

**FCC 312
 Schedule S**

**FEDERAL COMMUNICATIONS COMMISSION
 SATELLITE SPACE STATION AUTHORIZATIONS
 (Technical and Operational Description)**

**Page 1: General,
 Frequency Bands,
 and GSO Orbit**

S1. GENERAL INFORMATION Complete for all satellite applications.

| | | | |
|--|--------------------------|--|--|
| a. Space Station or Satellite Network Name: NGSO SYSTEM | | e. Estimated Date of Placement into Service: | i. Will the space station(s) operate on a Common Carrier Basis: N |
| b. Construction Commencement Date: | | f. Estimated Lifetime of Satellite(s): 10 Years | j. Number of transponders offered on a common carrier basis: |
| c. Construction Completion Date: | | g. Total Number of Transponders: | k. Total Common Carrier Transponder Bandwidth: MHz |
| d1. Est Launch Date Begin: | d2. Est Launch Date End: | h. Total Transponder Bandwidth (no. transponders x Bandwidth) MHz | l. Orbit Type: Mark all boxes that apply: <input type="checkbox"/> GSO <input checked="" type="checkbox"/> NGSO |

S2. OPERATING FREQUENCY BANDS Identify the frequency range and transmit/receive mode for all frequency bands in which this station will oper
 Also indicate the nature of service(s) for each frequency band.

| Frequency Band Limits | | | | e. T/R Mode | f. Nature of Service(s): List all that apply to this band |
|-----------------------|-----------------|----------------------|-----------------|-------------|---|
| Lower Frequency (Hz) | | Upper Frequency (Hz) | | | |
| a. Numeric | b. Unit (K/M/G) | c. Numeric | d. Unit (K/M/G) | | |
| 37.5 | G | 38.6 | G | T | Fixed Satellite Service |
| 38.6 | G | 39.5 | G | T | Fixed Satellite Service |
| 39.5 | G | 40 | G | T | Fixed Satellite Service |
| 40 | G | 40.5 | G | T | Fixed Satellite Service |
| 40.5 | G | 41 | G | T | Fixed Satellite Service |
| 41 | G | 42 | G | T | Fixed Satellite Service |
| 42 | G | 42.5 | G | T | Fixed Satellite Service |
| 47.2 | G | 48.2 | G | R | Fixed Satellite Service |
| 48.2 | G | 50.2 | G | R | Fixed Satellite Service |
| 50.4 | G | 51.4 | G | R | Fixed Satellite Service |
| 51.4 | G | 52.4 | G | R | Fixed Satellite Service |

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

FEDERAL COMMUNICATIONS COMMISSION
SATELLITE SPACE STATION AUTHORIZATIONS
FCC Form 312 - Schedule S: (Technical and Operational Description)

S4. ORBITAL INFORMATION FOR NON-GEOSTATIONARY SATELLITES ONLY

S4a. Total Number of Satellites in Network or System: 2956 S4c. Celestial Reference Body (Earth, Sun, Moon, etc.): E
 S4b. Total Number of Orbital Planes in Network or System: 74 S4d. Orbit Epoch Date: 1/1/2020

For each Orbital Plane Provide:

| (e) Orbital Plane No. | (f) No. of Satellites in Plane | (g) Inclination Angle (degrees) | (h) Orbital Period (Seconds) | (i) Apogee (km) | (j) Perigee (km) | (k) Right Ascension of the Ascending Node (Deg.) | (l) Argument of Perigee (Degrees) | Active Service Arc Range (Degrees) | | |
|-----------------------|--------------------------------|---------------------------------|------------------------------|-----------------|------------------|--|-----------------------------------|------------------------------------|---------------|-----------|
| | | | | | | | | (m) Begin Angle | (n) End Angle | (o) Other |
| 1 | 32 | 45 | 6565 | 1200 | 1200 | 0 | 0 | 0 | 360 | |
| 2 | 32 | 45 | 6565 | 1200 | 1200 | 10.3 | 0 | 0 | 360 | |
| 3 | 32 | 45 | 6565 | 1200 | 1200 | 20.6 | 0 | 0 | 360 | |
| 4 | 32 | 45 | 6565 | 1200 | 1200 | 30.9 | 0 | 0 | 360 | |
| 5 | 32 | 45 | 6565 | 1200 | 1200 | 41.1 | 0 | 0 | 360 | |
| 6 | 32 | 45 | 6565 | 1200 | 1200 | 51.4 | 0 | 0 | 360 | |
| 7 | 32 | 45 | 6565 | 1200 | 1200 | 61.7 | 0 | 0 | 360 | |
| 8 | 32 | 45 | 6565 | 1200 | 1200 | 72 | 0 | 0 | 360 | |
| 9 | 32 | 45 | 6565 | 1200 | 1200 | 82.3 | 0 | 0 | 360 | |
| 10 | 32 | 45 | 6565 | 1200 | 1200 | 92.6 | 0 | 0 | 360 | |
| 11 | 32 | 45 | 6565 | 1200 | 1200 | 102.9 | 0 | 0 | 360 | |
| 12 | 32 | 45 | 6565 | 1200 | 1200 | 113.1 | 0 | 0 | 360 | |
| 13 | 32 | 45 | 6565 | 1200 | 1200 | 123.4 | 0 | 0 | 360 | |
| 14 | 32 | 45 | 6565 | 1200 | 1200 | 133.7 | 0 | 0 | 360 | |
| 15 | 32 | 45 | 6565 | 1200 | 1200 | 144 | 0 | 0 | 360 | |
| 16 | 32 | 45 | 6565 | 1200 | 1200 | 154.3 | 0 | 0 | 360 | |
| 17 | 32 | 45 | 6565 | 1200 | 1200 | 164.6 | 0 | 0 | 360 | |
| 18 | 32 | 45 | 6565 | 1200 | 1200 | 174.9 | 0 | 0 | 360 | |
| 19 | 32 | 45 | 6565 | 1200 | 1200 | 185.1 | 0 | 0 | 360 | |
| 20 | 32 | 45 | 6565 | 1200 | 1200 | 195.4 | 0 | 0 | 360 | |
| 21 | 32 | 45 | 6565 | 1200 | 1200 | 205.7 | 0 | 0 | 360 | |
| 22 | 32 | 45 | 6565 | 1200 | 1200 | 216 | 0 | 0 | 360 | |
| 23 | 32 | 45 | 6565 | 1200 | 1200 | 226.3 | 0 | 0 | 360 | |
| 24 | 32 | 45 | 6565 | 1200 | 1200 | 236.6 | 0 | 0 | 360 | |
| 25 | 32 | 45 | 6565 | 1200 | 1200 | 246.9 | 0 | 0 | 360 | |
| 26 | 32 | 45 | 6565 | 1200 | 1200 | 257.1 | 0 | 0 | 360 | |
| 27 | 32 | 45 | 6565 | 1200 | 1200 | 267.4 | 0 | 0 | 360 | |

