



312 File Number: **SATLOA2016111500118**

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## Filing Description

| Question    | Response                        |
|-------------|---------------------------------|
| Description | SpaceX Ku/Ka NGSO Constellation |

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## Satellite Information

| Question   | Response             |
|--|----------------------|
| Select Orbit Type  | NGSO                 |
| Space Station or Satellite Network Name                      | SpaceX Constellation |
| Estimated Lifetime of Satellite(s) From Date of Launch       | 5 Years              |
| Will the space station(s) operate on a Common Carrier basis? | No                   |

## Operating Frequency Bands (16)

| Nature of service       | Description | Frequency Band(s)        | Mode Type |
|-------------------------|-------------|--------------------------|-----------|
| Fixed-Satellite Service |             | 28100.0 MHz -28600.0 MHz | Receive   |
| Fixed-Satellite Service |             | 10700.0 MHz -10950.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 10950.0 MHz -11200.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 11200.0 MHz -11450.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 11450.0 MHz -11700.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 11700.0 MHz -12200.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 12200.0 MHz -12750.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 14000.0 MHz -14500.0 MHz | Receive   |
| Fixed-Satellite Service |             | 17800.0 MHz -18300.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 18300.0 MHz -18600.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 18800.0 MHz -19300.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 27500.0 MHz -28100.0 MHz | Receive   |
| Fixed-Satellite Service |             | 28600.0 MHz -29100.0 MHz | Receive   |
| Fixed-Satellite Service |             | 29500.0 MHz -30000.0 MHz | Receive   |
| Fixed-Satellite Service |             | 12150.0 MHz -12250.0 MHz | Transmit  |
| Fixed-Satellite Service |             | 13850.0 MHz -14000.0 MHz | Receive   |

**Orbital  
Information For  
Non-  
Geostationary  
Satellites**

| Question   | Response   |
|--|------------|
| Total Number of Satellites in the active constellation | 4425       |
| Orbit Epoch Date                                       | 01/01/2015 |
| Celestial Reference Body                               | Earth      |

## Orbital Plane 1:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 0.0 degrees    |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 72.0   |
| 2                | 79.2   |
| 3                | 86.4   |
| 4                | 93.6   |
| 5                | 100.8  |
| 6                | 108.0  |
| 7                | 115.2  |
| 8                | 122.4  |
| 9                | 129.6  |
| 10               | 136.8  |
| 11               | 144.0  |
| 12               | 151.2  |
| 13               | 158.4  |

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|           |       |
|-----------|-------|
| <b>14</b> | 295.2 |
| <b>15</b> | 288.0 |
| <b>16</b> | 280.8 |
| <b>17</b> | 273.6 |
| <b>18</b> | 266.4 |
| <b>19</b> | 259.2 |
| <b>20</b> | 252.0 |
| <b>21</b> | 244.8 |
| <b>22</b> | 237.6 |
| <b>23</b> | 230.4 |
| <b>24</b> | 223.2 |
| <b>25</b> | 216.0 |
| <b>26</b> | 208.8 |
| <b>27</b> | 201.6 |
| <b>28</b> | 194.4 |
| <b>29</b> | 187.2 |
| <b>30</b> | 180.0 |
| <b>31</b> | 172.8 |
| <b>32</b> | 165.6 |
| <b>33</b> | 0.0   |
| <b>34</b> | 7.2   |
| <b>35</b> | 14.4  |
| <b>36</b> | 21.6  |
| <b>37</b> | 28.8  |
| <b>38</b> | 36.0  |
| <b>39</b> | 43.2  |

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|           |       |
|-----------|-------|
| <b>40</b> | 50.4  |
| <b>41</b> | 57.6  |
| <b>42</b> | 64.8  |
| <b>43</b> | 316.8 |
| <b>44</b> | 324.0 |
| <b>45</b> | 331.2 |
| <b>46</b> | 338.4 |
| <b>47</b> | 345.6 |
| <b>48</b> | 352.8 |
| <b>49</b> | 302.4 |
| <b>50</b> | 309.6 |

## Orbital Plane 2:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 11.3 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 1.9  |

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|           |       |
|-----------|-------|
| <b>2</b>  | 9.1   |
| <b>3</b>  | 16.3  |
| <b>4</b>  | 23.5  |
| <b>5</b>  | 30.7  |
| <b>6</b>  | 37.9  |
| <b>7</b>  | 45.1  |
| <b>8</b>  | 52.3  |
| <b>9</b>  | 59.5  |
| <b>10</b> | 66.7  |
| <b>11</b> | 73.9  |
| <b>12</b> | 81.1  |
| <b>13</b> | 88.3  |
| <b>14</b> | 95.5  |
| <b>15</b> | 102.7 |
| <b>16</b> | 109.9 |
| <b>17</b> | 117.1 |
| <b>18</b> | 124.3 |
| <b>19</b> | 131.5 |
| <b>20</b> | 138.7 |
| <b>21</b> | 145.9 |
| <b>22</b> | 153.1 |
| <b>23</b> | 160.3 |
| <b>24</b> | 167.5 |
| <b>25</b> | 174.7 |
| <b>26</b> | 181.9 |
| <b>27</b> | 189.1 |

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|    |       |
|----|-------|
| 28 | 196.3 |
| 29 | 203.5 |
| 30 | 210.7 |
| 31 | 217.9 |
| 32 | 225.1 |
| 33 | 232.3 |
| 34 | 239.5 |
| 35 | 246.7 |
| 36 | 253.9 |
| 37 | 261.1 |
| 38 | 268.3 |
| 39 | 275.5 |
| 40 | 282.7 |
| 41 | 289.9 |
| 42 | 297.1 |
| 43 | 304.3 |
| 44 | 311.5 |
| 45 | 318.7 |
| 46 | 325.9 |
| 47 | 333.1 |
| 48 | 340.3 |
| 49 | 354.7 |
| 50 | 347.5 |

**Orbital Plane 3:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 22.5 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 32.6   |
| 2                | 39.8   |
| 3                | 47.0   |
| 4                | 54.2   |
| 5                | 61.4   |
| 6                | 68.6   |
| 7                | 75.8   |
| 8                | 83.0   |
| 9                | 90.2   |
| 10               | 97.4   |
| 11               | 104.6  |
| 12               | 111.8  |
| 13               | 119.0  |
| 14               | 126.2  |
| 15               | 133.4  |
| 16               | 140.6  |

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|           |       |
|-----------|-------|
| <b>17</b> | 147.8 |
| <b>18</b> | 155.0 |
| <b>19</b> | 162.2 |
| <b>20</b> | 169.4 |
| <b>21</b> | 176.6 |
| <b>22</b> | 183.8 |
| <b>23</b> | 191.0 |
| <b>24</b> | 198.2 |
| <b>25</b> | 205.4 |
| <b>26</b> | 212.6 |
| <b>27</b> | 219.8 |
| <b>28</b> | 227.0 |
| <b>29</b> | 234.2 |
| <b>30</b> | 241.4 |
| <b>31</b> | 248.6 |
| <b>32</b> | 255.8 |
| <b>33</b> | 263.0 |
| <b>34</b> | 270.2 |
| <b>35</b> | 277.4 |
| <b>36</b> | 284.6 |
| <b>37</b> | 291.8 |
| <b>38</b> | 299.0 |
| <b>39</b> | 306.2 |
| <b>40</b> | 313.4 |
| <b>41</b> | 356.6 |
| <b>42</b> | 349.4 |

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|           |       |
|-----------|-------|
| <b>43</b> | 342.2 |
| <b>44</b> | 335.0 |
| <b>45</b> | 327.8 |
| <b>46</b> | 320.6 |
| <b>47</b> | 25.4  |
| <b>48</b> | 18.2  |
| <b>49</b> | 11.0  |
| <b>50</b> | 3.8   |

### Orbital Plane 4:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 33.8 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 358.5  |
| <b>2</b>         | 351.3  |
| <b>3</b>         | 344.1  |
| <b>4</b>         | 336.9  |

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|           |       |
|-----------|-------|
| <b>5</b>  | 329.7 |
| <b>6</b>  | 322.5 |
| <b>7</b>  | 315.3 |
| <b>8</b>  | 308.1 |
| <b>9</b>  | 300.9 |
| <b>10</b> | 293.7 |
| <b>11</b> | 286.5 |
| <b>12</b> | 279.3 |
| <b>13</b> | 272.1 |
| <b>14</b> | 264.9 |
| <b>15</b> | 257.7 |
| <b>16</b> | 250.5 |
| <b>17</b> | 243.3 |
| <b>18</b> | 236.1 |
| <b>19</b> | 228.9 |
| <b>20</b> | 221.7 |
| <b>21</b> | 214.5 |
| <b>22</b> | 207.3 |
| <b>23</b> | 200.1 |
| <b>24</b> | 192.9 |
| <b>25</b> | 185.7 |
| <b>26</b> | 178.5 |
| <b>27</b> | 171.3 |
| <b>28</b> | 164.1 |
| <b>29</b> | 156.9 |
| <b>30</b> | 149.7 |

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|    |       |
|----|-------|
| 31 | 142.5 |
| 32 | 135.3 |
| 33 | 128.1 |
| 34 | 120.9 |
| 35 | 113.7 |
| 36 | 106.5 |
| 37 | 99.3  |
| 38 | 92.1  |
| 39 | 84.9  |
| 40 | 77.7  |
| 41 | 70.5  |
| 42 | 63.3  |
| 43 | 56.1  |
| 44 | 48.9  |
| 45 | 41.7  |
| 46 | 34.5  |
| 47 | 27.3  |
| 48 | 20.1  |
| 49 | 12.9  |
| 50 | 5.7   |

**Orbital Plane 5:**

| Question                          | Response     |
|-----------------------------------|--------------|
| Number of Satellites in Plane     | 50           |
| Inclination Angle                 | 53.0 degrees |
| Right Ascension of Ascending Node | 45.0 degrees |
| Argument of Perigee               | 0.0 degrees  |

|   |                |
|---|----------------|
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 65.3   |
| 2                | 72.5   |
| 3                | 79.7   |
| 4                | 86.9   |
| 5                | 94.1   |
| 6                | 101.3  |
| 7                | 108.5  |
| 8                | 115.7  |
| 9                | 122.9  |
| 10               | 130.1  |
| 11               | 137.3  |
| 12               | 144.5  |
| 13               | 151.7  |
| 14               | 158.9  |
| 15               | 166.1  |
| 16               | 173.3  |
| 17               | 180.5  |
| 18               | 187.7  |
| 19               | 194.9  |

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|           |       |
|-----------|-------|
| <b>20</b> | 202.1 |
| <b>21</b> | 245.3 |
| <b>22</b> | 252.5 |
| <b>23</b> | 259.7 |
| <b>24</b> | 266.9 |
| <b>25</b> | 274.1 |
| <b>26</b> | 346.1 |
| <b>27</b> | 338.9 |
| <b>28</b> | 331.7 |
| <b>29</b> | 324.5 |
| <b>30</b> | 317.3 |
| <b>31</b> | 310.1 |
| <b>32</b> | 302.9 |
| <b>33</b> | 295.7 |
| <b>34</b> | 288.5 |
| <b>35</b> | 281.3 |
| <b>36</b> | 238.1 |
| <b>37</b> | 230.9 |
| <b>38</b> | 223.7 |
| <b>39</b> | 216.5 |
| <b>40</b> | 209.3 |
| <b>41</b> | 22.1  |
| <b>42</b> | 29.3  |
| <b>43</b> | 36.5  |
| <b>44</b> | 43.7  |
| <b>45</b> | 50.9  |

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|           |       |
|-----------|-------|
| <b>46</b> | 58.1  |
| <b>47</b> | 0.5   |
| <b>48</b> | 353.3 |
| <b>49</b> | 14.9  |
| <b>50</b> | 7.7   |

## Orbital Plane 6:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 56.3 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 124.8  |
| <b>2</b>         | 117.6  |
| <b>3</b>         | 110.4  |
| <b>4</b>         | 103.2  |
| <b>5</b>         | 96.0   |
| <b>6</b>         | 88.8   |
| <b>7</b>         | 81.6   |

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|           |       |
|-----------|-------|
| <b>8</b>  | 74.4  |
| <b>9</b>  | 67.2  |
| <b>10</b> | 60.0  |
| <b>11</b> | 52.8  |
| <b>12</b> | 204.0 |
| <b>13</b> | 196.8 |
| <b>14</b> | 189.6 |
| <b>15</b> | 182.4 |
| <b>16</b> | 175.2 |
| <b>17</b> | 168.0 |
| <b>18</b> | 160.8 |
| <b>19</b> | 153.6 |
| <b>20</b> | 146.4 |
| <b>21</b> | 139.2 |
| <b>22</b> | 132.0 |
| <b>23</b> | 45.6  |
| <b>24</b> | 38.4  |
| <b>25</b> | 31.2  |
| <b>26</b> | 24.0  |
| <b>27</b> | 16.8  |
| <b>28</b> | 283.2 |
| <b>29</b> | 290.4 |
| <b>30</b> | 297.6 |
| <b>31</b> | 304.8 |
| <b>32</b> | 312.0 |
| <b>33</b> | 319.2 |

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|    |       |
|----|-------|
| 34 | 326.4 |
| 35 | 333.6 |
| 36 | 340.8 |
| 37 | 348.0 |
| 38 | 2.4   |
| 39 | 355.2 |
| 40 | 225.6 |
| 41 | 232.8 |
| 42 | 240.0 |
| 43 | 247.2 |
| 44 | 254.4 |
| 45 | 261.6 |
| 46 | 268.8 |
| 47 | 276.0 |
| 48 | 9.6   |
| 49 | 211.2 |
| 50 | 218.4 |

### Orbital Plane 7:

| Question                          | Response       |
|-----------------------------------|----------------|
| Number of Satellites in Plane     | 50             |
| Inclination Angle                 | 53.0 degrees   |
| Right Ascension of Ascending Node | 67.5 degrees   |
| Argument of Perigee               | 0.0 degrees    |
| Orbital Period                    | 6480.0 seconds |
| Apogee                            | 1150.0 km      |
| Perigee                           | 1150.0 km      |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 4.3  |
| 2                | 357.1  |
| 3                | 349.9  |
| 4                | 342.7  |
| 5                | 335.5  |
| 6                | 328.3  |
| 7                | 321.1  |
| 8                | 313.9  |
| 9                | 306.7  |
| 10               | 299.5  |
| 11               | 292.3  |
| 12               | 285.1  |
| 13               | 277.9  |
| 14               | 270.7  |
| 15               | 263.5  |
| 16               | 256.3  |
| 17               | 249.1  |
| 18               | 241.9  |
| 19               | 234.7  |
| 20               | 227.5  |
| 21               | 220.3  |

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|           |       |
|-----------|-------|
| <b>22</b> | 213.1 |
| <b>23</b> | 205.9 |
| <b>24</b> | 198.7 |
| <b>25</b> | 191.5 |
| <b>26</b> | 184.3 |
| <b>27</b> | 177.1 |
| <b>28</b> | 169.9 |
| <b>29</b> | 162.7 |
| <b>30</b> | 155.5 |
| <b>31</b> | 148.3 |
| <b>32</b> | 141.1 |
| <b>33</b> | 133.9 |
| <b>34</b> | 126.7 |
| <b>35</b> | 119.5 |
| <b>36</b> | 112.3 |
| <b>37</b> | 105.1 |
| <b>38</b> | 97.9  |
| <b>39</b> | 90.7  |
| <b>40</b> | 83.5  |
| <b>41</b> | 76.3  |
| <b>42</b> | 69.1  |
| <b>43</b> | 61.9  |
| <b>44</b> | 54.7  |
| <b>45</b> | 47.5  |
| <b>46</b> | 40.3  |
| <b>47</b> | 33.1  |

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|           |      |
|-----------|------|
| <b>48</b> | 25.9 |
| <b>49</b> | 18.7 |
| <b>50</b> | 11.5 |

### Orbital Plane 8:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 78.8 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 6.2  |
| <b>2</b>         | 359.0  |
| <b>3</b>         | 351.8  |
| <b>4</b>         | 344.6  |
| <b>5</b>         | 337.4  |
| <b>6</b>         | 330.2  |
| <b>7</b>         | 323.0  |
| <b>8</b>         | 315.8  |
| <b>9</b>         | 308.6  |

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|           |       |
|-----------|-------|
| <b>10</b> | 301.4 |
| <b>11</b> | 294.2 |
| <b>12</b> | 287.0 |
| <b>13</b> | 279.8 |
| <b>14</b> | 272.6 |
| <b>15</b> | 265.4 |
| <b>16</b> | 258.2 |
| <b>17</b> | 251.0 |
| <b>18</b> | 243.8 |
| <b>19</b> | 236.6 |
| <b>20</b> | 229.4 |
| <b>21</b> | 222.2 |
| <b>22</b> | 215.0 |
| <b>23</b> | 207.8 |
| <b>24</b> | 200.6 |
| <b>25</b> | 193.4 |
| <b>26</b> | 186.2 |
| <b>27</b> | 179.0 |
| <b>28</b> | 171.8 |
| <b>29</b> | 164.6 |
| <b>30</b> | 157.4 |
| <b>31</b> | 150.2 |
| <b>32</b> | 143.0 |
| <b>33</b> | 135.8 |
| <b>34</b> | 128.6 |
| <b>35</b> | 121.4 |

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|           |       |
|-----------|-------|
| <b>36</b> | 114.2 |
| <b>37</b> | 107.0 |
| <b>38</b> | 99.8  |
| <b>39</b> | 92.6  |
| <b>40</b> | 85.4  |
| <b>41</b> | 78.2  |
| <b>42</b> | 71.0  |
| <b>43</b> | 63.8  |
| <b>44</b> | 56.6  |
| <b>45</b> | 49.4  |
| <b>46</b> | 42.2  |
| <b>47</b> | 35.0  |
| <b>48</b> | 27.8  |
| <b>49</b> | 20.6  |
| <b>50</b> | 13.4  |

**Orbital Plane 9:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 90.0 degrees    |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |



## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 8.1  |
| 2                | 0.9  |
| 3                | 353.7  |
| 4                | 346.5  |
| 5                | 339.3  |
| 6                | 332.1  |
| 7                | 324.9  |
| 8                | 317.7  |
| 9                | 310.5  |
| 10               | 303.3  |
| 11               | 296.1  |
| 12               | 288.9  |
| 13               | 281.7  |
| 14               | 274.5  |
| 15               | 267.3  |
| 16               | 260.1  |
| 17               | 252.9  |
| 18               | 245.7  |
| 19               | 238.5  |
| 20               | 231.3  |
| 21               | 224.1  |
| 22               | 216.9  |
| 23               | 209.7  |
| 24               | 202.5  |

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|           |       |
|-----------|-------|
| <b>25</b> | 195.3 |
| <b>26</b> | 188.1 |
| <b>27</b> | 180.9 |
| <b>28</b> | 173.7 |
| <b>29</b> | 166.5 |
| <b>30</b> | 159.3 |
| <b>31</b> | 152.1 |
| <b>32</b> | 144.9 |
| <b>33</b> | 137.7 |
| <b>34</b> | 130.5 |
| <b>35</b> | 123.3 |
| <b>36</b> | 116.1 |
| <b>37</b> | 108.9 |
| <b>38</b> | 101.7 |
| <b>39</b> | 94.5  |
| <b>40</b> | 87.3  |
| <b>41</b> | 80.1  |
| <b>42</b> | 72.9  |
| <b>43</b> | 65.7  |
| <b>44</b> | 58.5  |
| <b>45</b> | 51.3  |
| <b>46</b> | 44.1  |
| <b>47</b> | 36.9  |
| <b>48</b> | 29.7  |
| <b>49</b> | 22.5  |
| <b>50</b> | 15.3  |

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## Orbital Plane 10:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 101.3 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 17.2   |
| 2                | 24.4   |
| 3                | 31.6   |
| 4                | 139.6  |
| 5                | 146.8  |
| 6                | 154.0  |
| 7                | 161.2  |
| 8                | 168.4  |
| 9                | 175.6  |
| 10               | 182.8  |
| 11               | 190.0  |
| 12               | 197.2  |
| 13               | 204.4  |

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|           |       |
|-----------|-------|
| <b>14</b> | 211.6 |
| <b>15</b> | 218.8 |
| <b>16</b> | 226.0 |
| <b>17</b> | 233.2 |
| <b>18</b> | 240.4 |
| <b>19</b> | 247.6 |
| <b>20</b> | 254.8 |
| <b>21</b> | 262.0 |
| <b>22</b> | 269.2 |
| <b>23</b> | 276.4 |
| <b>24</b> | 283.6 |
| <b>25</b> | 290.8 |
| <b>26</b> | 298.0 |
| <b>27</b> | 305.2 |
| <b>28</b> | 312.4 |
| <b>29</b> | 319.6 |
| <b>30</b> | 326.8 |
| <b>31</b> | 334.0 |
| <b>32</b> | 341.2 |
| <b>33</b> | 348.4 |
| <b>34</b> | 355.6 |
| <b>35</b> | 2.8   |
| <b>36</b> | 10.0  |
| <b>37</b> | 132.4 |
| <b>38</b> | 125.2 |
| <b>39</b> | 118.0 |

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|           |       |
|-----------|-------|
| <b>40</b> | 110.8 |
| <b>41</b> | 103.6 |
| <b>42</b> | 96.4  |
| <b>43</b> | 89.2  |
| <b>44</b> | 82.0  |
| <b>45</b> | 74.8  |
| <b>46</b> | 67.6  |
| <b>47</b> | 60.4  |
| <b>48</b> | 53.2  |
| <b>49</b> | 46.0  |
| <b>50</b> | 38.8  |

**Orbital Plane 11:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 112.5 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 11.9  |

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|           |       |
|-----------|-------|
| <b>2</b>  | 4.7   |
| <b>3</b>  | 357.5 |
| <b>4</b>  | 350.3 |
| <b>5</b>  | 343.1 |
| <b>6</b>  | 335.9 |
| <b>7</b>  | 328.7 |
| <b>8</b>  | 321.5 |
| <b>9</b>  | 314.3 |
| <b>10</b> | 307.1 |
| <b>11</b> | 299.9 |
| <b>12</b> | 292.7 |
| <b>13</b> | 285.5 |
| <b>14</b> | 278.3 |
| <b>15</b> | 271.1 |
| <b>16</b> | 263.9 |
| <b>17</b> | 256.7 |
| <b>18</b> | 249.5 |
| <b>19</b> | 242.3 |
| <b>20</b> | 235.1 |
| <b>21</b> | 227.9 |
| <b>22</b> | 220.7 |
| <b>23</b> | 213.5 |
| <b>24</b> | 206.3 |
| <b>25</b> | 199.1 |
| <b>26</b> | 191.9 |
| <b>27</b> | 184.7 |

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|    |       |
|----|-------|
| 28 | 177.5 |
| 29 | 170.3 |
| 30 | 163.1 |
| 31 | 155.9 |
| 32 | 148.7 |
| 33 | 141.5 |
| 34 | 134.3 |
| 35 | 127.1 |
| 36 | 119.9 |
| 37 | 112.7 |
| 38 | 105.5 |
| 39 | 98.3  |
| 40 | 91.1  |
| 41 | 83.9  |
| 42 | 76.7  |
| 43 | 69.5  |
| 44 | 62.3  |
| 45 | 55.1  |
| 46 | 47.9  |
| 47 | 40.7  |
| 48 | 33.5  |
| 49 | 26.3  |
| 50 | 19.1  |

**Orbital Plane 12:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 123.8 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 13.8   |
| 2                | 6.6  |
| 3                | 359.4  |
| 4                | 352.2  |
| 5                | 345.0  |
| 6                | 337.8  |
| 7                | 330.6  |
| 8                | 323.4  |
| 9                | 316.2  |
| 10               | 309.0  |
| 11               | 301.8  |
| 12               | 294.6  |
| 13               | 287.4  |
| 14               | 280.2  |
| 15               | 273.0  |
| 16               | 265.8  |



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|           |       |
|-----------|-------|
| <b>17</b> | 258.6 |
| <b>18</b> | 251.4 |
| <b>19</b> | 244.2 |
| <b>20</b> | 237.0 |
| <b>21</b> | 229.8 |
| <b>22</b> | 222.6 |
| <b>23</b> | 215.4 |
| <b>24</b> | 208.2 |
| <b>25</b> | 201.0 |
| <b>26</b> | 193.8 |
| <b>27</b> | 186.6 |
| <b>28</b> | 179.4 |
| <b>29</b> | 172.2 |
| <b>30</b> | 165.0 |
| <b>31</b> | 157.8 |
| <b>32</b> | 150.6 |
| <b>33</b> | 143.4 |
| <b>34</b> | 136.2 |
| <b>35</b> | 129.0 |
| <b>36</b> | 121.8 |
| <b>37</b> | 114.6 |
| <b>38</b> | 107.4 |
| <b>39</b> | 100.2 |
| <b>40</b> | 93.0  |
| <b>41</b> | 85.8  |
| <b>42</b> | 78.6  |

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|           |      |
|-----------|------|
| <b>43</b> | 71.4 |
| <b>44</b> | 64.2 |
| <b>45</b> | 57.0 |
| <b>46</b> | 49.8 |
| <b>47</b> | 42.6 |
| <b>48</b> | 35.4 |
| <b>49</b> | 28.2 |
| <b>50</b> | 21.0 |

**Orbital Plane 13:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 135.0 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 23.0  |
| <b>2</b>                | 30.2  |
| <b>3</b>                | 37.4  |
| <b>4</b>                | 44.6  |

---

|           |       |
|-----------|-------|
| <b>5</b>  | 51.8  |
| <b>6</b>  | 59.0  |
| <b>7</b>  | 66.2  |
| <b>8</b>  | 73.4  |
| <b>9</b>  | 80.6  |
| <b>10</b> | 87.8  |
| <b>11</b> | 95.0  |
| <b>12</b> | 102.2 |
| <b>13</b> | 109.4 |
| <b>14</b> | 116.6 |
| <b>15</b> | 123.8 |
| <b>16</b> | 131.0 |
| <b>17</b> | 138.2 |
| <b>18</b> | 145.4 |
| <b>19</b> | 152.6 |
| <b>20</b> | 159.8 |
| <b>21</b> | 167.0 |
| <b>22</b> | 174.2 |
| <b>23</b> | 181.4 |
| <b>24</b> | 188.6 |
| <b>25</b> | 195.8 |
| <b>26</b> | 203.0 |
| <b>27</b> | 210.2 |
| <b>28</b> | 217.4 |
| <b>29</b> | 224.6 |
| <b>30</b> | 231.8 |

