72.6 | 1 | | 703 | 625.8542 |
| 963 | 76.146 | 574 | 649.146 | 0 | | 72.6 | 0 | | 703 | 626.8542 |
| 964 | 76.146 | 574 | 650.146 | 10 | | 72.7 | 0 | | 703 | 626.8542 |
| 965 | 76.146 | 575 | 650.146 | 0 | | 72.7 | 1 | | 704 | 626.8542 |
| 966 | 76.146 | 575 | 651.146 | 10 | | 72.7 | 0 | | 705 | 627.8542 |
| 967 | 76.146 | 576 | 651.146 | 0 | | 72.7 | 0 | | 705 | 628.8542 |
| 968 | 76.146 | 577 | 652.146 | 10 | | 72.7 | 0 | | 705 | 628.8542 |
| 969 | 76.146 | 577 | 653.146 | 10 | | 72.8 | 0 | | 706 | 628.8542 |
| 970 | 76.197 | 577 | 653.146 | 0 | 50 | 72.8 | 1 | 3 | 706 | 629.8542 53 |
| 971 | 76.197 | 578 | 653.197 | 0.508 | | 72.8 | 0 | | 706 | 629.8034 |
| 972 | 76.197 | 579 | 654.197 | 10 | | 72.8 | 0 | | 707 | 629.8034 |
| 973 | 76.197 | 579 | 655.197 | 10 | | 72.9 | 0 | | 707 | 630.8034 |
| 974 | 76.247 | 579 | 655.197 | 0 | | 72.9 | 1 | | 707 | 630.8034 |
| 975 | 76.247 | 580 | 655.247 | 0.508 | | 72.9 | 0 | | 707 | 630.7526 |

| | | | | | | | | | | | |
|------|--------|-----|---------|-------|--------|------|---|---|-----|----------|--------|
| 976 | 76.247 | 580 | 656.247 | 10 | | 72.9 | 0 | | 708 | 630.7526 | |
| 977 | 76.247 | 580 | 656.247 | 0 | | 73 | 0 | | 708 | 631.7526 | |
| 978 | 76.247 | 581 | 656.247 | 0 | | 73 | 1 | | 709 | 631.7526 | |
| 979 | 76.247 | 581 | 657.247 | 10 | | 73 | 0 | | 709 | 632.7526 | |
| 980 | 76.247 | 581 | 657.247 | 0 | 41.016 | 73 | 0 | 2 | 710 | 632.7526 | 43.016 |
| 981 | 76.247 | 582 | 657.247 | 0 | | 73 | 0 | | 710 | 633.7526 | |
| 982 | 76.247 | 582 | 658.247 | 10 | | 73 | 0 | | 710 | 633.7526 | |
| 983 | 76.247 | 582 | 658.247 | 0 | | 73 | 0 | | 710 | 633.7526 | |
| 984 | 76.247 | 583 | 658.247 | 0 | | 73 | 0 | | 710 | 633.7526 | |
| 985 | 76.247 | 583 | 659.247 | 10 | | 73 | 0 | | 711 | 633.7526 | |
| 986 | 76.247 | 583 | 659.247 | 0 | | 73 | 0 | | 711 | 634.7526 | |
| 987 | 76.247 | 584 | 659.247 | 0 | | 73 | 0 | | 711 | 634.7526 | |
| 988 | 76.247 | 584 | 660.247 | 10 | | 73 | 0 | | 712 | 634.7526 | |
| 989 | 76.247 | 584 | 660.247 | 0 | | 73 | 0 | | 712 | 635.7526 | |
| 990 | 76.247 | 584 | 660.247 | 0 | 30 | 73 | 0 | 0 | 712 | 635.7526 | 30 |
| 991 | 76.247 | 585 | 660.247 | 0 | | 73 | 0 | | 713 | 635.7526 | |
| 992 | 76.247 | 585 | 661.247 | 10 | | 73 | 0 | | 713 | 636.7526 | |
| 993 | 76.247 | 585 | 661.247 | 0 | | 73 | 0 | | 714 | 636.7526 | |
| 994 | 76.247 | 586 | 661.247 | 0 | | 73 | 0 | | 715 | 637.7526 | |
| 995 | 76.298 | 586 | 662.247 | 10 | | 73 | 0 | | 715 | 638.7526 | |
| 996 | 76.298 | 586 | 662.298 | 0.508 | | 73 | 0 | | 716 | 638.7018 | |
| 997 | 76.298 | 587 | 662.298 | 0 | | 73 | 0 | | 716 | 639.7018 | |
| 998 | 76.298 | 587 | 663.298 | 10 | | 73 | 0 | | 716 | 639.7018 | |
| 999 | 76.324 | 587 | 663.298 | 0 | | 73 | 0 | | 716 | 639.7018 | |
| 1000 | 76.324 | 587 | 663.324 | 0.254 | 30.762 | 73 | 0 | 0 | 717 | 639.6764 | 30.762 |
| 1001 | 76.324 | 588 | 663.324 | 0 | | 73 | 0 | | 717 | 640.6764 | |
| 1002 | 76.324 | 588 | 664.324 | 10 | | 73 | 0 | | 717 | 640.6764 | |
| 1003 | 76.324 | 588 | 664.324 | 0 | | 73 | 0 | | 718 | 640.6764 | |
| 1004 | 76.324 | 589 | 664.324 | 0 | | 73 | 0 | | 718 | 641.6764 | C-153 |
| 1005 | 76.324 | 589 | 665.324 | 10 | | 73 | 0 | | 719 | 641.6764 | |
| 1006 | 76.324 | 590 | 665.324 | 0 | | 73 | 0 | | 720 | 642.6764 | |
| 1007 | 76.324 | 590 | 666.324 | 10 | | 73 | 0 | | 721 | 643.6764 | |
| 1008 | 76.324 | 590 | 666.324 | 0 | | 73 | 0 | | 723 | 644.6764 | |
| 1009 | 76.324 | 591 | 666.324 | 0 | | 73 | 0 | | 724 | 646.6764 | |
| 1010 | 76.324 | 591 | 667.324 | 10 | 40 | 73 | 0 | 0 | 724 | 647.6764 | 40 |
| 1011 | 76.324 | 591 | 667.324 | 0 | | 73 | 0 | | 725 | 647.6764 | |
| 1012 | 76.324 | 591 | 667.324 | 0 | | 73 | 0 | | 725 | 648.6764 | |
| 1013 | 76.501 | 591 | 667.324 | 0 | | 73 | 0 | | 725 | 648.6764 | |
| 1014 | 76.501 | 591 | 667.501 | 1.778 | | 73 | 0 | | 725 | 648.4986 | |
| 1015 | 76.501 | 592 | 667.501 | 0 | | 73 | 0 | | 726 | 648.4986 | |
| 1016 | 76.806 | 592 | 668.501 | 10 | | 73 | 0 | | 726 | 649.4986 | |
| 1017 | 76.832 | 592 | 668.806 | 3.048 | | 73 | 0 | | 726 | 649.1938 | |
| 1018 | 76.832 | 592 | 668.832 | 0.254 | | 73 | 0 | | 727 | 649.1684 | |
| 1019 | 76.832 | 592 | 668.832 | 0 | | 73 | 0 | | 727 | 650.1684 | |
| 1020 | 76.832 | 592 | 668.832 | 0 | 25.08 | 73 | 0 | 0 | 727 | 650.1684 | 25.08 |
| 1021 | 76.832 | 593 | 668.832 | 0 | | 73 | 0 | | 728 | 650.1684 | |
| 1022 | 76.832 | 593 | 669.832 | 10 | | 73 | 0 | | 728 | 651.1684 | |

end

| SCWMATP224 | | | | ET=265.837 [16.5T,249E], Increase = 182.1 [217.5%] | | | | | | | |
|------------|--------|----------|---------|----------------------------------------------------|----------|----------|---------|----------|-----------|-----------|----------|
| Time | CumP(C | sum(vTop | Cumm E | Daily E | 10day E | sum(vRoc | Daily T | 10day T | sum(vBot) | Cum Discl | 10day ET |
| [day] | [cm] | [L] | [cm] | [mm/day] | [mm/10d] | [L] | [mm] | [mm/10d] | [L] | [cm] | [mm/10d] |
| 650 | 50.165 | 410 | 460.165 | 0 | 31.778 | 32.9 | 0 | 0 | 505 | 454.835 | 31.778 |
| 651 | 50.47 | 410 | 460.165 | 0 | | 32.9 | 0 | | 505 | 454.835 | |
| 652 | 50.495 | 410 | 460.47 | 3.048 | | 32.9 | 0 | | 505 | 454.5302 | |
| 653 | 50.495 | 410 | 460.495 | 0.254 | | 32.9 | 0 | | 505 | 454.5048 | |
| 654 | 50.495 | 410 | 460.495 | 0 | | 32.9 | 0 | | 505 | 454.5048 | |
| 655 | 50.495 | 410 | 460.495 | 0 | | 32.9 | 0 | | 506 | 454.5048 | |
| 656 | 50.495 | 411 | 460.495 | 0 | | 32.9 | 0 | | 506 | 455.5048 | |