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|----|----|----|------|------|------|-------|---|---|-----|
| 28 | 32 | 45 | 6565 | 1200 | 1200 | 277.7 | 0 | 0 | 360 |
| 29 | 32 | 45 | 6565 | 1200 | 1200 | 288 | 0 | 0 | 360 |
| 30 | 32 | 45 | 6565 | 1200 | 1200 | 298.3 | 0 | 0 | 360 |
| 31 | 32 | 45 | 6565 | 1200 | 1200 | 308.6 | 0 | 0 | 360 |
| 32 | 32 | 45 | 6565 | 1200 | 1200 | 318.9 | 0 | 0 | 360 |
| 33 | 32 | 45 | 6565 | 1200 | 1200 | 329.1 | 0 | 0 | 360 |
| 34 | 32 | 45 | 6565 | 1200 | 1200 | 339.4 | 0 | 0 | 360 |
| 35 | 32 | 45 | 6565 | 1200 | 1200 | 349.7 | 0 | 0 | 360 |
| 36 | 46 | 55 | 6578 | 1210 | 1210 | 0 | 0 | 0 | 360 |
| 37 | 46 | 55 | 6578 | 1210 | 1210 | 20 | 0 | 0 | 360 |
| 38 | 46 | 55 | 6578 | 1210 | 1210 | 40 | 0 | 0 | 360 |
| 39 | 46 | 55 | 6578 | 1210 | 1210 | 60 | 0 | 0 | 360 |
| 40 | 46 | 55 | 6578 | 1210 | 1210 | 80 | 0 | 0 | 360 |
| 41 | 46 | 55 | 6578 | 1210 | 1210 | 100 | 0 | 0 | 360 |
| 42 | 46 | 55 | 6578 | 1210 | 1210 | 120 | 0 | 0 | 360 |
| 43 | 46 | 55 | 6578 | 1210 | 1210 | 140 | 0 | 0 | 360 |
| 44 | 46 | 55 | 6578 | 1210 | 1210 | 160 | 0 | 0 | 360 |
| 45 | 46 | 55 | 6578 | 1210 | 1210 | 180 | 0 | 0 | 360 |
| 46 | 46 | 55 | 6578 | 1210 | 1210 | 200 | 0 | 0 | 360 |
| 47 | 46 | 55 | 6578 | 1210 | 1210 | 220 | 0 | 0 | 360 |
| 48 | 46 | 55 | 6578 | 1210 | 1210 | 240 | 0 | 0 | 360 |
| 49 | 46 | 55 | 6578 | 1210 | 1210 | 260 | 0 | 0 | 360 |
| 50 | 46 | 55 | 6578 | 1210 | 1210 | 280 | 0 | 0 | 360 |
| 51 | 46 | 55 | 6578 | 1210 | 1210 | 300 | 0 | 0 | 360 |
| 52 | 46 | 55 | 6578 | 1210 | 1210 | 320 | 0 | 0 | 360 |
| 53 | 46 | 55 | 6578 | 1210 | 1210 | 340 | 0 | 0 | 360 |
| 54 | 48 | 88 | 6307 | 1000 | 1000 | 0 | 0 | 0 | 360 |
| 55 | 48 | 88 | 6307 | 1000 | 1000 | 8.8 | 0 | 0 | 360 |
| 56 | 48 | 88 | 6307 | 1000 | 1000 | 17.6 | 0 | 0 | 360 |
| 57 | 48 | 88 | 6307 | 1000 | 1000 | 26.4 | 0 | 0 | 360 |
| 58 | 48 | 88 | 6307 | 1000 | 1000 | 35.2 | 0 | 0 | 360 |
| 59 | 48 | 88 | 6307 | 1000 | 1000 | 44 | 0 | 0 | 360 |
| 60 | 48 | 88 | 6307 | 1000 | 1000 | 52.9 | 0 | 0 | 360 |
| 61 | 48 | 88 | 6307 | 1000 | 1000 | 61.7 | 0 | 0 | 360 |
| 62 | 48 | 88 | 6307 | 1000 | 1000 | 70.5 | 0 | 0 | 360 |
| 63 | 48 | 88 | 6307 | 1000 | 1000 | 79.3 | 0 | 0 | 360 |
| 64 | 48 | 88 | 6307 | 1000 | 1000 | 88.1 | 0 | 0 | 360 |
| 65 | 48 | 88 | 6307 | 1000 | 1000 | 96.9 | 0 | 0 | 360 |
| 66 | 48 | 88 | 6307 | 1000 | 1000 | 105.7 | 0 | 0 | 360 |

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|----|----|----|------|------|------|-------|---|---|-----|
| 67 | 48 | 88 | 6307 | 1000 | 1000 | 114.5 | 0 | 0 | 360 |
| 68 | 48 | 88 | 6307 | 1000 | 1000 | 123.3 | 0 | 0 | 360 |
| 69 | 48 | 88 | 6307 | 1000 | 1000 | 132.1 | 0 | 0 | 360 |
| 70 | 48 | 88 | 6307 | 1000 | 1000 | 141 | 0 | 0 | 360 |
| 71 | 48 | 88 | 6307 | 1000 | 1000 | 149.8 | 0 | 0 | 360 |
| 72 | 48 | 88 | 6307 | 1000 | 1000 | 158.6 | 0 | 0 | 360 |
| 73 | 48 | 88 | 6307 | 1000 | 1000 | 167.4 | 0 | 0 | 360 |
| 74 | 48 | 88 | 6307 | 1000 | 1000 | 176.2 | 0 | 0 | 360 |