---

|    |       |
|----|-------|
| 31 | 239.0 |
| 32 | 246.2 |
| 33 | 253.4 |
| 34 | 260.6 |
| 35 | 267.8 |
| 36 | 275.0 |
| 37 | 282.2 |
| 38 | 289.4 |
| 39 | 296.6 |
| 40 | 303.8 |
| 41 | 311.0 |
| 42 | 318.2 |
| 43 | 325.4 |
| 44 | 332.6 |
| 45 | 339.8 |
| 46 | 347.0 |
| 47 | 354.2 |
| 48 | 1.4   |
| 49 | 8.6   |
| 50 | 15.8  |

**Orbital Plane 14:**

| Question                          | Response      |
|-----------------------------------|---------------|
| Number of Satellites in Plane     | 50            |
| Inclination Angle                 | 53.0 degrees  |
| Right Ascension of Ascending Node | 146.3 degrees |
| Argument of Perigee               | 0.0 degrees   |

|   |                |
|---|----------------|
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 204.9  |
| 2                | 212.1  |
| 3                | 219.3  |
| 4                | 226.5  |
| 5                | 233.7  |
| 6                | 240.9  |
| 7                | 248.1  |
| 8                | 255.3  |
| 9                | 262.5  |
| 10               | 269.7  |
| 11               | 276.9  |
| 12               | 284.1  |
| 13               | 291.3  |
| 14               | 298.5  |
| 15               | 305.7  |
| 16               | 312.9  |
| 17               | 320.1  |
| 18               | 327.3  |
| 19               | 334.5  |

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|           |       |
|-----------|-------|
| <b>20</b> | 341.7 |
| <b>21</b> | 348.9 |
| <b>22</b> | 356.1 |
| <b>23</b> | 3.3   |
| <b>24</b> | 10.5  |
| <b>25</b> | 17.7  |
| <b>26</b> | 197.7 |
| <b>27</b> | 190.5 |
| <b>28</b> | 183.3 |
| <b>29</b> | 176.1 |
| <b>30</b> | 168.9 |
| <b>31</b> | 161.7 |
| <b>32</b> | 154.5 |
| <b>33</b> | 147.3 |
| <b>34</b> | 140.1 |
| <b>35</b> | 132.9 |
| <b>36</b> | 125.7 |
| <b>37</b> | 118.5 |
| <b>38</b> | 111.3 |
| <b>39</b> | 104.1 |
| <b>40</b> | 96.9  |
| <b>41</b> | 89.7  |
| <b>42</b> | 82.5  |
| <b>43</b> | 75.3  |
| <b>44</b> | 68.1  |
| <b>45</b> | 60.9  |

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|           |      |
|-----------|------|
| <b>46</b> | 53.7 |
| <b>47</b> | 46.5 |
| <b>48</b> | 39.3 |
| <b>49</b> | 32.1 |
| <b>50</b> | 24.9 |

### Orbital Plane 15:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 157.5 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 19.6   |
| <b>2</b>         | 12.4   |
| <b>3</b>         | 5.2  |
| <b>4</b>         | 358.0  |
| <b>5</b>         | 350.8  |
| <b>6</b>         | 343.6  |
| <b>7</b>         | 336.4  |

---

|           |       |
|-----------|-------|
| <b>8</b>  | 329.2 |
| <b>9</b>  | 322.0 |
| <b>10</b> | 314.8 |
| <b>11</b> | 307.6 |
| <b>12</b> | 300.4 |
| <b>13</b> | 293.2 |
| <b>14</b> | 286.0 |
| <b>15</b> | 278.8 |
| <b>16</b> | 271.6 |
| <b>17</b> | 264.4 |
| <b>18</b> | 257.2 |
| <b>19</b> | 250.0 |
| <b>20</b> | 242.8 |
| <b>21</b> | 235.6 |
| <b>22</b> | 228.4 |
| <b>23</b> | 221.2 |
| <b>24</b> | 214.0 |
| <b>25</b> | 206.8 |
| <b>26</b> | 199.6 |
| <b>27</b> | 192.4 |
| <b>28</b> | 185.2 |
| <b>29</b> | 178.0 |
| <b>30</b> | 170.8 |
| <b>31</b> | 163.6 |
| <b>32</b> | 156.4 |
| <b>33</b> | 149.2 |

---



|    |       |
|----|-------|
| 34 | 142.0 |
| 35 | 134.8 |
| 36 | 127.6 |
| 37 | 120.4 |
| 38 | 113.2 |
| 39 | 106.0 |
| 40 | 98.8  |
| 41 | 91.6  |
| 42 | 84.4  |
| 43 | 77.2  |
| 44 | 70.0  |
| 45 | 62.8  |
| 46 | 55.6  |
| 47 | 48.4  |
| 48 | 41.2  |
| 49 | 34.0  |
| 50 | 26.8  |

**Orbital Plane 16:**

| Question                          | Response       |
|-----------------------------------|----------------|
| Number of Satellites in Plane     | 50             |
| Inclination Angle                 | 53.0 degrees   |
| Right Ascension of Ascending Node | 168.8 degrees  |
| Argument of Perigee               | 0.0 degrees    |
| Orbital Period                    | 6480.0 seconds |
| Apogee                            | 1150.0 km      |
| Perigee                           | 1150.0 km      |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 21.5   |
| 2                | 14.3   |
| 3                | 7.1  |
| 4                | 359.9  |
| 5                | 352.7  |
| 6                | 345.5  |
| 7                | 338.3  |
| 8                | 331.1  |
| 9                | 323.9  |
| 10               | 316.7  |
| 11               | 309.5  |
| 12               | 302.3  |
| 13               | 295.1  |
| 14               | 287.9  |
| 15               | 280.7  |
| 16               | 273.5  |
| 17               | 266.3  |
| 18               | 259.1  |
| 19               | 251.9  |
| 20               | 244.7  |
| 21               | 237.5  |

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|           |       |
|-----------|-------|
| <b>22</b> | 230.3 |
| <b>23</b> | 223.1 |
| <b>24</b> | 215.9 |
| <b>25</b> | 208.7 |
| <b>26</b> | 201.5 |
| <b>27</b> | 194.3 |
| <b>28</b> | 187.1 |
| <b>29</b> | 179.9 |
| <b>30</b> | 172.7 |
| <b>31</b> | 165.5 |
| <b>32</b> | 158.3 |
| <b>33</b> | 151.1 |
| <b>34</b> | 143.9 |
| <b>35</b> | 136.7 |
| <b>36</b> | 129.5 |
| <b>37</b> | 122.3 |
| <b>38</b> | 115.1 |
| <b>39</b> | 107.9 |
| <b>40</b> | 100.7 |
| <b>41</b> | 93.5  |
| <b>42</b> | 86.3  |
| <b>43</b> | 79.1  |
| <b>44</b> | 71.9  |
| <b>45</b> | 64.7  |
| <b>46</b> | 57.5  |
| <b>47</b> | 50.3  |

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|           |      |
|-----------|------|
| <b>48</b> | 43.1 |
| <b>49</b> | 35.9 |
| <b>50</b> | 28.7 |

### Orbital Plane 17:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 180.0 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 23.4   |
| <b>2</b>         | 16.2   |
| <b>3</b>         | 9.0  |
| <b>4</b>         | 1.8  |
| <b>5</b>         | 354.6  |
| <b>6</b>         | 347.4  |
| <b>7</b>         | 340.2  |
| <b>8</b>         | 333.0  |
| <b>9</b>         | 325.8  |

---

|           |       |
|-----------|-------|
| <b>10</b> | 318.6 |
| <b>11</b> | 311.4 |
| <b>12</b> | 304.2 |
| <b>13</b> | 297.0 |
| <b>14</b> | 289.8 |
| <b>15</b> | 282.6 |
| <b>16</b> | 275.4 |
| <b>17</b> | 268.2 |
| <b>18</b> | 261.0 |
| <b>19</b> | 253.8 |
| <b>20</b> | 246.6 |
| <b>21</b> | 239.4 |
| <b>22</b> | 232.2 |
| <b>23</b> | 225.0 |
| <b>24</b> | 217.8 |
| <b>25</b> | 210.6 |
| <b>26</b> | 203.4 |
| <b>27</b> | 196.2 |
| <b>28</b> | 189.0 |
| <b>29</b> | 181.8 |
| <b>30</b> | 174.6 |
| <b>31</b> | 167.4 |
| <b>32</b> | 160.2 |
| <b>33</b> | 153.0 |
| <b>34</b> | 145.8 |
| <b>35</b> | 138.6 |

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|           |       |
|-----------|-------|
| <b>36</b> | 131.4 |
| <b>37</b> | 124.2 |
| <b>38</b> | 117.0 |
| <b>39</b> | 109.8 |
| <b>40</b> | 102.6 |
| <b>41</b> | 95.4  |
| <b>42</b> | 88.2  |
| <b>43</b> | 81.0  |
| <b>44</b> | 73.8  |
| <b>45</b> | 66.6  |
| <b>46</b> | 59.4  |
| <b>47</b> | 52.2  |
| <b>48</b> | 45.0  |
| <b>49</b> | 37.8  |
| <b>50</b> | 30.6  |

**Orbital Plane 18:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 191.3 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 32.5   |
| 2                | 39.7   |
| 3                | 46.9   |
| 4                | 54.1   |
| 5                | 61.3   |
| 6                | 68.5   |
| 7                | 75.7   |
| 8                | 82.9   |
| 9                | 90.1   |
| 10               | 97.3   |
| 11               | 104.5  |
| 12               | 111.7  |
| 13               | 118.9  |
| 14               | 126.1  |
| 15               | 133.3  |
| 16               | 140.5  |
| 17               | 147.7  |
| 18               | 154.9  |
| 19               | 162.1  |
| 20               | 169.3  |
| 21               | 176.5  |
| 22               | 183.7  |
| 23               | 190.9  |
| 24               | 198.1  |

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|           |       |
|-----------|-------|
| <b>25</b> | 205.3 |
| <b>26</b> | 212.5 |
| <b>27</b> | 219.7 |
| <b>28</b> | 226.9 |
| <b>29</b> | 234.1 |
| <b>30</b> | 241.3 |
| <b>31</b> | 248.5 |
| <b>32</b> | 255.7 |
| <b>33</b> | 262.9 |
| <b>34</b> | 270.1 |
| <b>35</b> | 277.3 |
| <b>36</b> | 284.5 |
| <b>37</b> | 291.7 |
| <b>38</b> | 298.9 |
| <b>39</b> | 306.1 |
| <b>40</b> | 313.3 |
| <b>41</b> | 320.5 |
| <b>42</b> | 327.7 |
| <b>43</b> | 334.9 |
| <b>44</b> | 25.3  |
| <b>45</b> | 18.1  |
| <b>46</b> | 10.9  |
| <b>47</b> | 3.7   |
| <b>48</b> | 356.5 |
| <b>49</b> | 349.3 |
| <b>50</b> | 342.1 |

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## Orbital Plane 19:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 202.5 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 27.2   |
| 2                | 20.0   |
| 3                | 12.8   |
| 4                | 5.6  |
| 5                | 358.4  |
| 6                | 351.2  |
| 7                | 344.0  |
| 8                | 336.8  |
| 9                | 329.6  |
| 10               | 322.4  |
| 11               | 315.2  |
| 12               | 308.0  |
| 13               | 300.8  |

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|           |       |
|-----------|-------|
| <b>14</b> | 293.6 |
| <b>15</b> | 286.4 |
| <b>16</b> | 279.2 |
| <b>17</b> | 272.0 |
| <b>18</b> | 264.8 |
| <b>19</b> | 257.6 |
| <b>20</b> | 250.4 |
| <b>21</b> | 243.2 |
| <b>22</b> | 236.0 |
| <b>23</b> | 228.8 |
| <b>24</b> | 221.6 |
| <b>25</b> | 214.4 |
| <b>26</b> | 207.2 |
| <b>27</b> | 200.0 |
| <b>28</b> | 192.8 |
| <b>29</b> | 185.6 |
| <b>30</b> | 178.4 |
| <b>31</b> | 171.2 |
| <b>32</b> | 164.0 |
| <b>33</b> | 156.8 |
| <b>34</b> | 149.6 |
| <b>35</b> | 142.4 |
| <b>36</b> | 135.2 |
| <b>37</b> | 128.0 |
| <b>38</b> | 120.8 |
| <b>39</b> | 113.6 |

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|           |       |
|-----------|-------|
| <b>40</b> | 106.4 |
| <b>41</b> | 99.2  |
| <b>42</b> | 92.0  |
| <b>43</b> | 84.8  |
| <b>44</b> | 77.6  |
| <b>45</b> | 70.4  |
| <b>46</b> | 63.2  |
| <b>47</b> | 56.0  |
| <b>48</b> | 48.8  |
| <b>49</b> | 41.6  |
| <b>50</b> | 34.4  |

**Orbital Plane 20:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 213.8 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 29.1  |

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|           |       |
|-----------|-------|
| <b>2</b>  | 21.9  |
| <b>3</b>  | 14.7  |
| <b>4</b>  | 7.5   |
| <b>5</b>  | 0.3   |
| <b>6</b>  | 353.1 |
| <b>7</b>  | 345.9 |
| <b>8</b>  | 338.7 |
| <b>9</b>  | 331.5 |
| <b>10</b> | 324.3 |
| <b>11</b> | 317.1 |
| <b>12</b> | 309.9 |
| <b>13</b> | 302.7 |
| <b>14</b> | 295.5 |
| <b>15</b> | 288.3 |
| <b>16</b> | 281.1 |
| <b>17</b> | 273.9 |
| <b>18</b> | 266.7 |
| <b>19</b> | 259.5 |
| <b>20</b> | 252.3 |
| <b>21</b> | 245.1 |
| <b>22</b> | 237.9 |
| <b>23</b> | 230.7 |
| <b>24</b> | 223.5 |
| <b>25</b> | 216.3 |
| <b>26</b> | 209.1 |
| <b>27</b> | 201.9 |

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|    |       |
|----|-------|
| 28 | 194.7 |
| 29 | 187.5 |
| 30 | 180.3 |
| 31 | 173.1 |
| 32 | 165.9 |
| 33 | 158.7 |
| 34 | 151.5 |
| 35 | 144.3 |
| 36 | 137.1 |
| 37 | 129.9 |
| 38 | 122.7 |
| 39 | 115.5 |
| 40 | 108.3 |
| 41 | 101.1 |
| 42 | 93.9  |
| 43 | 86.7  |
| 44 | 79.5  |
| 45 | 72.3  |
| 46 | 65.1  |
| 47 | 57.9  |
| 48 | 50.7  |
| 49 | 43.5  |
| 50 | 36.3  |

**Orbital Plane 21:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 225.0 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 31.1   |
| 2                | 23.9   |
| 3                | 16.7   |
| 4                | 9.5  |
| 5                | 2.3  |
| 6                | 355.1  |
| 7                | 347.9  |
| 8                | 340.7  |
| 9                | 333.5  |
| 10               | 326.3  |
| 11               | 319.1  |
| 12               | 311.9  |
| 13               | 304.7  |
| 14               | 297.5  |
| 15               | 290.3  |
| 16               | 283.1  |

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|           |       |
|-----------|-------|
| <b>17</b> | 275.9 |
| <b>18</b> | 268.7 |
| <b>19</b> | 261.5 |
| <b>20</b> | 254.3 |
| <b>21</b> | 247.1 |
| <b>22</b> | 239.9 |
| <b>23</b> | 232.7 |
| <b>24</b> | 225.5 |
| <b>25</b> | 218.3 |
| <b>26</b> | 211.1 |
| <b>27</b> | 203.9 |
| <b>28</b> | 196.7 |
| <b>29</b> | 189.5 |
| <b>30</b> | 182.3 |
| <b>31</b> | 175.1 |
| <b>32</b> | 167.9 |
| <b>33</b> | 160.7 |
| <b>34</b> | 153.5 |
| <b>35</b> | 146.3 |
| <b>36</b> | 139.1 |
| <b>37</b> | 131.9 |
| <b>38</b> | 124.7 |
| <b>39</b> | 117.5 |
| <b>40</b> | 110.3 |
| <b>41</b> | 103.1 |
| <b>42</b> | 95.9  |

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|           |      |
|-----------|------|
| <b>43</b> | 88.7 |
| <b>44</b> | 81.5 |
| <b>45</b> | 74.3 |
| <b>46</b> | 67.1 |
| <b>47</b> | 38.3 |
| <b>48</b> | 45.5 |
| <b>49</b> | 52.7 |
| <b>50</b> | 59.9 |

**Orbital Plane 22:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 236.3 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 40.2  |
| <b>2</b>                | 47.4  |
| <b>3</b>                | 54.6  |
| <b>4</b>                | 61.8  |



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|           |       |
|-----------|-------|
| <b>5</b>  | 69.0  |
| <b>6</b>  | 76.2  |
| <b>7</b>  | 83.4  |
| <b>8</b>  | 90.6  |
| <b>9</b>  | 97.8  |
| <b>10</b> | 256.2 |
| <b>11</b> | 263.4 |
| <b>12</b> | 270.6 |
| <b>13</b> | 277.8 |
| <b>14</b> | 285.0 |
| <b>15</b> | 292.2 |
| <b>16</b> | 299.4 |
| <b>17</b> | 306.6 |
| <b>18</b> | 313.8 |
| <b>19</b> | 321.0 |
| <b>20</b> | 328.2 |
| <b>21</b> | 335.4 |
| <b>22</b> | 342.6 |
| <b>23</b> | 349.8 |
| <b>24</b> | 357.0 |
| <b>25</b> | 4.2   |
| <b>26</b> | 11.4  |
| <b>27</b> | 18.6  |
| <b>28</b> | 25.8  |
| <b>29</b> | 33.0  |
| <b>30</b> | 249.0 |

---

|    |       |
|----|-------|
| 31 | 241.8 |
| 32 | 234.6 |
| 33 | 227.4 |
| 34 | 220.2 |
| 35 | 213.0 |
| 36 | 205.8 |
| 37 | 198.6 |
| 38 | 191.4 |
| 39 | 184.2 |
| 40 | 177.0 |
| 41 | 169.8 |
| 42 | 162.6 |
| 43 | 155.4 |
| 44 | 148.2 |
| 45 | 141.0 |
| 46 | 133.8 |
| 47 | 126.6 |
| 48 | 119.4 |
| 49 | 112.2 |
| 50 | 105.0 |

**Orbital Plane 23:**

| Question                          | Response      |
|-----------------------------------|---------------|
| Number of Satellites in Plane     | 50            |
| Inclination Angle                 | 53.0 degrees  |
| Right Ascension of Ascending Node | 247.5 degrees |
| Argument of Perigee               | 0.0 degrees   |

|   |                |
|---|----------------|
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 34.9   |
| 2                | 27.7   |
| 3                | 20.5   |
| 4                | 13.3   |
| 5                | 6.1  |
| 6                | 358.9  |
| 7                | 351.7  |
| 8                | 344.5  |
| 9                | 337.3  |
| 10               | 330.1  |
| 11               | 322.9  |
| 12               | 315.7  |
| 13               | 308.5  |
| 14               | 301.3  |
| 15               | 294.1  |
| 16               | 286.9  |
| 17               | 279.7  |
| 18               | 272.5  |
| 19               | 265.3  |

---

|           |       |
|-----------|-------|
| <b>20</b> | 258.1 |
| <b>21</b> | 250.9 |
| <b>22</b> | 243.7 |
| <b>23</b> | 236.5 |
| <b>24</b> | 229.3 |
| <b>25</b> | 222.1 |
| <b>26</b> | 214.9 |
| <b>27</b> | 207.7 |
| <b>28</b> | 200.5 |
| <b>29</b> | 193.3 |
| <b>30</b> | 186.1 |
| <b>31</b> | 178.9 |
| <b>32</b> | 171.7 |
| <b>33</b> | 164.5 |
| <b>34</b> | 157.3 |
| <b>35</b> | 150.1 |
| <b>36</b> | 142.9 |
| <b>37</b> | 135.7 |
| <b>38</b> | 128.5 |
| <b>39</b> | 121.3 |
| <b>40</b> | 114.1 |
| <b>41</b> | 106.9 |
| <b>42</b> | 99.7  |
| <b>43</b> | 92.5  |
| <b>44</b> | 85.3  |
| <b>45</b> | 78.1  |

---

|           |      |
|-----------|------|
| <b>46</b> | 70.9 |
| <b>47</b> | 63.7 |
| <b>48</b> | 56.5 |
| <b>49</b> | 49.3 |
| <b>50</b> | 42.1 |

## Orbital Plane 24:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 258.8 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 36.8   |
| <b>2</b>         | 29.6   |
| <b>3</b>         | 22.4   |
| <b>4</b>         | 15.2   |
| <b>5</b>         | 8.0  |
| <b>6</b>         | 0.8  |
| <b>7</b>         | 353.6  |

---

|           |       |
|-----------|-------|
| <b>8</b>  | 346.4 |
| <b>9</b>  | 339.2 |
| <b>10</b> | 332.0 |
| <b>11</b> | 324.8 |
| <b>12</b> | 317.6 |
| <b>13</b> | 310.4 |
| <b>14</b> | 303.2 |
| <b>15</b> | 296.0 |
| <b>16</b> | 288.8 |
| <b>17</b> | 281.6 |
| <b>18</b> | 274.4 |
| <b>19</b> | 267.2 |
| <b>20</b> | 260.0 |
| <b>21</b> | 252.8 |
| <b>22</b> | 245.6 |
| <b>23</b> | 238.4 |
| <b>24</b> | 231.2 |
| <b>25</b> | 224.0 |
| <b>26</b> | 216.8 |
| <b>27</b> | 209.6 |
| <b>28</b> | 202.4 |
| <b>29</b> | 195.2 |
| <b>30</b> | 188.0 |
| <b>31</b> | 180.8 |
| <b>32</b> | 173.6 |
| <b>33</b> | 166.4 |

---

|    |       |
|----|-------|
| 34 | 159.2 |
| 35 | 152.0 |
| 36 | 144.8 |
| 37 | 137.6 |
| 38 | 130.4 |
| 39 | 123.2 |
| 40 | 116.0 |
| 41 | 108.8 |
| 42 | 101.6 |
| 43 | 94.4  |
| 44 | 87.2  |
| 45 | 80.0  |
| 46 | 72.8  |
| 47 | 65.6  |
| 48 | 58.4  |
| 49 | 51.2  |
| 50 | 44.0  |

### Orbital Plane 25:

| Question                          | Response       |
|-----------------------------------|----------------|
| Number of Satellites in Plane     | 50             |
| Inclination Angle                 | 53.0 degrees   |
| Right Ascension of Ascending Node | 270.0 degrees  |
| Argument of Perigee               | 0.0 degrees    |
| Orbital Period                    | 6480.0 seconds |
| Apogee                            | 1150.0 km      |
| Perigee                           | 1150.0 km      |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

---

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 38.7   |
| 2                | 31.5   |
| 3                | 24.3   |
| 4                | 17.1   |
| 5                | 9.9  |
| 6                | 2.7  |
| 7                | 355.5  |
| 8                | 348.3  |
| 9                | 341.1  |
| 10               | 333.9  |
| 11               | 326.7  |
| 12               | 319.5  |
| 13               | 312.3  |
| 14               | 305.1  |
| 15               | 297.9  |
| 16               | 290.7  |
| 17               | 283.5  |
| 18               | 276.3  |
| 19               | 269.1  |
| 20               | 261.9  |
| 21               | 254.7  |

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|           |       |
|-----------|-------|
| <b>22</b> | 247.5 |
| <b>23</b> | 240.3 |
| <b>24</b> | 233.1 |
| <b>25</b> | 225.9 |
| <b>26</b> | 218.7 |
| <b>27</b> | 211.5 |
| <b>28</b> | 204.3 |
| <b>29</b> | 197.1 |
| <b>30</b> | 189.9 |
| <b>31</b> | 182.7 |
| <b>32</b> | 175.5 |
| <b>33</b> | 168.3 |
| <b>34</b> | 161.1 |
| <b>35</b> | 153.9 |
| <b>36</b> | 146.7 |
| <b>37</b> | 139.5 |
| <b>38</b> | 132.3 |
| <b>39</b> | 125.1 |
| <b>40</b> | 117.9 |
| <b>41</b> | 110.7 |
| <b>42</b> | 103.5 |
| <b>43</b> | 96.3  |
| <b>44</b> | 89.1  |
| <b>45</b> | 81.9  |
| <b>46</b> | 74.7  |
| <b>47</b> | 67.5  |

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|           |      |
|-----------|------|
| <b>48</b> | 60.3 |
| <b>49</b> | 53.1 |
| <b>50</b> | 45.9 |

**Orbital Plane 26:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 281.3 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 47.8  |
| <b>2</b>                | 55.0  |
| <b>3</b>                | 62.2  |
| <b>4</b>                | 69.4  |
| <b>5</b>                | 76.6  |
| <b>6</b>                | 83.8  |
| <b>7</b>                | 91.0  |
| <b>8</b>                | 98.2  |
| <b>9</b>                | 105.4   |

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|           |       |
|-----------|-------|
| <b>10</b> | 112.6 |
| <b>11</b> | 119.8 |
| <b>12</b> | 127.0 |
| <b>13</b> | 134.2 |
| <b>14</b> | 141.4 |
| <b>15</b> | 148.6 |
| <b>16</b> | 155.8 |
| <b>17</b> | 163.0 |
| <b>18</b> | 170.2 |
| <b>19</b> | 177.4 |
| <b>20</b> | 184.6 |
| <b>21</b> | 191.8 |
| <b>22</b> | 199.0 |
| <b>23</b> | 206.2 |
| <b>24</b> | 213.4 |
| <b>25</b> | 220.6 |
| <b>26</b> | 227.8 |
| <b>27</b> | 235.0 |
| <b>28</b> | 242.2 |
| <b>29</b> | 249.4 |
| <b>30</b> | 256.6 |
| <b>31</b> | 263.8 |
| <b>32</b> | 271.0 |
| <b>33</b> | 278.2 |
| <b>34</b> | 285.4 |
| <b>35</b> | 292.6 |