| | | | | | | | | | | |
|-----|--------|-----|---------|-------|--------|------|---|-----|----------|--------|
| 657 | 50.495 | 411 | 461.495 | 10 | | 32.9 | 0 | 506 | 455.5048 | |
| 658 | 50.495 | 411 | 461.495 | 0 | | 32.9 | 0 | 507 | 455.5048 | |
| 659 | 50.495 | 412 | 461.495 | 0 | | 32.9 | 0 | 507 | 456.5048 | |
| 660 | 50.495 | 412 | 462.495 | 10 | 23.302 | 32.9 | 0 | 507 | 456.5048 | 23.302 |
| 661 | 50.495 | 412 | 462.495 | 0 | | 32.9 | 0 | 508 | 456.5048 | |
| 662 | 50.495 | 413 | 462.495 | 0 | | 32.9 | 0 | 508 | 457.5048 | |
| 663 | 50.495 | 413 | 463.495 | 10 | | 32.9 | 0 | 508 | 457.5048 | |
| 664 | 50.495 | 413 | 463.495 | 0 | | 32.9 | 0 | 509 | 457.5048 | |
| 665 | 50.495 | 414 | 463.495 | 0 | | 32.9 | 0 | 509 | 458.5048 | |
| 666 | 50.495 | 414 | 464.495 | 10 | | 32.9 | 0 | 510 | 458.5048 | |
| 667 | 50.495 | 414 | 464.495 | 0 | | 32.9 | 0 | 510 | 459.5048 | |
| 668 | 50.495 | 415 | 464.495 | 0 | | 32.9 | 0 | 510 | 459.5048 | |
| 669 | 50.495 | 415 | 465.495 | 10 | | 32.9 | 0 | 511 | 459.5048 | |
| 670 | 50.495 | 416 | 465.495 | 0 | 30 | 32.9 | 0 | 511 | 460.5048 | 30 |
| 671 | 50.495 | 416 | 466.495 | 10 | | 32.9 | 0 | 512 | 460.5048 | |
| 672 | 50.495 | 417 | 466.495 | 0 | | 32.9 | 0 | 512 | 461.5048 | |
| 673 | 50.495 | 417 | 467.495 | 10 | | 32.9 | 0 | 512 | 461.5048 | |
| 674 | 50.495 | 417 | 467.495 | 0 | | 32.9 | 0 | 513 | 461.5048 | |
| 675 | 50.495 | 418 | 467.495 | 0 | | 32.9 | 0 | 513 | 462.5048 | |
| 676 | 50.495 | 418 | 468.495 | 10 | | 32.9 | 0 | 514 | 462.5048 | |
| 677 | 50.495 | 419 | 468.495 | 0 | | 32.9 | 0 | 514 | 463.5048 | |
| 678 | 50.521 | 419 | 469.495 | 10 | | 32.9 | 0 | 515 | 463.5048 | |
| 679 | 50.521 | 420 | 469.521 | 0.254 | | 32.9 | 0 | 515 | 464.4794 | |
| 680 | 50.521 | 420 | 470.521 | 10 | 50.254 | 32.9 | 0 | 516 | 464.4794 | 50.254 |
| 681 | 50.521 | 421 | 470.521 | 0 | | 32.9 | 0 | 516 | 465.4794 | |
| 682 | 50.521 | 421 | 471.521 | 10 | | 32.9 | 0 | 517 | 465.4794 | |
| 683 | 50.521 | 422 | 471.521 | 0 | | 32.9 | 0 | 517 | 466.4794 | |
| 684 | 50.521 | 422 | 472.521 | 10 | | 32.9 | 0 | 518 | 466.4794 | |
| 685 | 50.521 | 423 | 472.521 | 0 | | 32.9 | 0 | 518 | 467.4794 | |
| 686 | 50.521 | 423 | 473.521 | 10 | | 32.9 | 0 | 518 | 467.4794 | C-154 |
| 687 | 50.521 | 423 | 473.521 | 0 | | 32.9 | 0 | 519 | 467.4794 | |
| 688 | 50.521 | 423 | 473.521 | 0 | | 32.9 | 0 | 519 | 468.4794 | |
| 689 | 50.521 | 424 | 473.521 | 0 | | 32.9 | 0 | 520 | 468.4794 | |
| 690 | 50.521 | 424 | 474.521 | 10 | 40 | 32.9 | 0 | 520 | 469.4794 | 40 |
| 691 | 50.521 | 425 | 474.521 | 0 | | 32.9 | 0 | 521 | 469.4794 | |
| 692 | 50.521 | 425 | 475.521 | 10 | | 32.9 | 0 | 521 | 470.4794 | |
| 693 | 50.521 | 426 | 475.521 | 0 | | 32.9 | 0 | 521 | 470.4794 | |
| 694 | 50.521 | 426 | 476.521 | 10 | | 32.9 | 0 | 522 | 470.4794 | |
| 695 | 50.521 | 426 | 476.521 | 0 | | 32.9 | 0 | 522 | 471.4794 | |
| 696 | 50.521 | 427 | 476.521 | 0 | | 32.9 | 0 | 523 | 471.4794 | |
| 697 | 50.521 | 427 | 477.521 | 10 | | 32.9 | 0 | 523 | 472.4794 | |
| 698 | 50.521 | 428 | 477.521 | 0 | | 32.9 | 0 | 524 | 472.4794 | |
| 699 | 50.521 | 429 | 478.521 | 10 | | 32.9 | 0 | 525 | 473.4794 | |
| 700 | 50.521 | 429 | 479.521 | 10 | 50 | 32.9 | 0 | 525 | 474.4794 | 50 |
| 701 | 50.521 | 430 | 479.521 | 0 | | 32.9 | 0 | 526 | 474.4794 | |
| 702 | 50.521 | 431 | 480.521 | 10 | | 32.9 | 0 | 526 | 475.4794 | |
| 703 | 50.521 | 431 | 481.521 | 10 | | 32.9 | 0 | 527 | 475.4794 | |
| 704 | 50.521 | 432 | 481.521 | 0 | | 32.9 | 0 | 528 | 476.4794 | |
| 705 | 50.521 | 432 | 482.521 | 10 | | 32.9 | 0 | 528 | 477.4794 | |
| 706 | 50.521 | 433 | 482.521 | 0 | | 32.9 | 0 | 529 | 477.4794 | |
| 707 | 50.521 | 433 | 483.521 | 10 | | 32.9 | 0 | 529 | 478.4794 | |
| 708 | 50.521 | 434 | 483.521 | 0 | | 32.9 | 0 | 530 | 478.4794 | |
| 709 | 50.521 | 435 | 484.521 | 10 | | 32.9 | 0 | 531 | 479.4794 | |
| 710 | 50.521 | 435 | 485.521 | 10 | 60 | 32.9 | 0 | 531 | 480.4794 | 60 |
| 711 | 50.521 | 436 | 485.521 | 0 | | 32.9 | 0 | 532 | 480.4794 | |
| 712 | 50.521 | 436 | 486.521 | 10 | | 32.9 | 0 | 532 | 481.4794 | |
| 713 | 50.521 | 437 | 486.521 | 0 | | 32.9 | 0 | 533 | 481.4794 | |
| 714 | 50.521 | 437 | 487.521 | 10 | | 32.9 | 0 | 533 | 482.4794 | |
| 715 | 50.521 | 438 | 487.521 | 0 | | 32.9 | 0 | 534 | 482.4794 | |
| 716 | 50.521 | 439 | 488.521 | 10 | | 32.9 | 0 | 535 | 483.4794 | |
| 717 | 50.521 | 439 | 489.521 | 10 | | 32.9 | 0 | 536 | 484.4794 | |
| 718 | 50.521 | 440 | 489.521 | 0 | | 32.9 | 0 | 536 | 485.4794 | |
| 719 | 50.521 | 441 | 490.521 | 10 | | 32.9 | 0 | 537 | 485.4794 | |
| 720 | 50.521 | 442 | 491.521 | 10 | 60 | 32.9 | 0 | 538 | 486.4794 | 60 |
| 721 | 50.521 | 442 | 492.521 | 10 | | 32.9 | 0 | 539 | 487.4794 | |

| | | | | | | | | | | | |
|-----|--------|-----|---------|--------|--------|------|---|----|-----|----------|--------|
| 852 | 61.093 | 546 | 606.093 | 10 | | 36.2 | 1 | | 647 | 584.907 | |
| 853 | 61.093 | 547 | 607.093 | 10 | | 36.3 | 1 | | 648 | 585.907 | |
| 854 | 61.093 | 547 | 608.093 | 10 | | 36.4 | 1 | | 648 | 586.907 | |
| 855 | 65.884 | 543 | 608.093 | 0 | | 36.5 | 1 | | 645 | 586.907 | |
| 856 | 65.884 | 544 | 608.884 | 7.912 | | 36.7 | 1 | | 645 | 579.1158 | |
| 857 | 65.884 | 545 | 609.884 | 10 | | 36.8 | 2 | | 646 | 579.1158 | |
| 858 | 65.884 | 546 | 610.884 | 10 | | 37 | 1 | | 647 | 580.1158 | |
| 859 | 65.884 | 546 | 611.884 | 10 | | 37.1 | 2 | | 648 | 581.1158 | |
| 860 | 65.884 | 547 | 611.884 | 0 | 67.912 | 37.3 | 1 | 12 | 649 | 582.1158 | 79.912 |
| 861 | 65.884 | 548 | 612.884 | 10 | | 37.4 | 2 | | 650 | 583.1158 | |
| 862 | 65.884 | 549 | 613.884 | 10 | | 37.6 | 1 | | 651 | 584.1158 | |
| 863 | 65.884 | 550 | 614.884 | 10 | | 37.8 | 2 | | 652 | 585.1158 | |
| 864 | 65.884 | 551 | 615.884 | 10 | | 37.9 | 2 | | 653 | 586.1158 | |
| 865 | 65.884 | 552 | 616.884 | 10 | | 38.1 | 1 | | 654 | 587.1158 | |
| 866 | 65.884 | 553 | 617.884 | 10 | | 38.2 | 2 | | 655 | 588.1158 | |
| 867 | 65.884 | 554 | 618.884 | 10 | | 38.4 | 1 | | 656 | 589.1158 | |
| 868 | 65.884 | 555 | 619.884 | 10 | | 38.5 | 2 | | 657 | 590.1158 | |
| 869 | 65.884 | 556 | 620.884 | 10 | | 38.7 | 1 | | 658 | 591.1158 | |
| 870 | 65.884 | 556 | 621.884 | 10 | 100 | 38.9 | 2 | 16 | 659 | 592.1158 | 116 |
| 871 | 65.884 | 557 | 621.884 | 0 | | 39 | 2 | | 659 | 593.1158 | |
| 872 | 67.891 | 556 | 622.884 | 10 | | 39.1 | 1 | | 659 | 593.1158 | |
| 873 | 67.891 | 556 | 623.891 | 10.066 | | 39.2 | 1 | | 659 | 591.1092 | |
| 874 | 71.599 | 553 | 623.891 | 0 | | 39.3 | 1 | | 657 | 591.1092 | |
| 875 | 71.599 | 554 | 624.599 | 7.084 | | 39.5 | 1 | | 657 | 585.4008 | |
| 876 | 71.599 | 554 | 625.599 | 10 | | 39.7 | 2 | | 658 | 585.4008 | |
| 877 | 71.599 | 555 | 625.599 | 0 | | 39.8 | 2 | | 659 | 586.4008 | |
| 878 | 71.599 | 556 | 626.599 | 10 | | 40 | 1 | | 660 | 587.4008 | |
| 879 | 71.599 | 556 | 627.599 | 10 | | 40.1 | 2 | | 661 | 588.4008 | |
| 880 | 71.599 | 557 | 627.599 | 0 | 57.15 | 40.2 | 1 | 14 | 661 | 589.4008 | 71.15 |
| 881 | 71.599 | 558 | 628.599 | 10 | | 40.4 | 1 | | 662 | 589.4008 | |
| 882 | 71.599 | 559 | 629.599 | 10 | | 40.6 | 2 | | 663 | 590.4008 | |
| 883 | 71.599 | 559 | 630.599 | 10 | | 40.7 | 2 | | 664 | 591.4008 | |
| 884 | 71.599 | 560 | 630.599 | 0 | | 40.8 | 1 | | 665 | 592.4008 | C-157 |
| 885 | 71.599 | 561 | 631.599 | 10 | | 41 | 1 | | 666 | 593.4008 | |
| 886 | 71.599 | 562 | 632.599 | 10 | | 41.1 | 2 | | 667 | 594.4008 | |
| 887 | 71.599 | 563 | 633.599 | 10 | | 41.3 | 1 | | 668 | 595.4008 | |
| 888 | 71.853 | 564 | 634.599 | 10 | | 41.4 | 2 | | 669 | 596.4008 | |
| 889 | 71.904 | 565 | 635.853 | 12.54 | | 41.6 | 1 | | 669 | 597.1468 | |
| 890 | 71.904 | 566 | 636.904 | 10.508 | 93.048 | 41.8 | 2 | 15 | 670 | 597.096 | 108.05 |
| 891 | 71.904 | 566 | 637.904 | 10 | | 42 | 2 | | 671 | 598.096 | |
| 892 | 71.955 | 567 | 637.904 | 0 | | 42.1 | 2 | | 672 | 599.096 | |
| 893 | 71.955 | 568 | 638.955 | 10.508 | | 42.2 | 1 | | 673 | 600.0452 | |
| 894 | 71.955 | 569 | 639.955 | 10 | | 42.4 | 1 | | 674 | 601.0452 | |
| 895 | 71.955 | 570 | 640.955 | 10 | | 42.5 | 2 | | 675 | 602.0452 | |
| 896 | 72.183 | 570 | 641.955 | 10 | | 42.7 | 1 | | 676 | 603.0452 | |
| 897 | 72.234 | 571 | 642.183 | 2.286 | | 42.8 | 2 | | 677 | 603.8166 | |
| 898 | 72.234 | 572 | 643.234 | 10.508 | | 43 | 1 | | 678 | 604.7658 | |
| 899 | 72.234 | 573 | 644.234 | 10 | | 43.2 | 2 | | 679 | 605.7658 | |
| 900 | 72.234 | 574 | 645.234 | 10 | 83.302 | 43.4 | 2 | 16 | 680 | 606.7658 | 99.302 |
| 901 | 72.234 | 574 | 646.234 | 10 | | 43.5 | 2 | | 681 | 607.7658 | |
| 902 | 72.26 | 575 | 646.234 | 0 | | 43.6 | 1 | | 682 | 608.7658 | |
| 903 | 73.352 | 574 | 647.26 | 10.254 | | 43.7 | 1 | | 682 | 609.7404 | |
| 904 | 73.352 | 575 | 647.352 | 0.922 | | 43.9 | 1 | | 682 | 608.6482 | |
| 905 | 73.352 | 576 | 648.352 | 10 | | 44.1 | 2 | | 683 | 608.6482 | |
| 906 | 73.352 | 577 | 649.352 | 10 | | 44.1 | 2 | | 684 | 609.6482 | |
| 907 | 73.352 | 577 | 650.352 | 10 | | 44.3 | 0 | | 684 | 610.6482 | |
| 908 | 73.352 | 578 | 650.352 | 0 | | 44.4 | 2 | | 685 | 610.6482 | |
| 909 | 73.352 | 579 | 651.352 | 10 | | 44.5 | 1 | | 686 | 611.6482 | |
| 910 | 73.352 | 580 | 652.352 | 10 | 71.176 | 44.6 | 1 | 13 | 687 | 612.6482 | 84.176 |
| 911 | 73.352 | 580 | 653.352 | 10 | | 44.8 | 1 | | 688 | 613.6482 | |
| 912 | 73.352 | 581 | 653.352 | 0 | | 45 | 2 | | 690 | 614.6482 | |
| 913 | 74.215 | 581 | 654.352 | 10 | | 45 | 2 | | 690 | 616.6482 | |
| 914 | 74.596 | 581 | 655.215 | 8.636 | | 45.1 | 0 | | 691 | 615.7846 | |
| 915 | 74.774 | 582 | 655.596 | 3.81 | | 45.3 | 1 | | 691 | 616.4036 | |
| 916 | 74.952 | 582 | 656.774 | 11.778 | | 45.4 | 2 | | 692 | 616.2258 | |