S5. INITIAL SATELLITE PHASE ANGLE For each satellite in each orbital plane, provide the intital phase angle.

| (a) Orbital Plane No. | (b) Satellite Number | (c) Initial Phase Angle (Degrees) |
|-----------------------|----------------------|-----------------------------------|
| 1 | 1 | 0 |
| 1 | 2 | 11.3 |
| 1 | 3 | 22.5 |
| 1 | 4 | 33.8 |
| 1 | 5 | 45 |
| 1 | 6 | 56.3 |
| 1 | 7 | 67.5 |
| 1 | 8 | 78.8 |
| 1 | 9 | 90 |
| 1 | 10 | 101.3 |
| 1 | 11 | 112.5 |
| 1 | 12 | 123.8 |
| 1 | 13 | 135 |
| 1 | 14 | 146.3 |
| 1 | 15 | 157.5 |
| 1 | 16 | 168.8 |
| 1 | 17 | 180 |
| 1 | 18 | 191.3 |
| 1 | 19 | 202.5 |
| 1 | 20 | 213.8 |
| 1 | 21 | 225 |
| 1 | 22 | 236.3 |
| 1 | 23 | 247.5 |
| 1 | 24 | 258.8 |
| 1 | 25 | 270 |
| 1 | 26 | 281.3 |

| | | |
|---|----|-------|
| 1 | 27 | 292.5 |
| 1 | 28 | 303.8 |
| 1 | 29 | 315 |
| 1 | 30 | 326.3 |
| 1 | 31 | 337.5 |
| 1 | 32 | 348.8 |
| 2 | 1 | 1.6 |
| 2 | 2 | 12.9 |
| 2 | 3 | 24.1 |
| 2 | 4 | 35.4 |
| 2 | 5 | 46.6 |
| 2 | 6 | 57.9 |
| 2 | 7 | 69.1 |
| 2 | 8 | 80.4 |
| 2 | 9 | 91.6 |
| 2 | 10 | 102.9 |
| 2 | 11 | 114.1 |
| 2 | 12 | 125.4 |
| 2 | 13 | 136.6 |
| 2 | 14 | 147.9 |
| 2 | 15 | 159.1 |
| 2 | 16 | 170.4 |
| 2 | 17 | 181.6 |
| 2 | 18 | 192.9 |
| 2 | 19 | 204.1 |
| 2 | 20 | 215.4 |
| 2 | 21 | 226.6 |
| 2 | 22 | 237.9 |
| 2 | 23 | 249.1 |
| 2 | 24 | 260.4 |
| 2 | 25 | 271.6 |
| 2 | 26 | 282.9 |
| 2 | 27 | 294.1 |
| 2 | 28 | 305.4 |
| 2 | 29 | 316.6 |
| 2 | 30 | 327.9 |
| 2 | 31 | 339.1 |
| 2 | 32 | 350.4 |
| 3 | 1 | 3.2 |

| | | |
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| 3 | 2 | 14.5 |
| 3 | 3 | 25.7 |
| 3 | 4 | 37 |
| 3 | 5 | 48.2 |
| 3 | 6 | 59.5 |
| 3 | 7 | 70.7 |
| 3 | 8 | 82 |
| 3 | 9 | 93.2 |
| 3 | 10 | 104.5 |
| 3 | 11 | 115.7 |
| 3 | 12 | 127 |
| 3 | 13 | 138.2 |
| 3 | 14 | 149.5 |
| 3 | 15 | 160.7 |
| 3 | 16 | 172 |
| 3 | 17 | 183.2 |
| 3 | 18 | 194.5 |
| 3 | 19 | 205.7 |
| 3 | 20 | 217 |
| 3 | 21 | 228.2 |
| 3 | 22 | 239.5 |
| 3 | 23 | 250.7 |
| 3 | 24 | 262 |
| 3 | 25 | 273.2 |
| 3 | 26 | 284.5 |
| 3 | 27 | 295.7 |
| 3 | 28 | 307 |
| 3 | 29 | 318.2 |
| 3 | 30 | 329.5 |
| 3 | 31 | 340.7 |
| 3 | 32 | 352 |
| 4 | 1 | 4.8 |
| 4 | 2 | 16.1 |
| 4 | 3 | 27.3 |
| 4 | 4 | 38.6 |
| 4 | 5 | 49.8 |
| 4 | 6 | 61.1 |
| 4 | 7 | 72.3 |
| 4 | 8 | 83.6 |

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| 4 | 9 | 94.8 |
| 4 | 10 | 106.1 |
| 4 | 11 | 117.3 |
| 4 | 12 | 128.6 |
| 4 | 13 | 139.8 |
| 4 | 14 | 151.1 |
| 4 | 15 | 162.3 |
| 4 | 16 | 173.6 |
| 4 | 17 | 184.8 |
| 4 | 18 | 196.1 |
| 4 | 19 | 207.3 |
| 4 | 20 | 218.6 |
| 4 | 21 | 229.8 |
| 4 | 22 | 241.1 |
| 4 | 23 | 252.3 |
| 4 | 24 | 263.6 |
| 4 | 25 | 274.8 |
| 4 | 26 | 286.1 |
| 4 | 27 | 297.3 |
| 4 | 28 | 308.6 |
| 4 | 29 | 319.8 |
| 4 | 30 | 331.1 |
| 4 | 31 | 342.3 |
| 4 | 32 | 353.6 |
| 5 | 1 | 6.4 |
| 5 | 2 | 17.7 |
| 5 | 3 | 28.9 |
| 5 | 4 | 40.2 |
| 5 | 5 | 51.4 |
| 5 | 6 | 62.7 |
| 5 | 7 | 73.9 |
| 5 | 8 | 85.2 |
| 5 | 9 | 96.4 |
| 5 | 10 | 107.7 |
| 5 | 11 | 118.9 |
| 5 | 12 | 130.2 |
| 5 | 13 | 141.4 |
| 5 | 14 | 152.7 |
| 5 | 15 | 163.9 |