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|           |       |
|-----------|-------|
| <b>36</b> | 299.8 |
| <b>37</b> | 307.0 |
| <b>38</b> | 314.2 |
| <b>39</b> | 321.4 |
| <b>40</b> | 328.6 |
| <b>41</b> | 335.8 |
| <b>42</b> | 343.0 |
| <b>43</b> | 350.2 |
| <b>44</b> | 357.4 |
| <b>45</b> | 4.6   |
| <b>46</b> | 11.8  |
| <b>47</b> | 19.0  |
| <b>48</b> | 26.2  |
| <b>49</b> | 33.4  |
| <b>50</b> | 40.6  |

**Orbital Plane 27:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 292.5 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 42.5   |
| 2                | 35.3   |
| 3                | 28.1   |
| 4                | 20.9   |
| 5                | 13.7   |
| 6                | 6.5  |
| 7                | 359.3  |
| 8                | 352.1  |
| 9                | 344.9  |
| 10               | 337.7  |
| 11               | 330.5  |
| 12               | 323.3  |
| 13               | 316.1  |
| 14               | 308.9  |
| 15               | 301.7  |
| 16               | 294.5  |
| 17               | 287.3  |
| 18               | 280.1  |
| 19               | 272.9  |
| 20               | 265.7  |
| 21               | 258.5  |
| 22               | 251.3  |
| 23               | 244.1  |
| 24               | 236.9  |

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|           |       |
|-----------|-------|
| <b>25</b> | 229.7 |
| <b>26</b> | 222.5 |
| <b>27</b> | 215.3 |
| <b>28</b> | 208.1 |
| <b>29</b> | 200.9 |
| <b>30</b> | 193.7 |
| <b>31</b> | 186.5 |
| <b>32</b> | 179.3 |
| <b>33</b> | 172.1 |
| <b>34</b> | 164.9 |
| <b>35</b> | 157.7 |
| <b>36</b> | 150.5 |
| <b>37</b> | 143.3 |
| <b>38</b> | 136.1 |
| <b>39</b> | 128.9 |
| <b>40</b> | 121.7 |
| <b>41</b> | 114.5 |
| <b>42</b> | 107.3 |
| <b>43</b> | 100.1 |
| <b>44</b> | 92.9  |
| <b>45</b> | 85.7  |
| <b>46</b> | 78.5  |
| <b>47</b> | 71.3  |
| <b>48</b> | 64.1  |
| <b>49</b> | 56.9  |
| <b>50</b> | 49.7  |

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## Orbital Plane 28:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 303.8 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 44.4   |
| 2                | 37.2   |
| 3                | 30.0   |
| 4                | 22.8   |
| 5                | 15.6   |
| 6                | 8.4  |
| 7                | 1.2  |
| 8                | 354.0  |
| 9                | 346.8  |
| 10               | 339.6  |
| 11               | 332.4  |
| 12               | 325.2  |
| 13               | 318.0  |

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|           |       |
|-----------|-------|
| <b>14</b> | 310.8 |
| <b>15</b> | 303.6 |
| <b>16</b> | 296.4 |
| <b>17</b> | 289.2 |
| <b>18</b> | 282.0 |
| <b>19</b> | 274.8 |
| <b>20</b> | 267.6 |
| <b>21</b> | 260.4 |
| <b>22</b> | 253.2 |
| <b>23</b> | 246.0 |
| <b>24</b> | 238.8 |
| <b>25</b> | 231.6 |
| <b>26</b> | 224.4 |
| <b>27</b> | 217.2 |
| <b>28</b> | 210.0 |
| <b>29</b> | 202.8 |
| <b>30</b> | 195.6 |
| <b>31</b> | 188.4 |
| <b>32</b> | 181.2 |
| <b>33</b> | 174.0 |
| <b>34</b> | 166.8 |
| <b>35</b> | 159.6 |
| <b>36</b> | 152.4 |
| <b>37</b> | 145.2 |
| <b>38</b> | 138.0 |
| <b>39</b> | 130.8 |

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|           |       |
|-----------|-------|
| <b>40</b> | 123.6 |
| <b>41</b> | 116.4 |
| <b>42</b> | 109.2 |
| <b>43</b> | 102.0 |
| <b>44</b> | 94.8  |
| <b>45</b> | 87.6  |
| <b>46</b> | 80.4  |
| <b>47</b> | 73.2  |
| <b>48</b> | 66.0  |
| <b>49</b> | 58.8  |
| <b>50</b> | 51.6  |

**Orbital Plane 29:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 315.0 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 53.6  |

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|           |       |
|-----------|-------|
| <b>2</b>  | 60.8  |
| <b>3</b>  | 68.0  |
| <b>4</b>  | 75.2  |
| <b>5</b>  | 82.4  |
| <b>6</b>  | 89.6  |
| <b>7</b>  | 96.8  |
| <b>8</b>  | 104.0 |
| <b>9</b>  | 111.2 |
| <b>10</b> | 118.4 |
| <b>11</b> | 125.6 |
| <b>12</b> | 132.8 |
| <b>13</b> | 140.0 |
| <b>14</b> | 147.2 |
| <b>15</b> | 154.4 |
| <b>16</b> | 161.6 |
| <b>17</b> | 168.8 |
| <b>18</b> | 176.0 |
| <b>19</b> | 183.2 |
| <b>20</b> | 190.4 |
| <b>21</b> | 197.6 |
| <b>22</b> | 204.8 |
| <b>23</b> | 212.0 |
| <b>24</b> | 219.2 |
| <b>25</b> | 226.4 |
| <b>26</b> | 233.6 |
| <b>27</b> | 240.8 |

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|    |       |
|----|-------|
| 28 | 248.0 |
| 29 | 255.2 |
| 30 | 262.4 |
| 31 | 269.6 |
| 32 | 276.8 |
| 33 | 284.0 |
| 34 | 291.2 |
| 35 | 298.4 |
| 36 | 305.6 |
| 37 | 312.8 |
| 38 | 320.0 |
| 39 | 327.2 |
| 40 | 334.4 |
| 41 | 341.6 |
| 42 | 348.8 |
| 43 | 356.0 |
| 44 | 3.2   |
| 45 | 10.4  |
| 46 | 17.6  |
| 47 | 24.8  |
| 48 | 32.0  |
| 49 | 39.2  |
| 50 | 46.4  |

**Orbital Plane 30:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 53.0 degrees   |
| Right Ascension of Ascending Node                             | 326.3 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 55.5   |
| 2                | 62.7   |
| 3                | 69.9   |
| 4                | 77.1   |
| 5                | 84.3   |
| 6                | 91.5   |
| 7                | 98.7   |
| 8                | 105.9  |
| 9                | 113.1  |
| 10               | 120.3  |
| 11               | 127.5  |
| 12               | 134.7  |
| 13               | 141.9  |
| 14               | 149.1  |
| 15               | 156.3  |
| 16               | 163.5  |

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|           |       |
|-----------|-------|
| <b>17</b> | 170.7 |
| <b>18</b> | 177.9 |
| <b>19</b> | 185.1 |
| <b>20</b> | 192.3 |
| <b>21</b> | 199.5 |
| <b>22</b> | 206.7 |
| <b>23</b> | 213.9 |
| <b>24</b> | 221.1 |
| <b>25</b> | 228.3 |
| <b>26</b> | 235.5 |
| <b>27</b> | 242.7 |
| <b>28</b> | 249.9 |
| <b>29</b> | 257.1 |
| <b>30</b> | 264.3 |
| <b>31</b> | 271.5 |
| <b>32</b> | 278.7 |
| <b>33</b> | 285.9 |
| <b>34</b> | 293.1 |
| <b>35</b> | 300.3 |
| <b>36</b> | 307.5 |
| <b>37</b> | 314.7 |
| <b>38</b> | 321.9 |
| <b>39</b> | 329.1 |
| <b>40</b> | 336.3 |
| <b>41</b> | 26.7  |
| <b>42</b> | 33.9  |

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|           |       |
|-----------|-------|
| <b>43</b> | 41.1  |
| <b>44</b> | 48.3  |
| <b>45</b> | 19.5  |
| <b>46</b> | 12.3  |
| <b>47</b> | 5.1   |
| <b>48</b> | 357.9 |
| <b>49</b> | 350.7 |
| <b>50</b> | 343.5 |

**Orbital Plane 31:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.0 degrees    |
| Right Ascension of Ascending Node                             | 337.5 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1150.0 km       |
| Perigee   | 1150.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 50.2  |
| <b>2</b>                | 43.0  |
| <b>3</b>                | 35.8  |
| <b>4</b>                | 28.6  |

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|           |       |
|-----------|-------|
| <b>5</b>  | 21.4  |
| <b>6</b>  | 14.2  |
| <b>7</b>  | 7.0   |
| <b>8</b>  | 359.8 |
| <b>9</b>  | 352.6 |
| <b>10</b> | 345.4 |
| <b>11</b> | 338.2 |
| <b>12</b> | 331.0 |
| <b>13</b> | 323.8 |
| <b>14</b> | 316.6 |
| <b>15</b> | 309.4 |
| <b>16</b> | 302.2 |
| <b>17</b> | 295.0 |
| <b>18</b> | 287.8 |
| <b>19</b> | 280.6 |
| <b>20</b> | 273.4 |
| <b>21</b> | 266.2 |
| <b>22</b> | 259.0 |
| <b>23</b> | 251.8 |
| <b>24</b> | 244.6 |
| <b>25</b> | 237.4 |
| <b>26</b> | 230.2 |
| <b>27</b> | 223.0 |
| <b>28</b> | 215.8 |
| <b>29</b> | 208.6 |
| <b>30</b> | 201.4 |

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|    |       |
|----|-------|
| 31 | 194.2 |
| 32 | 187.0 |
| 33 | 179.8 |
| 34 | 172.6 |
| 35 | 165.4 |
| 36 | 158.2 |
| 37 | 151.0 |
| 38 | 143.8 |
| 39 | 136.6 |
| 40 | 129.4 |
| 41 | 122.2 |
| 42 | 115.0 |
| 43 | 107.8 |
| 44 | 100.6 |
| 45 | 93.4  |
| 46 | 86.2  |
| 47 | 79.0  |
| 48 | 71.8  |
| 49 | 64.6  |
| 50 | 57.4  |

**Orbital Plane 32:**

| Question                          | Response      |
|-----------------------------------|---------------|
| Number of Satellites in Plane     | 50            |
| Inclination Angle                 | 53.0 degrees  |
| Right Ascension of Ascending Node | 348.8 degrees |
| Argument of Perigee               | 0.0 degrees   |



|   |                |
|---|----------------|
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1150.0 km      |
| Perigee   | 1150.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 52.1   |
| 2                | 44.9   |
| 3                | 37.7   |
| 4                | 30.5   |
| 5                | 23.3   |
| 6                | 16.1   |
| 7                | 8.9  |
| 8                | 1.7  |
| 9                | 354.5  |
| 10               | 347.3  |
| 11               | 340.1  |
| 12               | 332.9  |
| 13               | 325.7  |
| 14               | 318.5  |
| 15               | 311.3  |
| 16               | 304.1  |
| 17               | 296.9  |
| 18               | 289.7  |
| 19               | 282.5  |

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|           |       |
|-----------|-------|
| <b>20</b> | 275.3 |
| <b>21</b> | 268.1 |
| <b>22</b> | 260.9 |
| <b>23</b> | 253.7 |
| <b>24</b> | 246.5 |
| <b>25</b> | 239.3 |
| <b>26</b> | 232.1 |
| <b>27</b> | 224.9 |
| <b>28</b> | 217.7 |
| <b>29</b> | 210.5 |
| <b>30</b> | 203.3 |
| <b>31</b> | 196.1 |
| <b>32</b> | 188.9 |
| <b>33</b> | 181.7 |
| <b>34</b> | 174.5 |
| <b>35</b> | 167.3 |
| <b>36</b> | 160.1 |
| <b>37</b> | 152.9 |
| <b>38</b> | 145.7 |
| <b>39</b> | 138.5 |
| <b>40</b> | 131.3 |
| <b>41</b> | 124.1 |
| <b>42</b> | 116.9 |
| <b>43</b> | 109.7 |
| <b>44</b> | 102.5 |
| <b>45</b> | 95.3  |

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|           |      |
|-----------|------|
| <b>46</b> | 88.1 |
| <b>47</b> | 80.9 |
| <b>48</b> | 73.7 |
| <b>49</b> | 66.5 |
| <b>50</b> | 59.3 |

**Orbital Plane 33:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 5.6 degrees     |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 352.8   |
| <b>2</b>                | 345.6   |
| <b>3</b>                | 338.4   |
| <b>4</b>                | 331.2   |
| <b>5</b>                | 324.0   |
| <b>6</b>                | 316.8   |
| <b>7</b>                | 309.6   |

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|           |       |
|-----------|-------|
| <b>8</b>  | 302.4 |
| <b>9</b>  | 295.2 |
| <b>10</b> | 288.0 |
| <b>11</b> | 280.8 |
| <b>12</b> | 273.6 |
| <b>13</b> | 266.4 |
| <b>14</b> | 259.2 |
| <b>15</b> | 252.0 |
| <b>16</b> | 244.8 |
| <b>17</b> | 237.6 |
| <b>18</b> | 230.4 |
| <b>19</b> | 223.2 |
| <b>20</b> | 216.0 |
| <b>21</b> | 208.8 |
| <b>22</b> | 201.6 |
| <b>23</b> | 194.4 |
| <b>24</b> | 187.2 |
| <b>25</b> | 180.0 |
| <b>26</b> | 172.8 |
| <b>27</b> | 165.6 |
| <b>28</b> | 158.4 |
| <b>29</b> | 151.2 |
| <b>30</b> | 144.0 |
| <b>31</b> | 136.8 |
| <b>32</b> | 129.6 |
| <b>33</b> | 122.4 |

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|           |       |
|-----------|-------|
| <b>34</b> | 115.2 |
| <b>35</b> | 108.0 |
| <b>36</b> | 100.8 |
| <b>37</b> | 93.6  |
| <b>38</b> | 86.4  |
| <b>39</b> | 79.2  |
| <b>40</b> | 72.0  |
| <b>41</b> | 64.8  |
| <b>42</b> | 57.6  |
| <b>43</b> | 50.4  |
| <b>44</b> | 43.2  |
| <b>45</b> | 36.0  |
| <b>46</b> | 28.8  |
| <b>47</b> | 21.6  |
| <b>48</b> | 14.4  |
| <b>49</b> | 7.2   |
| <b>50</b> | 0.0   |

**Orbital Plane 34:**

| <b>Question</b>                   | <b>Response</b> |
|-----------------------------------|-----------------|
| Number of Satellites in Plane     | 50              |
| Inclination Angle                 | 53.8 degrees    |
| Right Ascension of Ascending Node | 16.9 degrees    |
| Argument of Perigee               | 0.0 degrees     |
| Orbital Period                    | 6420.0 seconds  |
| Apogee                            | 1110.0 km       |
| Perigee                           | 1110.0 km       |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 356.2  |
| 2                | 349.0  |
| 3                | 341.8  |
| 4                | 334.6  |
| 5                | 327.4  |
| 6                | 320.2  |
| 7                | 313.0  |
| 8                | 305.8  |
| 9                | 298.6  |
| 10               | 291.4  |
| 11               | 284.2  |
| 12               | 277.0  |
| 13               | 269.8  |
| 14               | 262.6  |
| 15               | 255.4  |
| 16               | 248.2  |
| 17               | 241.0  |
| 18               | 233.8  |
| 19               | 226.6  |
| 20               | 219.4  |
| 21               | 212.2  |

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|           |       |
|-----------|-------|
| <b>22</b> | 205.0 |
| <b>23</b> | 197.8 |
| <b>24</b> | 190.6 |
| <b>25</b> | 183.4 |
| <b>26</b> | 176.2 |
| <b>27</b> | 169.0 |
| <b>28</b> | 161.8 |
| <b>29</b> | 154.6 |
| <b>30</b> | 147.4 |
| <b>31</b> | 140.2 |
| <b>32</b> | 133.0 |
| <b>33</b> | 125.8 |
| <b>34</b> | 118.6 |
| <b>35</b> | 111.4 |
| <b>36</b> | 104.2 |
| <b>37</b> | 97.0  |
| <b>38</b> | 89.8  |
| <b>39</b> | 82.6  |
| <b>40</b> | 75.4  |
| <b>41</b> | 68.2  |
| <b>42</b> | 61.0  |
| <b>43</b> | 53.8  |
| <b>44</b> | 46.6  |
| <b>45</b> | 39.4  |
| <b>46</b> | 32.2  |
| <b>47</b> | 25.0  |

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|           |      |
|-----------|------|
| <b>48</b> | 17.8 |
| <b>49</b> | 10.6 |
| <b>50</b> | 3.4  |

### Orbital Plane 35:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 28.1 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 359.6  |
| <b>2</b>         | 352.3  |
| <b>3</b>         | 345.2  |
| <b>4</b>         | 338.0  |
| <b>5</b>         | 330.8  |
| <b>6</b>         | 323.6  |
| <b>7</b>         | 316.4  |
| <b>8</b>         | 309.2  |
| <b>9</b>         | 302.0  |



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|           |       |
|-----------|-------|
| <b>10</b> | 294.8 |
| <b>11</b> | 287.5 |
| <b>12</b> | 280.4 |
| <b>13</b> | 273.2 |
| <b>14</b> | 265.9 |
| <b>15</b> | 258.8 |
| <b>16</b> | 251.6 |
| <b>17</b> | 244.3 |
| <b>18</b> | 237.2 |
| <b>19</b> | 230.0 |
| <b>20</b> | 222.8 |
| <b>21</b> | 215.6 |
| <b>22</b> | 208.4 |
| <b>23</b> | 201.2 |
| <b>24</b> | 194.0 |
| <b>25</b> | 186.8 |
| <b>26</b> | 179.5 |
| <b>27</b> | 172.4 |
| <b>28</b> | 165.2 |
| <b>29</b> | 158.0 |
| <b>30</b> | 150.8 |
| <b>31</b> | 143.6 |
| <b>32</b> | 136.4 |
| <b>33</b> | 129.2 |
| <b>34</b> | 122.0 |
| <b>35</b> | 114.8 |

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|           |       |
|-----------|-------|
| <b>36</b> | 107.6 |
| <b>37</b> | 100.4 |
| <b>38</b> | 93.1  |
| <b>39</b> | 86.0  |
| <b>40</b> | 78.8  |
| <b>41</b> | 71.6  |
| <b>42</b> | 64.4  |
| <b>43</b> | 57.1  |
| <b>44</b> | 49.9  |
| <b>45</b> | 42.8  |
| <b>46</b> | 35.6  |
| <b>47</b> | 28.4  |
| <b>48</b> | 21.2  |
| <b>49</b> | 14.0  |
| <b>50</b> | 6.8   |

**Orbital Plane 36:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 39.4 degrees    |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 2.9  |
| 2                | 355.7  |
| 3                | 348.5  |
| 4                | 341.3  |
| 5                | 334.1  |
| 6                | 326.9  |
| 7                | 319.7  |
| 8                | 312.5  |
| 9                | 305.3  |
| 10               | 298.1  |
| 11               | 290.9  |
| 12               | 283.7  |
| 13               | 276.5  |
| 14               | 269.3  |
| 15               | 262.1  |
| 16               | 254.9  |
| 17               | 247.7  |
| 18               | 240.5  |
| 19               | 233.3  |
| 20               | 226.1  |
| 21               | 218.9  |
| 22               | 211.7  |
| 23               | 204.5  |
| 24               | 197.3  |

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|           |       |
|-----------|-------|
| <b>25</b> | 190.1 |
| <b>26</b> | 182.9 |
| <b>27</b> | 175.7 |
| <b>28</b> | 168.5 |
| <b>29</b> | 161.3 |
| <b>30</b> | 154.1 |
| <b>31</b> | 146.9 |
| <b>32</b> | 139.7 |
| <b>33</b> | 132.5 |
| <b>34</b> | 125.3 |
| <b>35</b> | 118.1 |
| <b>36</b> | 110.9 |
| <b>37</b> | 103.7 |
| <b>38</b> | 96.5  |
| <b>39</b> | 89.3  |
| <b>40</b> | 82.1  |
| <b>41</b> | 74.9  |
| <b>42</b> | 67.7  |
| <b>43</b> | 60.5  |
| <b>44</b> | 53.3  |
| <b>45</b> | 46.1  |
| <b>46</b> | 38.9  |
| <b>47</b> | 31.7  |
| <b>48</b> | 24.5  |
| <b>49</b> | 17.3  |
| <b>50</b> | 10.1  |

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## Orbital Plane 37:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 50.6 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 6.3  |
| 2                | 359.1  |
| 3                | 351.9  |
| 4                | 344.7  |
| 5                | 337.5  |
| 6                | 330.3  |
| 7                | 323.1  |
| 8                | 315.9  |
| 9                | 308.7  |
| 10               | 301.5  |
| 11               | 294.3  |
| 12               | 287.1  |
| 13               | 279.9  |

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|           |       |
|-----------|-------|
| <b>14</b> | 272.7 |
| <b>15</b> | 265.5 |
| <b>16</b> | 258.3 |
| <b>17</b> | 251.1 |
| <b>18</b> | 243.9 |
| <b>19</b> | 236.7 |
| <b>20</b> | 229.5 |
| <b>21</b> | 222.3 |
| <b>22</b> | 215.1 |
| <b>23</b> | 207.9 |
| <b>24</b> | 200.7 |
| <b>25</b> | 193.5 |
| <b>26</b> | 186.3 |
| <b>27</b> | 179.1 |
| <b>28</b> | 171.9 |
| <b>29</b> | 164.7 |
| <b>30</b> | 157.5 |
| <b>31</b> | 150.3 |
| <b>32</b> | 143.1 |
| <b>33</b> | 135.9 |
| <b>34</b> | 128.7 |
| <b>35</b> | 121.5 |
| <b>36</b> | 114.3 |
| <b>37</b> | 107.1 |
| <b>38</b> | 99.9  |
| <b>39</b> | 92.7  |

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|           |      |
|-----------|------|
| <b>40</b> | 85.5 |
| <b>41</b> | 78.3 |
| <b>42</b> | 71.1 |
| <b>43</b> | 63.9 |
| <b>44</b> | 56.7 |
| <b>45</b> | 49.5 |
| <b>46</b> | 42.3 |
| <b>47</b> | 35.1 |
| <b>48</b> | 27.9 |
| <b>49</b> | 20.7 |
| <b>50</b> | 13.5 |

**Orbital Plane 38:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 61.9 degrees    |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 9.7   |

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|           |       |
|-----------|-------|
| <b>2</b>  | 2.5   |
| <b>3</b>  | 355.3 |
| <b>4</b>  | 348.1 |
| <b>5</b>  | 340.9 |
| <b>6</b>  | 333.7 |
| <b>7</b>  | 326.5 |
| <b>8</b>  | 319.3 |
| <b>9</b>  | 312.1 |
| <b>10</b> | 304.9 |
| <b>11</b> | 297.7 |
| <b>12</b> | 290.5 |
| <b>13</b> | 283.3 |
| <b>14</b> | 276.1 |
| <b>15</b> | 268.9 |
| <b>16</b> | 261.7 |
| <b>17</b> | 254.5 |
| <b>18</b> | 247.3 |
| <b>19</b> | 240.1 |
| <b>20</b> | 232.9 |
| <b>21</b> | 225.7 |
| <b>22</b> | 218.5 |
| <b>23</b> | 211.3 |
| <b>24</b> | 204.1 |
| <b>25</b> | 196.9 |
| <b>26</b> | 189.7 |
| <b>27</b> | 182.5 |

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|    |       |
|----|-------|
| 28 | 175.3 |
| 29 | 168.1 |
| 30 | 160.9 |
| 31 | 153.7 |
| 32 | 146.5 |
| 33 | 139.3 |
| 34 | 132.1 |
| 35 | 124.9 |
| 36 | 117.7 |
| 37 | 110.5 |
| 38 | 103.3 |
| 39 | 96.1  |
| 40 | 88.9  |
| 41 | 81.7  |
| 42 | 74.5  |
| 43 | 67.3  |
| 44 | 60.1  |
| 45 | 52.9  |
| 46 | 45.7  |
| 47 | 38.5  |
| 48 | 31.3  |
| 49 | 24.1  |
| 50 | 16.9  |

**Orbital Plane 39:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 73.1 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 13.1   |
| 2                | 5.8  |
| 3                | 358.7  |
| 4                | 351.5  |
| 5                | 344.2  |
| 6                | 337.1  |
| 7                | 329.8  |
| 8                | 322.6  |
| 9                | 315.5  |
| 10               | 308.2  |
| 11               | 301.0  |
| 12               | 293.9  |
| 13               | 286.6  |
| 14               | 279.4  |
| 15               | 272.2  |
| 16               | 265.0  |

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|           |       |
|-----------|-------|
| <b>17</b> | 257.8 |
| <b>18</b> | 250.7 |
| <b>19</b> | 243.4 |
| <b>20</b> | 236.3 |
| <b>21</b> | 229.0 |
| <b>22</b> | 221.8 |
| <b>23</b> | 214.7 |
| <b>24</b> | 207.4 |
| <b>25</b> | 200.2 |
| <b>26</b> | 193.0 |
| <b>27</b> | 185.9 |
| <b>28</b> | 178.7 |
| <b>29</b> | 171.4 |
| <b>30</b> | 164.2 |
| <b>31</b> | 157.1 |
| <b>32</b> | 149.8 |
| <b>33</b> | 142.6 |
| <b>34</b> | 135.5 |
| <b>35</b> | 128.2 |
| <b>36</b> | 121.0 |
| <b>37</b> | 113.8 |
| <b>38</b> | 106.6 |
| <b>39</b> | 99.4  |
| <b>40</b> | 92.2  |
| <b>41</b> | 85.0  |
| <b>42</b> | 77.9  |

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|           |      |
|-----------|------|
| <b>43</b> | 70.6 |
| <b>44</b> | 63.4 |
| <b>45</b> | 56.2 |
| <b>46</b> | 49.1 |
| <b>47</b> | 41.9 |
| <b>48</b> | 34.7 |
| <b>49</b> | 27.4 |
| <b>50</b> | 20.3 |

### Orbital Plane 40:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 84.4 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 16.4   |
| <b>2</b>         | 9.2  |
| <b>3</b>         | 2.0  |
| <b>4</b>         | 354.8  |