| | | | | | | | | | | |
|-----|--------|-----|---------|--------|--------|------|---|----|-----|-----------------------|
| 917 | 74.952 | 582 | 656.952 | 1.778 | | 45.4 | 1 | | 693 | 617.048 |
| 918 | 74.977 | 583 | 656.952 | 0 | | 45.6 | 0 | | 694 | 618.048 |
| 919 | 74.977 | 583 | 657.977 | 10.254 | | 45.7 | 2 | | 694 | 619.0226 |
| 920 | 74.977 | 584 | 657.977 | 0 | 56.256 | 45.8 | 1 | 12 | 695 | 619.0226 68.256 |
| 921 | 74.977 | 585 | 658.977 | 10 | | 45.9 | 1 | | 696 | 620.0226 |
| 922 | 74.977 | 585 | 659.977 | 10 | | 45.9 | 1 | | 697 | 621.0226 |
| 923 | 75.028 | 586 | 659.977 | 0 | | 46 | 0 | | 697 | 622.0226 |
| 924 | 75.028 | 587 | 661.028 | 10.508 | | 46.1 | 1 | | 698 | 621.9718 |
| 925 | 75.028 | 587 | 662.028 | 10 | | 46.2 | 1 | | 699 | 622.9718 |
| 926 | 75.028 | 588 | 662.028 | 0 | | 46.2 | 1 | | 700 | 623.9718 |
| 927 | 75.028 | 589 | 663.028 | 10 | | 46.3 | 0 | | 700 | 624.9718 |
| 928 | 75.028 | 590 | 664.028 | 10 | | 46.5 | 1 | | 701 | 624.9718 |
| 929 | 75.028 | 591 | 665.028 | 10 | | 46.5 | 2 | | 702 | 625.9718 |
| 930 | 75.028 | 591 | 666.028 | 10 | 80.508 | 46.6 | 0 | 8 | 703 | 626.9718 88.508 |
| 931 | 75.028 | 592 | 666.028 | 0 | | 46.7 | 1 | | 704 | 627.9718 |
| 932 | 75.028 | 593 | 667.028 | 10 | | 46.7 | 1 | | 705 | 628.9718 |
| 933 | 75.028 | 594 | 668.028 | 10 | | 46.8 | 0 | | 706 | 629.9718 |
| 934 | 75.028 | 594 | 669.028 | 10 | | 46.9 | 1 | | 707 | 630.9718 |
| 935 | 75.028 | 595 | 669.028 | 0 | | 46.9 | 1 | | 707 | 631.9718 |
| 936 | 75.028 | 596 | 670.028 | 10 | | 47 | 0 | | 708 | 631.9718 |
| 937 | 75.028 | 596 | 671.028 | 10 | | 47.1 | 1 | | 709 | 632.9718 |
| 938 | 75.028 | 597 | 671.028 | 0 | | 47.2 | 1 | | 709 | 633.9718 |
| 939 | 75.028 | 598 | 672.028 | 10 | | 47.2 | 1 | | 710 | 633.9718 |
| 940 | 75.028 | 599 | 673.028 | 10 | 70 | 47.4 | 0 | 7 | 711 | 634.9718 77 |
| 941 | 75.028 | 599 | 674.028 | 10 | | 47.4 | 2 | | 711 | 635.9718 |
| 942 | 75.028 | 600 | 674.028 | 0 | | 47.5 | 0 | | 712 | 635.9718 |
| 943 | 75.028 | 601 | 675.028 | 10 | | 47.6 | 1 | | 713 | 636.9718 |
| 944 | 75.028 | 601 | 676.028 | 10 | | 47.7 | 1 | | 713 | 637.9718 |
| 945 | 75.028 | 602 | 676.028 | 0 | | 47.8 | 1 | | 714 | 637.9718 |
| 946 | 75.104 | 603 | 677.028 | 10 | | 47.9 | 1 | | 715 | 638.9718 |
| 947 | 76.146 | 602 | 678.104 | 10.762 | | 47.9 | 1 | | 714 | 639.8956 |
| 948 | 76.146 | 602 | 678.146 | 0.414 | | 48.2 | 0 | | 715 | 637.8542 |
| 949 | 76.146 | 602 | 678.146 | 0 | | 48.3 | 3 | | 715 | 638.8542 |
| 950 | 76.146 | 603 | 678.146 | 0 | 51.176 | 48.4 | 1 | 11 | 716 | 638.8542 62.176 C-158 |
| 951 | 76.146 | 604 | 679.146 | 10 | | 48.5 | 1 | | 716 | 639.8542 |
| 952 | 76.146 | 604 | 680.146 | 10 | | 48.6 | 1 | | 717 | 639.8542 |
| 953 | 76.146 | 605 | 680.146 | 0 | | 48.7 | 1 | | 718 | 640.8542 |
| 954 | 76.146 | 605 | 681.146 | 10 | | 48.7 | 1 | | 719 | 641.8542 |
| 955 | 76.146 | 606 | 681.146 | 0 | | 48.7 | 0 | | 719 | 642.8542 |
| 956 | 76.146 | 607 | 682.146 | 10 | | 48.8 | 0 | | 720 | 642.8542 |
| 957 | 76.146 | 607 | 683.146 | 10 | | 48.8 | 1 | | 720 | 643.8542 |
| 958 | 76.146 | 608 | 683.146 | 0 | | 48.8 | 0 | | 721 | 643.8542 |
| 959 | 76.146 | 609 | 684.146 | 10 | | 48.9 | 0 | | 722 | 644.8542 |
| 960 | 76.146 | 609 | 685.146 | 10 | 70 | 48.9 | 1 | 6 | 722 | 645.8542 76 |
| 961 | 76.146 | 610 | 685.146 | 0 | | 48.9 | 0 | | 722 | 645.8542 |
| 962 | 76.146 | 610 | 686.146 | 10 | | 48.9 | 0 | | 723 | 645.8542 |
| 963 | 76.146 | 611 | 686.146 | 0 | | 49 | 0 | | 724 | 646.8542 |
| 964 | 76.146 | 611 | 687.146 | 10 | | 49 | 1 | | 724 | 647.8542 |
| 965 | 76.146 | 612 | 687.146 | 0 | | 49 | 0 | | 725 | 647.8542 |
| 966 | 76.146 | 612 | 688.146 | 10 | | 49 | 0 | | 725 | 648.8542 |
| 967 | 76.146 | 613 | 688.146 | 0 | | 49.1 | 0 | | 726 | 648.8542 |
| 968 | 76.146 | 614 | 689.146 | 10 | | 49.1 | 1 | | 726 | 649.8542 |
| 969 | 76.146 | 614 | 690.146 | 10 | | 49.1 | 0 | | 727 | 649.8542 |
| 970 | 76.197 | 614 | 690.146 | 0 | 50 | 49.1 | 0 | 2 | 727 | 650.8542 52 |
| 971 | 76.197 | 615 | 690.197 | 0.508 | | 49.1 | 0 | | 728 | 650.8034 |
| 972 | 76.197 | 616 | 691.197 | 10 | | 49.2 | 0 | | 728 | 651.8034 |
| 973 | 76.197 | 616 | 692.197 | 10 | | 49.2 | 1 | | 729 | 651.8034 |
| 974 | 76.247 | 617 | 692.197 | 0 | | 49.2 | 0 | | 729 | 652.8034 |
| 975 | 76.247 | 617 | 693.247 | 10.508 | | 49.2 | 0 | | 730 | 652.7526 |
| 976 | 76.247 | 618 | 693.247 | 0 | | 49.2 | 0 | | 730 | 653.7526 |
| 977 | 76.247 | 619 | 694.247 | 10 | | 49.3 | 0 | | 731 | 653.7526 |
| 978 | 76.247 | 619 | 695.247 | 10 | | 49.3 | 1 | | 732 | 654.7526 |
| 979 | 76.247 | 620 | 695.247 | 0 | | 49.3 | 0 | | 733 | 655.7526 |
| 980 | 76.247 | 620 | 696.247 | 10 | 61.016 | 49.3 | 0 | 2 | 733 | 656.7526 63.016 |
| 981 | 76.247 | 620 | 696.247 | 0 | | 49.3 | 0 | | 733 | 656.7526 |

| | | | | | | | | | | | |
|------|--------|-----|---------|--------|--------|------|---|---|-----|----------|--------|
| 982 | 76.247 | 621 | 696.247 | 0 | | 49.3 | 0 | | 734 | 656.7526 | |
| 983 | 76.247 | 621 | 697.247 | 10 | | 49.4 | 0 | | 734 | 657.7526 | |
| 984 | 76.247 | 622 | 697.247 | 0 | | 49.4 | 1 | | 735 | 657.7526 | |
| 985 | 76.247 | 622 | 698.247 | 10 | | 49.4 | 0 | | 735 | 658.7526 | |
| 986 | 76.247 | 623 | 698.247 | 0 | | 49.4 | 0 | | 735 | 658.7526 | |
| 987 | 76.247 | 623 | 699.247 | 10 | | 49.4 | 0 | | 736 | 658.7526 | |
| 988 | 76.247 | 623 | 699.247 | 0 | | 49.4 | 0 | | 736 | 659.7526 | |
| 989 | 76.247 | 624 | 699.247 | 0 | | 49.4 | 0 | | 737 | 659.7526 | |
| 990 | 76.247 | 624 | 700.247 | 10 | 40 | 49.4 | 0 | 1 | 737 | 660.7526 | 41 |
| 991 | 76.247 | 625 | 700.247 | 0 | | 49.4 | 0 | | 738 | 660.7526 | |
| 992 | 76.247 | 625 | 701.247 | 10 | | 49.4 | 0 | | 738 | 661.7526 | |
| 993 | 76.247 | 626 | 701.247 | 0 | | 49.4 | 0 | | 739 | 661.7526 | |
| 994 | 76.247 | 626 | 702.247 | 10 | | 49.4 | 0 | | 739 | 662.7526 | |
| 995 | 76.298 | 626 | 702.247 | 0 | | 49.4 | 0 | | 740 | 662.7526 | |
| 996 | 76.298 | 626 | 702.298 | 0.508 | | 49.4 | 0 | | 740 | 663.7018 | |
| 997 | 76.298 | 627 | 702.298 | 0 | | 49.4 | 0 | | 740 | 663.7018 | |
| 998 | 76.298 | 627 | 703.298 | 10 | | 49.4 | 0 | | 740 | 663.7018 | |
| 999 | 76.324 | 627 | 703.298 | 0 | | 49.4 | 0 | | 741 | 663.7018 | |
| 1000 | 76.324 | 628 | 703.324 | 0.254 | 30.762 | 49.4 | 0 | 0 | 741 | 664.6764 | 30.762 |
| 1001 | 76.324 | 628 | 704.324 | 10 | | 49.4 | 0 | | 741 | 664.6764 | |
| 1002 | 76.324 | 628 | 704.324 | 0 | | 49.4 | 0 | | 741 | 664.6764 | |
| 1003 | 76.324 | 629 | 704.324 | 0 | | 49.4 | 0 | | 742 | 664.6764 | |
| 1004 | 76.324 | 629 | 705.324 | 10 | | 49.4 | 0 | | 742 | 665.6764 | |
| 1005 | 76.324 | 629 | 705.324 | 0 | | 49.4 | 0 | | 743 | 665.6764 | |
| 1006 | 76.324 | 630 | 705.324 | 0 | | 49.4 | 0 | | 743 | 666.6764 | |
| 1007 | 76.324 | 630 | 706.324 | 10 | | 49.4 | 0 | | 744 | 666.6764 | |
| 1008 | 76.324 | 630 | 706.324 | 0 | | 49.4 | 0 | | 745 | 667.6764 | |
| 1009 | 76.324 | 631 | 706.324 | 0 | | 49.4 | 0 | | 746 | 668.6764 | |
| 1010 | 76.324 | 631 | 707.324 | 10 | 40 | 49.4 | 0 | 0 | 746 | 669.6764 | 40 |
| 1011 | 76.324 | 631 | 707.324 | 0 | | 49.4 | 0 | | 746 | 669.6764 | |
| 1012 | 76.324 | 632 | 707.324 | 0 | | 49.4 | 0 | | 747 | 669.6764 | |
| 1013 | 76.501 | 631 | 708.324 | 10 | | 49.4 | 0 | | 746 | 670.6764 | |
| 1014 | 76.501 | 632 | 707.501 | -8.222 | | 49.4 | 0 | | 747 | 669.4986 | |
| 1015 | 76.501 | 632 | 708.501 | 10 | | 49.4 | 0 | | 747 | 670.4986 | |
| 1016 | 76.806 | 632 | 708.501 | 0 | | 49.4 | 0 | | 747 | 670.4986 | C-159 |
| 1017 | 76.832 | 632 | 708.806 | 3.048 | | 49.4 | 0 | | 747 | 670.1938 | |
| 1018 | 76.832 | 632 | 708.832 | 0.254 | | 49.4 | 0 | | 747 | 670.1684 | |
| 1019 | 76.832 | 632 | 708.832 | 0 | | 49.4 | 0 | | 748 | 670.1684 | |
| 1020 | 76.832 | 632 | 708.832 | 0 | 25.08 | 49.4 | 0 | 0 | 748 | 671.1684 | 25.08 |
| 1021 | 76.832 | 633 | 708.832 | 0 | | 49.4 | 0 | | 748 | 671.1684 | |
| 1022 | 76.832 | 633 | 709.832 | 10 | | 49.4 | 0 | | 749 | 671.1684 | |