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| 5 | 16 | 175.2 |
| 5 | 17 | 186.4 |
| 5 | 18 | 197.7 |
| 5 | 19 | 208.9 |
| 5 | 20 | 220.2 |
| 5 | 21 | 231.4 |
| 5 | 22 | 242.7 |
| 5 | 23 | 253.9 |
| 5 | 24 | 265.2 |
| 5 | 25 | 276.4 |
| 5 | 26 | 287.7 |
| 5 | 27 | 298.9 |
| 5 | 28 | 310.2 |
| 5 | 29 | 321.4 |
| 5 | 30 | 332.7 |
| 5 | 31 | 343.9 |
| 5 | 32 | 355.2 |
| 6 | 1 | 8 |
| 6 | 2 | 19.3 |
| 6 | 3 | 30.5 |
| 6 | 4 | 41.8 |
| 6 | 5 | 53 |
| 6 | 6 | 64.3 |
| 6 | 7 | 75.5 |
| 6 | 8 | 86.8 |
| 6 | 9 | 98 |
| 6 | 10 | 109.3 |
| 6 | 11 | 120.5 |
| 6 | 12 | 131.8 |
| 6 | 13 | 143 |
| 6 | 14 | 154.3 |
| 6 | 15 | 165.5 |
| 6 | 16 | 176.8 |
| 6 | 17 | 188 |
| 6 | 18 | 199.3 |
| 6 | 19 | 210.5 |
| 6 | 20 | 221.8 |
| 6 | 21 | 233 |
| 6 | 22 | 244.3 |

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| 6 | 23 | 255.5 |
| 6 | 24 | 266.8 |
| 6 | 25 | 278 |
| 6 | 26 | 289.3 |
| 6 | 27 | 300.5 |
| 6 | 28 | 311.8 |
| 6 | 29 | 323 |
| 6 | 30 | 334.3 |
| 6 | 31 | 345.5 |
| 6 | 32 | 356.8 |
| 7 | 1 | 9.6 |
| 7 | 2 | 20.9 |
| 7 | 3 | 32.1 |
| 7 | 4 | 43.4 |
| 7 | 5 | 54.6 |
| 7 | 6 | 65.9 |
| 7 | 7 | 77.1 |
| 7 | 8 | 88.4 |
| 7 | 9 | 99.6 |
| 7 | 10 | 110.9 |
| 7 | 11 | 122.1 |
| 7 | 12 | 133.4 |
| 7 | 13 | 144.6 |
| 7 | 14 | 155.9 |
| 7 | 15 | 167.1 |
| 7 | 16 | 178.4 |
| 7 | 17 | 189.6 |
| 7 | 18 | 200.9 |
| 7 | 19 | 212.1 |
| 7 | 20 | 223.4 |
| 7 | 21 | 234.6 |
| 7 | 22 | 245.9 |
| 7 | 23 | 257.1 |
| 7 | 24 | 268.4 |
| 7 | 25 | 279.6 |
| 7 | 26 | 290.9 |
| 7 | 27 | 302.1 |
| 7 | 28 | 313.4 |
| 7 | 29 | 324.6 |

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| 7 | 30 | 335.9 |
| 7 | 31 | 347.1 |
| 7 | 32 | 358.4 |
| 8 | 1 | 11.3 |
| 8 | 2 | 22.5 |
| 8 | 3 | 33.8 |
| 8 | 4 | 45 |
| 8 | 5 | 56.3 |
| 8 | 6 | 67.5 |
| 8 | 7 | 78.8 |
| 8 | 8 | 90 |
| 8 | 9 | 101.3 |
| 8 | 10 | 112.5 |
| 8 | 11 | 123.8 |
| 8 | 12 | 135 |
| 8 | 13 | 146.3 |
| 8 | 14 | 157.5 |
| 8 | 15 | 168.8 |
| 8 | 16 | 180 |
| 8 | 17 | 191.3 |
| 8 | 18 | 202.5 |
| 8 | 19 | 213.8 |
| 8 | 20 | 225 |
| 8 | 21 | 236.3 |
| 8 | 22 | 247.5 |
| 8 | 23 | 258.8 |
| 8 | 24 | 270 |
| 8 | 25 | 281.3 |
| 8 | 26 | 292.5 |
| 8 | 27 | 303.8 |
| 8 | 28 | 315 |
| 8 | 29 | 326.3 |
| 8 | 30 | 337.5 |
| 8 | 31 | 348.8 |
| 8 | 32 | 0 |
| 9 | 1 | 12.9 |
| 9 | 2 | 24.1 |
| 9 | 3 | 35.4 |
| 9 | 4 | 46.6 |

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| 9 | 5 | 57.9 |
| 9 | 6 | 69.1 |
| 9 | 7 | 80.4 |
| 9 | 8 | 91.6 |
| 9 | 9 | 102.9 |
| 9 | 10 | 114.1 |
| 9 | 11 | 125.4 |
| 9 | 12 | 136.6 |
| 9 | 13 | 147.9 |
| 9 | 14 | 159.1 |
| 9 | 15 | 170.4 |
| 9 | 16 | 181.6 |
| 9 | 17 | 192.9 |
| 9 | 18 | 204.1 |
| 9 | 19 | 215.4 |
| 9 | 20 | 226.6 |
| 9 | 21 | 237.9 |
| 9 | 22 | 249.1 |
| 9 | 23 | 260.4 |
| 9 | 24 | 271.6 |
| 9 | 25 | 282.9 |
| 9 | 26 | 294.1 |
| 9 | 27 | 305.4 |
| 9 | 28 | 316.6 |
| 9 | 29 | 327.9 |
| 9 | 30 | 339.1 |
| 9 | 31 | 350.4 |
| 9 | 32 | 1.6 |
| 10 | 1 | 14.5 |
| 10 | 2 | 25.7 |
| 10 | 3 | 37 |
| 10 | 4 | 48.2 |
| 10 | 5 | 59.5 |
| 10 | 6 | 70.7 |
| 10 | 7 | 82 |
| 10 | 8 | 93.2 |
| 10 | 9 | 104.5 |
| 10 | 10 | 115.7 |
| 10 | 11 | 127 |