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|           |       |
|-----------|-------|
| <b>5</b>  | 347.6 |
| <b>6</b>  | 340.4 |
| <b>7</b>  | 333.2 |
| <b>8</b>  | 326.0 |
| <b>9</b>  | 318.8 |
| <b>10</b> | 311.6 |
| <b>11</b> | 304.4 |
| <b>12</b> | 297.2 |
| <b>13</b> | 290.0 |
| <b>14</b> | 282.8 |
| <b>15</b> | 275.6 |
| <b>16</b> | 268.4 |
| <b>17</b> | 261.2 |
| <b>18</b> | 254.0 |
| <b>19</b> | 246.8 |
| <b>20</b> | 239.6 |
| <b>21</b> | 232.4 |
| <b>22</b> | 225.2 |
| <b>23</b> | 218.0 |
| <b>24</b> | 210.8 |
| <b>25</b> | 203.6 |
| <b>26</b> | 196.4 |
| <b>27</b> | 189.2 |
| <b>28</b> | 182.0 |
| <b>29</b> | 174.8 |
| <b>30</b> | 167.6 |

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|    |       |
|----|-------|
| 31 | 160.4 |
| 32 | 153.2 |
| 33 | 146.0 |
| 34 | 138.8 |
| 35 | 131.6 |
| 36 | 124.4 |
| 37 | 117.2 |
| 38 | 110.0 |
| 39 | 102.8 |
| 40 | 95.6  |
| 41 | 88.4  |
| 42 | 81.2  |
| 43 | 74.0  |
| 44 | 66.8  |
| 45 | 59.6  |
| 46 | 52.4  |
| 47 | 45.2  |
| 48 | 38.0  |
| 49 | 30.8  |
| 50 | 23.6  |

**Orbital Plane 41:**

| Question                          | Response     |
|-----------------------------------|--------------|
| Number of Satellites in Plane     | 50           |
| Inclination Angle                 | 53.8 degrees |
| Right Ascension of Ascending Node | 95.6 degrees |
| Argument of Perigee               | 0.0 degrees  |

|   |                |
|---|----------------|
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 19.8   |
| 2                | 12.6   |
| 3                | 5.4  |
| 4                | 358.2  |
| 5                | 351.0  |
| 6                | 343.8  |
| 7                | 336.6  |
| 8                | 329.4  |
| 9                | 322.2  |
| 10               | 315.0  |
| 11               | 307.8  |
| 12               | 300.6  |
| 13               | 293.4  |
| 14               | 286.2  |
| 15               | 279.0  |
| 16               | 271.8  |
| 17               | 264.6  |
| 18               | 257.4  |
| 19               | 250.2  |

---

|           |       |
|-----------|-------|
| <b>20</b> | 243.0 |
| <b>21</b> | 235.8 |
| <b>22</b> | 228.6 |
| <b>23</b> | 221.4 |
| <b>24</b> | 214.2 |
| <b>25</b> | 207.0 |
| <b>26</b> | 199.8 |
| <b>27</b> | 192.6 |
| <b>28</b> | 185.4 |
| <b>29</b> | 178.2 |
| <b>30</b> | 171.0 |
| <b>31</b> | 163.8 |
| <b>32</b> | 156.6 |
| <b>33</b> | 149.4 |
| <b>34</b> | 142.2 |
| <b>35</b> | 135.0 |
| <b>36</b> | 127.8 |
| <b>37</b> | 120.6 |
| <b>38</b> | 113.4 |
| <b>39</b> | 106.2 |
| <b>40</b> | 99.0  |
| <b>41</b> | 91.8  |
| <b>42</b> | 84.6  |
| <b>43</b> | 77.4  |
| <b>44</b> | 70.2  |
| <b>45</b> | 63.0  |

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|           |      |
|-----------|------|
| <b>46</b> | 55.8 |
| <b>47</b> | 48.6 |
| <b>48</b> | 41.4 |
| <b>49</b> | 34.2 |
| <b>50</b> | 27.0 |

## Orbital Plane 42:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 106.9 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 23.2   |
| <b>2</b>         | 16.0   |
| <b>3</b>         | 8.8  |
| <b>4</b>         | 1.6  |
| <b>5</b>         | 354.4  |
| <b>6</b>         | 347.2  |
| <b>7</b>         | 340.0  |

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|           |       |
|-----------|-------|
| <b>8</b>  | 332.8 |
| <b>9</b>  | 325.6 |
| <b>10</b> | 318.4 |
| <b>11</b> | 311.2 |
| <b>12</b> | 304.0 |
| <b>13</b> | 296.8 |
| <b>14</b> | 289.6 |
| <b>15</b> | 282.4 |
| <b>16</b> | 275.2 |
| <b>17</b> | 268.0 |
| <b>18</b> | 260.8 |
| <b>19</b> | 253.6 |
| <b>20</b> | 246.4 |
| <b>21</b> | 239.2 |
| <b>22</b> | 232.0 |
| <b>23</b> | 224.8 |
| <b>24</b> | 217.6 |
| <b>25</b> | 210.4 |
| <b>26</b> | 203.2 |
| <b>27</b> | 196.0 |
| <b>28</b> | 188.8 |
| <b>29</b> | 181.6 |
| <b>30</b> | 174.4 |
| <b>31</b> | 167.2 |
| <b>32</b> | 160.0 |
| <b>33</b> | 152.8 |

---

|           |       |
|-----------|-------|
| <b>34</b> | 145.6 |
| <b>35</b> | 138.4 |
| <b>36</b> | 131.2 |
| <b>37</b> | 124.0 |
| <b>38</b> | 116.8 |
| <b>39</b> | 109.6 |
| <b>40</b> | 102.4 |
| <b>41</b> | 95.2  |
| <b>42</b> | 88.0  |
| <b>43</b> | 80.8  |
| <b>44</b> | 73.6  |
| <b>45</b> | 66.4  |
| <b>46</b> | 59.2  |
| <b>47</b> | 52.0  |
| <b>48</b> | 44.8  |
| <b>49</b> | 37.6  |
| <b>50</b> | 30.4  |

**Orbital Plane 43:**

| <b>Question</b>                   | <b>Response</b> |
|-----------------------------------|-----------------|
| Number of Satellites in Plane     | 50              |
| Inclination Angle                 | 53.8 degrees    |
| Right Ascension of Ascending Node | 118.1 degrees   |
| Argument of Perigee               | 0.0 degrees     |
| Orbital Period                    | 6420.0 seconds  |
| Apogee                            | 1110.0 km       |
| Perigee                           | 1110.0 km       |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 26.6   |
| 2                | 19.4   |
| 3                | 12.1   |
| 4                | 4.9  |
| 5                | 357.8  |
| 6                | 350.6  |
| 7                | 343.4  |
| 8                | 336.2  |
| 9                | 329.0  |
| 10               | 321.8  |
| 11               | 314.5  |
| 12               | 307.4  |
| 13               | 300.2  |
| 14               | 292.9  |
| 15               | 285.8  |
| 16               | 278.5  |
| 17               | 271.3  |
| 18               | 264.2  |
| 19               | 257.0  |
| 20               | 249.8  |
| 21               | 242.6  |

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|           |       |
|-----------|-------|
| <b>22</b> | 235.4 |
| <b>23</b> | 228.2 |
| <b>24</b> | 221.0 |
| <b>25</b> | 213.8 |
| <b>26</b> | 206.6 |
| <b>27</b> | 199.4 |
| <b>28</b> | 192.2 |
| <b>29</b> | 185.0 |
| <b>30</b> | 177.8 |
| <b>31</b> | 170.6 |
| <b>32</b> | 163.3 |
| <b>33</b> | 156.2 |
| <b>34</b> | 149.0 |
| <b>35</b> | 141.8 |
| <b>36</b> | 134.5 |
| <b>37</b> | 127.4 |
| <b>38</b> | 120.2 |
| <b>39</b> | 113.0 |
| <b>40</b> | 105.8 |
| <b>41</b> | 98.6  |
| <b>42</b> | 91.4  |
| <b>43</b> | 84.2  |
| <b>44</b> | 76.9  |
| <b>45</b> | 69.8  |
| <b>46</b> | 62.6  |
| <b>47</b> | 55.4  |

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|           |      |
|-----------|------|
| <b>48</b> | 48.2 |
| <b>49</b> | 41.0 |
| <b>50</b> | 33.8 |

## Orbital Plane 44:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 129.4 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 29.9   |
| <b>2</b>         | 22.7   |
| <b>3</b>         | 15.5   |
| <b>4</b>         | 8.3  |
| <b>5</b>         | 1.1  |
| <b>6</b>         | 353.9  |
| <b>7</b>         | 346.7  |
| <b>8</b>         | 339.5  |
| <b>9</b>         | 332.3  |

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|           |       |
|-----------|-------|
| <b>10</b> | 325.1 |
| <b>11</b> | 317.9 |
| <b>12</b> | 310.7 |
| <b>13</b> | 303.5 |
| <b>14</b> | 296.3 |
| <b>15</b> | 289.1 |
| <b>16</b> | 281.9 |
| <b>17</b> | 274.7 |
| <b>18</b> | 267.5 |
| <b>19</b> | 260.3 |
| <b>20</b> | 253.1 |
| <b>21</b> | 245.9 |
| <b>22</b> | 238.7 |
| <b>23</b> | 231.5 |
| <b>24</b> | 224.3 |
| <b>25</b> | 217.1 |
| <b>26</b> | 209.9 |
| <b>27</b> | 202.7 |
| <b>28</b> | 195.5 |
| <b>29</b> | 188.3 |
| <b>30</b> | 181.1 |
| <b>31</b> | 173.9 |
| <b>32</b> | 166.7 |
| <b>33</b> | 159.5 |
| <b>34</b> | 152.3 |
| <b>35</b> | 145.1 |

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|    |       |
|----|-------|
| 36 | 137.9 |
| 37 | 130.7 |
| 38 | 123.5 |
| 39 | 116.3 |
| 40 | 109.1 |
| 41 | 101.9 |
| 42 | 94.7  |
| 43 | 87.5  |
| 44 | 80.3  |
| 45 | 73.1  |
| 46 | 65.9  |
| 47 | 58.7  |
| 48 | 51.5  |
| 49 | 44.3  |
| 50 | 37.1  |

### Orbital Plane 45:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 140.6 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |



## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 33.3   |
| 2                | 26.1   |
| 3                | 18.9   |
| 4                | 11.7   |
| 5                | 4.5  |
| 6                | 357.3  |
| 7                | 350.1  |
| 8                | 342.9  |
| 9                | 335.7  |
| 10               | 328.5  |
| 11               | 321.3  |
| 12               | 314.1  |
| 13               | 306.9  |
| 14               | 299.7  |
| 15               | 292.5  |
| 16               | 285.3  |
| 17               | 278.1  |
| 18               | 270.9  |
| 19               | 263.7  |
| 20               | 256.5  |
| 21               | 249.3  |
| 22               | 242.1  |
| 23               | 234.9  |
| 24               | 227.7  |

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|           |       |
|-----------|-------|
| <b>25</b> | 220.5 |
| <b>26</b> | 213.3 |
| <b>27</b> | 206.1 |
| <b>28</b> | 198.9 |
| <b>29</b> | 191.7 |
| <b>30</b> | 184.5 |
| <b>31</b> | 177.3 |
| <b>32</b> | 170.1 |
| <b>33</b> | 162.9 |
| <b>34</b> | 155.7 |
| <b>35</b> | 148.5 |
| <b>36</b> | 141.3 |
| <b>37</b> | 134.1 |
| <b>38</b> | 126.9 |
| <b>39</b> | 119.7 |
| <b>40</b> | 112.5 |
| <b>41</b> | 105.3 |
| <b>42</b> | 98.1  |
| <b>43</b> | 90.9  |
| <b>44</b> | 83.7  |
| <b>45</b> | 76.5  |
| <b>46</b> | 69.3  |
| <b>47</b> | 62.1  |
| <b>48</b> | 54.9  |
| <b>49</b> | 47.7  |
| <b>50</b> | 40.5  |

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## Orbital Plane 46:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 151.9 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 36.7   |
| 2                | 29.5   |
| 3                | 22.3   |
| 4                | 15.1   |
| 5                | 7.9  |
| 6                | 0.7  |
| 7                | 353.5  |
| 8                | 346.3  |
| 9                | 339.1  |
| 10               | 331.9  |
| 11               | 324.7  |
| 12               | 317.5  |
| 13               | 310.3  |

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|           |       |
|-----------|-------|
| <b>14</b> | 303.1 |
| <b>15</b> | 295.9 |
| <b>16</b> | 288.7 |
| <b>17</b> | 281.5 |
| <b>18</b> | 274.3 |
| <b>19</b> | 267.1 |
| <b>20</b> | 259.9 |
| <b>21</b> | 252.7 |
| <b>22</b> | 245.5 |
| <b>23</b> | 238.3 |
| <b>24</b> | 231.1 |
| <b>25</b> | 223.9 |
| <b>26</b> | 216.7 |
| <b>27</b> | 209.5 |
| <b>28</b> | 202.3 |
| <b>29</b> | 195.1 |
| <b>30</b> | 187.9 |
| <b>31</b> | 180.7 |
| <b>32</b> | 173.5 |
| <b>33</b> | 166.3 |
| <b>34</b> | 159.1 |
| <b>35</b> | 151.9 |
| <b>36</b> | 144.7 |
| <b>37</b> | 137.5 |
| <b>38</b> | 130.3 |
| <b>39</b> | 123.1 |

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|           |       |
|-----------|-------|
| <b>40</b> | 115.9 |
| <b>41</b> | 108.7 |
| <b>42</b> | 101.5 |
| <b>43</b> | 94.3  |
| <b>44</b> | 87.1  |
| <b>45</b> | 79.9  |
| <b>46</b> | 72.7  |
| <b>47</b> | 65.5  |
| <b>48</b> | 58.3  |
| <b>49</b> | 51.1  |
| <b>50</b> | 43.9  |

**Orbital Plane 47:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 163.1 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 40.0  |

---

|           |       |
|-----------|-------|
| <b>2</b>  | 32.8  |
| <b>3</b>  | 25.7  |
| <b>4</b>  | 18.5  |
| <b>5</b>  | 11.3  |
| <b>6</b>  | 4.1   |
| <b>7</b>  | 356.8 |
| <b>8</b>  | 349.6 |
| <b>9</b>  | 342.4 |
| <b>10</b> | 335.2 |
| <b>11</b> | 328.0 |
| <b>12</b> | 320.8 |
| <b>13</b> | 313.6 |
| <b>14</b> | 306.4 |
| <b>15</b> | 299.2 |
| <b>16</b> | 292.0 |
| <b>17</b> | 284.8 |
| <b>18</b> | 277.7 |
| <b>19</b> | 270.4 |
| <b>20</b> | 263.2 |
| <b>21</b> | 256.0 |
| <b>22</b> | 248.8 |
| <b>23</b> | 241.7 |
| <b>24</b> | 234.4 |
| <b>25</b> | 227.3 |
| <b>26</b> | 220.0 |
| <b>27</b> | 212.8 |

---

|    |       |
|----|-------|
| 28 | 205.7 |
| 29 | 198.4 |
| 30 | 191.3 |
| 31 | 184.0 |
| 32 | 176.8 |
| 33 | 169.6 |
| 34 | 162.5 |
| 35 | 155.2 |
| 36 | 148.0 |
| 37 | 140.8 |
| 38 | 133.6 |
| 39 | 126.5 |
| 40 | 119.3 |
| 41 | 112.0 |
| 42 | 104.8 |
| 43 | 97.6  |
| 44 | 90.4  |
| 45 | 83.3  |
| 46 | 76.0  |
| 47 | 68.9  |
| 48 | 61.7  |
| 49 | 54.5  |
| 50 | 47.2  |

**Orbital Plane 48:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 174.4 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 43.4   |
| 2                | 36.2   |
| 3                | 29.0   |
| 4                | 21.8   |
| 5                | 14.6   |
| 6                | 7.4  |
| 7                | 0.2  |
| 8                | 353.0  |
| 9                | 345.8  |
| 10               | 338.6  |
| 11               | 331.4  |
| 12               | 324.2  |
| 13               | 317.0  |
| 14               | 309.8  |
| 15               | 302.6  |
| 16               | 295.4  |



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|           |       |
|-----------|-------|
| <b>17</b> | 288.2 |
| <b>18</b> | 281.0 |
| <b>19</b> | 273.8 |
| <b>20</b> | 266.6 |
| <b>21</b> | 259.4 |
| <b>22</b> | 252.2 |
| <b>23</b> | 245.0 |
| <b>24</b> | 237.8 |
| <b>25</b> | 230.6 |
| <b>26</b> | 223.4 |
| <b>27</b> | 216.2 |
| <b>28</b> | 209.0 |
| <b>29</b> | 201.8 |
| <b>30</b> | 194.6 |
| <b>31</b> | 187.4 |
| <b>32</b> | 180.2 |
| <b>33</b> | 173.0 |
| <b>34</b> | 165.8 |
| <b>35</b> | 158.6 |
| <b>36</b> | 151.4 |
| <b>37</b> | 144.2 |
| <b>38</b> | 137.0 |
| <b>39</b> | 129.8 |
| <b>40</b> | 122.6 |
| <b>41</b> | 115.4 |
| <b>42</b> | 108.2 |

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|           |       |
|-----------|-------|
| <b>43</b> | 101.0 |
| <b>44</b> | 93.8  |
| <b>45</b> | 86.6  |
| <b>46</b> | 79.4  |
| <b>47</b> | 72.2  |
| <b>48</b> | 65.0  |
| <b>49</b> | 57.8  |
| <b>50</b> | 50.6  |

**Orbital Plane 49:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 185.6 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 46.8  |
| <b>2</b>                | 39.6  |
| <b>3</b>                | 32.4  |
| <b>4</b>                | 25.2  |

---

|           |       |
|-----------|-------|
| <b>5</b>  | 18.0  |
| <b>6</b>  | 10.8  |
| <b>7</b>  | 3.6   |
| <b>8</b>  | 356.4 |
| <b>9</b>  | 349.2 |
| <b>10</b> | 342.0 |
| <b>11</b> | 334.8 |
| <b>12</b> | 327.6 |
| <b>13</b> | 320.4 |
| <b>14</b> | 313.2 |
| <b>15</b> | 306.0 |
| <b>16</b> | 298.8 |
| <b>17</b> | 291.6 |
| <b>18</b> | 284.4 |
| <b>19</b> | 277.2 |
| <b>20</b> | 270.0 |
| <b>21</b> | 262.8 |
| <b>22</b> | 255.6 |
| <b>23</b> | 248.4 |
| <b>24</b> | 241.2 |
| <b>25</b> | 234.0 |
| <b>26</b> | 226.8 |
| <b>27</b> | 219.6 |
| <b>28</b> | 212.4 |
| <b>29</b> | 205.2 |
| <b>30</b> | 198.0 |

---

|    |       |
|----|-------|
| 31 | 190.8 |
| 32 | 183.6 |
| 33 | 176.4 |
| 34 | 169.2 |
| 35 | 162.0 |
| 36 | 154.8 |
| 37 | 147.6 |
| 38 | 140.4 |
| 39 | 133.2 |
| 40 | 126.0 |
| 41 | 118.8 |
| 42 | 111.6 |
| 43 | 104.4 |
| 44 | 97.2  |
| 45 | 90.0  |
| 46 | 82.8  |
| 47 | 75.6  |
| 48 | 68.4  |
| 49 | 61.2  |
| 50 | 54.0  |

**Orbital Plane 50:**

| Question                          | Response      |
|-----------------------------------|---------------|
| Number of Satellites in Plane     | 50            |
| Inclination Angle                 | 53.8 degrees  |
| Right Ascension of Ascending Node | 196.9 degrees |
| Argument of Perigee               | 0.0 degrees   |

|   |                |
|---|----------------|
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 50.2   |
| 2                | 43.0   |
| 3                | 35.8   |
| 4                | 28.6   |
| 5                | 21.4   |
| 6                | 14.2   |
| 7                | 7.0  |
| 8                | 359.8  |
| 9                | 352.6  |
| 10               | 345.4  |
| 11               | 338.2  |
| 12               | 331.0  |
| 13               | 323.8  |
| 14               | 316.6  |
| 15               | 309.4  |
| 16               | 302.2  |
| 17               | 295.0  |
| 18               | 287.8  |
| 19               | 280.6  |

---

|           |       |
|-----------|-------|
| <b>20</b> | 273.4 |
| <b>21</b> | 266.2 |
| <b>22</b> | 259.0 |
| <b>23</b> | 251.8 |
| <b>24</b> | 244.6 |
| <b>25</b> | 237.4 |
| <b>26</b> | 230.2 |
| <b>27</b> | 223.0 |
| <b>28</b> | 215.8 |
| <b>29</b> | 208.6 |
| <b>30</b> | 201.4 |
| <b>31</b> | 194.2 |
| <b>32</b> | 187.0 |
| <b>33</b> | 179.8 |
| <b>34</b> | 172.6 |
| <b>35</b> | 165.4 |
| <b>36</b> | 158.2 |
| <b>37</b> | 151.0 |
| <b>38</b> | 143.8 |
| <b>39</b> | 136.6 |
| <b>40</b> | 129.4 |
| <b>41</b> | 122.2 |
| <b>42</b> | 115.0 |
| <b>43</b> | 107.8 |
| <b>44</b> | 100.6 |
| <b>45</b> | 93.4  |

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|           |      |
|-----------|------|
| <b>46</b> | 86.2 |
| <b>47</b> | 79.0 |
| <b>48</b> | 71.8 |
| <b>49</b> | 64.6 |
| <b>50</b> | 57.4 |

## Orbital Plane 51:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 208.1 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 53.5   |
| <b>2</b>         | 46.4   |
| <b>3</b>         | 39.2   |
| <b>4</b>         | 31.9   |
| <b>5</b>         | 24.8   |
| <b>6</b>         | 17.6   |
| <b>7</b>         | 10.4   |

---

|           |       |
|-----------|-------|
| <b>8</b>  | 3.1   |
| <b>9</b>  | 356.0 |
| <b>10</b> | 348.8 |
| <b>11</b> | 341.5 |
| <b>12</b> | 334.4 |
| <b>13</b> | 327.2 |
| <b>14</b> | 320.0 |
| <b>15</b> | 312.8 |
| <b>16</b> | 305.6 |
| <b>17</b> | 298.4 |
| <b>18</b> | 291.2 |
| <b>19</b> | 284.0 |
| <b>20</b> | 276.8 |
| <b>21</b> | 269.6 |
| <b>22</b> | 262.4 |
| <b>23</b> | 255.2 |
| <b>24</b> | 248.0 |
| <b>25</b> | 240.8 |
| <b>26</b> | 233.6 |
| <b>27</b> | 226.4 |
| <b>28</b> | 219.2 |
| <b>29</b> | 212.0 |
| <b>30</b> | 204.8 |
| <b>31</b> | 197.6 |
| <b>32</b> | 190.4 |
| <b>33</b> | 183.2 |

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|    |       |
|----|-------|
| 34 | 176.0 |
| 35 | 168.8 |
| 36 | 161.6 |
| 37 | 154.4 |
| 38 | 147.2 |
| 39 | 140.0 |
| 40 | 132.8 |
| 41 | 125.6 |
| 42 | 118.4 |
| 43 | 111.2 |
| 44 | 104.0 |
| 45 | 96.8  |
| 46 | 89.6  |
| 47 | 82.4  |
| 48 | 75.2  |
| 49 | 68.0  |
| 50 | 60.8  |

### Orbital Plane 52:

| Question                          | Response       |
|-----------------------------------|----------------|
| Number of Satellites in Plane     | 50             |
| Inclination Angle                 | 53.8 degrees   |
| Right Ascension of Ascending Node | 219.4 degrees  |
| Argument of Perigee               | 0.0 degrees    |
| Orbital Period                    | 6420.0 seconds |
| Apogee                            | 1110.0 km      |
| Perigee                           | 1110.0 km      |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 56.9   |
| 2                | 49.7   |
| 3                | 42.5   |
| 4                | 35.3   |
| 5                | 28.1   |
| 6                | 20.9   |
| 7                | 13.7   |
| 8                | 6.5  |
| 9                | 359.3  |
| 10               | 352.1  |
| 11               | 344.9  |
| 12               | 337.7  |
| 13               | 330.5  |
| 14               | 323.3  |
| 15               | 316.1  |
| 16               | 308.9  |
| 17               | 301.7  |
| 18               | 294.5  |
| 19               | 287.3  |
| 20               | 280.1  |
| 21               | 272.9  |

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|           |       |
|-----------|-------|
| <b>22</b> | 265.7 |
| <b>23</b> | 258.5 |
| <b>24</b> | 251.3 |
| <b>25</b> | 244.1 |
| <b>26</b> | 236.9 |
| <b>27</b> | 229.7 |
| <b>28</b> | 222.5 |
| <b>29</b> | 215.3 |
| <b>30</b> | 208.1 |
| <b>31</b> | 200.9 |
| <b>32</b> | 193.7 |
| <b>33</b> | 186.5 |
| <b>34</b> | 179.3 |
| <b>35</b> | 172.1 |
| <b>36</b> | 164.9 |
| <b>37</b> | 157.7 |
| <b>38</b> | 150.5 |
| <b>39</b> | 143.3 |
| <b>40</b> | 136.1 |
| <b>41</b> | 128.9 |
| <b>42</b> | 121.7 |
| <b>43</b> | 114.5 |
| <b>44</b> | 107.3 |
| <b>45</b> | 100.1 |
| <b>46</b> | 92.9  |
| <b>47</b> | 85.7  |

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|           |      |
|-----------|------|
| <b>48</b> | 78.5 |
| <b>49</b> | 71.3 |
| <b>50</b> | 64.1 |

### Orbital Plane 53:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 230.6 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 60.3   |
| <b>2</b>         | 53.1   |
| <b>3</b>         | 45.9   |
| <b>4</b>         | 38.7   |
| <b>5</b>         | 31.5   |
| <b>6</b>         | 24.3   |
| <b>7</b>         | 17.1   |
| <b>8</b>         | 9.9  |
| <b>9</b>         | 2.7  |