end

| <u>SCWMATM226</u> | | | | <u>ET=27.337 [7T.20.3E], Increase = -56.4 [-67.4%]</u> | | | | | | | |
|-------------------|--------|----------|---------|--------------------------------------------------------|-------------|----------|-------------|-------------|-----------|-----------|----------|
| Time | CumP(C | sum(vTop | Cumm E | Daily E | 10day E | sum(vRoc | Daily T | 10day T | sum(vBot) | Cum Disct | 10day ET |
| [day] | [cm] | [L] | [cm] | [mm/day] | [mm/10d [L] | [mm] | [mm/10d [L] | [mm/10d [L] | [cm] | [mm/10d] | |
| 650 | 50.165 | -16.6 | 33.565 | 1 | 1.778 | 27.8 | 0 | 0 | -34.9 | -84.965 | 1.778 |
| 651 | 50.47 | -16.6 | 33.565 | 0 | | 27.8 | 0 | | -35 | -85.065 | |
| 652 | 50.495 | -16.6 | 33.8698 | 3.048 | | 27.8 | 0 | | -35 | -85.4698 | |
| 653 | 50.495 | -16.6 | 33.8952 | 0.254 | | 27.8 | 0 | | -35.1 | -85.4952 | |
| 654 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35.1 | -85.5952 | |
| 655 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35.1 | -85.5952 | |
| 656 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35.1 | -85.5952 | |
| 657 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35.1 | -85.5952 | |
| 658 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35 | -85.5952 | |
| 659 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35.1 | -85.4952 | |
| 660 | 50.495 | -16.6 | 33.8952 | 0 | 3.302 | 27.8 | 0 | 0 | -35.1 | -85.5952 | 3.302 |
| 661 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35.2 | -85.5952 | |
| 662 | 50.495 | -16.6 | 33.8952 | 0 | | 27.8 | 0 | | -35.2 | -85.6952 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|------|---|---|-------|----------|--------------|
| 793 | 55.095 | -16.7 | 38.3954 | 0 | | 28.8 | 0 | | -44.1 | -98.8954 | |
| 794 | 55.095 | -16.7 | 38.3954 | 0 | | 28.8 | 1 | | -44.4 | -99.1954 | |
| 795 | 55.095 | -16.7 | 38.3954 | 0 | | 28.8 | 0 | | -44.6 | -99.4954 | |
| 796 | 55.095 | -16.7 | 38.3954 | 0 | | 28.8 | 0 | | -44.8 | -99.6954 | |
| 797 | 55.095 | -16.7 | 38.3954 | 0 | | 28.8 | 0 | | -45.1 | -99.8954 | |
| 798 | 55.095 | -16.7 | 38.3954 | 0 | | 28.8 | 0 | | -45.2 | -100.195 | |
| 799 | 55.251 | -16.7 | 38.3954 | 0 | | 28.9 | 0 | | -45.3 | -100.295 | |
| 800 | 55.911 | -16.7 | 38.551 | 1.556 | 1.556 | 28.9 | 1 | 2 | -45.3 | -100.551 | 3.556 |
| 801 | 55.911 | -16.7 | 39.2114 | 6.604 | | 28.9 | 0 | | -44.7 | -101.211 | |
| 802 | 55.911 | -16.7 | 39.2114 | 0 | | 28.9 | 0 | | -44.8 | -100.611 | |
| 803 | 55.911 | -16.7 | 39.2114 | 0 | | 28.9 | 0 | | -44 | -100.711 | |
| 804 | 56.165 | -16.7 | 39.2114 | 0 | | 28.9 | 0 | | -43.2 | -99.9114 | |
| 805 | 56.216 | -16.7 | 39.4654 | 2.54 | | 28.9 | 0 | | -42.7 | -99.3654 | |
| 806 | 56.978 | -16.7 | 39.5162 | 0.508 | | 28.9 | 0 | | -42.4 | -98.9162 | |
| 807 | 56.978 | -16.7 | 40.2782 | 7.62 | | 28.9 | 0 | | -42.2 | -99.3782 | |
| 808 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -42 | -99.1782 | |
| 809 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 1 | | -42.2 | -98.9782 | |
| 810 | 56.978 | -16.7 | 40.2782 | 0 | 17.272 | 29 | 0 | 1 | -42.6 | -99.1782 | 18.272 |
| 811 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -43.3 | -99.5782 | |
| 812 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -43.8 | -100.278 | |
| 813 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -44.2 | -100.778 | |
| 814 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -44.7 | -101.178 | |
| 815 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -45.1 | -101.678 | |
| 816 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -45.6 | -102.078 | |
| 817 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -46 | -102.578 | |
| 818 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -46.4 | -102.978 | |
| 819 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -46.8 | -103.378 | |
| 820 | 56.978 | -16.7 | 40.2782 | 0 | 0 | 29 | 0 | 0 | -47.1 | -103.778 | 0 |
| 821 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -47.3 | -104.078 | |
| 822 | 56.978 | -16.7 | 40.2782 | 0 | | 29 | 0 | | -47.2 | -104.278 | |
| 823 | 56.978 | -16.7 | 40.2782 | 0 | | 29.1 | 0 | | -47.4 | -104.178 | |
| 824 | 57.994 | -16.8 | 40.2782 | 0 | | 29.1 | 1 | | -47.6 | -104.378 | |
| 825 | 58.35 | -16.8 | 41.1942 | 9.16 | | 29.1 | 0 | | -47.5 | -105.594 | |
| 826 | 58.35 | -16.8 | 41.5498 | 3.556 | | 29.1 | 0 | | -47.7 | -105.85 | |
| 827 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -47.4 | -106.05 | |
| 828 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -47.2 | -105.75 | |
| 829 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -47 | -105.55 | |
| 830 | 58.35 | -16.8 | 41.5498 | 0 | 12.716 | 29.1 | 0 | 1 | -47.1 | -105.35 | 13.716 C-162 |
| 831 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -47.3 | -105.45 | |
| 832 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -47.7 | -105.65 | |
| 833 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -48 | -106.05 | |
| 834 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -48.2 | -106.35 | |
| 835 | 58.35 | -16.8 | 41.5498 | 0 | | 29.1 | 0 | | -48.4 | -106.55 | |
| 836 | 59.874 | -17.2 | 41.5498 | 0 | | 29.1 | 0 | | -48.4 | -106.75 | |
| 837 | 59.874 | -16.9 | 42.6738 | 11.24 | | 29.1 | 0 | | -48.1 | -108.274 | |
| 838 | 59.874 | -16.9 | 42.9738 | 3 | | 29.2 | 0 | | -47.7 | -107.974 | |
| 839 | 59.874 | -16.9 | 42.9738 | 0 | | 29.2 | 1 | | -46.8 | -107.574 | |
| 840 | 59.874 | -16.9 | 42.9738 | 0 | 14.24 | 29.2 | 0 | 1 | -45.6 | -106.674 | 15.24 |
| 841 | 59.899 | -16.9 | 42.9738 | 0 | | 29.2 | 0 | | -44.4 | -105.474 | |
| 842 | 60.153 | -16.9 | 42.9992 | 0.254 | | 29.2 | 0 | | -43.2 | -104.299 | |
| 843 | 60.255 | -16.9 | 43.2532 | 2.54 | | 29.2 | 0 | | -41.9 | -103.353 | |
| 844 | 60.255 | -16.9 | 43.3548 | 1.016 | | 29.2 | 0 | | -40.8 | -102.155 | |
| 845 | 60.255 | -16.9 | 43.3548 | 0 | | 29.2 | 0 | | -39.7 | -101.055 | |
| 846 | 60.306 | -16.9 | 43.3548 | 0 | | 29.2 | 0 | | -39.3 | -99.9548 | |
| 847 | 61.068 | -16.9 | 43.4056 | 0.508 | | 29.2 | 0 | | -39.2 | -99.6056 | |
| 848 | 61.093 | -16.9 | 44.1676 | 7.62 | | 29.2 | 0 | | -39 | -100.268 | |
| 849 | 61.093 | -16.9 | 44.193 | 0.254 | | 29.2 | 0 | | -38.7 | -100.093 | |
| 850 | 61.093 | -16.9 | 44.193 | 0 | 12.192 | 29.3 | 0 | 0 | -38.3 | -99.793 | 12.192 |
| 851 | 61.093 | -16.9 | 44.193 | 0 | | 29.3 | 1 | | -37.9 | -99.393 | |
| 852 | 61.093 | -16.9 | 44.193 | 0 | | 29.3 | 0 | | -37.7 | -98.993 | |
| 853 | 61.093 | -16.9 | 44.193 | 0 | | 29.3 | 0 | | -37.9 | -98.793 | |
| 854 | 61.093 | -16.9 | 44.193 | 0 | | 29.3 | 0 | | -38.9 | -98.993 | |
| 855 | 65.884 | -21.1 | 44.193 | 0 | | 29.3 | 0 | | -39.6 | -99.993 | |
| 856 | 65.884 | -20.2 | 44.7842 | 5.912 | | 29.4 | 0 | | -39.6 | -105.484 | |
| 857 | 65.884 | -19.9 | 45.6842 | 9 | | 29.5 | 1 | | -38.1 | -105.484 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|------|---|---|-------|----------|--------|
| 858 | 65.884 | -19.8 | 45.9842 | 3 | | 29.5 | 1 | | -37.1 | -103.984 | |
| 859 | 65.884 | -19.8 | 46.0842 | 1 | | 29.6 | 0 | | -36.6 | -102.984 | |
| 860 | 65.884 | -19.8 | 46.0842 | 0 | 18.912 | 29.7 | 1 | 4 | -36.4 | -102.484 | 22.912 |
| 861 | 65.884 | -19.7 | 46.0842 | 0 | | 29.8 | 1 | | -36.9 | -102.284 | |
| 862 | 65.884 | -19.7 | 46.1842 | 1 | | 29.8 | 1 | | -37.9 | -102.784 | |
| 863 | 65.884 | -19.7 | 46.1842 | 0 | | 29.9 | 0 | | -38.8 | -103.784 | |
| 864 | 65.884 | -19.7 | 46.1842 | 0 | | 30 | 1 | | -39.7 | -104.684 | |
| 865 | 65.884 | -19.7 | 46.1842 | 0 | | 30.1 | 1 | | -40.4 | -105.584 | |
| 866 | 65.884 | -19.7 | 46.1842 | 0 | | 30.1 | 1 | | -41.2 | -106.284 | |
| 867 | 65.884 | -19.7 | 46.1842 | 0 | | 30.2 | 0 | | -42 | -107.084 | |
| 868 | 65.884 | -19.7 | 46.1842 | 0 | | 30.3 | 1 | | -42.8 | -107.884 | |
| 869 | 65.884 | -19.7 | 46.1842 | 0 | | 30.4 | 1 | | -43.5 | -108.684 | |
| 870 | 65.884 | -19.7 | 46.1842 | 0 | 1 | 30.4 | 1 | 8 | -43.9 | -109.384 | 9 |
| 871 | 65.884 | -19.7 | 46.1842 | 0 | | 30.5 | 0 | | -44.4 | -109.784 | |
| 872 | 67.891 | -21.2 | 46.1842 | 0 | | 30.5 | 1 | | -44.8 | -110.284 | |
| 873 | 67.891 | -20.7 | 46.6908 | 5.066 | | 30.6 | 0 | | -44.8 | -112.691 | |
| 874 | 71.599 | -23.8 | 47.1908 | 5 | | 30.7 | 1 | | -44.7 | -112.691 | |
| 875 | 71.599 | -23.2 | 47.7992 | 6.084 | | 30.7 | 1 | | -44.6 | -116.299 | |
| 876 | 71.599 | -22.6 | 48.3992 | 6 | | 30.8 | 0 | | -44.7 | -116.199 | |
| 877 | 71.599 | -22.5 | 48.9992 | 6 | | 30.9 | 1 | | -45 | -116.299 | |
| 878 | 71.599 | -22.4 | 49.0992 | 1 | | 31 | 1 | | -45.2 | -116.599 | |
| 879 | 71.599 | -22.3 | 49.1992 | 1 | | 31.1 | 1 | | -45.1 | -116.799 | |