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| 10 | 12 | 138.2 |
| 10 | 13 | 149.5 |
| 10 | 14 | 160.7 |
| 10 | 15 | 172 |
| 10 | 16 | 183.2 |
| 10 | 17 | 194.5 |
| 10 | 18 | 205.7 |
| 10 | 19 | 217 |
| 10 | 20 | 228.2 |
| 10 | 21 | 239.5 |
| 10 | 22 | 250.7 |
| 10 | 23 | 262 |
| 10 | 24 | 273.2 |
| 10 | 25 | 284.5 |
| 10 | 26 | 295.7 |
| 10 | 27 | 307 |
| 10 | 28 | 318.2 |
| 10 | 29 | 329.5 |
| 10 | 30 | 340.7 |
| 10 | 31 | 352 |
| 10 | 32 | 3.2 |
| 11 | 1 | 16.1 |
| 11 | 2 | 27.3 |
| 11 | 3 | 38.6 |
| 11 | 4 | 49.8 |
| 11 | 5 | 61.1 |
| 11 | 6 | 72.3 |
| 11 | 7 | 83.6 |
| 11 | 8 | 94.8 |
| 11 | 9 | 106.1 |
| 11 | 10 | 117.3 |
| 11 | 11 | 128.6 |
| 11 | 12 | 139.8 |
| 11 | 13 | 151.1 |
| 11 | 14 | 162.3 |
| 11 | 15 | 173.6 |
| 11 | 16 | 184.8 |
| 11 | 17 | 196.1 |
| 11 | 18 | 207.3 |

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| 11 | 19 | 218.6 |
| 11 | 20 | 229.8 |
| 11 | 21 | 241.1 |
| 11 | 22 | 252.3 |
| 11 | 23 | 263.6 |
| 11 | 24 | 274.8 |
| 11 | 25 | 286.1 |
| 11 | 26 | 297.3 |
| 11 | 27 | 308.6 |
| 11 | 28 | 319.8 |
| 11 | 29 | 331.1 |
| 11 | 30 | 342.3 |
| 11 | 31 | 353.6 |
| 11 | 32 | 4.8 |
| 12 | 1 | 17.7 |
| 12 | 2 | 28.9 |
| 12 | 3 | 40.2 |
| 12 | 4 | 51.4 |
| 12 | 5 | 62.7 |
| 12 | 6 | 73.9 |
| 12 | 7 | 85.2 |
| 12 | 8 | 96.4 |
| 12 | 9 | 107.7 |
| 12 | 10 | 118.9 |
| 12 | 11 | 130.2 |
| 12 | 12 | 141.4 |
| 12 | 13 | 152.7 |
| 12 | 14 | 163.9 |
| 12 | 15 | 175.2 |
| 12 | 16 | 186.4 |
| 12 | 17 | 197.7 |
| 12 | 18 | 208.9 |
| 12 | 19 | 220.2 |
| 12 | 20 | 231.4 |
| 12 | 21 | 242.7 |
| 12 | 22 | 253.9 |
| 12 | 23 | 265.2 |
| 12 | 24 | 276.4 |
| 12 | 25 | 287.7 |

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| 12 | 26 | 298.9 |
| 12 | 27 | 310.2 |
| 12 | 28 | 321.4 |
| 12 | 29 | 332.7 |
| 12 | 30 | 343.9 |
| 12 | 31 | 355.2 |
| 12 | 32 | 6.4 |
| 13 | 1 | 19.3 |
| 13 | 2 | 30.5 |
| 13 | 3 | 41.8 |
| 13 | 4 | 53 |
| 13 | 5 | 64.3 |
| 13 | 6 | 75.5 |
| 13 | 7 | 86.8 |
| 13 | 8 | 98 |
| 13 | 9 | 109.3 |
| 13 | 10 | 120.5 |
| 13 | 11 | 131.8 |
| 13 | 12 | 143 |
| 13 | 13 | 154.3 |
| 13 | 14 | 165.5 |
| 13 | 15 | 176.8 |
| 13 | 16 | 188 |
| 13 | 17 | 199.3 |
| 13 | 18 | 210.5 |
| 13 | 19 | 221.8 |
| 13 | 20 | 233 |
| 13 | 21 | 244.3 |
| 13 | 22 | 255.5 |
| 13 | 23 | 266.8 |
| 13 | 24 | 278 |
| 13 | 25 | 289.3 |
| 13 | 26 | 300.5 |
| 13 | 27 | 311.8 |
| 13 | 28 | 323 |
| 13 | 29 | 334.3 |
| 13 | 30 | 345.5 |
| 13 | 31 | 356.8 |
| 13 | 32 | 8 |

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|----|----|-------|
| 14 | 1 | 20.9 |
| 14 | 2 | 32.1 |
| 14 | 3 | 43.4 |
| 14 | 4 | 54.6 |
| 14 | 5 | 65.9 |
| 14 | 6 | 77.1 |
| 14 | 7 | 88.4 |
| 14 | 8 | 99.6 |
| 14 | 9 | 110.9 |
| 14 | 10 | 122.1 |
| 14 | 11 | 133.4 |
| 14 | 12 | 144.6 |
| 14 | 13 | 155.9 |
| 14 | 14 | 167.1 |
| 14 | 15 | 178.4 |
| 14 | 16 | 189.6 |
| 14 | 17 | 200.9 |
| 14 | 18 | 212.1 |
| 14 | 19 | 223.4 |
| 14 | 20 | 234.6 |
| 14 | 21 | 245.9 |
| 14 | 22 | 257.1 |
| 14 | 23 | 268.4 |
| 14 | 24 | 279.6 |
| 14 | 25 | 290.9 |
| 14 | 26 | 302.1 |
| 14 | 27 | 313.4 |
| 14 | 28 | 324.6 |
| 14 | 29 | 335.9 |
| 14 | 30 | 347.1 |
| 14 | 31 | 358.4 |
| 14 | 32 | 9.6 |
| 15 | 1 | 22.5 |
| 15 | 2 | 33.8 |
| 15 | 3 | 45 |
| 15 | 4 | 56.3 |
| 15 | 5 | 67.5 |
| 15 | 6 | 78.8 |
| 15 | 7 | 90 |