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|           |       |
|-----------|-------|
| <b>10</b> | 355.5 |
| <b>11</b> | 348.3 |
| <b>12</b> | 341.1 |
| <b>13</b> | 333.9 |
| <b>14</b> | 326.7 |
| <b>15</b> | 319.5 |
| <b>16</b> | 312.3 |
| <b>17</b> | 305.1 |
| <b>18</b> | 297.9 |
| <b>19</b> | 290.7 |
| <b>20</b> | 283.5 |
| <b>21</b> | 276.3 |
| <b>22</b> | 269.1 |
| <b>23</b> | 261.9 |
| <b>24</b> | 254.7 |
| <b>25</b> | 247.5 |
| <b>26</b> | 240.3 |
| <b>27</b> | 233.1 |
| <b>28</b> | 225.9 |
| <b>29</b> | 218.7 |
| <b>30</b> | 211.5 |
| <b>31</b> | 204.3 |
| <b>32</b> | 197.1 |
| <b>33</b> | 189.9 |
| <b>34</b> | 182.7 |
| <b>35</b> | 175.5 |

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|           |       |
|-----------|-------|
| <b>36</b> | 168.3 |
| <b>37</b> | 161.1 |
| <b>38</b> | 153.9 |
| <b>39</b> | 146.7 |
| <b>40</b> | 139.5 |
| <b>41</b> | 132.3 |
| <b>42</b> | 125.1 |
| <b>43</b> | 117.9 |
| <b>44</b> | 110.7 |
| <b>45</b> | 103.5 |
| <b>46</b> | 96.3  |
| <b>47</b> | 89.1  |
| <b>48</b> | 81.9  |
| <b>49</b> | 74.7  |
| <b>50</b> | 67.5  |

**Orbital Plane 54:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 241.9 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 63.7   |
| 2                | 56.5   |
| 3                | 49.3   |
| 4                | 42.1   |
| 5                | 34.9   |
| 6                | 27.7   |
| 7                | 20.5   |
| 8                | 13.3   |
| 9                | 6.1  |
| 10               | 358.9  |
| 11               | 351.7  |
| 12               | 344.5  |
| 13               | 337.3  |
| 14               | 330.1  |
| 15               | 322.9  |
| 16               | 315.7  |
| 17               | 308.5  |
| 18               | 301.3  |
| 19               | 294.1  |
| 20               | 286.9  |
| 21               | 279.7  |
| 22               | 272.5  |
| 23               | 265.3  |
| 24               | 258.1  |

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|           |       |
|-----------|-------|
| <b>25</b> | 250.9 |
| <b>26</b> | 243.7 |
| <b>27</b> | 236.5 |
| <b>28</b> | 229.3 |
| <b>29</b> | 222.1 |
| <b>30</b> | 214.9 |
| <b>31</b> | 207.7 |
| <b>32</b> | 200.5 |
| <b>33</b> | 193.3 |
| <b>34</b> | 186.1 |
| <b>35</b> | 178.9 |
| <b>36</b> | 171.7 |
| <b>37</b> | 164.5 |
| <b>38</b> | 157.3 |
| <b>39</b> | 150.1 |
| <b>40</b> | 142.9 |
| <b>41</b> | 135.7 |
| <b>42</b> | 128.5 |
| <b>43</b> | 121.3 |
| <b>44</b> | 114.1 |
| <b>45</b> | 106.9 |
| <b>46</b> | 99.7  |
| <b>47</b> | 92.5  |
| <b>48</b> | 85.3  |
| <b>49</b> | 78.1  |
| <b>50</b> | 70.9  |

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## Orbital Plane 55:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 253.1 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 67.1   |
| 2                | 59.8   |
| 3                | 52.7   |
| 4                | 45.5   |
| 5                | 38.2   |
| 6                | 31.1   |
| 7                | 23.9   |
| 8                | 16.6   |
| 9                | 9.5  |
| 10               | 2.3  |
| 11               | 355.0  |
| 12               | 347.8  |
| 13               | 340.7  |

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|           |       |
|-----------|-------|
| <b>14</b> | 333.4 |
| <b>15</b> | 326.2 |
| <b>16</b> | 319.0 |
| <b>17</b> | 311.8 |
| <b>18</b> | 304.7 |
| <b>19</b> | 297.4 |
| <b>20</b> | 290.2 |
| <b>21</b> | 283.1 |
| <b>22</b> | 275.8 |
| <b>23</b> | 268.7 |
| <b>24</b> | 261.4 |
| <b>25</b> | 254.2 |
| <b>26</b> | 247.0 |
| <b>27</b> | 239.8 |
| <b>28</b> | 232.6 |
| <b>29</b> | 225.4 |
| <b>30</b> | 218.2 |
| <b>31</b> | 211.1 |
| <b>32</b> | 203.8 |
| <b>33</b> | 196.6 |
| <b>34</b> | 189.5 |
| <b>35</b> | 182.3 |
| <b>36</b> | 175.0 |
| <b>37</b> | 167.8 |
| <b>38</b> | 160.6 |
| <b>39</b> | 153.5 |

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|           |       |
|-----------|-------|
| <b>40</b> | 146.3 |
| <b>41</b> | 139.0 |
| <b>42</b> | 131.9 |
| <b>43</b> | 124.6 |
| <b>44</b> | 117.5 |
| <b>45</b> | 110.3 |
| <b>46</b> | 103.0 |
| <b>47</b> | 95.9  |
| <b>48</b> | 88.6  |
| <b>49</b> | 81.4  |
| <b>50</b> | 74.3  |

**Orbital Plane 56:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 264.4 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 70.4  |

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|           |       |
|-----------|-------|
| <b>2</b>  | 63.2  |
| <b>3</b>  | 56.0  |
| <b>4</b>  | 48.8  |
| <b>5</b>  | 41.6  |
| <b>6</b>  | 34.4  |
| <b>7</b>  | 27.2  |
| <b>8</b>  | 20.0  |
| <b>9</b>  | 12.8  |
| <b>10</b> | 5.6   |
| <b>11</b> | 358.4 |
| <b>12</b> | 351.2 |
| <b>13</b> | 344.0 |
| <b>14</b> | 336.8 |
| <b>15</b> | 329.6 |
| <b>16</b> | 322.4 |
| <b>17</b> | 315.2 |
| <b>18</b> | 308.0 |
| <b>19</b> | 300.8 |
| <b>20</b> | 293.6 |
| <b>21</b> | 286.4 |
| <b>22</b> | 279.2 |
| <b>23</b> | 272.0 |
| <b>24</b> | 264.8 |
| <b>25</b> | 257.6 |
| <b>26</b> | 250.4 |
| <b>27</b> | 243.2 |

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|    |       |
|----|-------|
| 28 | 236.0 |
| 29 | 228.8 |
| 30 | 221.6 |
| 31 | 214.4 |
| 32 | 207.2 |
| 33 | 200.0 |
| 34 | 192.8 |
| 35 | 185.6 |
| 36 | 178.4 |
| 37 | 171.2 |
| 38 | 164.0 |
| 39 | 156.8 |
| 40 | 149.6 |
| 41 | 142.4 |
| 42 | 135.2 |
| 43 | 128.0 |
| 44 | 120.8 |
| 45 | 113.6 |
| 46 | 106.4 |
| 47 | 99.2  |
| 48 | 92.0  |
| 49 | 84.8  |
| 50 | 77.6  |

**Orbital Plane 57:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 275.6 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 73.8   |
| 2                | 66.6   |
| 3                | 59.4   |
| 4                | 52.2   |
| 5                | 45.0   |
| 6                | 37.8   |
| 7                | 30.6   |
| 8                | 23.4   |
| 9                | 16.2   |
| 10               | 9.0  |
| 11               | 1.8  |
| 12               | 354.6  |
| 13               | 347.4  |
| 14               | 340.2  |
| 15               | 333.0  |
| 16               | 325.8  |

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|           |       |
|-----------|-------|
| <b>17</b> | 318.6 |
| <b>18</b> | 311.4 |
| <b>19</b> | 304.2 |
| <b>20</b> | 297.0 |
| <b>21</b> | 289.8 |
| <b>22</b> | 282.6 |
| <b>23</b> | 275.4 |
| <b>24</b> | 268.2 |
| <b>25</b> | 261.0 |
| <b>26</b> | 253.8 |
| <b>27</b> | 246.6 |
| <b>28</b> | 239.4 |
| <b>29</b> | 232.2 |
| <b>30</b> | 225.0 |
| <b>31</b> | 217.8 |
| <b>32</b> | 210.6 |
| <b>33</b> | 203.4 |
| <b>34</b> | 196.2 |
| <b>35</b> | 189.0 |
| <b>36</b> | 181.8 |
| <b>37</b> | 174.6 |
| <b>38</b> | 167.4 |
| <b>39</b> | 160.2 |
| <b>40</b> | 153.0 |
| <b>41</b> | 145.8 |
| <b>42</b> | 138.6 |

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|           |       |
|-----------|-------|
| <b>43</b> | 131.4 |
| <b>44</b> | 124.2 |
| <b>45</b> | 117.0 |
| <b>46</b> | 109.8 |
| <b>47</b> | 102.6 |
| <b>48</b> | 95.4  |
| <b>49</b> | 88.2  |
| <b>50</b> | 81.0  |

**Orbital Plane 58:**

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 286.9 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

**Mean Anomaly For Each Satellite**

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 77.2   |
| <b>2</b>         | 70.0   |
| <b>3</b>         | 62.8   |
| <b>4</b>         | 55.6   |



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|           |       |
|-----------|-------|
| <b>5</b>  | 48.4  |
| <b>6</b>  | 41.2  |
| <b>7</b>  | 34.0  |
| <b>8</b>  | 26.8  |
| <b>9</b>  | 19.6  |
| <b>10</b> | 12.4  |
| <b>11</b> | 5.2   |
| <b>12</b> | 358.0 |
| <b>13</b> | 350.8 |
| <b>14</b> | 343.6 |
| <b>15</b> | 336.4 |
| <b>16</b> | 329.2 |
| <b>17</b> | 322.0 |
| <b>18</b> | 314.8 |
| <b>19</b> | 307.6 |
| <b>20</b> | 300.4 |
| <b>21</b> | 293.2 |
| <b>22</b> | 286.0 |
| <b>23</b> | 278.8 |
| <b>24</b> | 271.6 |
| <b>25</b> | 264.4 |
| <b>26</b> | 257.2 |
| <b>27</b> | 250.0 |
| <b>28</b> | 242.8 |
| <b>29</b> | 235.6 |
| <b>30</b> | 228.4 |

---

|    |       |
|----|-------|
| 31 | 221.2 |
| 32 | 214.0 |
| 33 | 206.8 |
| 34 | 199.6 |
| 35 | 192.4 |
| 36 | 185.2 |
| 37 | 178.0 |
| 38 | 170.8 |
| 39 | 163.6 |
| 40 | 156.4 |
| 41 | 149.2 |
| 42 | 142.0 |
| 43 | 134.8 |
| 44 | 127.6 |
| 45 | 120.4 |
| 46 | 113.2 |
| 47 | 106.0 |
| 48 | 98.8  |
| 49 | 91.6  |
| 50 | 84.4  |

**Orbital Plane 59:**

| Question                          | Response      |
|-----------------------------------|---------------|
| Number of Satellites in Plane     | 50            |
| Inclination Angle                 | 53.8 degrees  |
| Right Ascension of Ascending Node | 298.1 degrees |
| Argument of Perigee               | 0.0 degrees   |

|   |                |
|---|----------------|
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 80.6   |
| 2                | 73.3   |
| 3                | 66.2   |
| 4                | 59.0   |
| 5                | 51.8   |
| 6                | 44.6   |
| 7                | 37.4   |
| 8                | 30.2   |
| 9                | 23.0   |
| 10               | 15.8   |
| 11               | 8.6  |
| 12               | 1.4  |
| 13               | 354.2  |
| 14               | 347.0  |
| 15               | 339.8  |
| 16               | 332.6  |
| 17               | 325.3  |
| 18               | 318.2  |
| 19               | 311.0  |

---

|           |       |
|-----------|-------|
| <b>20</b> | 303.8 |
| <b>21</b> | 296.6 |
| <b>22</b> | 289.3 |
| <b>23</b> | 282.2 |
| <b>24</b> | 275.0 |
| <b>25</b> | 267.8 |
| <b>26</b> | 260.6 |
| <b>27</b> | 253.4 |
| <b>28</b> | 246.2 |
| <b>29</b> | 239.0 |
| <b>30</b> | 231.7 |
| <b>31</b> | 224.6 |
| <b>32</b> | 217.4 |
| <b>33</b> | 210.2 |
| <b>34</b> | 203.0 |
| <b>35</b> | 195.8 |
| <b>36</b> | 188.5 |
| <b>37</b> | 181.4 |
| <b>38</b> | 174.2 |
| <b>39</b> | 167.0 |
| <b>40</b> | 159.8 |
| <b>41</b> | 152.6 |
| <b>42</b> | 145.4 |
| <b>43</b> | 138.2 |
| <b>44</b> | 131.0 |
| <b>45</b> | 123.8 |

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|           |       |
|-----------|-------|
| <b>46</b> | 116.6 |
| <b>47</b> | 109.4 |
| <b>48</b> | 102.2 |
| <b>49</b> | 95.0  |
| <b>50</b> | 87.8  |

### Orbital Plane 60:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 309.4 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 83.9   |
| <b>2</b>         | 76.7   |
| <b>3</b>         | 69.5   |
| <b>4</b>         | 62.3   |
| <b>5</b>         | 55.1   |
| <b>6</b>         | 47.9   |
| <b>7</b>         | 40.7   |

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|           |       |
|-----------|-------|
| <b>8</b>  | 33.5  |
| <b>9</b>  | 26.3  |
| <b>10</b> | 19.1  |
| <b>11</b> | 11.9  |
| <b>12</b> | 4.7   |
| <b>13</b> | 357.5 |
| <b>14</b> | 350.3 |
| <b>15</b> | 343.1 |
| <b>16</b> | 335.9 |
| <b>17</b> | 328.7 |
| <b>18</b> | 321.5 |
| <b>19</b> | 314.3 |
| <b>20</b> | 307.1 |
| <b>21</b> | 299.9 |
| <b>22</b> | 292.7 |
| <b>23</b> | 285.5 |
| <b>24</b> | 278.3 |
| <b>25</b> | 271.1 |
| <b>26</b> | 263.9 |
| <b>27</b> | 256.7 |
| <b>28</b> | 249.5 |
| <b>29</b> | 242.3 |
| <b>30</b> | 235.1 |
| <b>31</b> | 227.9 |
| <b>32</b> | 220.7 |
| <b>33</b> | 213.5 |

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|    |       |
|----|-------|
| 34 | 206.3 |
| 35 | 199.1 |
| 36 | 191.9 |
| 37 | 184.7 |
| 38 | 177.5 |
| 39 | 170.3 |
| 40 | 163.1 |
| 41 | 155.9 |
| 42 | 148.7 |
| 43 | 141.5 |
| 44 | 134.3 |
| 45 | 127.1 |
| 46 | 119.9 |
| 47 | 112.7 |
| 48 | 105.5 |
| 49 | 98.3  |
| 50 | 91.1  |

### Orbital Plane 61:

| Question                          | Response       |
|-----------------------------------|----------------|
| Number of Satellites in Plane     | 50             |
| Inclination Angle                 | 53.8 degrees   |
| Right Ascension of Ascending Node | 320.6 degrees  |
| Argument of Perigee               | 0.0 degrees    |
| Orbital Period                    | 6420.0 seconds |
| Apogee                            | 1110.0 km      |
| Perigee                           | 1110.0 km      |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 87.3   |
| 2                | 80.1   |
| 3                | 72.9   |
| 4                | 65.7   |
| 5                | 58.5   |
| 6                | 51.3   |
| 7                | 44.1   |
| 8                | 36.9   |
| 9                | 29.7   |
| 10               | 22.5   |
| 11               | 15.3   |
| 12               | 8.1  |
| 13               | 0.9  |
| 14               | 353.7  |
| 15               | 346.5  |
| 16               | 339.3  |
| 17               | 332.1  |
| 18               | 324.9  |
| 19               | 317.7  |
| 20               | 310.5  |
| 21               | 303.3  |

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|           |       |
|-----------|-------|
| <b>22</b> | 296.1 |
| <b>23</b> | 288.9 |
| <b>24</b> | 281.7 |
| <b>25</b> | 274.5 |
| <b>26</b> | 267.3 |
| <b>27</b> | 260.1 |
| <b>28</b> | 252.9 |
| <b>29</b> | 245.7 |
| <b>30</b> | 238.5 |
| <b>31</b> | 231.3 |
| <b>32</b> | 224.1 |
| <b>33</b> | 216.9 |
| <b>34</b> | 209.7 |
| <b>35</b> | 202.5 |
| <b>36</b> | 195.3 |
| <b>37</b> | 188.1 |
| <b>38</b> | 180.9 |
| <b>39</b> | 173.7 |
| <b>40</b> | 166.5 |
| <b>41</b> | 159.3 |
| <b>42</b> | 152.1 |
| <b>43</b> | 144.9 |
| <b>44</b> | 137.7 |
| <b>45</b> | 130.5 |
| <b>46</b> | 123.3 |
| <b>47</b> | 116.1 |

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|           |       |
|-----------|-------|
| <b>48</b> | 108.9 |
| <b>49</b> | 101.7 |
| <b>50</b> | 94.5  |

## Orbital Plane 62:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 331.9 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 90.7   |
| <b>2</b>         | 83.5   |
| <b>3</b>         | 76.3   |
| <b>4</b>         | 69.1   |
| <b>5</b>         | 61.9   |
| <b>6</b>         | 54.7   |
| <b>7</b>         | 47.5   |
| <b>8</b>         | 40.3   |
| <b>9</b>         | 33.1   |

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|           |       |
|-----------|-------|
| <b>10</b> | 25.9  |
| <b>11</b> | 18.7  |
| <b>12</b> | 11.5  |
| <b>13</b> | 4.3   |
| <b>14</b> | 357.1 |
| <b>15</b> | 349.9 |
| <b>16</b> | 342.7 |
| <b>17</b> | 335.5 |
| <b>18</b> | 328.3 |
| <b>19</b> | 321.1 |
| <b>20</b> | 313.9 |
| <b>21</b> | 306.7 |
| <b>22</b> | 299.5 |
| <b>23</b> | 292.3 |
| <b>24</b> | 285.1 |
| <b>25</b> | 277.9 |
| <b>26</b> | 270.7 |
| <b>27</b> | 263.5 |
| <b>28</b> | 256.3 |
| <b>29</b> | 249.1 |
| <b>30</b> | 241.9 |
| <b>31</b> | 234.7 |
| <b>32</b> | 227.5 |
| <b>33</b> | 220.3 |
| <b>34</b> | 213.1 |
| <b>35</b> | 205.9 |

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|           |       |
|-----------|-------|
| <b>36</b> | 198.7 |
| <b>37</b> | 191.5 |
| <b>38</b> | 184.3 |
| <b>39</b> | 177.1 |
| <b>40</b> | 169.9 |
| <b>41</b> | 162.7 |
| <b>42</b> | 155.5 |
| <b>43</b> | 148.3 |
| <b>44</b> | 141.1 |
| <b>45</b> | 133.9 |
| <b>46</b> | 126.7 |
| <b>47</b> | 119.5 |
| <b>48</b> | 112.3 |
| <b>49</b> | 105.1 |
| <b>50</b> | 97.9  |

**Orbital Plane 63:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 53.8 degrees    |
| Right Ascension of Ascending Node                             | 343.1 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6420.0 seconds  |
| Apogee  | 1110.0 km       |
| Perigee   | 1110.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 94.1   |
| 2                | 86.9   |
| 3                | 79.6   |
| 4                | 72.4   |
| 5                | 65.2   |
| 6                | 58.1   |
| 7                | 50.9   |
| 8                | 43.6   |
| 9                | 36.5   |
| 10               | 29.3   |
| 11               | 22.0   |
| 12               | 14.9   |
| 13               | 7.6  |
| 14               | 0.4  |
| 15               | 353.2  |
| 16               | 346.0  |
| 17               | 338.8  |
| 18               | 331.7  |
| 19               | 324.4  |
| 20               | 317.2  |
| 21               | 310.0  |
| 22               | 302.8  |
| 23               | 295.7  |
| 24               | 288.5  |

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|           |       |
|-----------|-------|
| <b>25</b> | 281.2 |
| <b>26</b> | 274.0 |
| <b>27</b> | 266.8 |
| <b>28</b> | 259.7 |
| <b>29</b> | 252.5 |
| <b>30</b> | 245.3 |
| <b>31</b> | 238.0 |
| <b>32</b> | 230.8 |
| <b>33</b> | 223.6 |
| <b>34</b> | 216.4 |
| <b>35</b> | 209.2 |
| <b>36</b> | 202.0 |
| <b>37</b> | 194.8 |
| <b>38</b> | 187.6 |
| <b>39</b> | 180.5 |
| <b>40</b> | 173.3 |
| <b>41</b> | 166.0 |
| <b>42</b> | 158.9 |
| <b>43</b> | 151.6 |
| <b>44</b> | 144.5 |
| <b>45</b> | 137.2 |
| <b>46</b> | 130.0 |
| <b>47</b> | 122.9 |
| <b>48</b> | 115.6 |
| <b>49</b> | 108.5 |
| <b>50</b> | 101.3 |

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## Orbital Plane 64:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 53.8 degrees   |
| Right Ascension of Ascending Node                             | 354.4 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6420.0 seconds |
| Apogee  | 1110.0 km      |
| Perigee   | 1110.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 97.4   |
| 2                | 90.2   |
| 3                | 83.0   |
| 4                | 75.8   |
| 5                | 68.6   |
| 6                | 61.4   |
| 7                | 54.2   |
| 8                | 47.0   |
| 9                | 39.8   |
| 10               | 32.6   |
| 11               | 25.4   |
| 12               | 18.2   |
| 13               | 11.0   |

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|           |       |
|-----------|-------|
| <b>14</b> | 3.8   |
| <b>15</b> | 356.6 |
| <b>16</b> | 349.4 |
| <b>17</b> | 342.2 |
| <b>18</b> | 335.0 |
| <b>19</b> | 327.8 |
| <b>20</b> | 320.6 |
| <b>21</b> | 313.4 |
| <b>22</b> | 306.2 |
| <b>23</b> | 299.0 |
| <b>24</b> | 291.8 |
| <b>25</b> | 284.6 |
| <b>26</b> | 277.4 |
| <b>27</b> | 270.2 |
| <b>28</b> | 263.0 |
| <b>29</b> | 255.8 |
| <b>30</b> | 248.6 |
| <b>31</b> | 241.4 |
| <b>32</b> | 234.2 |
| <b>33</b> | 227.0 |
| <b>34</b> | 219.8 |
| <b>35</b> | 212.6 |
| <b>36</b> | 205.4 |
| <b>37</b> | 198.2 |
| <b>38</b> | 191.0 |
| <b>39</b> | 183.8 |

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|           |       |
|-----------|-------|
| <b>40</b> | 176.6 |
| <b>41</b> | 169.4 |
| <b>42</b> | 162.2 |
| <b>43</b> | 155.0 |
| <b>44</b> | 147.8 |
| <b>45</b> | 140.6 |
| <b>46</b> | 133.4 |
| <b>47</b> | 126.2 |
| <b>48</b> | 119.0 |
| <b>49</b> | 111.8 |
| <b>50</b> | 104.6 |

**Orbital Plane 65:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 74.0 degrees    |
| Right Ascension of Ascending Node                             | 0.0 degrees     |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1130.0 km       |
| Perigee   | 1130.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 355.8   |

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|           |       |
|-----------|-------|
| <b>2</b>  | 345.6 |
| <b>3</b>  | 341.4 |
| <b>4</b>  | 331.2 |
| <b>5</b>  | 327.0 |
| <b>6</b>  | 316.8 |
| <b>7</b>  | 312.6 |
| <b>8</b>  | 302.4 |
| <b>9</b>  | 298.2 |
| <b>10</b> | 288.0 |
| <b>11</b> | 283.8 |
| <b>12</b> | 273.6 |
| <b>13</b> | 269.4 |
| <b>14</b> | 259.2 |
| <b>15</b> | 255.0 |
| <b>16</b> | 244.8 |
| <b>17</b> | 240.6 |
| <b>18</b> | 230.4 |
| <b>19</b> | 226.2 |
| <b>20</b> | 216.0 |
| <b>21</b> | 211.8 |
| <b>22</b> | 201.6 |
| <b>23</b> | 197.4 |
| <b>24</b> | 187.2 |
| <b>25</b> | 183.0 |
| <b>26</b> | 172.8 |
| <b>27</b> | 168.6 |

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|    |       |
|----|-------|
| 28 | 158.4 |
| 29 | 154.2 |
| 30 | 144.0 |
| 31 | 139.8 |
| 32 | 129.6 |
| 33 | 125.4 |
| 34 | 115.2 |
| 35 | 111.0 |
| 36 | 100.8 |
| 37 | 96.6  |
| 38 | 86.4  |
| 39 | 82.2  |
| 40 | 72.0  |
| 41 | 67.8  |
| 42 | 57.6  |
| 43 | 53.4  |
| 44 | 43.2  |
| 45 | 39.0  |
| 46 | 28.8  |
| 47 | 24.6  |
| 48 | 14.4  |
| 49 | 10.2  |
| 50 | 0.0   |

**Orbital Plane 66:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 50       |

|   |                |
|---|----------------|
| Inclination Angle   | 74.0 degrees   |
| Right Ascension of Ascending Node                             | 45.0 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1130.0 km      |
| Perigee   | 1130.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 3.0  |
| 2                | 352.8  |
| 3                | 348.6  |
| 4                | 338.4  |
| 5                | 334.2  |
| 6                | 324.0  |
| 7                | 319.8  |
| 8                | 309.6  |
| 9                | 305.4  |
| 10               | 295.2  |
| 11               | 291.0  |
| 12               | 280.8  |
| 13               | 276.6  |
| 14               | 266.4  |
| 15               | 262.2  |
| 16               | 252.0  |

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|           |       |
|-----------|-------|
| <b>17</b> | 247.8 |
| <b>18</b> | 237.6 |
| <b>19</b> | 233.4 |
| <b>20</b> | 223.2 |
| <b>21</b> | 219.0 |
| <b>22</b> | 208.8 |
| <b>23</b> | 204.6 |
| <b>24</b> | 194.4 |
| <b>25</b> | 190.2 |
| <b>26</b> | 180.0 |
| <b>27</b> | 175.8 |
| <b>28</b> | 165.6 |
| <b>29</b> | 161.4 |
| <b>30</b> | 151.2 |
| <b>31</b> | 147.0 |
| <b>32</b> | 136.8 |
| <b>33</b> | 132.6 |
| <b>34</b> | 122.4 |
| <b>35</b> | 118.2 |
| <b>36</b> | 108.0 |
| <b>37</b> | 103.8 |
| <b>38</b> | 93.6  |
| <b>39</b> | 89.4  |
| <b>40</b> | 79.2  |
| <b>41</b> | 75.0  |
| <b>42</b> | 64.8  |