| 880 | 71.599 | -22.3 | 49.2992 | 1 | 31.15 | 31.1 | 1 | 7 | -44.9 | -116.699 | 38.15 |
| 881 | 71.599 | -22.2 | 49.2992 | 0 | | 31.2 | 0 | | -44.6 | -116.499 | |
| 882 | 71.599 | -22.2 | 49.3992 | 1 | | 31.3 | 1 | | -44.8 | -116.199 | |
| 883 | 71.599 | -22.1 | 49.3992 | 0 | | 31.4 | 1 | | -44.9 | -116.399 | |
| 884 | 71.599 | -22.1 | 49.4992 | 1 | | 31.5 | 1 | | -45 | -116.499 | |
| 885 | 71.599 | -22.1 | 49.4992 | 0 | | 31.6 | 1 | | -45.1 | -116.599 | |
| 886 | 71.599 | -22.1 | 49.4992 | 0 | | 31.7 | 1 | | -45.3 | -116.699 | |
| 887 | 71.599 | -22.1 | 49.4992 | 0 | | 31.7 | 1 | | -45.6 | -116.899 | |
| 888 | 71.853 | -22.1 | 49.4992 | 0 | | 31.8 | 0 | | -45.9 | -117.199 | |
| 889 | 71.904 | -22.1 | 49.7532 | 2.54 | | 31.9 | 1 | | -45.9 | -117.753 | |
| 890 | 71.904 | -22.1 | 49.804 | 0.508 | 5.048 | 32 | 1 | 8 | -46.1 | -117.804 | 13.048 |
| 891 | 71.904 | -22 | 49.804 | 0 | | 32.1 | 1 | | -46.2 | -118.004 | |
| 892 | 71.955 | -22 | 49.904 | 1 | | 32.1 | 1 | | -46.2 | -118.104 | |
| 893 | 71.955 | -22 | 49.9548 | 0.508 | | 32.2 | 0 | | -46.2 | -118.155 | |
| 894 | 71.955 | -22 | 49.9548 | 0 | | 32.3 | 1 | | -46.4 | -118.155 | |
| 895 | 71.955 | -22 | 49.9548 | 0 | | 32.3 | 1 | | -46.6 | -118.355 | |
| 896 | 72.183 | -22 | 49.9548 | 0 | | 32.4 | 0 | | -46.8 | -118.555 | C-163 |
| 897 | 72.234 | -22 | 50.1834 | 2.286 | | 32.5 | 1 | | -47 | -118.983 | |
| 898 | 72.234 | -22 | 50.2342 | 0.508 | | 32.6 | 1 | | -47 | -119.234 | |
| 899 | 72.234 | -22 | 50.2342 | 0 | | 32.6 | 1 | | -47.3 | -119.234 | |
| 900 | 72.234 | -22 | 50.2342 | 0 | 4.302 | 32.7 | 0 | 7 | -47.3 | -119.534 | 11.302 |
| 901 | 72.234 | -22 | 50.2342 | 0 | | 32.8 | 1 | | -47.6 | -119.534 | |
| 902 | 72.26 | -22 | 50.2342 | 0 | | 32.8 | 1 | | -47.9 | -119.834 | |
| 903 | 73.352 | -22.6 | 50.2596 | 0.254 | | 32.9 | 0 | | -48.2 | -120.16 | |
| 904 | 73.352 | -22.3 | 50.7518 | 4.922 | | 33 | 1 | | -47.9 | -121.552 | |
| 905 | 73.352 | -22.2 | 51.0518 | 3 | | 33 | 1 | | -47.5 | -121.252 | |
| 906 | 73.352 | -22.2 | 51.1518 | 1 | | 33.1 | 0 | | -47.1 | -120.852 | |
| 907 | 73.352 | -22.2 | 51.1518 | 0 | | 33.1 | 1 | | -47.2 | -120.452 | |
| 908 | 73.352 | -22.2 | 51.1518 | 0 | | 33.2 | 0 | | -47.5 | -120.552 | |
| 909 | 73.352 | -22.2 | 51.1518 | 0 | | 33.2 | 1 | | -47.7 | -120.852 | |
| 910 | 73.352 | -22.2 | 51.1518 | 0 | 9.176 | 33.3 | 0 | 6 | -47.9 | -121.052 | 15.176 |
| 911 | 73.352 | -22.2 | 51.1518 | 0 | | 33.3 | 1 | | -48.2 | -121.252 | |
| 912 | 73.352 | -22.2 | 51.1518 | 0 | | 33.4 | 0 | | -48.5 | -121.552 | |
| 913 | 74.215 | -22.6 | 51.1518 | 0 | | 33.4 | 1 | | -48.4 | -121.852 | |
| 914 | 74.596 | -22.4 | 51.6154 | 4.636 | | 33.5 | 0 | | -48.2 | -122.615 | |
| 915 | 74.774 | -22.3 | 52.1964 | 5.81 | | 33.5 | 1 | | -48.1 | -122.796 | |
| 916 | 74.952 | -22.3 | 52.4742 | 2.778 | | 33.6 | 0 | | -48.1 | -122.874 | |
| 917 | 74.952 | -22.3 | 52.652 | 1.778 | | 33.6 | 1 | | -48.1 | -123.052 | |
| 918 | 74.977 | -22.3 | 52.652 | 0 | | 33.7 | 0 | | -47.5 | -123.052 | |
| 919 | 74.977 | -22.2 | 52.6774 | 0.254 | | 33.8 | 1 | | -47.2 | -122.477 | |
| 920 | 74.977 | -22.2 | 52.7774 | 1 | 16.256 | 33.8 | 1 | 6 | -46.9 | -122.177 | 22.256 |
| 921 | 74.977 | -22.2 | 52.7774 | 0 | | 33.9 | 0 | | -46.8 | -121.877 | |
| 922 | 74.977 | -22.2 | 52.7774 | 0 | | 33.9 | 1 | | -46.7 | -121.777 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|------|---|---|-------|----------|-------|
| 923 | 75.028 | -22.2 | 52.7774 | 0 | | 33.9 | 0 | | -46.6 | -121.677 | |
| 924 | 75.028 | -22.2 | 52.8282 | 0.508 | | 34 | 0 | | -46.9 | -121.628 | |
| 925 | 75.028 | -22.2 | 52.8282 | 0 | | 34 | 1 | | -47.4 | -121.928 | |
| 926 | 75.028 | -22.2 | 52.8282 | 0 | | 34.1 | 0 | | -47.5 | -122.428 | |
| 927 | 75.028 | -22.2 | 52.8282 | 0 | | 34.1 | 1 | | -47.5 | -122.528 | |
| 928 | 75.028 | -22.2 | 52.8282 | 0 | | 34.2 | 0 | | -47.7 | -122.528 | |
| 929 | 75.028 | -22.2 | 52.8282 | 0 | | 34.2 | 1 | | -47.6 | -122.728 | |
| 930 | 75.028 | -22.2 | 52.8282 | 0 | 0.508 | 34.2 | 0 | 4 | -47.4 | -122.628 | 4.508 |
| 931 | 75.028 | -22.2 | 52.8282 | 0 | | 34.3 | 0 | | -47.3 | -122.428 | |
| 932 | 75.028 | -22.2 | 52.8282 | 0 | | 34.3 | 1 | | -47.4 | -122.328 | |
| 933 | 75.028 | -22.2 | 52.8282 | 0 | | 34.3 | 0 | | -46.4 | -122.428 | |
| 934 | 75.028 | -22.2 | 52.8282 | 0 | | 34.3 | 0 | | -45 | -121.428 | |
| 935 | 75.028 | -22.2 | 52.8282 | 0 | | 34.4 | 0 | | -43.7 | -120.028 | |
| 936 | 75.028 | -22.2 | 52.8282 | 0 | | 34.4 | 1 | | -42.8 | -118.728 | |
| 937 | 75.028 | -22.2 | 52.8282 | 0 | | 34.4 | 0 | | -42.3 | -117.828 | |
| 938 | 75.028 | -22.2 | 52.8282 | 0 | | 34.4 | 0 | | -42.1 | -117.328 | |
| 939 | 75.028 | -22.2 | 52.8282 | 0 | | 34.5 | 0 | | -41.5 | -117.128 | |
| 940 | 75.028 | -22.2 | 52.8282 | 0 | 0 | 34.5 | 1 | 3 | -41.3 | -116.528 | 3 |
| 941 | 75.028 | -22.2 | 52.8282 | 0 | | 34.5 | 0 | | -41.1 | -116.328 | |
| 942 | 75.028 | -22.2 | 52.8282 | 0 | | 34.5 | 0 | | -40.5 | -116.128 | |
| 943 | 75.028 | -22.2 | 52.8282 | 0 | | 34.5 | 0 | | -40.1 | -115.528 | |
| 944 | 75.028 | -22.2 | 52.8282 | 0 | | 34.5 | 0 | | -39.3 | -115.128 | |
| 945 | 75.028 | -22.2 | 52.8282 | 0 | | 34.6 | 0 | | -38.7 | -114.328 | |
| 946 | 75.104 | -22.2 | 52.8282 | 0 | | 34.6 | 1 | | -38.2 | -113.728 | |
| 947 | 76.146 | -23.2 | 52.9044 | 0.762 | | 34.6 | 0 | | -37.4 | -113.304 | |
| 948 | 76.146 | -22.8 | 52.9458 | 0.414 | | 34.6 | 0 | | -36.5 | -113.546 | |
| 949 | 76.146 | -22.7 | 53.3458 | 4 | | 34.7 | 0 | | -35.6 | -112.646 | |
| 950 | 76.146 | -22.7 | 53.4458 | 1 | 6.176 | 34.7 | 1 | 2 | -34.8 | -111.746 | 8.176 |
| 951 | 76.146 | -22.6 | 53.4458 | 0 | | 34.7 | 0 | | -34.2 | -110.946 | |
| 952 | 76.146 | -22.6 | 53.5458 | 1 | | 34.7 | 0 | | -33.6 | -110.346 | |
| 953 | 76.146 | -22.6 | 53.5458 | 0 | | 34.7 | 0 | | -32.9 | -109.746 | |
| 954 | 76.146 | -22.6 | 53.5458 | 0 | | 34.7 | 0 | | -32.3 | -109.046 | |
| 955 | 76.146 | -22.6 | 53.5458 | 0 | | 34.7 | 0 | | -31.7 | -108.446 | |
| 956 | 76.146 | -22.6 | 53.5458 | 0 | | 34.7 | 0 | | -31.2 | -107.846 | |
| 957 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -30.5 | -107.346 | |
| 958 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 1 | | -30.1 | -106.646 | |
| 959 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -28.3 | -106.246 | |
| 960 | 76.146 | -22.6 | 53.5458 | 0 | 1 | 34.8 | 0 | 1 | -27.3 | -104.446 | 2 |
| 961 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -26.3 | -103.446 | |
| 962 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -25.4 | -102.446 | C-164 |
| 963 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -24.5 | -101.546 | |
| 964 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -23.8 | -100.646 | |
| 965 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -23.2 | -99.9458 | |
| 966 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -22.8 | -99.3458 | |
| 967 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -22.5 | -98.9458 | |
| 968 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -22 | -98.6458 | |
| 969 | 76.146 | -22.6 | 53.5458 | 0 | | 34.8 | 0 | | -21.4 | -98.1458 | |
| 970 | 76.197 | -22.6 | 53.5458 | 0 | 0 | 34.8 | 0 | 0 | -21 | -97.5458 | 0 |
| 971 | 76.197 | -22.6 | 53.5966 | 0.508 | | 34.8 | 0 | | -20.7 | -97.1966 | |
| 972 | 76.197 | -22.6 | 53.5966 | 0 | | 34.8 | 0 | | -20.2 | -96.8966 | |
| 973 | 76.197 | -22.6 | 53.5966 | 0 | | 34.8 | 0 | | -19.9 | -96.3966 | |
| 974 | 76.247 | -22.6 | 53.5966 | 0 | | 34.8 | 0 | | -19.9 | -96.0966 | |
| 975 | 76.247 | -22.6 | 53.6474 | 0.508 | | 34.8 | 0 | | -20.2 | -96.1474 | |
| 976 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20.3 | -96.4474 | |
| 977 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20 | -96.5474 | |
| 978 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -19.9 | -96.2474 | |
| 979 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -19.9 | -96.1474 | |
| 980 | 76.247 | -22.6 | 53.6474 | 0 | 1.016 | 34.8 | 0 | 0 | -20.3 | -96.1474 | 1.016 |
| 981 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20.1 | -96.5474 | |
| 982 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20.2 | -96.3474 | |
| 983 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20.8 | -96.4474 | |
| 984 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.4 | -97.0474 | |
| 985 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.4 | -97.6474 | |
| 986 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.6 | -97.6474 | |
| 987 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.6 | -97.8474 | |

| | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|------|---|---|-------|----------|-------|
| 988 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.6 | -97.8474 | |
| 989 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.8 | -97.8474 | |
| 990 | 76.247 | -22.6 | 53.6474 | 0 | 0 | 34.8 | 0 | 0 | -21.9 | -98.0474 | 0 |
| 991 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.6 | -98.1474 | |
| 992 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20.8 | -97.8474 | |
| 993 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20.4 | -97.0474 | |
| 994 | 76.247 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -20.7 | -96.6474 | |
| 995 | 76.298 | -22.6 | 53.6474 | 0 | | 34.8 | 0 | | -21.6 | -96.9474 | |
| 996 | 76.298 | -22.6 | 53.6982 | 0.508 | | 34.8 | 0 | | -21.3 | -97.8982 | |
| 997 | 76.298 | -22.6 | 53.6982 | 0 | | 34.8 | 0 | | -20.8 | -97.5982 | |
| 998 | 76.298 | -22.6 | 53.6982 | 0 | | 34.8 | 0 | | -20.6 | -97.0982 | |
| 999 | 76.324 | -22.6 | 53.6982 | 0 | | 34.8 | 0 | | -20.7 | -96.8982 | |
| 1000 | 76.324 | -22.6 | 53.7236 | 0.254 | 0.762 | 34.8 | 0 | 0 | -21.3 | -97.0236 | 0.762 |
| 1001 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -20.7 | -97.6236 | |
| 1002 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -20.9 | -97.0236 | |
| 1003 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -21.2 | -97.2236 | |
| 1004 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -20.8 | -97.5236 | |
| 1005 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -21.2 | -97.1236 | |
| 1006 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -21.2 | -97.5236 | |
| 1007 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -20.7 | -97.5236 | |
| 1008 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -20.6 | -97.0236 | |
| 1009 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -20.2 | -96.9236 | |
| 1010 | 76.324 | -22.6 | 53.7236 | 0 | 0 | 34.8 | 0 | 0 | -21.3 | -96.5236 | 0 |
| 1011 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -21.3 | -97.6236 | |
| 1012 | 76.324 | -22.6 | 53.7236 | 0 | | 34.8 | 0 | | -21.2 | -97.6236 | |
| 1013 | 76.501 | -22.7 | 53.7236 | 0 | | 34.8 | 0 | | -21.1 | -97.5236 | |
| 1014 | 76.501 | -22.7 | 53.8014 | 0.778 | | 34.8 | 0 | | -21 | -97.6014 | |
| 1015 | 76.501 | -22.6 | 53.8014 | 0 | | 34.8 | 0 | | -20.9 | -97.5014 | |
| 1016 | 76.806 | -22.6 | 53.9014 | 1 | | 34.8 | 0 | | -20.8 | -97.4014 | |
| 1017 | 76.832 | -22.6 | 54.2062 | 3.048 | | 34.8 | 0 | | -20.8 | -97.6062 | |
| 1018 | 76.832 | -22.6 | 54.2316 | 0.254 | | 34.8 | 0 | | -20.7 | -97.6316 | |
| 1019 | 76.832 | -22.6 | 54.2316 | 0 | | 34.8 | 0 | | -20.7 | -97.5316 | |
| 1020 | 76.832 | -22.6 | 54.2316 | 0 | 5.08 | 34.8 | 0 | 0 | -20.6 | -97.5316 | 5.08 |
| 1021 | 76.832 | -22.6 | 54.2316 | 0 | | 34.8 | 0 | | -20.6 | -97.4316 | |
| 1022 | 76.832 | -22.6 | 54.2316 | 0 | | 34.8 | 0 | | -20.7 | -97.4316 | |

end

C-165

SCWMATM426 ET=29.54 [5.8T,23.7E], Increase = -54.2 [-64.7%]