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| 16 | 5 | 69.1 |
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| 16 | 9 | 114.1 |
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| 16 | 14 | 170.4 |

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| 20 | 2 | 41.8 |
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| 21 | 5 | 77.1 |
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| 22 | 3 | 56.3 |
| 22 | 4 | 67.5 |
| 22 | 5 | 78.8 |
| 22 | 6 | 90 |
| 22 | 7 | 101.3 |
| 22 | 8 | 112.5 |
| 22 | 9 | 123.8 |
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| 22 | 16 | 202.5 |
| 22 | 17 | 213.8 |

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| 22 | 27 | 326.3 |
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| 23 | 23 | 282.9 |
| 23 | 24 | 294.1 |

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| 23 | 27 | 327.9 |
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| 23 | 29 | 350.4 |
| 23 | 30 | 1.6 |
| 23 | 31 | 12.9 |
| 23 | 32 | 24.1 |
| 24 | 1 | 37 |
| 24 | 2 | 48.2 |
| 24 | 3 | 59.5 |
| 24 | 4 | 70.7 |
| 24 | 5 | 82 |
| 24 | 6 | 93.2 |
| 24 | 7 | 104.5 |
| 24 | 8 | 115.7 |
| 24 | 9 | 127 |
| 24 | 10 | 138.2 |
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| 24 | 22 | 273.2 |
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| 24 | 30 | 3.2 |
| 24 | 31 | 14.5 |

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| 25 | 8 | 117.3 |
| 25 | 9 | 128.6 |
| 25 | 10 | 139.8 |
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| 25 | 14 | 184.8 |
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| 25 | 17 | 218.6 |
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| 25 | 31 | 16.1 |
| 25 | 32 | 27.3 |
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| 26 | 2 | 51.4 |
| 26 | 3 | 62.7 |
| 26 | 4 | 73.9 |
| 26 | 5 | 85.2 |
| 26 | 6 | 96.4 |

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| 26 | 23 | 287.7 |
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| 26 | 30 | 6.4 |
| 26 | 31 | 17.7 |
| 26 | 32 | 28.9 |
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| 27 | 3 | 64.3 |
| 27 | 4 | 75.5 |
| 27 | 5 | 86.8 |
| 27 | 6 | 98 |
| 27 | 7 | 109.3 |
| 27 | 8 | 120.5 |
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| 27 | 11 | 154.3 |
| 27 | 12 | 165.5 |
| 27 | 13 | 176.8 |

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| 27 | 15 | 199.3 |
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| 27 | 30 | 8 |
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| 28 | 2 | 54.6 |
| 28 | 3 | 65.9 |
| 28 | 4 | 77.1 |
| 28 | 5 | 88.4 |
| 28 | 6 | 99.6 |
| 28 | 7 | 110.9 |
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| 28 | 9 | 133.4 |
| 28 | 10 | 144.6 |
| 28 | 11 | 155.9 |
| 28 | 12 | 167.1 |
| 28 | 13 | 178.4 |
| 28 | 14 | 189.6 |
| 28 | 15 | 200.9 |
| 28 | 16 | 212.1 |
| 28 | 17 | 223.4 |
| 28 | 18 | 234.6 |
| 28 | 19 | 245.9 |
| 28 | 20 | 257.1 |

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| 28 | 25 | 313.4 |
| 28 | 26 | 324.6 |
| 28 | 27 | 335.9 |
| 28 | 28 | 347.1 |
| 28 | 29 | 358.4 |
| 28 | 30 | 9.6 |
| 28 | 31 | 20.9 |
| 28 | 32 | 32.1 |
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| 29 | 2 | 56.3 |
| 29 | 3 | 67.5 |
| 29 | 4 | 78.8 |
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| 29 | 6 | 101.3 |
| 29 | 7 | 112.5 |
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| 30 | 30 | 12.9 |
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| 30 | 32 | 35.4 |
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| 31 | 2 | 59.5 |

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| 31 | 6 | 104.5 |
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| 31 | 14 | 194.5 |
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| 31 | 17 | 228.2 |
| 31 | 18 | 239.5 |
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| 31 | 32 | 37 |
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| 32 | 2 | 61.1 |
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| 32 | 5 | 94.8 |
| 32 | 6 | 106.1 |
| 32 | 7 | 117.3 |
| 32 | 8 | 128.6 |
| 32 | 9 | 139.8 |

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| 32 | 30 | 16.1 |
| 32 | 31 | 27.3 |
| 32 | 32 | 38.6 |
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| 33 | 3 | 73.9 |
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| 33 | 5 | 96.4 |
| 33 | 6 | 107.7 |
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| 33 | 12 | 175.2 |
| 33 | 13 | 186.4 |
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| 33 | 15 | 208.9 |
| 33 | 16 | 220.2 |

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| 33 | 30 | 17.7 |
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| 34 | 22 | 289.3 |
| 34 | 23 | 300.5 |

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| 34 | 30 | 19.3 |
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| 35 | 3 | 77.1 |
| 35 | 4 | 88.4 |
| 35 | 5 | 99.6 |
| 35 | 6 | 110.9 |
| 35 | 7 | 122.1 |
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| 35 | 25 | 324.6 |
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| 35 | 27 | 347.1 |
| 35 | 28 | 358.4 |
| 35 | 29 | 9.6 |
| 35 | 30 | 20.9 |