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|           |      |
|-----------|------|
| <b>43</b> | 60.6 |
| <b>44</b> | 50.4 |
| <b>45</b> | 46.2 |
| <b>46</b> | 36.0 |
| <b>47</b> | 31.8 |
| <b>48</b> | 21.6 |
| <b>49</b> | 17.4 |
| <b>50</b> | 7.2  |

### Orbital Plane 67:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 74.0 degrees   |
| Right Ascension of Ascending Node                             | 90.0 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1130.0 km      |
| Perigee   | 1130.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 10.2   |
| <b>2</b>         | 0.0  |
| <b>3</b>         | 355.8  |
| <b>4</b>         | 345.6  |

---

|           |       |
|-----------|-------|
| <b>5</b>  | 341.4 |
| <b>6</b>  | 331.2 |
| <b>7</b>  | 327.0 |
| <b>8</b>  | 316.8 |
| <b>9</b>  | 312.6 |
| <b>10</b> | 302.4 |
| <b>11</b> | 298.2 |
| <b>12</b> | 288.0 |
| <b>13</b> | 283.8 |
| <b>14</b> | 273.6 |
| <b>15</b> | 269.4 |
| <b>16</b> | 259.2 |
| <b>17</b> | 255.0 |
| <b>18</b> | 244.8 |
| <b>19</b> | 240.6 |
| <b>20</b> | 230.4 |
| <b>21</b> | 226.2 |
| <b>22</b> | 216.0 |
| <b>23</b> | 211.8 |
| <b>24</b> | 201.6 |
| <b>25</b> | 197.4 |
| <b>26</b> | 187.2 |
| <b>27</b> | 183.0 |
| <b>28</b> | 172.8 |
| <b>29</b> | 168.6 |
| <b>30</b> | 158.4 |

---

|    |       |
|----|-------|
| 31 | 154.2 |
| 32 | 144.0 |
| 33 | 139.8 |
| 34 | 129.6 |
| 35 | 125.4 |
| 36 | 115.2 |
| 37 | 111.0 |
| 38 | 100.8 |
| 39 | 96.6  |
| 40 | 86.4  |
| 41 | 82.2  |
| 42 | 72.0  |
| 43 | 67.8  |
| 44 | 57.6  |
| 45 | 53.4  |
| 46 | 43.2  |
| 47 | 39.0  |
| 48 | 28.8  |
| 49 | 24.6  |
| 50 | 14.4  |

**Orbital Plane 68:**

| Question                          | Response      |
|-----------------------------------|---------------|
| Number of Satellites in Plane     | 50            |
| Inclination Angle                 | 74.0 degrees  |
| Right Ascension of Ascending Node | 135.0 degrees |
| Argument of Perigee               | 0.0 degrees   |



|   |                |
|---|----------------|
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1130.0 km      |
| Perigee   | 1130.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 17.4   |
| 2                | 7.2  |
| 3                | 3.0  |
| 4                | 352.8  |
| 5                | 348.6  |
| 6                | 338.4  |
| 7                | 334.2  |
| 8                | 324.0  |
| 9                | 319.8  |
| 10               | 309.6  |
| 11               | 305.4  |
| 12               | 295.2  |
| 13               | 291.0  |
| 14               | 280.8  |
| 15               | 276.6  |
| 16               | 266.4  |
| 17               | 262.2  |
| 18               | 252.0  |
| 19               | 247.8  |

---

|           |       |
|-----------|-------|
| <b>20</b> | 237.6 |
| <b>21</b> | 233.4 |
| <b>22</b> | 223.2 |
| <b>23</b> | 219.0 |
| <b>24</b> | 208.8 |
| <b>25</b> | 204.6 |
| <b>26</b> | 194.4 |
| <b>27</b> | 190.2 |
| <b>28</b> | 180.0 |
| <b>29</b> | 175.8 |
| <b>30</b> | 165.6 |
| <b>31</b> | 161.4 |
| <b>32</b> | 151.2 |
| <b>33</b> | 147.0 |
| <b>34</b> | 136.8 |
| <b>35</b> | 132.6 |
| <b>36</b> | 122.4 |
| <b>37</b> | 118.2 |
| <b>38</b> | 108.0 |
| <b>39</b> | 103.8 |
| <b>40</b> | 93.6  |
| <b>41</b> | 89.4  |
| <b>42</b> | 79.2  |
| <b>43</b> | 75.0  |
| <b>44</b> | 64.8  |
| <b>45</b> | 60.6  |

---

|           |      |
|-----------|------|
| <b>46</b> | 50.4 |
| <b>47</b> | 46.2 |
| <b>48</b> | 36.0 |
| <b>49</b> | 31.8 |
| <b>50</b> | 21.6 |

### Orbital Plane 69:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 74.0 degrees   |
| Right Ascension of Ascending Node                             | 180.0 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1130.0 km      |
| Perigee   | 1130.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 24.6   |
| <b>2</b>         | 14.4   |
| <b>3</b>         | 10.2   |
| <b>4</b>         | 0.0  |
| <b>5</b>         | 355.8  |
| <b>6</b>         | 345.6  |
| <b>7</b>         | 341.4  |

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|           |       |
|-----------|-------|
| <b>8</b>  | 331.2 |
| <b>9</b>  | 327.0 |
| <b>10</b> | 316.8 |
| <b>11</b> | 312.6 |
| <b>12</b> | 302.4 |
| <b>13</b> | 298.2 |
| <b>14</b> | 288.0 |
| <b>15</b> | 283.8 |
| <b>16</b> | 273.6 |
| <b>17</b> | 269.4 |
| <b>18</b> | 259.2 |
| <b>19</b> | 255.0 |
| <b>20</b> | 244.8 |
| <b>21</b> | 240.6 |
| <b>22</b> | 230.4 |
| <b>23</b> | 226.2 |
| <b>24</b> | 216.0 |
| <b>25</b> | 211.8 |
| <b>26</b> | 201.6 |
| <b>27</b> | 197.4 |
| <b>28</b> | 187.2 |
| <b>29</b> | 183.0 |
| <b>30</b> | 172.8 |
| <b>31</b> | 168.6 |
| <b>32</b> | 158.4 |
| <b>33</b> | 154.2 |

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|           |       |
|-----------|-------|
| <b>34</b> | 144.0 |
| <b>35</b> | 139.8 |
| <b>36</b> | 129.6 |
| <b>37</b> | 125.4 |
| <b>38</b> | 115.2 |
| <b>39</b> | 111.0 |
| <b>40</b> | 100.8 |
| <b>41</b> | 96.6  |
| <b>42</b> | 86.4  |
| <b>43</b> | 82.2  |
| <b>44</b> | 72.0  |
| <b>45</b> | 67.8  |
| <b>46</b> | 57.6  |
| <b>47</b> | 53.4  |
| <b>48</b> | 43.2  |
| <b>49</b> | 39.0  |
| <b>50</b> | 28.8  |

**Orbital Plane 70:**

| <b>Question</b>                   | <b>Response</b> |
|-----------------------------------|-----------------|
| Number of Satellites in Plane     | 50              |
| Inclination Angle                 | 74.0 degrees    |
| Right Ascension of Ascending Node | 225.0 degrees   |
| Argument of Perigee               | 0.0 degrees     |
| Orbital Period                    | 6480.0 seconds  |
| Apogee                            | 1130.0 km       |
| Perigee                           | 1130.0 km       |

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|   |               |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 31.8   |
| 2                | 21.6   |
| 3                | 17.4   |
| 4                | 7.2  |
| 5                | 3.0  |
| 6                | 352.8  |
| 7                | 348.6  |
| 8                | 338.4  |
| 9                | 334.2  |
| 10               | 324.0  |
| 11               | 319.8  |
| 12               | 309.6  |
| 13               | 305.4  |
| 14               | 295.2  |
| 15               | 291.0  |
| 16               | 280.8  |
| 17               | 276.6  |
| 18               | 266.4  |
| 19               | 262.2  |
| 20               | 252.0  |
| 21               | 247.8  |

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|           |       |
|-----------|-------|
| <b>22</b> | 237.6 |
| <b>23</b> | 233.4 |
| <b>24</b> | 223.2 |
| <b>25</b> | 219.0 |
| <b>26</b> | 208.8 |
| <b>27</b> | 204.6 |
| <b>28</b> | 194.4 |
| <b>29</b> | 190.2 |
| <b>30</b> | 180.0 |
| <b>31</b> | 175.8 |
| <b>32</b> | 165.6 |
| <b>33</b> | 161.4 |
| <b>34</b> | 151.2 |
| <b>35</b> | 147.0 |
| <b>36</b> | 136.8 |
| <b>37</b> | 132.6 |
| <b>38</b> | 122.4 |
| <b>39</b> | 118.2 |
| <b>40</b> | 108.0 |
| <b>41</b> | 103.8 |
| <b>42</b> | 93.6  |
| <b>43</b> | 89.4  |
| <b>44</b> | 79.2  |
| <b>45</b> | 75.0  |
| <b>46</b> | 64.8  |
| <b>47</b> | 60.6  |

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|           |      |
|-----------|------|
| <b>48</b> | 50.4 |
| <b>49</b> | 46.2 |
| <b>50</b> | 36.0 |

### Orbital Plane 71:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 50             |
| Inclination Angle   | 74.0 degrees   |
| Right Ascension of Ascending Node                             | 270.0 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6480.0 seconds |
| Apogee  | 1130.0 km      |
| Perigee   | 1130.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 39.0   |
| <b>2</b>         | 28.8   |
| <b>3</b>         | 24.6   |
| <b>4</b>         | 14.4   |
| <b>5</b>         | 10.2   |
| <b>6</b>         | 0.0  |
| <b>7</b>         | 355.8  |
| <b>8</b>         | 345.6  |
| <b>9</b>         | 341.4  |



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|           |       |
|-----------|-------|
| <b>10</b> | 331.2 |
| <b>11</b> | 327.0 |
| <b>12</b> | 316.8 |
| <b>13</b> | 312.6 |
| <b>14</b> | 302.4 |
| <b>15</b> | 298.2 |
| <b>16</b> | 288.0 |
| <b>17</b> | 283.8 |
| <b>18</b> | 273.6 |
| <b>19</b> | 269.4 |
| <b>20</b> | 259.2 |
| <b>21</b> | 255.0 |
| <b>22</b> | 244.8 |
| <b>23</b> | 240.6 |
| <b>24</b> | 230.4 |
| <b>25</b> | 226.2 |
| <b>26</b> | 216.0 |
| <b>27</b> | 211.8 |
| <b>28</b> | 201.6 |
| <b>29</b> | 197.4 |
| <b>30</b> | 187.2 |
| <b>31</b> | 183.0 |
| <b>32</b> | 172.8 |
| <b>33</b> | 168.6 |
| <b>34</b> | 158.4 |
| <b>35</b> | 154.2 |

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|           |       |
|-----------|-------|
| <b>36</b> | 144.0 |
| <b>37</b> | 139.8 |
| <b>38</b> | 129.6 |
| <b>39</b> | 125.4 |
| <b>40</b> | 115.2 |
| <b>41</b> | 111.0 |
| <b>42</b> | 100.8 |
| <b>43</b> | 96.6  |
| <b>44</b> | 86.4  |
| <b>45</b> | 82.2  |
| <b>46</b> | 72.0  |
| <b>47</b> | 67.8  |
| <b>48</b> | 57.6  |
| <b>49</b> | 53.4  |
| <b>50</b> | 43.2  |

**Orbital Plane 72:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 50              |
| Inclination Angle   | 74.0 degrees    |
| Right Ascension of Ascending Node                             | 315.0 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6480.0 seconds  |
| Apogee  | 1130.0 km       |
| Perigee   | 1130.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 46.2   |
| 2                | 36.0   |
| 3                | 31.8   |
| 4                | 21.6   |
| 5                | 17.4   |
| 6                | 7.2  |
| 7                | 3.0  |
| 8                | 352.8  |
| 9                | 348.6  |
| 10               | 338.4  |
| 11               | 334.2  |
| 12               | 324.0  |
| 13               | 319.8  |
| 14               | 309.6  |
| 15               | 305.4  |
| 16               | 295.2  |
| 17               | 291.0  |
| 18               | 280.8  |
| 19               | 276.6  |
| 20               | 266.4  |
| 21               | 262.2  |
| 22               | 252.0  |
| 23               | 247.8  |
| 24               | 237.6  |

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|           |       |
|-----------|-------|
| <b>25</b> | 233.4 |
| <b>26</b> | 223.2 |
| <b>27</b> | 219.0 |
| <b>28</b> | 208.8 |
| <b>29</b> | 204.6 |
| <b>30</b> | 194.4 |
| <b>31</b> | 190.2 |
| <b>32</b> | 180.0 |
| <b>33</b> | 175.8 |
| <b>34</b> | 165.6 |
| <b>35</b> | 161.4 |
| <b>36</b> | 151.2 |
| <b>37</b> | 147.0 |
| <b>38</b> | 136.8 |
| <b>39</b> | 132.6 |
| <b>40</b> | 122.4 |
| <b>41</b> | 118.2 |
| <b>42</b> | 108.0 |
| <b>43</b> | 103.8 |
| <b>44</b> | 93.6  |
| <b>45</b> | 89.4  |
| <b>46</b> | 79.2  |
| <b>47</b> | 75.0  |
| <b>48</b> | 64.8  |
| <b>49</b> | 60.6  |
| <b>50</b> | 50.4  |

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## Orbital Plane 73:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 75             |
| Inclination Angle   | 70.0 degrees   |
| Right Ascension of Ascending Node                             | 0.0 degrees    |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6720.0 seconds |
| Apogee  | 1325.0 km      |
| Perigee   | 1325.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 259.2  |
| 2                | 254.4  |
| 3                | 249.6  |
| 4                | 244.8  |
| 5                | 240.0  |
| 6                | 235.2  |
| 7                | 230.4  |
| 8                | 225.6  |
| 9                | 220.8  |
| 10               | 216.0  |
| 11               | 211.2  |
| 12               | 206.4  |
| 13               | 201.6  |

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|           |       |
|-----------|-------|
| <b>14</b> | 196.8 |
| <b>15</b> | 192.0 |
| <b>16</b> | 187.2 |
| <b>17</b> | 182.4 |
| <b>18</b> | 177.6 |
| <b>19</b> | 172.8 |
| <b>20</b> | 168.0 |
| <b>21</b> | 163.2 |
| <b>22</b> | 158.4 |
| <b>23</b> | 153.6 |
| <b>24</b> | 148.8 |
| <b>25</b> | 144.0 |
| <b>26</b> | 139.2 |
| <b>27</b> | 134.4 |
| <b>28</b> | 129.6 |
| <b>29</b> | 124.8 |
| <b>30</b> | 120.0 |
| <b>31</b> | 115.2 |
| <b>32</b> | 110.4 |
| <b>33</b> | 105.6 |
| <b>34</b> | 100.8 |
| <b>35</b> | 96.0  |
| <b>36</b> | 91.2  |
| <b>37</b> | 86.4  |
| <b>38</b> | 81.6  |
| <b>39</b> | 355.2 |

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|           |       |
|-----------|-------|
| <b>40</b> | 350.4 |
| <b>41</b> | 345.6 |
| <b>42</b> | 340.8 |
| <b>43</b> | 336.0 |
| <b>44</b> | 331.2 |
| <b>45</b> | 326.4 |
| <b>46</b> | 321.6 |
| <b>47</b> | 316.8 |
| <b>48</b> | 312.0 |
| <b>49</b> | 307.2 |
| <b>50</b> | 302.4 |
| <b>51</b> | 297.6 |
| <b>52</b> | 292.8 |
| <b>53</b> | 288.0 |
| <b>54</b> | 283.2 |
| <b>55</b> | 278.4 |
| <b>56</b> | 273.6 |
| <b>57</b> | 268.8 |
| <b>58</b> | 264.0 |
| <b>59</b> | 76.8  |
| <b>60</b> | 72.0  |
| <b>61</b> | 67.2  |
| <b>62</b> | 62.4  |
| <b>63</b> | 57.6  |
| <b>64</b> | 52.8  |
| <b>65</b> | 48.0  |

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|           |      |
|-----------|------|
| <b>66</b> | 43.2 |
| <b>67</b> | 38.4 |
| <b>68</b> | 33.6 |
| <b>69</b> | 28.8 |
| <b>70</b> | 24.0 |
| <b>71</b> | 19.2 |
| <b>72</b> | 14.4 |
| <b>73</b> | 9.6  |
| <b>74</b> | 4.8  |
| <b>75</b> | 0.0  |

### Orbital Plane 74:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 75             |
| Inclination Angle   | 70.0 degrees   |
| Right Ascension of Ascending Node                             | 60.0 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6720.0 seconds |
| Apogee  | 1325.0 km      |
| Perigee   | 1325.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 356.0  |
| <b>2</b>         | 351.2  |



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|           |       |
|-----------|-------|
| <b>3</b>  | 346.4 |
| <b>4</b>  | 341.6 |
| <b>5</b>  | 336.8 |
| <b>6</b>  | 332.0 |
| <b>7</b>  | 327.2 |
| <b>8</b>  | 322.4 |
| <b>9</b>  | 317.6 |
| <b>10</b> | 312.8 |
| <b>11</b> | 308.0 |
| <b>12</b> | 303.2 |
| <b>13</b> | 298.4 |
| <b>14</b> | 293.6 |
| <b>15</b> | 288.8 |
| <b>16</b> | 284.0 |
| <b>17</b> | 279.2 |
| <b>18</b> | 274.4 |
| <b>19</b> | 269.6 |
| <b>20</b> | 264.8 |
| <b>21</b> | 260.0 |
| <b>22</b> | 255.2 |
| <b>23</b> | 250.4 |
| <b>24</b> | 245.6 |
| <b>25</b> | 240.8 |
| <b>26</b> | 236.0 |
| <b>27</b> | 231.2 |
| <b>28</b> | 226.4 |

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|           |       |
|-----------|-------|
| <b>29</b> | 221.6 |
| <b>30</b> | 216.8 |
| <b>31</b> | 212.0 |
| <b>32</b> | 207.2 |
| <b>33</b> | 202.4 |
| <b>34</b> | 197.6 |
| <b>35</b> | 192.8 |
| <b>36</b> | 188.0 |
| <b>37</b> | 183.2 |
| <b>38</b> | 178.4 |
| <b>39</b> | 173.6 |
| <b>40</b> | 168.8 |
| <b>41</b> | 164.0 |
| <b>42</b> | 159.2 |
| <b>43</b> | 154.4 |
| <b>44</b> | 149.6 |
| <b>45</b> | 144.8 |
| <b>46</b> | 140.0 |
| <b>47</b> | 135.2 |
| <b>48</b> | 130.4 |
| <b>49</b> | 125.6 |
| <b>50</b> | 120.8 |
| <b>51</b> | 116.0 |
| <b>52</b> | 111.2 |
| <b>53</b> | 106.4 |
| <b>54</b> | 101.6 |

---

|    |      |
|----|------|
| 55 | 96.8 |
| 56 | 92.0 |
| 57 | 87.2 |
| 58 | 82.4 |
| 59 | 77.6 |
| 60 | 72.8 |
| 61 | 68.0 |
| 62 | 63.2 |
| 63 | 58.4 |
| 64 | 53.6 |
| 65 | 48.8 |
| 66 | 44.0 |
| 67 | 39.2 |
| 68 | 34.4 |
| 69 | 29.6 |
| 70 | 24.8 |
| 71 | 20.0 |
| 72 | 15.2 |
| 73 | 10.4 |
| 74 | 5.6  |
| 75 | 0.8  |

**Orbital Plane 75:**

| Question                          | Response      |
|-----------------------------------|---------------|
| Number of Satellites in Plane     | 75            |
| Inclination Angle                 | 70.0 degrees  |
| Right Ascension of Ascending Node | 120.0 degrees |

|   |                |
|---|----------------|
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6720.0 seconds |
| Apogee  | 1325.0 km      |
| Perigee   | 1325.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 284.8  |
| 2                | 280.0  |
| 3                | 275.2  |
| 4                | 270.4  |
| 5                | 265.6  |
| 6                | 260.8  |
| 7                | 256.0  |
| 8                | 251.2  |
| 9                | 246.4  |
| 10               | 241.6  |
| 11               | 236.8  |
| 12               | 232.0  |
| 13               | 227.2  |
| 14               | 222.4  |
| 15               | 217.6  |
| 16               | 212.8  |
| 17               | 208.0  |
| 18               | 203.2  |

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|           |       |
|-----------|-------|
| <b>19</b> | 198.4 |
| <b>20</b> | 193.6 |
| <b>21</b> | 188.8 |
| <b>22</b> | 184.0 |
| <b>23</b> | 179.2 |
| <b>24</b> | 174.4 |
| <b>25</b> | 169.6 |
| <b>26</b> | 164.8 |
| <b>27</b> | 160.0 |
| <b>28</b> | 155.2 |
| <b>29</b> | 150.4 |
| <b>30</b> | 145.6 |
| <b>31</b> | 140.8 |
| <b>32</b> | 136.0 |
| <b>33</b> | 131.2 |
| <b>34</b> | 126.4 |
| <b>35</b> | 121.6 |
| <b>36</b> | 116.8 |
| <b>37</b> | 112.0 |
| <b>38</b> | 107.2 |
| <b>39</b> | 102.4 |
| <b>40</b> | 97.6  |
| <b>41</b> | 92.8  |
| <b>42</b> | 88.0  |
| <b>43</b> | 83.2  |
| <b>44</b> | 356.8 |

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|           |       |
|-----------|-------|
| <b>45</b> | 352.0 |
| <b>46</b> | 347.2 |
| <b>47</b> | 342.4 |
| <b>48</b> | 337.6 |
| <b>49</b> | 332.8 |
| <b>50</b> | 328.0 |
| <b>51</b> | 323.2 |
| <b>52</b> | 318.4 |
| <b>53</b> | 313.6 |
| <b>54</b> | 308.8 |
| <b>55</b> | 304.0 |
| <b>56</b> | 299.2 |
| <b>57</b> | 294.4 |
| <b>58</b> | 289.6 |
| <b>59</b> | 78.4  |
| <b>60</b> | 73.6  |
| <b>61</b> | 68.8  |
| <b>62</b> | 64.0  |
| <b>63</b> | 59.2  |
| <b>64</b> | 54.4  |
| <b>65</b> | 49.6  |
| <b>66</b> | 44.8  |
| <b>67</b> | 40.0  |
| <b>68</b> | 35.2  |
| <b>69</b> | 30.4  |
| <b>70</b> | 25.6  |

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|           |      |
|-----------|------|
| <b>71</b> | 20.8 |
| <b>72</b> | 16.0 |
| <b>73</b> | 11.2 |
| <b>74</b> | 6.4  |
| <b>75</b> | 1.6  |

## Orbital Plane 76:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 75             |
| Inclination Angle   | 70.0 degrees   |
| Right Ascension of Ascending Node                             | 180.0 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6720.0 seconds |
| Apogee  | 1325.0 km      |
| Perigee   | 1325.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

## Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 357.6  |
| <b>2</b>         | 352.8  |
| <b>3</b>         | 348.0  |
| <b>4</b>         | 343.2  |
| <b>5</b>         | 338.4  |
| <b>6</b>         | 333.6  |
| <b>7</b>         | 328.8  |

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|           |       |
|-----------|-------|
| <b>8</b>  | 324.0 |
| <b>9</b>  | 319.2 |
| <b>10</b> | 314.4 |
| <b>11</b> | 309.6 |
| <b>12</b> | 304.8 |
| <b>13</b> | 300.0 |
| <b>14</b> | 295.2 |
| <b>15</b> | 290.4 |
| <b>16</b> | 285.6 |
| <b>17</b> | 280.8 |
| <b>18</b> | 276.0 |
| <b>19</b> | 271.2 |
| <b>20</b> | 266.4 |
| <b>21</b> | 261.6 |
| <b>22</b> | 256.8 |
| <b>23</b> | 252.0 |
| <b>24</b> | 247.2 |
| <b>25</b> | 242.4 |
| <b>26</b> | 237.6 |
| <b>27</b> | 232.8 |
| <b>28</b> | 228.0 |
| <b>29</b> | 223.2 |
| <b>30</b> | 218.4 |
| <b>31</b> | 213.6 |
| <b>32</b> | 208.8 |
| <b>33</b> | 204.0 |

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|           |       |
|-----------|-------|
| <b>34</b> | 199.2 |
| <b>35</b> | 194.4 |
| <b>36</b> | 189.6 |
| <b>37</b> | 184.8 |
| <b>38</b> | 180.0 |
| <b>39</b> | 175.2 |
| <b>40</b> | 170.4 |
| <b>41</b> | 165.6 |
| <b>42</b> | 160.8 |
| <b>43</b> | 156.0 |
| <b>44</b> | 151.2 |
| <b>45</b> | 146.4 |
| <b>46</b> | 141.6 |
| <b>47</b> | 136.8 |
| <b>48</b> | 132.0 |
| <b>49</b> | 127.2 |
| <b>50</b> | 122.4 |
| <b>51</b> | 117.6 |
| <b>52</b> | 112.8 |
| <b>53</b> | 108.0 |
| <b>54</b> | 103.2 |
| <b>55</b> | 98.4  |
| <b>56</b> | 93.6  |
| <b>57</b> | 88.8  |
| <b>58</b> | 84.0  |
| <b>59</b> | 79.2  |

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|           |      |
|-----------|------|
| <b>60</b> | 74.4 |
| <b>61</b> | 69.6 |
| <b>62</b> | 64.8 |
| <b>63</b> | 60.0 |
| <b>64</b> | 55.2 |
| <b>65</b> | 50.4 |
| <b>66</b> | 45.6 |
| <b>67</b> | 40.8 |
| <b>68</b> | 36.0 |
| <b>69</b> | 31.2 |
| <b>70</b> | 26.4 |
| <b>71</b> | 21.6 |
| <b>72</b> | 16.8 |
| <b>73</b> | 12.0 |
| <b>74</b> | 7.2  |
| <b>75</b> | 2.4  |

**Orbital Plane 77:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 75              |
| Inclination Angle   | 70.0 degrees    |
| Right Ascension of Ascending Node                             | 240.0 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6720.0 seconds  |
| Apogee  | 1325.0 km       |
| Perigee   | 1325.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |

**Mean Anomaly For Each Satellite**

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 310.4  |
| 2                | 305.6  |
| 3                | 300.8  |
| 4                | 296.0  |
| 5                | 291.2  |
| 6                | 286.4  |
| 7                | 281.6  |
| 8                | 276.8  |
| 9                | 272.0  |
| 10               | 267.2  |
| 11               | 262.4  |
| 12               | 257.6  |
| 13               | 252.8  |
| 14               | 248.0  |
| 15               | 243.2  |
| 16               | 238.4  |
| 17               | 233.6  |
| 18               | 228.8  |
| 19               | 224.0  |
| 20               | 219.2  |
| 21               | 214.4  |
| 22               | 209.6  |

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|           |       |
|-----------|-------|
| <b>23</b> | 204.8 |
| <b>24</b> | 200.0 |
| <b>25</b> | 195.2 |
| <b>26</b> | 190.4 |
| <b>27</b> | 185.6 |
| <b>28</b> | 180.8 |
| <b>29</b> | 176.0 |
| <b>30</b> | 171.2 |
| <b>31</b> | 166.4 |
| <b>32</b> | 161.6 |
| <b>33</b> | 156.8 |
| <b>34</b> | 152.0 |
| <b>35</b> | 147.2 |
| <b>36</b> | 142.4 |
| <b>37</b> | 137.6 |
| <b>38</b> | 132.8 |
| <b>39</b> | 128.0 |
| <b>40</b> | 123.2 |
| <b>41</b> | 118.4 |
| <b>42</b> | 113.6 |
| <b>43</b> | 108.8 |
| <b>44</b> | 104.0 |
| <b>45</b> | 99.2  |
| <b>46</b> | 94.4  |
| <b>47</b> | 89.6  |
| <b>48</b> | 84.8  |

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|           |       |
|-----------|-------|
| <b>49</b> | 358.4 |
| <b>50</b> | 353.6 |
| <b>51</b> | 348.8 |
| <b>52</b> | 344.0 |
| <b>53</b> | 339.2 |
| <b>54</b> | 334.4 |
| <b>55</b> | 329.6 |
| <b>56</b> | 324.8 |
| <b>57</b> | 320.0 |
| <b>58</b> | 315.2 |
| <b>59</b> | 80.0  |
| <b>60</b> | 75.2  |
| <b>61</b> | 70.4  |
| <b>62</b> | 65.6  |
| <b>63</b> | 60.8  |
| <b>64</b> | 56.0  |
| <b>65</b> | 51.2  |
| <b>66</b> | 46.4  |
| <b>67</b> | 41.6  |
| <b>68</b> | 36.8  |
| <b>69</b> | 32.0  |
| <b>70</b> | 27.2  |
| <b>71</b> | 22.4  |
| <b>72</b> | 17.6  |
| <b>73</b> | 12.8  |
| <b>74</b> | 8.0   |

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75

3.2

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### Orbital Plane 78:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 75             |
| Inclination Angle   | 70.0 degrees   |
| Right Ascension of Ascending Node                             | 300.0 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6720.0 seconds |
| Apogee  | 1325.0 km      |
| Perigee   | 1325.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 359.2  |
| 2                | 354.4  |
| 3                | 349.6  |
| 4                | 344.8  |
| 5                | 340.0  |
| 6                | 335.2  |
| 7                | 330.4  |
| 8                | 325.6  |
| 9                | 320.8  |
| 10               | 316.0  |
| 11               | 311.2  |

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|           |       |
|-----------|-------|
| <b>12</b> | 306.4 |
| <b>13</b> | 301.6 |
| <b>14</b> | 296.8 |
| <b>15</b> | 292.0 |
| <b>16</b> | 287.2 |
| <b>17</b> | 282.4 |
| <b>18</b> | 277.6 |
| <b>19</b> | 272.8 |
| <b>20</b> | 268.0 |
| <b>21</b> | 263.2 |
| <b>22</b> | 258.4 |
| <b>23</b> | 253.6 |
| <b>24</b> | 248.8 |
| <b>25</b> | 244.0 |
| <b>26</b> | 239.2 |
| <b>27</b> | 234.4 |
| <b>28</b> | 229.6 |
| <b>29</b> | 224.8 |
| <b>30</b> | 220.0 |
| <b>31</b> | 215.2 |
| <b>32</b> | 210.4 |
| <b>33</b> | 205.6 |
| <b>34</b> | 200.8 |
| <b>35</b> | 196.0 |
| <b>36</b> | 191.2 |
| <b>37</b> | 186.4 |

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|           |       |
|-----------|-------|
| <b>38</b> | 181.6 |
| <b>39</b> | 176.8 |
| <b>40</b> | 172.0 |
| <b>41</b> | 167.2 |
| <b>42</b> | 162.4 |
| <b>43</b> | 157.6 |
| <b>44</b> | 152.8 |
| <b>45</b> | 148.0 |
| <b>46</b> | 143.2 |
| <b>47</b> | 138.4 |
| <b>48</b> | 133.6 |
| <b>49</b> | 128.8 |
| <b>50</b> | 124.0 |
| <b>51</b> | 119.2 |
| <b>52</b> | 114.4 |
| <b>53</b> | 109.6 |
| <b>54</b> | 104.8 |
| <b>55</b> | 100.0 |
| <b>56</b> | 95.2  |
| <b>57</b> | 90.4  |
| <b>58</b> | 85.6  |
| <b>59</b> | 80.8  |
| <b>60</b> | 76.0  |
| <b>61</b> | 71.2  |
| <b>62</b> | 66.4  |
| <b>63</b> | 61.6  |

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|           |      |
|-----------|------|
| <b>64</b> | 56.8 |
| <b>65</b> | 52.0 |
| <b>66</b> | 47.2 |
| <b>67</b> | 42.4 |
| <b>68</b> | 37.6 |
| <b>69</b> | 32.8 |
| <b>70</b> | 28.0 |
| <b>71</b> | 23.2 |
| <b>72</b> | 18.4 |
| <b>73</b> | 13.6 |
| <b>74</b> | 8.8  |
| <b>75</b> | 4.0  |

**Orbital Plane 79:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 75              |
| Inclination Angle   | 81.0 degrees    |
| Right Ascension of Ascending Node                             | 0.0 degrees     |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6660.0 seconds  |
| Apogee  | 1275.0 km       |
| Perigee   | 1275.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
|-------------------------|---|

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|           |       |
|-----------|-------|
| <b>1</b>  | 331.2 |
| <b>2</b>  | 326.4 |
| <b>3</b>  | 321.6 |
| <b>4</b>  | 316.8 |
| <b>5</b>  | 312.0 |
| <b>6</b>  | 307.2 |
| <b>7</b>  | 302.4 |
| <b>8</b>  | 297.6 |
| <b>9</b>  | 292.8 |
| <b>10</b> | 288.0 |
| <b>11</b> | 283.2 |
| <b>12</b> | 278.4 |
| <b>13</b> | 273.6 |
| <b>14</b> | 268.8 |
| <b>15</b> | 264.0 |
| <b>16</b> | 259.2 |
| <b>17</b> | 254.4 |
| <b>18</b> | 249.6 |
| <b>19</b> | 244.8 |
| <b>20</b> | 240.0 |
| <b>21</b> | 235.2 |
| <b>22</b> | 230.4 |
| <b>23</b> | 225.6 |
| <b>24</b> | 220.8 |
| <b>25</b> | 216.0 |
| <b>26</b> | 211.2 |

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|           |       |
|-----------|-------|
| <b>27</b> | 206.4 |
| <b>28</b> | 201.6 |
| <b>29</b> | 196.8 |
| <b>30</b> | 192.0 |
| <b>31</b> | 187.2 |
| <b>32</b> | 182.4 |
| <b>33</b> | 177.6 |
| <b>34</b> | 172.8 |
| <b>35</b> | 168.0 |
| <b>36</b> | 163.2 |
| <b>37</b> | 158.4 |
| <b>38</b> | 153.6 |
| <b>39</b> | 148.8 |
| <b>40</b> | 144.0 |
| <b>41</b> | 139.2 |
| <b>42</b> | 134.4 |
| <b>43</b> | 129.6 |
| <b>44</b> | 124.8 |
| <b>45</b> | 120.0 |
| <b>46</b> | 115.2 |
| <b>47</b> | 110.4 |
| <b>48</b> | 105.6 |
| <b>49</b> | 100.8 |
| <b>50</b> | 96.0  |
| <b>51</b> | 91.2  |
| <b>52</b> | 86.4  |

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|    |       |
|----|-------|
| 53 | 81.6  |
| 54 | 355.2 |
| 55 | 350.4 |
| 56 | 345.6 |
| 57 | 340.8 |
| 58 | 336.0 |
| 59 | 76.8  |
| 60 | 72.0  |
| 61 | 67.2  |
| 62 | 62.4  |
| 63 | 57.6  |
| 64 | 52.8  |
| 65 | 48.0  |
| 66 | 43.2  |
| 67 | 38.4  |
| 68 | 33.6  |
| 69 | 28.8  |
| 70 | 24.0  |
| 71 | 19.2  |
| 72 | 14.4  |
| 73 | 9.6   |
| 74 | 4.8   |
| 75 | 0.0   |

**Orbital Plane 80:**

| Question                      | Response |
|-------------------------------|----------|
| Number of Satellites in Plane | 75       |

|   |                |
|---|----------------|
| Inclination Angle   | 81.0 degrees   |
| Right Ascension of Ascending Node                             | 72.0 degrees   |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6660.0 seconds |
| Apogee  | 1275.0 km      |
| Perigee   | 1275.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 356.0  |
| 2                | 351.2  |
| 3                | 346.4  |
| 4                | 341.6  |
| 5                | 336.8  |
| 6                | 332.0  |
| 7                | 327.2  |
| 8                | 322.4  |
| 9                | 317.6  |
| 10               | 312.8  |
| 11               | 308.0  |
| 12               | 303.2  |
| 13               | 298.4  |
| 14               | 293.6  |
| 15               | 288.8  |
| 16               | 284.0  |

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|           |       |
|-----------|-------|
| <b>17</b> | 279.2 |
| <b>18</b> | 274.4 |
| <b>19</b> | 269.6 |
| <b>20</b> | 264.8 |
| <b>21</b> | 260.0 |
| <b>22</b> | 255.2 |
| <b>23</b> | 250.4 |
| <b>24</b> | 245.6 |
| <b>25</b> | 240.8 |
| <b>26</b> | 236.0 |
| <b>27</b> | 231.2 |
| <b>28</b> | 226.4 |
| <b>29</b> | 221.6 |
| <b>30</b> | 216.8 |
| <b>31</b> | 212.0 |
| <b>32</b> | 207.2 |
| <b>33</b> | 202.4 |
| <b>34</b> | 197.6 |
| <b>35</b> | 192.8 |
| <b>36</b> | 188.0 |
| <b>37</b> | 183.2 |
| <b>38</b> | 178.4 |
| <b>39</b> | 173.6 |
| <b>40</b> | 168.8 |
| <b>41</b> | 164.0 |
| <b>42</b> | 159.2 |

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|           |       |
|-----------|-------|
| <b>43</b> | 154.4 |
| <b>44</b> | 149.6 |
| <b>45</b> | 144.8 |
| <b>46</b> | 140.0 |
| <b>47</b> | 135.2 |
| <b>48</b> | 130.4 |
| <b>49</b> | 125.6 |
| <b>50</b> | 120.8 |
| <b>51</b> | 116.0 |
| <b>52</b> | 111.2 |
| <b>53</b> | 106.4 |
| <b>54</b> | 101.6 |
| <b>55</b> | 96.8  |
| <b>56</b> | 92.0  |
| <b>57</b> | 87.2  |
| <b>58</b> | 82.4  |
| <b>59</b> | 77.6  |
| <b>60</b> | 72.8  |
| <b>61</b> | 68.0  |
| <b>62</b> | 63.2  |
| <b>63</b> | 58.4  |
| <b>64</b> | 53.6  |
| <b>65</b> | 48.8  |
| <b>66</b> | 44.0  |
| <b>67</b> | 39.2  |
| <b>68</b> | 34.4  |

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|           |      |
|-----------|------|
| <b>69</b> | 29.6 |
| <b>70</b> | 24.8 |
| <b>71</b> | 20.0 |
| <b>72</b> | 15.2 |
| <b>73</b> | 10.4 |
| <b>74</b> | 5.6  |
| <b>75</b> | 0.8  |

**Orbital Plane 81:**

| <b>Question</b>   | <b>Response</b> |
|---|-----------------|
| Number of Satellites in Plane                                 | 75              |
| Inclination Angle   | 81.0 degrees    |
| Right Ascension of Ascending Node                             | 144.0 degrees   |
| Argument of Perigee   | 0.0 degrees     |
| Orbital Period  | 6660.0 seconds  |
| Apogee  | 1275.0 km       |
| Perigee   | 1275.0 km       |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees     |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees   |

**Mean Anomaly For Each Satellite**

| <b>Satellite Number</b> | <b>Mean Anomaly (degrees) at the Orbit Epoch Date</b> |
|-------------------------|---|
| <b>1</b>                | 356.8   |
| <b>2</b>                | 352.0   |
| <b>3</b>                | 347.2   |
| <b>4</b>                | 342.4   |
| <b>5</b>                | 337.6   |



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|           |       |
|-----------|-------|
| <b>6</b>  | 332.8 |
| <b>7</b>  | 328.0 |
| <b>8</b>  | 323.2 |
| <b>9</b>  | 318.4 |
| <b>10</b> | 313.6 |
| <b>11</b> | 308.8 |
| <b>12</b> | 304.0 |
| <b>13</b> | 299.2 |
| <b>14</b> | 294.4 |
| <b>15</b> | 289.6 |
| <b>16</b> | 284.8 |
| <b>17</b> | 280.0 |
| <b>18</b> | 275.2 |
| <b>19</b> | 270.4 |
| <b>20</b> | 265.6 |
| <b>21</b> | 260.8 |
| <b>22</b> | 256.0 |
| <b>23</b> | 251.2 |
| <b>24</b> | 246.4 |
| <b>25</b> | 241.6 |
| <b>26</b> | 236.8 |
| <b>27</b> | 232.0 |
| <b>28</b> | 227.2 |
| <b>29</b> | 222.4 |
| <b>30</b> | 217.6 |
| <b>31</b> | 212.8 |

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|           |       |
|-----------|-------|
| <b>32</b> | 208.0 |
| <b>33</b> | 203.2 |
| <b>34</b> | 198.4 |
| <b>35</b> | 193.6 |
| <b>36</b> | 188.8 |
| <b>37</b> | 184.0 |
| <b>38</b> | 179.2 |
| <b>39</b> | 174.4 |
| <b>40</b> | 169.6 |
| <b>41</b> | 164.8 |
| <b>42</b> | 160.0 |
| <b>43</b> | 155.2 |
| <b>44</b> | 150.4 |
| <b>45</b> | 145.6 |
| <b>46</b> | 140.8 |
| <b>47</b> | 136.0 |
| <b>48</b> | 131.2 |
| <b>49</b> | 126.4 |
| <b>50</b> | 121.6 |
| <b>51</b> | 116.8 |
| <b>52</b> | 112.0 |
| <b>53</b> | 107.2 |
| <b>54</b> | 102.4 |
| <b>55</b> | 97.6  |
| <b>56</b> | 92.8  |
| <b>57</b> | 88.0  |

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|           |      |
|-----------|------|
| <b>58</b> | 83.2 |
| <b>59</b> | 78.4 |
| <b>60</b> | 73.6 |
| <b>61</b> | 68.8 |
| <b>62</b> | 64.0 |
| <b>63</b> | 59.2 |
| <b>64</b> | 54.4 |
| <b>65</b> | 49.6 |
| <b>66</b> | 44.8 |
| <b>67</b> | 40.0 |
| <b>68</b> | 35.2 |
| <b>69</b> | 30.4 |
| <b>70</b> | 25.6 |
| <b>71</b> | 20.8 |
| <b>72</b> | 16.0 |
| <b>73</b> | 11.2 |
| <b>74</b> | 6.4  |
| <b>75</b> | 1.6  |

**Orbital Plane 82:**

| <b>Question</b>                   | <b>Response</b> |
|-----------------------------------|-----------------|
| Number of Satellites in Plane     | 75              |
| Inclination Angle                 | 81.0 degrees    |
| Right Ascension of Ascending Node | 216.0 degrees   |
| Argument of Perigee               | 0.0 degrees     |
| Orbital Period                    | 6660.0 seconds  |
| Apogee                            | 1275.0 km       |

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|   |               |
|---|---------------|
| Perigee   | 1275.0 km     |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees   |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees |

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### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1                | 357.6  |
| 2                | 352.8  |
| 3                | 348.0  |
| 4                | 343.2  |
| 5                | 338.4  |
| 6                | 333.6  |
| 7                | 328.8  |
| 8                | 324.0  |
| 9                | 319.2  |
| 10               | 314.4  |
| 11               | 309.6  |
| 12               | 304.8  |
| 13               | 300.0  |
| 14               | 295.2  |
| 15               | 290.4  |
| 16               | 285.6  |
| 17               | 280.8  |
| 18               | 276.0  |
| 19               | 271.2  |
| 20               | 266.4  |

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|           |       |
|-----------|-------|
| <b>21</b> | 261.6 |
| <b>22</b> | 256.8 |
| <b>23</b> | 252.0 |
| <b>24</b> | 247.2 |
| <b>25</b> | 242.4 |
| <b>26</b> | 237.6 |
| <b>27</b> | 232.8 |
| <b>28</b> | 228.0 |
| <b>29</b> | 223.2 |
| <b>30</b> | 218.4 |
| <b>31</b> | 213.6 |
| <b>32</b> | 208.8 |
| <b>33</b> | 204.0 |
| <b>34</b> | 199.2 |
| <b>35</b> | 194.4 |
| <b>36</b> | 189.6 |
| <b>37</b> | 184.8 |
| <b>38</b> | 180.0 |
| <b>39</b> | 175.2 |
| <b>40</b> | 170.4 |
| <b>41</b> | 165.6 |
| <b>42</b> | 160.8 |
| <b>43</b> | 156.0 |
| <b>44</b> | 151.2 |
| <b>45</b> | 146.4 |
| <b>46</b> | 141.6 |

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|           |       |
|-----------|-------|
| <b>47</b> | 136.8 |
| <b>48</b> | 132.0 |
| <b>49</b> | 127.2 |
| <b>50</b> | 122.4 |
| <b>51</b> | 117.6 |
| <b>52</b> | 112.8 |
| <b>53</b> | 108.0 |
| <b>54</b> | 103.2 |
| <b>55</b> | 98.4  |
| <b>56</b> | 93.6  |
| <b>57</b> | 88.8  |
| <b>58</b> | 84.0  |
| <b>59</b> | 79.2  |
| <b>60</b> | 74.4  |
| <b>61</b> | 69.6  |
| <b>62</b> | 64.8  |
| <b>63</b> | 60.0  |
| <b>64</b> | 55.2  |
| <b>65</b> | 50.4  |
| <b>66</b> | 45.6  |
| <b>67</b> | 40.8  |
| <b>68</b> | 36.0  |
| <b>69</b> | 31.2  |
| <b>70</b> | 26.4  |
| <b>71</b> | 21.6  |
| <b>72</b> | 16.8  |

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|           |      |
|-----------|------|
| <b>73</b> | 12.0 |
| <b>74</b> | 7.2  |
| <b>75</b> | 2.4  |

### Orbital Plane 83:

| Question  | Response       |
|---|----------------|
| Number of Satellites in Plane                                 | 75             |
| Inclination Angle   | 81.0 degrees   |
| Right Ascension of Ascending Node                             | 288.0 degrees  |
| Argument of Perigee   | 0.0 degrees    |
| Orbital Period  | 6660.0 seconds |
| Apogee  | 1275.0 km      |
| Perigee   | 1275.0 km      |
| Active Service Arc Begin Angle with respect to Ascending Node | 0.0 degrees    |
| Active Service Arc End Angle with respect to Ascending Node   | 360.0 degrees  |

### Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| <b>1</b>         | 358.4  |
| <b>2</b>         | 353.6  |
| <b>3</b>         | 348.8  |
| <b>4</b>         | 344.0  |
| <b>5</b>         | 339.2  |
| <b>6</b>         | 334.4  |
| <b>7</b>         | 329.6  |
| <b>8</b>         | 324.8  |
| <b>9</b>         | 320.0  |

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|           |       |
|-----------|-------|
| <b>10</b> | 315.2 |
| <b>11</b> | 310.4 |
| <b>12</b> | 305.6 |
| <b>13</b> | 300.8 |
| <b>14</b> | 296.0 |
| <b>15</b> | 291.2 |
| <b>16</b> | 286.4 |
| <b>17</b> | 281.6 |
| <b>18</b> | 276.8 |
| <b>19</b> | 272.0 |
| <b>20</b> | 267.2 |
| <b>21</b> | 262.4 |
| <b>22</b> | 257.6 |
| <b>23</b> | 252.8 |
| <b>24</b> | 248.0 |
| <b>25</b> | 243.2 |
| <b>26</b> | 238.4 |
| <b>27</b> | 233.6 |
| <b>28</b> | 228.8 |
| <b>29</b> | 224.0 |
| <b>30</b> | 219.2 |
| <b>31</b> | 214.4 |
| <b>32</b> | 209.6 |
| <b>33</b> | 204.8 |
| <b>34</b> | 200.0 |
| <b>35</b> | 195.2 |

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|           |       |
|-----------|-------|
| <b>36</b> | 190.4 |
| <b>37</b> | 185.6 |
| <b>38</b> | 180.8 |
| <b>39</b> | 176.0 |
| <b>40</b> | 171.2 |
| <b>41</b> | 166.4 |
| <b>42</b> | 161.6 |
| <b>43</b> | 156.8 |
| <b>44</b> | 152.0 |
| <b>45</b> | 147.2 |
| <b>46</b> | 142.4 |
| <b>47</b> | 137.6 |
| <b>48</b> | 132.8 |
| <b>49</b> | 128.0 |
| <b>50</b> | 123.2 |
| <b>51</b> | 118.4 |
| <b>52</b> | 113.6 |
| <b>53</b> | 108.8 |
| <b>54</b> | 104.0 |
| <b>55</b> | 99.2  |
| <b>56</b> | 94.4  |
| <b>57</b> | 89.6  |
| <b>58</b> | 84.8  |
| <b>59</b> | 80.0  |
| <b>60</b> | 75.2  |
| <b>61</b> | 70.4  |

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|           |      |
|-----------|------|
| <b>62</b> | 65.6 |
| <b>63</b> | 60.8 |
| <b>64</b> | 56.0 |
| <b>65</b> | 51.2 |
| <b>66</b> | 46.4 |
| <b>67</b> | 41.6 |
| <b>68</b> | 36.8 |
| <b>69</b> | 32.0 |
| <b>70</b> | 27.2 |
| <b>71</b> | 22.4 |
| <b>72</b> | 17.6 |
| <b>73</b> | 12.8 |
| <b>74</b> | 8.0  |
| <b>75</b> | 3.2  |

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## Receiving Beams 1:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UU1                          |
| Receive Beam Frequency                                  | 14000.0 MHz -14125.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | LHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| G/T at Max. Gain Point                                  | 9.8 dB/K                     |
| Min. Saturation Flux Density                            | -0.01 dBW/m <sup>2</sup>     |
| Max. Saturation Flux Density                            | 0.0 dBW/m <sup>2</sup>       |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

## Receiving Beams 2:

| Question                 | Response                     |
|--------------------------|------------------------------|
| Beam ID                  | UU2                          |
| Receive Beam Frequency   | 14125.0 MHz -14250.0 MHz     |
| Beam Type                | Both Steerable and Shapeable |
| Polarization             | LHCP                         |
| Peak Gain                | 37.1 dBi                     |
| Antenna Pointing Error   | 0.1 degrees                  |
| Antenna Rotational Error | 0.1 degrees                  |

|   |              |
|---|--------------|
| Polarization Switchable                                 |              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point                                  | 9.8 dB/K     |
| Min. Saturation Flux Density                            | -0.01 dBW/m2 |
| Max. Saturation Flux Density                            | 0.0 dBW/m2   |
| Co- or Cross Polar Mode                                 | C            |
| Service Area Description                                | Global       |

### Receiving Beams 3:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UU3                          |
| Receive Beam Frequency                                  | 14250.0 MHz -14375.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | LHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| G/T at Max. Gain Point                                  | 9.8 dB/K                     |
| Min. Saturation Flux Density                            | -0.01 dBW/m2                 |
| Max. Saturation Flux Density                            | 0.0 dBW/m2                   |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

### Receiving

## Beams 4:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UU4                          |
| Receive Beam Frequency                                  | 14375.0 MHz -14500.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | LHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| G/T at Max. Gain Point                                  | 9.8 dB/K                     |
| Min. Saturation Flux Density                            | -0.01 dBW/m <sup>2</sup>     |
| Max. Saturation Flux Density                            | 0.0 dBW/m <sup>2</sup>       |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

## Receiving Beams 5:

| Question                 | Response                 |
|--------------------------|--------------------------|
| Beam ID                  | GU1                      |
| Receive Beam Frequency   | 27600.0 MHz -28100.0 MHz |
| Beam Type                | Steerable                |
| Polarization             | RHCP                     |
| Peak Gain                | 41.0 dBi                 |
| Antenna Pointing Error   | 0.1 degrees              |
| Antenna Rotational Error | 0.1 degrees              |
| Polarization Switchable  |                          |

|   |              |
|---|--------------|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point                                  | 13.7 dB/K    |
| Min. Saturation Flux Density                            | -0.01 dBW/m2 |
| Max. Saturation Flux Density                            | 0.0 dBW/m2   |
| Co- or Cross Polar Mode                                 | C            |
| Service Area Description                                | Global       |

**Receiving Beams 6:**

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GU2                      |
| Receive Beam Frequency                                  | 28100.0 MHz -28600.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | RHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 13.7 dB/K                |
| Min. Saturation Flux Density                            | -0.01 dBW/m2             |
| Max. Saturation Flux Density                            | 0.0 dBW/m2               |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

**Receiving Beams 7:**

| Question | Response |
|----------|----------|
|----------|----------|

|   |                          |
|---|--------------------------|
| Beam ID   | GU3                      |
| Receive Beam Frequency                                  | 28600.0 MHz -29100.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | RHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 13.7 dB/K                |
| Min. Saturation Flux Density                            | -0.01 dBW/m2             |
| Max. Saturation Flux Density                            | 0.0 dBW/m2               |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