| Time [day] | CumP [cm] | C sum(vTop) [L] | Cumm E [cm] | Daily E [mm/day] | 10day E [mm/10d] | sum(vRoc) [mm] | Daily T [mm/10d] | 10day T [mm/10d] | sum(vBot) [L] | Cum Disc [cm] | 10day ET [mm/10d] |
|------------|-----------|-----------------|-------------|------------------|------------------|----------------|------------------|------------------|---------------|---------------|-------------------|
| 650 | 50.165 | -13.7 | 36.465 | 0 | 0.778 | 28.3 | 0 | 0 | -137 | -187.165 | 0.778 |
| 651 | 50.47 | -13.7 | 36.465 | 0 | | 28.3 | 0 | | -137 | -187.165 | |
| 652 | 50.495 | -13.7 | 36.7698 | 3.048 | | 28.3 | 0 | | -137 | -187.47 | |
| 653 | 50.495 | -13.7 | 36.7952 | 0.254 | | 28.3 | 0 | | -137 | -187.495 | |
| 654 | 50.495 | -13.7 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 655 | 50.495 | -13.7 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 656 | 50.495 | -13.7 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 657 | 50.495 | -13.7 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 658 | 50.495 | -13.7 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 659 | 50.495 | -13.7 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 660 | 50.495 | -13.7 | 36.7952 | 0 | 3.302 | 28.3 | 0 | 0 | -137 | -187.495 | 3.302 |
| 661 | 50.495 | -13.7 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 662 | 50.495 | -13.6 | 36.7952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 663 | 50.495 | -13.6 | 36.8952 | 1 | | 28.3 | 0 | | -137 | -187.495 | |
| 664 | 50.495 | -13.6 | 36.8952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 665 | 50.495 | -13.6 | 36.8952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 666 | 50.495 | -13.6 | 36.8952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 667 | 50.495 | -13.6 | 36.8952 | 0 | | 28.3 | 0 | | -137 | -187.495 | |
| 668 | 50.495 | -13.6 | 36.8952 | 0 | | 28.3 | 0 | | -136 | -187.495 | |
| 669 | 50.495 | -13.6 | 36.8952 | 0 | | 28.3 | 0 | | -136 | -186.495 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|------|---|---|------|----------|-------|
| 735 | 51.41 | -13.8 | 37.4096 | 2.032 | | 28.3 | 0 | | -134 | -186.41 | |
| 736 | 51.41 | -13.8 | 37.6096 | 2 | | 28.3 | 0 | | -134 | -185.41 | |
| 737 | 51.41 | -13.8 | 37.6096 | 0 | | 28.3 | 0 | | -134 | -185.41 | |
| 738 | 51.41 | -13.8 | 37.6096 | 0 | | 28.3 | 0 | | -133 | -185.41 | |
| 739 | 51.41 | -13.7 | 37.6096 | 0 | | 28.3 | 0 | | -133 | -184.41 | |
| 740 | 51.41 | -13.7 | 37.7096 | 1 | 7.636 | 28.3 | 0 | 0 | -133 | -184.41 | 7.636 |
| 741 | 51.41 | -13.7 | 37.7096 | 0 | | 28.3 | 0 | | -133 | -184.41 | |
| 742 | 52.095 | -14 | 37.7096 | 0 | | 28.3 | 0 | | -133 | -184.41 | |
| 743 | 52.095 | -13.8 | 38.0954 | 3.858 | | 28.3 | 0 | | -133 | -185.095 | |
| 744 | 52.095 | -13.8 | 38.2954 | 2 | | 28.3 | 0 | | -133 | -185.095 | |
| 745 | 52.095 | -13.8 | 38.2954 | 0 | | 28.3 | 0 | | -133 | -185.095 | |
| 746 | 52.095 | -13.7 | 38.2954 | 0 | | 28.3 | 0 | | -133 | -185.095 | |
| 747 | 52.095 | -13.7 | 38.3954 | 1 | | 28.3 | 0 | | -134 | -185.095 | |
| 748 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -134 | -186.095 | |
| 749 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -134 | -186.095 | |
| 750 | 52.095 | -13.7 | 38.3954 | 0 | 6.858 | 28.3 | 0 | 0 | -135 | -186.095 | 6.858 |
| 751 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -135 | -187.095 | |
| 752 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -135 | -187.095 | |
| 753 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -134 | -187.095 | |
| 754 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -134 | -186.095 | |
| 755 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -135 | -186.095 | |
| 756 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -135 | -187.095 | |
| 757 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -135 | -187.095 | |
| 758 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -136 | -187.095 | |
| 759 | 52.095 | -13.7 | 38.3954 | 0 | | 28.3 | 0 | | -136 | -188.095 | |
| 760 | 52.095 | -13.7 | 38.3954 | 0 | 0 | 28.3 | 0 | 0 | -136 | -188.095 | 0 |
| 761 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -136 | -188.095 | |
| 762 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 1 | | -136 | -188.095 | |
| 763 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -135 | -188.095 | |
| 764 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -135 | -187.095 | |
| 765 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -134 | -187.095 | |
| 766 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -134 | -186.095 | |
| 767 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -135 | -186.095 | |
| 768 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -136 | -187.095 | |
| 769 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -136 | -188.095 | |
| 770 | 52.095 | -13.7 | 38.3954 | 0 | 0 | 28.4 | 0 | 1 | -137 | -188.095 | 1 |
| 771 | 52.095 | -13.7 | 38.3954 | 0 | | 28.4 | 0 | | -138 | -189.095 | |
| 772 | 53.095 | -14 | 38.3954 | 0 | | 28.4 | 0 | | -138 | -190.095 | |
| 773 | 53.095 | -13.9 | 39.0954 | 7 | | 28.4 | 0 | | -139 | -191.095 | |
| 774 | 53.095 | -13.8 | 39.1954 | 1 | | 28.5 | 0 | | -139 | -192.095 | |
| 775 | 53.095 | -13.8 | 39.2954 | 1 | | 28.5 | 1 | | -140 | -192.095 | |
| 776 | 53.095 | -13.8 | 39.2954 | 0 | | 28.5 | 0 | | -140 | -193.095 | |
| 777 | 53.095 | -13.8 | 39.2954 | 0 | | 28.5 | 0 | | -140 | -193.095 | C-167 |
| 778 | 53.095 | -13.8 | 39.2954 | 0 | | 28.5 | 0 | | -141 | -193.095 | |
| 779 | 53.095 | -13.8 | 39.2954 | 0 | | 28.5 | 0 | | -141 | -194.095 | |
| 780 | 53.095 | -13.8 | 39.2954 | 0 | 9 | 28.5 | 0 | 1 | -141 | -194.095 | 10 |
| 781 | 53.095 | -13.8 | 39.2954 | 0 | | 28.5 | 0 | | -142 | -194.095 | |
| 782 | 53.095 | -13.8 | 39.2954 | 0 | | 28.6 | 0 | | -142 | -195.095 | |
| 783 | 53.095 | -13.8 | 39.2954 | 0 | | 28.6 | 1 | | -143 | -195.095 | |
| 784 | 54.095 | -13.8 | 39.2954 | 0 | | 28.6 | 0 | | -143 | -196.095 | |
| 785 | 54.095 | -13.8 | 40.2954 | 10 | | 28.6 | 0 | | -144 | -197.095 | |
| 786 | 54.095 | -13.8 | 40.2954 | 0 | | 28.6 | 0 | | -144 | -198.095 | |
| 787 | 55.095 | -13.8 | 40.2954 | 0 | | 28.6 | 0 | | -144 | -198.095 | |
| 788 | 55.095 | -13.8 | 41.2954 | 10 | | 28.6 | 0 | | -145 | -199.095 | |
| 789 | 55.095 | -13.8 | 41.2954 | 0 | | 28.6 | 0 | | -145 | -200.095 | |
| 790 | 55.095 | -13.8 | 41.2954 | 0 | 20 | 28.6 | 0 | 1 | -146 | -200.095 | 21 |
| 791 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -146 | -201.095 | |
| 792 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 1 | | -146 | -201.095 | |
| 793 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -147 | -201.095 | |
| 794 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -147 | -202.095 | |
| 795 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -147 | -202.095 | |
| 796 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -147 | -202.095 | |
| 797 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -148 | -202.095 | |
| 798 | 55.095 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -148 | -203.095 | |
| 799 | 55.251 | -13.8 | 41.2954 | 0 | | 28.7 | 0 | | -148 | -203.095 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|------|---|---|------|----------|--------|
| 800 | 55.911 | -13.8 | 41.451 | 1.556 | 1.556 | 28.7 | 0 | 1 | -148 | -203.251 | 2.556 |
| 801 | 55.911 | -13.8 | 42.1114 | 6.604 | | 28.7 | 0 | | -147 | -203.911 | |
| 802 | 55.911 | -13.8 | 42.1114 | 0 | | 28.7 | 0 | | -147 | -202.911 | |
| 803 | 55.911 | -13.8 | 42.1114 | 0 | | 28.7 | 0 | | -147 | -202.911 | |
| 804 | 56.165 | -13.8 | 42.1114 | 0 | | 28.7 | 0 | | -146 | -202.911 | |
| 805 | 56.216 | -13.8 | 42.3654 | 2.54 | | 28.7 | 0 | | -145 | -202.165 | |
| 806 | 56.978 | -13.8 | 42.4162 | 0.508 | | 28.7 | 0 | | -145 | -201.216 | |
| 807 | 56.978 | -13.8 | 43.1782 | 7.62 | | 28.7 | 0 | | -145 | -201.978 | |
| 808 | 56.978 | -13.8 | 43.1782 | 0 | | 28.7 | 0 | | -145 | -201.978 | |
| 809 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -145 | -201.978 | |
| 810 | 56.978 | -13.8 | 43.1782 | 0 | 17.272 | 28.8 | 1 | 1 | -145 | -201.978 | 18.272 |
| 811 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -146 | -201.978 | |
| 812 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -147 | -202.978 | |
| 813 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -147 | -203.978 | |
| 814 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -147 | -203.978 | |
| 815 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -148 | -203.978 | |
| 816 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -148 | -204.978 | |
| 817 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -149 | -204.978 | |
| 818 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -149 | -205.978 | |
| 819 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -149 | -205.978 | |
| 820 | 56.978 | -13.8 | 43.1782 | 0 | 0 | 28.8 | 0 | 0 | -150 | -205.978 | 0 |
| 821 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -150 | -206.978 | |
| 822 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -150 | -206.978 | |
| 823 | 56.978 | -13.8 | 43.1782 | 0 | | 28.8 | 0 | | -150 | -206.978 | |
| 824 | 57.994 | -13.9 | 43.1782 | 0 | | 28.8 | 0 | | -150 | -206.978 | |
| 825 | 58.35 | -13.8 | 44.0942 | 9.16 | | 28.8 | 0 | | -150 | -207.994 | |
| 826 | 58.35 | -13.8 | 44.5498 | 4.556 | | 28.8 | 0 | | -150 | -208.35 | |
| 827 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -150 | -208.35 | |
| 828 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -150 | -208.35 | |
| 829 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -150 | -208.35 | |
| 830 | 58.35 | -13.8 | 44.5498 | 0 | 13.716 | 28.8 | 0 | 0 | -150 | -208.35 | 13.716 |
| 831 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -150 | -208.35 | |
| 832 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -150 | -208.35 | |
| 833 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -151 | -208.35 | |
| 834 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -151 | -209.35 | |
| 835 | 58.35 | -13.8 | 44.5498 | 0 | | 28.8 | 0 | | -151 | -209.35 | |
| 836 | 59.874 | -14.3 | 44.5498 | 0 | | 28.8 | 0 | | -151 | -209.35 | |
| 837 | 59.874 | -14 | 45.5738 | 10.24 | | 28.8 | 0 | | -151 | -210.874 | |
| 838 | 59.874 | -14 | 45.8738 | 3 | | 28.8 | 0 | | -150 | -210.874 | |
| 839 | 59.874 | -14 | 45.8738 | 0 | | 28.8 | 0 | | -149 | -209.874 | |
| 840 | 59.874 | -14 | 45.8738 | 0 | 13.24 | 28.8 | 0 | 0 | -148 | -208.874 | 13.24 |
| 841 | 59.899 | -13.9 | 45.8738 | 0 | | 28.9 | 0 | | -147 | -207.874 | |
| 842 | 60.153 | -13.9 | 45.9992 | 1.254 | | 28.9 | 1 | | -146 | -206.899 | |
| 843 | 60.255 | -13.9 | 46.2532 | 2.54 | | 28.9 | 0 | | -145 | -206.153 | C-168 |
| 844 | 60.255 | -13.9 | 46.3548 | 1.016 | | 28.9 | 0 | | -143 | -205.255 | |
| 845 | 60.255 | -13.9 | 46.3548 | 0 | | 28.9 | 0 | | -142 | -203.255 | |
| 846 | 60.306 | -13.9 | 46.3548 | 0 | | 28.9 | 0 | | -142 | -202.255 | |
| 847 | 61.068 | -13.9 | 46.4056 | 0.508 | | 28.9 | 0 | | -142 | -202.306 | |
| 848 | 61.093 | -13.9 | 47.1676 | 7.62 | | 28.9 | 0 | | -142 | -203.068 | |
| 849 | 61.093 | -13.9 | 47.193 | 0.254 | | 28.9 | 0 | | -141 | -203.093 | |
| 850 | 61.093 | -13.9 | 47.193 | 0 | 13.192 | 28.9 | 0 | 1 | -141 | -202.093 | 14.192 |
| 851 | 61.093 | -13.9 | 47.193 | 0 | | 28.9 | 0 | | -141 | -202.093 | |
| 852 | 61.093 | -13.9 | 47.193 | 0 | | 28.9 | 0 | | -140 | -202.093 | |
| 853 | 61.093 | -13.9 | 47.193 | 0 | | 28.9 | 0 | | -141 | -201.093 | |
| 854 | 61.093 | -13.9 | 47.193 | 0 | | 28.9 | 0 | | -142 | -202.093 | |
| 855 | 65.884 | -18.1 | 47.193 | 0 | | 28.9 | 0 | | -142 | -203.093 | |
| 856 | 65.884 | -17.2 | 47.7842 | 5.912 | | 29 | 0 | | -142 | -207.884 | |
| 857 | 65.884 | -16.8 | 48.6842 | 9 | | 29.1 | 1 | | -141 | -207.884 | |
| 858 | 65.884 | -16.7 | 49.0842 | 4 | | 29.2 | 1 | | -140 | -206.884 | |
| 859 | 65.884 | -16.6 | 49.1842 | 1 | | 29.3 | 1 | | -139 | -205.884 | |
| 860 | 65.884 | -16.6 | 49.2842 | 1 | 20.912 | 29.4 | 1 | 4 | -139 | -204.884 | 24.912 |
| 861 | 65.884 | -16.5 | 49.2842 | 0 | | 29.4 | 1 | | -140 | -204.884 | |
| 862 | 65.884 | -16.5 | 49.3842 | 1 | | 29.5 | 0 | | -141 | -205.884 | |
| 863 | 65.884 | -16.5 | 49.3842 | 0 | | 29.6 | 1 | | -142 | -206.884 | |
| 864 | 65.884 | -16.5 | 49.3842 | 0 | | 29.7 | 1 | | -142 | -207.884 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|--------|------|---|---|------|----------|--------|
| 865 | 65.884 | -16.5 | 49.3842 | 0 | | 29.7 | 1 | | -143 | -207.884 | |
| 866 | 65.884 | -16.5 | 49.3842 | 0 | | 29.8 | 0 | | -144 | -208.884 | |
| 867 | 65.884 | -16.5 | 49.3842 | 0 | | 29.9 | 1 | | -145 | -209.884 | |
| 868 | 65.884 | -16.5 | 49.3842 | 0 | | 30 | 1 | | -146 | -210.884 | |
| 869 | 65.884 | -16.5 | 49.3842 | 0 | | 30 | 1 | | -146 | -211.884 | |
| 870 | 65.884 | -16.5 | 49.3842 | 0 | 1 | 30.1 | 0 | 7 | -147 | -211.884 | 8 |
| 871 | 65.884 | -16.5 | 49.3842 | 0 | | 30.2 | 1 | | -147 | -212.884 | |
| 872 | 67.891 | -18 | 49.3842 | 0 | | 30.2 | 1 | | -148 | -212.884 | |
| 873 | 67.891 | -17.5 | 49.8908 | 5.066 | | 30.3 | 0 | | -148 | -215.891 | |
| 874 | 71.599 | -20.6 | 50.3908 | 5 | | 30.3 | 1 | | -148 | -215.891 | |
| 875 | 71.599 | -20 | 50.9992 | 6.084 | | 30.4 | 0 | | -147 | -219.599 | |
| 876 | 71.599 | -19.4 | 51.5992 | 6 | | 30.5 | 1 | | -148 | -218.599 | |
| 877 | 71.599 | -19.2 | 52.1992 | 6 | | 30.6 | 1 | | -148 | -219.599 | |
| 878 | 71.599 | -19.1 | 52.3992 | 2 | | 30.7 | 1 | | -148 | -219.599 | |
| 879 | 71.599 | -19 | 52.4992 | 1 | | 30.8 | 1 | | -148 | -219.599 | |
| 880 | 71.599 | -19 | 52.5992 | 1 | 32.15 | 30.8 | 1 | 8 | -148 | -219.599 | 40.15 |
| 881 | 71.599 | -19 | 52.5992 | 0 | | 30.9 | 0 | | -147 | -219.599 | |
| 882 | 71.599 | -18.9 | 52.5992 | 0 | | 31 | 1 | | -148 | -218.599 | |
| 883 | 71.599 | -18.9 | 52.6992 | 1 | | 31.1 | 1 | | -148 | -219.599 | |
| 884 | 71.599 | -18.9 | 52.6992 | 0 | | 31.2 | 1 | | -148 | -219.599 | |
| 885 | 71.599 | -18.9 | 52.6992 | 0 | | 31.3 | 1 | | -148 | -219.599 | |
| 886 | 71.599 | -18.9 | 52.6992 | 0 | | 31.4 | 1 | | -148 | -219.599 | |
| 887 | 71.599 | -18.9 | 52.6992 | 0 | | 31.4 | 1 | | -148 | -219.599 | |
| 888 | 71.853 | -18.9 | 52.6992 | 0 | | 31.5 | 0 | | -149 | -219.599 | |
| 889 | 71.904 | -18.9 | 52.9532 | 2.54 | | 31.6 | 1 | | -149 | -220.853 | |
| 890 | 71.904 | -18.9 | 53.004 | 0.508 | 4.048 | 31.7 | 1 | 8 | -149 | -220.904 | 12.048 |
| 891 | 71.904 | -18.9 | 53.004 | 0 | | 31.8 | 1 | | -149 | -220.904 | |
| 892 | 71.955 | -18.9 | 53.004 | 0 | | 31.8 | 1 | | -149 | -220.904 | |
| 893 | 71.955 | -18.9 | 53.0548 | 0.508 | | 31.9 | 0 | | -149 | -220.955 | |
| 894 | 71.955 | -18.9 | 53.0548 | 0 | | 32 | 1 | | -149 | -220.955 | |
| 895 | 71.955 | -18.9 | 53.0548 | 0 | | 32 | 1 | | -150 | -220.955 | |
| 896 | 72.183 | -18.9 | 53.0548 | 0 | | 32.1 | 0 | | -150 | -221.955 | |
| 897 | 72.234 | -18.9 | 53.2834 | 2.286 | | 32.2 | 1 | | -150 | -222.183 | |
| 898 | 72.234 | -18.8 | 53.3342 | 0.508 | | 32.3 | 1 | | -150 | -222.234 | |
| 899 | 72.234 | -18.8 | 53.4342 | 1 | | 32.3 | 1 | | -150 | -222.234 | |
| 900 | 72.234 | -18.8 | 53.4342 | 0 | 4.302 | 32.4 | 0 | 7 | -150 | -222.234 | 11.302 |
| 901 | 72.234 | -18.8 | 53.4342 | 0 | | 32.5 | 1 | | -150 | -222.234 | |
| 902 | 72.26 | -18.8 | 53.4342 | 0 | | 32.5 | 1 | | -151 | -222.234 | |
| 903 | 73.352 | -19.5 | 53.4596 | 0.254 | | 32.6 | 0 | | -151 | -223.26 | |
| 904 | 73.352 | -19.1 | 53.8518 | 3.922 | | 32.6 | 1 | | -151 | -224.352 | |
| 905 | 73.352 | -19.1 | 54.2518 | 4 | | 32.7 | 0 | | -150 | -224.352 | |
| 906 | 73.352 | -19.1 | 54.2518 | 0 | | 32.7 | 1 | | -150 | -223.352 | |
| 907 | 73.352 | -19 | 54.2518 | 0 | | 32.8 | 0 | | -150 | -223.352 | |
| 908 | 73.352 | -19 | 54.3518 | 1 | | 32.9 | 1 | | -150 | -223.352 | |
| 909 | 73.352 | -19 | 54.3518 | 0 | | 32.9 | 1 | | -151 | -223.352 | C-169 |
| 910 | 73.352 | -19 | 54.3518 | 0 | 9.176 | 32.9 | 0 | 6 | -151 | -224.352 | 15.176 |
| 911 | 73.352 | -19 | 54.3518 | 0 | | 33 | 0 | | -151 | -224.352 | |
| 912 | 73.352 | -19 | 54.3518 | 0 | | 33.1 | 1 | | -151 | -224.352 | |
| 913 | 74.215 | -19.4 | 54.3518 | 0 | | 33.1 | 1 | | -151 | -224.352 | |
| 914 | 74.596 | -19.3 | 54.8154 | 4.636 | | 33.1 | 0 | | -151 | -225.215 | |
| 915 | 74.774 | -19.2 | 55.2964 | 4.81 | | 33.2 | 0 | | -151 | -225.596 | |
| 916 | 74.952 | -19.1 | 55.5742 | 2.778 | | 33.2 | 1 | | -151 | -225.774 | |
| 917 | 74.952 | -19.1 | 55.852 | 2.778 | | 33.3 | 0 | | -151 | -225.952 | |
| 918 | 74.977 | -19.1 | 55.852 | 0 | | 33.3 | 1 | | -150 | -225.952 | |
| 919 | 74.977 | -19.1 | 55.8774 | 0.254 | | 33.4 | 0 | | -150 | -224.977 | |
| 920 | 74.977 | -19.1 | 55.8774 | 0 | 15.256 | 33.4 | 1 | 5 | -150 | -224.977 | 20.256 |
| 921 | 74.977 | -19.1 | 55.8774 | 0 | | 33.5 | 0 | | -150 | -224.977 | |
| 922 | 74.977 | -19.1 | 55.8774 | 0 | | 33.5 | 1 | | -150 | -224.977 | |
| 923 | 75.028 | -19.1 | 55.8774 | 0 | | 33.5 | 0 | | -150 | -224.977 | |
| 924 | 75.028 | -19.1 | 55.9282 | 0.508 | | 33.5 | 0 | | -150 | -225.028 | |
| 925 | 75.028 | -19.1 | 55.9282 | 0 | | 33.6 | 0 | | -150 | -225.028 | |
| 926 | 75.028 | -19.1 | 55.9282 | 0 | | 33.6 | 1 | | -151 | -225.028 | |
| 927 | 75.028 | -19.1 | 55.9282 | 0 | | 33.6 | 0 | | -150 | -226.028 | |
| 928 | 75.028 | -19.1 | 55.9282 | 0 | | 33.7 | 0 | | -151 | -225.028 | |
| 929 | 75.028 | -19.1 | 55.9282 | 0 | | 33.7 | 1 | | -151 | -226.028 | |