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| 36 | 4 | 23.5 |
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| 36 | 6 | 39.1 |
| 36 | 7 | 47 |
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| 36 | 9 | 62.6 |
| 36 | 10 | 70.4 |
| 36 | 11 | 78.3 |
| 36 | 12 | 86.1 |
| 36 | 13 | 93.9 |
| 36 | 14 | 101.7 |
| 36 | 15 | 109.6 |
| 36 | 16 | 117.4 |
| 36 | 17 | 125.2 |
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| 36 | 19 | 140.9 |
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| 36 | 29 | 219.1 |
| 36 | 30 | 227 |
| 36 | 31 | 234.8 |
| 36 | 32 | 242.6 |
| 36 | 33 | 250.4 |
| 36 | 34 | 258.3 |
| 36 | 35 | 266.1 |
| 36 | 36 | 273.9 |
| 36 | 37 | 281.7 |

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| 36 | 39 | 297.4 |
| 36 | 40 | 305.2 |
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| 36 | 42 | 320.9 |
| 36 | 43 | 328.7 |
| 36 | 44 | 336.5 |
| 36 | 45 | 344.3 |
| 36 | 46 | 352.2 |
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| 37 | 2 | 8.3 |
| 37 | 3 | 16.1 |
| 37 | 4 | 23.9 |
| 37 | 5 | 31.7 |
| 37 | 6 | 39.6 |
| 37 | 7 | 47.4 |
| 37 | 8 | 55.2 |
| 37 | 9 | 63 |
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| 37 | 11 | 78.7 |
| 37 | 12 | 86.5 |
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| 37 | 14 | 102.2 |
| 37 | 15 | 110 |
| 37 | 16 | 117.8 |
| 37 | 17 | 125.7 |
| 37 | 18 | 133.5 |
| 37 | 19 | 141.3 |
| 37 | 20 | 149.1 |
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| 37 | 22 | 164.8 |
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| 38 | 22 | 165.2 |
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| 39 | 15 | 110.9 |
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| 41 | 41 | 315.2 |

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| 42 | 11 | 80.9 |
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| 42 | 24 | 182.6 |
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| 42 | 28 | 213.9 |
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| 42 | 34 | 260.9 |

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| 42 | 42 | 323.5 |
| 42 | 43 | 331.3 |
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| 42 | 46 | 354.8 |
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| 43 | 2 | 10.9 |
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| 43 | 8 | 57.8 |
| 43 | 9 | 65.7 |
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| 43 | 14 | 104.8 |
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| 43 | 25 | 190.9 |
| 43 | 26 | 198.7 |
| 43 | 27 | 206.5 |

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| 43 | 31 | 237.8 |
| 43 | 32 | 245.7 |
| 43 | 33 | 253.5 |
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| 43 | 35 | 269.1 |
| 43 | 36 | 277 |
| 43 | 37 | 284.8 |
| 43 | 38 | 292.6 |
| 43 | 39 | 300.4 |
| 43 | 40 | 308.3 |
| 43 | 41 | 316.1 |
| 43 | 42 | 323.9 |
| 43 | 43 | 331.7 |
| 43 | 44 | 339.6 |
| 43 | 45 | 347.4 |
| 43 | 46 | 355.2 |
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| 44 | 3 | 19.1 |
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| 44 | 20 | 152.2 |

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| 44 | 26 | 199.1 |
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| 44 | 28 | 214.8 |
| 44 | 29 | 222.6 |
| 44 | 30 | 230.4 |
| 44 | 31 | 238.3 |
| 44 | 32 | 246.1 |
| 44 | 33 | 253.9 |
| 44 | 34 | 261.7 |
| 44 | 35 | 269.6 |
| 44 | 36 | 277.4 |
| 44 | 37 | 285.2 |
| 44 | 38 | 293 |
| 44 | 39 | 300.9 |
| 44 | 40 | 308.7 |
| 44 | 41 | 316.5 |
| 44 | 42 | 324.3 |
| 44 | 43 | 332.2 |
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| 44 | 45 | 347.8 |
| 44 | 46 | 355.7 |
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| 45 | 2 | 11.7 |
| 45 | 3 | 19.6 |
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| 45 | 7 | 50.9 |
| 45 | 8 | 58.7 |
| 45 | 9 | 66.5 |
| 45 | 10 | 74.3 |
| 45 | 11 | 82.2 |
| 45 | 12 | 90 |
| 45 | 13 | 97.8 |

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| 45 | 17 | 129.1 |
| 45 | 18 | 137 |
| 45 | 19 | 144.8 |
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| 45 | 21 | 160.4 |
| 45 | 22 | 168.3 |
| 45 | 23 | 176.1 |
| 45 | 24 | 183.9 |
| 45 | 25 | 191.7 |
| 45 | 26 | 199.6 |
| 45 | 27 | 207.4 |
| 45 | 28 | 215.2 |
| 45 | 29 | 223 |
| 45 | 30 | 230.9 |
| 45 | 31 | 238.7 |
| 45 | 32 | 246.5 |
| 45 | 33 | 254.3 |
| 45 | 34 | 262.2 |
| 45 | 35 | 270 |
| 45 | 36 | 277.8 |
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| 45 | 40 | 309.1 |
| 45 | 41 | 317 |
| 45 | 42 | 324.8 |
| 45 | 43 | 332.6 |
| 45 | 44 | 340.4 |
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| 46 | 4 | 27.8 |
| 46 | 5 | 35.7 |
| 46 | 6 | 43.5 |