**Receiving Beams 8:**

| Question                 | Response                 |
|--------------------------|--------------------------|
| Beam ID                  | GU4                      |
| Receive Beam Frequency   | 29500.0 MHz -30000.0 MHz |
| Beam Type                | Steerable                |
| Polarization             | RHCP                     |
| Peak Gain                | 41.0 dBi                 |
| Antenna Pointing Error   | 0.1 degrees              |
| Antenna Rotational Error | 0.1 degrees              |
| Polarization Switchable  |                          |

|   |              |
|---|--------------|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point                                  | 13.7 dB/K    |
| Min. Saturation Flux Density                            | -0.01 dBW/m2 |
| Max. Saturation Flux Density                            | 0.0 dBW/m2   |
| Co- or Cross Polar Mode                                 | C            |
| Service Area Description                                | Global       |

**Receiving Beams 9:**

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GU5                      |
| Receive Beam Frequency                                  | 27600.0 MHz -28100.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | LHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 13.7 dB/K                |
| Min. Saturation Flux Density                            | -0.01 dBW/m2             |
| Max. Saturation Flux Density                            | 0.0 dBW/m2               |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

**Receiving Beams 10:**

| Question | Response |
|----------|----------|
|----------|----------|



|   |                          |
|---|--------------------------|
| Beam ID   | GU6                      |
| Receive Beam Frequency                                  | 28100.0 MHz -28600.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | LHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 13.7 dB/K                |
| Min. Saturation Flux Density                            | -0.01 dBW/m2             |
| Max. Saturation Flux Density                            | 0.0 dBW/m2               |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

**Receiving Beams 11:**

| Question                 | Response                 |
|--------------------------|--------------------------|
| Beam ID                  | GU7                      |
| Receive Beam Frequency   | 28600.0 MHz -29100.0 MHz |
| Beam Type                | Steerable                |
| Polarization             | LHCP                     |
| Peak Gain                | 41.0 dBi                 |
| Antenna Pointing Error   | 0.1 degrees              |
| Antenna Rotational Error | 0.1 degrees              |
| Polarization Switchable  |                          |

|   |              |
|---|--------------|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point                                  | 13.7 dB/K    |
| Min. Saturation Flux Density                            | -0.01 dBW/m2 |
| Max. Saturation Flux Density                            | 0.0 dBW/m2   |
| Co- or Cross Polar Mode                                 | C            |
| Service Area Description                                | Global       |

**Receiving Beams 12:**

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GU8                      |
| Receive Beam Frequency                                  | 29500.0 MHz -30000.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | LHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 13.7 dB/K                |
| Min. Saturation Flux Density                            | -0.01 dBW/m2             |
| Max. Saturation Flux Density                            | 0.0 dBW/m2               |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

**Receiving Beams 13:**

| Question | Response |
|----------|----------|
|----------|----------|

|   |                          |
|---|--------------------------|
| Beam ID   | TTU1                     |
| Receive Beam Frequency                                  | 13850.0 MHz -14000.0 MHz |
| Beam Type   | Fixed                    |
| Polarization  | RHCP                     |
| Peak Gain   | 3.0 dBi                  |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | -29.3 dB/K               |
| Min. Saturation Flux Density                            | -0.1 dBW/m <sup>2</sup>  |
| Max. Saturation Flux Density                            | 0.0 dBW/m <sup>2</sup>   |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

## Receiving Channels (15)

| Channel ID | Channel Bandwidth (MHz) | Center Frequency s (MHz) | Feeder Link, Service Link or TT&C |
|------------|-------------------------|--------------------------|-----------------------------------|
| CGU8       | 500.0                   | 29750.0                  | Service Link                      |
| CGU7       | 500.0                   | 28850.0                  | Service Link                      |
| CGU6       | 500.0                   | 28350.0                  | Service Link                      |
| CGU5       | 500.0                   | 27850.0                  | Service Link                      |
| CUU4       | 125.0                   | 14437.5                  | Service Link                      |
| CGU4       | 500.0                   | 29750.0                  | Service Link                      |
| CGU3       | 500.0                   | 28850.0                  | Service Link                      |
| CUU3       | 125.0                   | 14312.5                  | Service Link                      |
| CUU2       | 125.0                   | 14187.5                  | Service Link                      |
| CUU1       | 125.0                   | 14062.5                  | Service Link                      |
| CGU2       | 500.0                   | 28350.0                  | Service Link                      |
| CGU1       | 500.0                   | 27850.0                  | Service Link                      |
| CTU2       | 50.0                    | 13925.0                  | TT&C                              |
| CTU1       | 50.0                    | 13875.0                  | TT&C                              |
| CTU3       | 50.0                    | 13975.0                  | TT&C                              |

## Transmitting Beams 1:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UD1                          |
| Transmit Beam Frequency                                 | 10700.0 MHz -10950.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | RHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| Max. Transmit EIRP Density                              | -47.09 dBW/Hz                |
| Max. Transmit EIRP                                      | 36.71 dBW                    |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

### Max. Power Flux Density

|                | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| *              | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
| <b>4.0 kHz</b> | -189.2              | -188.1              | -186.9              | -185.9              | -184.9              | -146.0              |

## Transmitting Beams 2:

| Question                | Response                 |
|-------------------------|--------------------------|
| Beam ID                 | UD2                      |
| Transmit Beam Frequency | 10950.0 MHz -11200.0 MHz |

|   |                              |
|---|------------------------------|
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | RHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| Max. Transmit EIRP Density                              | -47.09 dBW/Hz                |
| Max. Transmit EIRP                                      | 36.71 dBW                    |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

### Max. Power Flux Density

|                             | * 0° - 5°                 | * 5° - 10°                | * 10° - 15°               | * 15° - 20°               | * 20° - 25°               | * 25° - 90°               |
|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| * (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): |
| <b>4.0 kHz</b>              | -189.2                    | -188.1                    | -186.9                    | -185.9                    | -184.9                    | -146.0                    |

### Transmitting Beams 3:

| Question                | Response                     |
|-------------------------|------------------------------|
| Beam ID                 | UD3                          |
| Transmit Beam Frequency | 11200.0 MHz -11450.0 MHz     |
| Beam Type               | Both Steerable and Shapeable |
| Polarization            | RHCP                         |
| Peak Gain               | 37.1 dBi                     |
| Antenna Pointing Error  | 0.1 degrees                  |

|   |               |
|---|---------------|
| Antenna Rotational Error                                | 0.1 degrees   |
| Polarization Switchable                                 |               |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| Max. Transmit EIRP Density                              | -47.09 dBW/Hz |
| Max. Transmit EIRP                                      | 36.71 dBW     |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Global        |

### Max. Power Flux Density

|                | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| *              | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
| <b>4.0 kHz</b> | -189.2              | -188.1              | -186.9              | -185.9              | -184.9              | -146.0              |

### Transmitting Beams 4:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UD4                          |
| Transmit Beam Frequency                                 | 11450.0 MHz -11700.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | RHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| Max. Transmit EIRP Density                              | -47.09 dBW/Hz                |

|                          |           |
|--------------------------|-----------|
| Max. Transmit EIRP       | 36.71 dBW |
| Co- or Cross Polar Mode  | C         |
| Service Area Description | Global    |

### Max. Power Flux Density

|                    | * 0° - 5°<br>(dBW/m <sup>2</sup> ) | * 5° - 10°<br>(dBW/m <sup>2</sup> ) | * 10° - 15°<br>(dBW/m <sup>2</sup> ) | * 15° - 20°<br>(dBW/m <sup>2</sup> ) | * 20° - 25°<br>(dBW/m <sup>2</sup> ) | * 25° - 90°<br>(dBW/m <sup>2</sup> ) |
|--------------------|------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| <b>*<br/>BW:</b>   | <b>/BW):</b>                       | <b>/BW):</b>                        | <b>/BW):</b>                         | <b>/BW):</b>                         | <b>/BW):</b>                         | <b>/BW):</b>                         |
| <b>4.0<br/>kHz</b> | -189.2                             | -188.1                              | -186.9                               | -185.9                               | -184.9                               | -146.0                               |

### Transmitting Beams 5:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UD5                          |
| Transmit Beam Frequency                                 | 11700.0 MHz -11950.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | RHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| Max. Transmit EIRP Density                              | -47.09 dBW/Hz                |
| Max. Transmit EIRP                                      | 36.71 dBW                    |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

### Max. Power Flux Density



Information not provided.

## Transmitting Beams 6:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UD6                          |
| Transmit Beam Frequency                                 | 11950.0 MHz -12200.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | RHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| Max. Transmit EIRP Density                              | -47.09 dBW/Hz                |
| Max. Transmit EIRP                                      | 36.71 dBW                    |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

## Max. Power Flux Density

Information not provided.

## Transmitting Beams 7:

| Question                | Response                     |
|-------------------------|------------------------------|
| Beam ID                 | UD7                          |
| Transmit Beam Frequency | 12200.0 MHz -12450.0 MHz     |
| Beam Type               | Both Steerable and Shapeable |
| Polarization            | RHCP                         |
| Peak Gain               | 37.1 dBi                     |

|   |               |
|---|---------------|
| Antenna Pointing Error                                  | 0.1 degrees   |
| Antenna Rotational Error                                | 0.1 degrees   |
| Polarization Switchable                                 |               |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| Max. Transmit EIRP Density                              | -48.59 dBW/Hz |
| Max. Transmit EIRP                                      | 35.21 dBW     |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Global        |

### Max. Power Flux Density

|                          | * 0° - 1°<br>(dBW/m <sup>2</sup><br>/BW): | * 1° - 2°<br>(dBW/m <sup>2</sup><br>/BW): | * 2° - 3°<br>(dBW/m <sup>2</sup><br>/BW): | * 3° - 4°<br>(dBW/m <sup>2</sup><br>/BW): | * 4° - 5°<br>(dBW/m <sup>2</sup><br>/BW): |
|--------------------------|---|---|---|---|---|
| <b>*<br/>4.0<br/>kHz</b> | -191.7                                    | -191.5                                    | -191.2                                    | -191.0                                    | -190.7                                    |

### Transmitting Beams 8:

| Question  | Response                     |
|---|------------------------------|
| Beam ID   | UD8                          |
| Transmit Beam Frequency                                 | 12450.0 MHz -12700.0 MHz     |
| Beam Type   | Both Steerable and Shapeable |
| Polarization  | RHCP                         |
| Peak Gain   | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.1 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |

|                            |               |
|----------------------------|---------------|
| Max. Transmit EIRP Density | -47.09 dBW/Hz |
| Max. Transmit EIRP         | 36.71 dBW     |
| Co- or Cross Polar Mode    | C             |
| Service Area Description   | Global        |

### Max. Power Flux Density

|                          | * 0° - 1°<br>(dBW/m <sup>2</sup><br>/BW): | * 1° - 2°<br>(dBW/m <sup>2</sup><br>/BW): | * 2° - 3°<br>(dBW/m <sup>2</sup><br>/BW): | * 3° - 4°<br>(dBW/m <sup>2</sup><br>/BW): | * 4° - 5°<br>(dBW/m <sup>2</sup><br>/BW): |
|--------------------------|---|---|---|---|---|
| <b>*<br/>BW:<br/>kHz</b> | -191.7                                    | -191.5                                    | -191.2                                    | -191.0                                    | -190.7                                    |

### Transmitting Beams 9:

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GD1                      |
| Transmit Beam Frequency                                 | 17800.0 MHz -18050.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | RHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz            |
| Max. Transmit EIRP                                      | 39.44 dBW                |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

### Max. Power Flux Density

|                | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| *              | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| BW:            | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
| <b>1.0 MHz</b> | -156.0              | -154.8              | -153.7              | -152.6              | -151.7              | -116.3              |

### Transmitting Beams 10:

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GD2                      |
| Transmit Beam Frequency                                 | 18050.0 MHz -18300.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | RHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz            |
| Max. Transmit EIRP                                      | 39.44 dBW                |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

### Max. Power Flux Density

|     | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| *   | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| BW: | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
|     |                     |                     |                     |                     |                     |                     |

|            |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|
| <b>1.0</b> | -156.0 | -154.8 | -153.7 | -152.6 | -151.7 | -116.3 |
| <b>MHz</b> |        |        |        |        |        |        |

### Transmitting Beams 11:

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GD3                      |
| Transmit Beam Frequency                                 | 18800.0 MHz -19050.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | RHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz            |
| Max. Transmit EIRP                                      | 39.44 dBW                |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

### Max. Power Flux Density

|            | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| *          | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| BW:        | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
| <b>1.0</b> | -156.0              | -154.8              | -153.7              | -152.6              | -151.7              | -116.3              |
| <b>MHz</b> |                     |                     |                     |                     |                     |                     |

### Transmitting Beams 12:

| Question | Response |
|----------|----------|
|----------|----------|

|   |                          |
|---|--------------------------|
| Beam ID   | GD4                      |
| Transmit Beam Frequency                                 | 19050.0 MHz -19300.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | RHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz            |
| Max. Transmit EIRP                                      | 39.44 dBW                |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

### Max. Power Flux Density

|                | * 0° - 5°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 5° - 10°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 10° - 15°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 15° - 20°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 20° - 25°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 25° - 90°<br>(dBW/m <sup>2</sup> )<br>/BW: |
|----------------|--|---|--|--|--|--|
| <b>1.0 MHz</b> | -156.0                                     | -154.8                                      | -153.7                                       | -152.6                                       | -151.7                                       | -116.3                                       |

### Transmitting Beams 13:

| Question                | Response                 |
|-------------------------|--------------------------|
| Beam ID                 | GD5                      |
| Transmit Beam Frequency | 17800.0 MHz -18050.0 MHz |
| Beam Type               | Steerable                |
| Polarization            | LHCP                     |

|   |               |
|---|---------------|
| Peak Gain   | 41.0 dBi      |
| Antenna Pointing Error                                  | 0.1 degrees   |
| Antenna Rotational Error                                | 0.1 degrees   |
| Polarization Switchable                                 |               |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz |
| Max. Transmit EIRP                                      | 39.44 dBW     |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Global        |

### Max. Power Flux Density

|                | * 0° - 5°<br>(dBW/m <sup>2</sup><br>/BW): | * 5° - 10°<br>(dBW/m <sup>2</sup><br>/BW): | * 10° - 15°<br>(dBW/m <sup>2</sup><br>/BW): | * 15° - 20°<br>(dBW/m <sup>2</sup><br>/BW): | * 20° - 25°<br>(dBW/m <sup>2</sup><br>/BW): | * 25° - 90°<br>(dBW/m <sup>2</sup><br>/BW): |
|----------------|---|--|---|---|---|---|
| <b>1.0 MHz</b> | -156.0                                    | -154.8                                     | -153.7                                      | -152.6                                      | -151.7                                      | -116.3                                      |

### Transmitting Beams 14:

| Question                 | Response                 |
|--------------------------|--------------------------|
| Beam ID                  | GD6                      |
| Transmit Beam Frequency  | 18050.0 MHz -18300.0 MHz |
| Beam Type                | Steerable                |
| Polarization             | LHCP                     |
| Peak Gain                | 41.0 dBi                 |
| Antenna Pointing Error   | 0.1 degrees              |
| Antenna Rotational Error | 0.1 degrees              |
| Polarization Switchable  |                          |

|   |               |
|---|---------------|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz |
| Max. Transmit EIRP                                      | 39.44 dBW     |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Global        |

### Max. Power Flux Density

|                | * 0° - 5°<br>(dBW/m <sup>2</sup><br>/BW): | * 5° - 10°<br>(dBW/m <sup>2</sup><br>/BW): | * 10° - 15°<br>(dBW/m <sup>2</sup><br>/BW): | * 15° - 20°<br>(dBW/m <sup>2</sup><br>/BW): | * 20° - 25°<br>(dBW/m <sup>2</sup><br>/BW): | * 25° - 90°<br>(dBW/m <sup>2</sup><br>/BW): |
|----------------|---|--|---|---|---|---|
| <b>1.0 MHz</b> | -156.0                                    | -154.8                                     | -153.7                                      | -152.6                                      | -151.7                                      | -116.3                                      |

### Transmitting Beams 15:

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GD7                      |
| Transmit Beam Frequency                                 | 18800.0 MHz -19050.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | LHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz            |
| Max. Transmit EIRP                                      | 39.44 dBW                |
| Co- or Cross Polar Mode                                 | C                        |



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Service Area Description

Global

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### Max. Power Flux Density

|                          | * 0° - 5°<br>(dbW/m <sup>2</sup><br>/BW): | * 5° - 10°<br>(dbW/m <sup>2</sup><br>/BW): | * 10° -<br>15°<br>(dbW/m <sup>2</sup><br>/BW): | * 15° -<br>20°<br>(dbW/m <sup>2</sup><br>/BW): | * 20° -<br>25°<br>(dbW/m <sup>2</sup><br>/BW): | * 25° -<br>90°<br>(dbW/m <sup>2</sup><br>/BW): |
|--------------------------|---|--|--|--|--|--|
| <b>*<br/>1.0<br/>MHz</b> | -156.0                                    | -154.8                                     | -153.7   | -152.6   | -151.7   | -116.3   |

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### Transmitting Beams 16:

| Question   | Response                    |
|--|-----------------------------|
| Beam ID  | GD8                         |
| Transmit Beam Frequency                                    | 19050.0 MHz -19300.0<br>MHz |
| Beam Type  | Steerable                   |
| Polarization   | LHCP                        |
| Peak Gain  | 41.0 dBi                    |
| Antenna Pointing Error                                     | 0.1 degrees                 |
| Antenna Rotational Error                                   | 0.1 degrees                 |
| Polarization Switchable                                    |                             |
| Polarization Alignment Relative to the Equatorial<br>Plane | 45.0 degrees                |
| Max. Transmit EIRP Density                                 | -44.36 dBW/Hz               |
| Max. Transmit EIRP   | 39.44 dBW                   |
| Co- or Cross Polar Mode                                    | C                           |
| Service Area Description                                   | Global                      |

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### Max. Power Flux Density

|                | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| *              | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| BW:            | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
| <b>1.0 MHz</b> | -156.0              | -154.8              | -153.7              | -152.6              | -151.7              | -116.3              |

## Transmitting Beams 17:

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | GD9                      |
| Transmit Beam Frequency                                 | 18300.0 MHz -18550.0 MHz |
| Beam Type   | Steerable                |
| Polarization  | LHCP                     |
| Peak Gain   | 41.0 dBi                 |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz            |
| Max. Transmit EIRP                                      | 39.44 dBW                |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

## Max. Power Flux Density

|                | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| *              | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| BW:            | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
| <b>1.0 MHz</b> | -156.0              | -154.8              | -153.7              | -152.6              | -151.7              | -116.3              |

## Transmitting Beams 18:

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | TTD1                     |
| Transmit Beam Frequency                                 | 12150.0 MHz -12200.0 MHz |
| Beam Type   | Fixed                    |
| Polarization  | LHCP                     |
| Peak Gain   | 3.0 dBi                  |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -83.66 dBW/Hz            |
| Max. Transmit EIRP                                      | 0.0 dBW                  |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Global                   |

### Max. Power Flux Density

|                | * 0° - 5°           | * 5° - 10°          | * 10° - 15°         | * 15° - 20°         | * 20° - 25°         | * 25° - 90°         |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| *              | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> | (dBW/m <sup>2</sup> |
| BW:            | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               | /BW):               |
| <b>4.0 kHz</b> | -199.2              | -198.1              | -196.9              | -195.9              | -194.9              | -189.5              |

## Transmitting Beams 19:

| Question                | Response                 |
|-------------------------|--------------------------|
| Beam ID                 | TTD2                     |
| Transmit Beam Frequency | 18550.0 MHz -18600.0 MHz |

|   |               |
|---|---------------|
| Beam Type   | Fixed         |
| Polarization  | LHCP          |
| Peak Gain   | 5.0 dBi       |
| Antenna Pointing Error                                  | 0.1 degrees   |
| Antenna Rotational Error                                | 0.1 degrees   |
| Polarization Switchable                                 |               |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| Max. Transmit EIRP Density                              | -69.53 dBW/Hz |
| Max. Transmit EIRP                                      | 7.46 dBW      |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Global        |

### Max. Power Flux Density

|                | * 0° - 5°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 5° - 10°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 10° - 15°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 15° - 20°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 20° - 25°<br>(dBW/m <sup>2</sup> )<br>/BW: | * 25° - 90°<br>(dBW/m <sup>2</sup> )<br>/BW: |
|----------------|--|---|--|--|--|--|
| <b>1.0 MHz</b> | -171.4                                     | -169.0                                      | -166.7                                       | -164.6                                       | -162.7                                       | -151.9                                       |

### Transmitting Beams 20:

| Question                | Response                 |
|-------------------------|--------------------------|
| Beam ID                 | GD10                     |
| Transmit Beam Frequency | 18300.0 MHz -18550.0 MHz |
| Beam Type               | Steerable                |
| Polarization            | RHCP                     |
| Peak Gain               | 41.0 dBi                 |
| Antenna Pointing Error  | 0.1 degrees              |

|   |               |
|---|---------------|
| Antenna Rotational Error                                | 0.1 degrees   |
| Polarization Switchable                                 |               |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| Max. Transmit EIRP Density                              | -44.36 dBW/Hz |
| Max. Transmit EIRP                                      | 39.44 dBW     |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Global        |

### Max. Power Flux Density

|                | * 0° - 5°<br>(dBW/m <sup>2</sup> )<br>/BW): | * 5° - 10°<br>(dBW/m <sup>2</sup> )<br>/BW): | * 10° - 15°<br>(dBW/m <sup>2</sup> )<br>/BW): | * 15° - 20°<br>(dBW/m <sup>2</sup> )<br>/BW): | * 20° - 25°<br>(dBW/m <sup>2</sup> )<br>/BW): | * 25° - 90°<br>(dBW/m <sup>2</sup> )<br>/BW): |
|----------------|---|--|---|---|---|---|
| <b>1.0 MHz</b> | -156.0                                      | -154.8                                       | -153.7  | -152.6  | -151.7  | -116.3  |

### Transmitting Beams 21:

| Question  | Response                 |
|---|--------------------------|
| Beam ID   | TTD3                     |
| Transmit Beam Frequency                                 | 12200.0 MHz -12250.0 MHz |
| Beam Type   | Fixed                    |
| Polarization  | LHCP                     |
| Peak Gain   | 3.0 dBi                  |
| Antenna Pointing Error                                  | 0.1 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -83.66 dBW/Hz            |

|                          |         |
|--------------------------|---------|
| Max. Transmit EIRP       | 0.0 dBW |
| Co- or Cross Polar Mode  | C       |
| Service Area Description | Global  |

### Max. Power Flux Density

|                          | * 0° - 1°<br>(dBW/m <sup>2</sup><br>/BW): | * 1° - 2°<br>(dBW/m <sup>2</sup><br>/BW): | * 2° - 3°<br>(dBW/m <sup>2</sup><br>/BW): | * 3° - 4°<br>(dBW/m <sup>2</sup><br>/BW): | * 4° - 5°<br>(dBW/m <sup>2</sup><br>/BW): |
|--------------------------|---|---|---|---|---|
| <b>*<br/>BW:<br/>kHz</b> | -200.0                                    | -200.0                                    | -199.7                                    | -199.5                                    | -199.2                                    |

## Transmitting Channels (20)

| Channel ID | Channel Bandwidth (MHz) | Center Frequency s (MHz) | Feeder Link, Service Link or TT&C |
|------------|-------------------------|--------------------------|-----------------------------------|
| CTD1       | 50.0                    | 12175.0                  | TT&C                              |
| CTD2       | 50.0                    | 12225.0                  | TT&C                              |
| CTD3       | 50.0                    | 18575.0                  | TT&C                              |
| CGD8       | 250.0                   | 19175.0                  | Service Link                      |
| CGD7       | 250.0                   | 18925.0                  | Service Link                      |
| CGD4       | 250.0                   | 19175.0                  | Service Link                      |
| CGD3       | 250.0                   | 18925.0                  | Service Link                      |
| CGD2       | 250.0                   | 18175.0                  | Service Link                      |
| CGD1       | 250.0                   | 17925.0                  | Service Link                      |
| CUD8       | 250.0                   | 12575.0                  | Service Link                      |
| CUD7       | 250.0                   | 12325.0                  | Service Link                      |
| CUD6       | 250.0                   | 12075.0                  | Service Link                      |
| CUD5       | 250.0                   | 11825.0                  | Service Link                      |
| CUD4       | 250.0                   | 11575.0                  | Service Link                      |
| CUD3       | 250.0                   | 11325.0                  | Service Link                      |
| CUD1       | 250.0                   | 10825.0                  | Service Link                      |
| CUD2       | 250.0                   | 11075.0                  | Service Link                      |
| CGD9       | 250.0                   | 18425.0                  | Service Link                      |
| CGD5       | 250.0                   | 17925.0                  | Service Link                      |
| CGD6       | 250.0                   | 18175.0                  | Service Link                      |

## Certification Questions

| Question  | Response |
|---|----------|
| Are the applicable service area coverage requirements of 25.143(b)(2) (ii) and (iii), or 25.144(a)(3)(i), or 25.145 (c)(1) and (2), or 25.146(i)(1) and (2), or 25.148(c), or 25.225 met? | Yes      |
| Are the applicable frequency tolerances of 25.202(e) and out-of-band emission limits of 25.202(f)(1),(2), and (3) met?  | Yes      |
| Are the cessation of emissions requirements of 25.207 met?  | Yes      |
| Are the applicable power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?   | No       |
| For NGSO applications, are the applicable equivalent-power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?                   | Yes      |
| Are the applicable full-frequency-reuse requirements of 25.210 met?   | Yes      |
| If the application is for a 17/24 GHz BSS space station, will it be operated at an offset location with full power and interference protection in accordance with 25.262(b)?              |          |



# Attachments

| File Name                                  | Beam | Field                  | Attachment Type   | Description  |
|--|------|------------------------|-------------------|--|
| <a href="#"><u>SpaceX Contours.mdb</u></a> |      | NGSO Antenna Gain Data | GIMS file (*.mdb) | Contours for all uplink and downlink beams. All beams in all planes in a given band and of a given type share a common set of contours. For service beams contours are provided at steering angles from 0 to the maximum 40 degrees. |

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