| | | | | | | | | | | | |
|-----|--------|-------|---------|-------|-------|------|---|---|------|----------|-------|
| 930 | 75.028 | -19.1 | 55.9282 | 0 | 0.508 | 33.7 | 0 | 3 | -150 | -226.028 | 3.508 |
| 931 | 75.028 | -19.1 | 55.9282 | 0 | | 33.7 | 0 | | -150 | -225.028 | |
| 932 | 75.028 | -19.1 | 55.9282 | 0 | | 33.7 | 0 | | -150 | -225.028 | |
| 933 | 75.028 | -19.1 | 55.9282 | 0 | | 33.8 | 0 | | -149 | -225.028 | |
| 934 | 75.028 | -19.1 | 55.9282 | 0 | | 33.8 | 1 | | -148 | -224.028 | |
| 935 | 75.028 | -19.1 | 55.9282 | 0 | | 33.8 | 0 | | -147 | -223.028 | |
| 936 | 75.028 | -19.1 | 55.9282 | 0 | | 33.8 | 0 | | -146 | -222.028 | |
| 937 | 75.028 | -19.1 | 55.9282 | 0 | | 33.8 | 0 | | -145 | -221.028 | |
| 938 | 75.028 | -19.1 | 55.9282 | 0 | | 33.8 | 0 | | -145 | -220.028 | |
| 939 | 75.028 | -19.1 | 55.9282 | 0 | | 33.8 | 0 | | -144 | -220.028 | |
| 940 | 75.028 | -19.1 | 55.9282 | 0 | 0 | 33.9 | 0 | 1 | -144 | -219.028 | 1 |
| 941 | 75.028 | -19.1 | 55.9282 | 0 | | 33.9 | 1 | | -144 | -219.028 | |
| 942 | 75.028 | -19.1 | 55.9282 | 0 | | 33.9 | 0 | | -144 | -219.028 | |
| 943 | 75.028 | -19.1 | 55.9282 | 0 | | 33.9 | 0 | | -143 | -219.028 | |
| 944 | 75.028 | -19.1 | 55.9282 | 0 | | 33.9 | 0 | | -142 | -218.028 | |
| 945 | 75.028 | -19.1 | 55.9282 | 0 | | 33.9 | 0 | | -142 | -217.028 | |
| 946 | 75.104 | -19.1 | 55.9282 | 0 | | 33.9 | 0 | | -141 | -217.028 | |
| 947 | 76.146 | -20 | 56.0044 | 0.762 | | 33.9 | 0 | | -140 | -216.104 | |
| 948 | 76.146 | -19.6 | 56.1458 | 1.414 | | 34 | 0 | | -140 | -216.146 | |
| 949 | 76.146 | -19.5 | 56.5458 | 4 | | 34 | 1 | | -139 | -216.146 | |
| 950 | 76.146 | -19.5 | 56.6458 | 1 | 7.176 | 34 | 0 | 2 | -138 | -215.146 | 9.176 |
| 951 | 76.146 | -19.4 | 56.6458 | 0 | | 34 | 0 | | -137 | -214.146 | |
| 952 | 76.146 | -19.4 | 56.7458 | 1 | | 34 | 0 | | -137 | -213.146 | |
| 953 | 76.146 | -19.4 | 56.7458 | 0 | | 34 | 0 | | -136 | -213.146 | |
| 954 | 76.146 | -19.4 | 56.7458 | 0 | | 34 | 0 | | -135 | -212.146 | |
| 955 | 76.146 | -19.4 | 56.7458 | 0 | | 34 | 0 | | -135 | -211.146 | |
| 956 | 76.146 | -19.4 | 56.7458 | 0 | | 34 | 0 | | -134 | -211.146 | |
| 957 | 76.146 | -19.4 | 56.7458 | 0 | | 34 | 0 | | -134 | -210.146 | |
| 958 | 76.146 | -19.4 | 56.7458 | 0 | | 34 | 0 | | -133 | -210.146 | |
| 959 | 76.146 | -19.4 | 56.7458 | 0 | | 34.1 | 0 | | -131 | -209.146 | |
| 960 | 76.146 | -19.3 | 56.7458 | 0 | 1 | 34.1 | 1 | 1 | -130 | -207.146 | 2 |
| 961 | 76.146 | -19.3 | 56.8458 | 1 | | 34.1 | 0 | | -129 | -206.146 | |
| 962 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -129 | -205.146 | |
| 963 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -128 | -205.146 | |
| 964 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -127 | -204.146 | |
| 965 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -126 | -203.146 | |
| 966 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -126 | -202.146 | |
| 967 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -126 | -202.146 | |
| 968 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -125 | -202.146 | |
| 969 | 76.146 | -19.3 | 56.8458 | 0 | | 34.1 | 0 | | -125 | -201.146 | |
| 970 | 76.197 | -19.3 | 56.8458 | 0 | 1 | 34.1 | 0 | 0 | -124 | -201.146 | 1 |
| 971 | 76.197 | -19.3 | 56.8966 | 0.508 | | 34.1 | 0 | | -124 | -200.197 | |
| 972 | 76.197 | -19.3 | 56.8966 | 0 | | 34.1 | 0 | | -123 | -200.197 | |
| 973 | 76.197 | -19.3 | 56.8966 | 0 | | 34.1 | 0 | | -123 | -199.197 | |
| 974 | 76.247 | -19.3 | 56.8966 | 0 | | 34.1 | 0 | | -123 | -199.197 | |
| 975 | 76.247 | -19.3 | 56.9474 | 0.508 | | 34.1 | 0 | | -123 | -199.247 | C-170 |
| 976 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -124 | -199.247 | |
| 977 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -123 | -200.247 | |
| 978 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -123 | -199.247 | |
| 979 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -123 | -199.247 | |
| 980 | 76.247 | -19.3 | 56.9474 | 0 | 1.016 | 34.1 | 0 | 0 | -124 | -199.247 | 1.016 |
| 981 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -123 | -200.247 | |
| 982 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -124 | -199.247 | |
| 983 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -124 | -200.247 | |
| 984 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -200.247 | |
| 985 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -201.247 | |
| 986 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -201.247 | |
| 987 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -201.247 | |
| 988 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -201.247 | |
| 989 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -201.247 | |
| 990 | 76.247 | -19.3 | 56.9474 | 0 | 0 | 34.1 | 0 | 0 | -125 | -201.247 | 0 |
| 991 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -201.247 | |
| 992 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -124 | -201.247 | |
| 993 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -124 | -200.247 | |
| 994 | 76.247 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -124 | -200.247 | |

| | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|------|---|---|------|----------|-------|
| 995 | 76.298 | -19.3 | 56.9474 | 0 | | 34.1 | 0 | | -125 | -200.247 | |
| 996 | 76.298 | -19.3 | 56.9982 | 0.508 | | 34.1 | 0 | | -125 | -201.298 | |
| 997 | 76.298 | -19.3 | 56.9982 | 0 | | 34.1 | 0 | | -124 | -201.298 | |
| 998 | 76.298 | -19.3 | 56.9982 | 0 | | 34.1 | 0 | | -124 | -200.298 | |
| 999 | 76.324 | -19.3 | 56.9982 | 0 | | 34.1 | 0 | | -124 | -200.298 | |
| 1000 | 76.324 | -19.3 | 57.0236 | 0.254 | 0.762 | 34.1 | 0 | 0 | -125 | -200.324 | 0.762 |
| 1001 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -124 | -201.324 | |
| 1002 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -124 | -200.324 | |
| 1003 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -125 | -200.324 | |
| 1004 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -124 | -201.324 | |
| 1005 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -125 | -200.324 | |
| 1006 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -125 | -201.324 | |
| 1007 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -124 | -201.324 | |
| 1008 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -124 | -200.324 | |
| 1009 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -124 | -200.324 | |
| 1010 | 76.324 | -19.3 | 57.0236 | 0 | 0 | 34.1 | 0 | 0 | -125 | -200.324 | 0 |
| 1011 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -125 | -201.324 | |
| 1012 | 76.324 | -19.3 | 57.0236 | 0 | | 34.1 | 0 | | -125 | -201.324 | |
| 1013 | 76.501 | -19.4 | 57.0236 | 0 | | 34.1 | 0 | | -125 | -201.324 | |
| 1014 | 76.501 | -19.4 | 57.1014 | 0.778 | | 34.1 | 0 | | -125 | -201.501 | |
| 1015 | 76.501 | -19.4 | 57.1014 | 0 | | 34.1 | 0 | | -124 | -201.501 | |
| 1016 | 76.806 | -19.4 | 57.1014 | 0 | | 34.1 | 0 | | -124 | -200.501 | |
| 1017 | 76.832 | -19.3 | 57.4062 | 3.048 | | 34.1 | 0 | | -124 | -200.806 | |
| 1018 | 76.832 | -19.3 | 57.5316 | 1.254 | | 34.1 | 0 | | -124 | -200.832 | |
| 1019 | 76.832 | -19.3 | 57.5316 | 0 | | 34.1 | 0 | | -124 | -200.832 | |
| 1020 | 76.832 | -19.3 | 57.5316 | 0 | 5.08 | 34.1 | 0 | 0 | -124 | -200.832 | 5.08 |
| 1021 | 76.832 | -19.3 | 57.5316 | 0 | | 34.1 | 0 | | -124 | -200.832 | |
| 1022 | 76.832 | -19.3 | 57.5316 | 0 | | 34.1 | 0 | | -124 | -200.832 | |

end