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| 46 | 8 | 59.1 |
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| 46 | 12 | 90.4 |
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| 46 | 15 | 113.9 |
| 46 | 16 | 121.7 |
| 46 | 17 | 129.6 |
| 46 | 18 | 137.4 |
| 46 | 19 | 145.2 |
| 46 | 20 | 153 |
| 46 | 21 | 160.9 |
| 46 | 22 | 168.7 |
| 46 | 23 | 176.5 |
| 46 | 24 | 184.3 |
| 46 | 25 | 192.2 |
| 46 | 26 | 200 |
| 46 | 27 | 207.8 |
| 46 | 28 | 215.7 |
| 46 | 29 | 223.5 |
| 46 | 30 | 231.3 |
| 46 | 31 | 239.1 |
| 46 | 32 | 247 |
| 46 | 33 | 254.8 |
| 46 | 34 | 262.6 |
| 46 | 35 | 270.4 |
| 46 | 36 | 278.3 |
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| 46 | 40 | 309.6 |
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| 46 | 42 | 325.2 |
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| 46 | 45 | 348.7 |

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| 47 | 7 | 51.7 |
| 47 | 8 | 59.6 |
| 47 | 9 | 67.4 |
| 47 | 10 | 75.2 |
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| 47 | 12 | 90.9 |
| 47 | 13 | 98.7 |
| 47 | 14 | 106.5 |
| 47 | 15 | 114.3 |
| 47 | 16 | 122.2 |
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| 47 | 18 | 137.8 |
| 47 | 19 | 145.7 |
| 47 | 20 | 153.5 |
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| 47 | 22 | 169.1 |
| 47 | 23 | 177 |
| 47 | 24 | 184.8 |
| 47 | 25 | 192.6 |
| 47 | 26 | 200.4 |
| 47 | 27 | 208.3 |
| 47 | 28 | 216.1 |
| 47 | 29 | 223.9 |
| 47 | 30 | 231.7 |
| 47 | 31 | 239.6 |
| 47 | 32 | 247.4 |
| 47 | 33 | 255.2 |
| 47 | 34 | 263 |
| 47 | 35 | 270.9 |
| 47 | 36 | 278.7 |
| 47 | 37 | 286.5 |
| 47 | 38 | 294.3 |

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| 47 | 39 | 302.2 |
| 47 | 40 | 310 |
| 47 | 41 | 317.8 |
| 47 | 42 | 325.7 |
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| 47 | 44 | 341.3 |
| 47 | 45 | 349.1 |
| 47 | 46 | 357 |
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| 48 | 3 | 20.9 |
| 48 | 4 | 28.7 |
| 48 | 5 | 36.5 |
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| 48 | 28 | 216.5 |
| 48 | 29 | 224.3 |
| 48 | 30 | 232.2 |
| 48 | 31 | 240 |

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| 48 | 33 | 255.7 |
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| 48 | 35 | 271.3 |
| 48 | 36 | 279.1 |
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| 48 | 41 | 318.3 |
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| 48 | 43 | 333.9 |
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| 48 | 46 | 357.4 |
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| 49 | 2 | 13.5 |
| 49 | 3 | 21.3 |
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| 49 | 5 | 37 |
| 49 | 6 | 44.8 |
| 49 | 7 | 52.6 |
| 49 | 8 | 60.4 |
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| 49 | 13 | 99.6 |
| 49 | 14 | 107.4 |
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| 49 | 24 | 185.7 |

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| 49 | 34 | 263.9 |
| 49 | 35 | 271.7 |
| 49 | 36 | 279.6 |
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| 49 | 39 | 303 |
| 49 | 40 | 310.9 |
| 49 | 41 | 318.7 |
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| 50 | 8 | 60.9 |
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| 50 | 11 | 84.3 |
| 50 | 12 | 92.2 |
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| 50 | 17 | 131.3 |

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| 50 | 27 | 209.6 |
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| 50 | 34 | 264.3 |
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| 50 | 37 | 287.8 |
| 50 | 38 | 295.7 |
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| 52 | 2 | 14.8 |
| 52 | 3 | 22.6 |

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| 52 | 15 | 116.5 |
| 52 | 16 | 124.3 |
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| 52 | 25 | 194.8 |
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| 52 | 34 | 265.2 |
| 52 | 35 | 273 |
| 52 | 36 | 280.9 |
| 52 | 37 | 288.7 |
| 52 | 38 | 296.5 |
| 52 | 39 | 304.3 |
| 52 | 40 | 312.2 |
| 52 | 41 | 320 |
| 52 | 42 | 327.8 |

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| 52 | 44 | 343.5 |
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| 53 | 7 | 54.3 |
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| 53 | 10 | 77.8 |
| 53 | 11 | 85.7 |
| 53 | 12 | 93.5 |
| 53 | 13 | 101.3 |
| 53 | 14 | 109.1 |
| 53 | 15 | 117 |
| 53 | 16 | 124.8 |
| 53 | 17 | 132.6 |
| 53 | 18 | 140.4 |
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| 53 | 33 | 257.8 |
| 53 | 34 | 265.7 |
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| 54 | 36 | 262.5 |
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| 54 | 40 | 292.5 |
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| 54 | 44 | 322.5 |
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| 57 | 37 | 275.6 |
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| 58 | 43 | 322.5 |
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| 59 | 47 | 354.4 |
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| 60 | 10 | 78.8 |
| 60 | 11 | 86.3 |
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| 60 | 13 | 101.3 |

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| 60 | 48 | 3.8 |
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| 61 | 2 | 20.6 |
| 61 | 3 | 28.1 |
| 61 | 4 | 35.6 |

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| 61 | 10 | 80.6 |
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| 61 | 12 | 95.6 |
| 61 | 13 | 103.1 |
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| 61 | 17 | 133.1 |
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| 61 | 40 | 305.6 |
| 61 | 41 | 313.1 |
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| 61 | 45 | 343.1 |
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| 61 | 47 | 358.1 |
| 61 | 48 | 5.6 |
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| 62 | 3 | 30 |
| 62 | 4 | 37.5 |
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| 62 | 6 | 52.5 |
| 62 | 7 | 60 |
| 62 | 8 | 67.5 |
| 62 | 9 | 75 |
| 62 | 10 | 82.5 |
| 62 | 11 | 90 |
| 62 | 12 | 97.5 |
| 62 | 13 | 105 |
| 62 | 14 | 112.5 |
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| 62 | 30 | 232.5 |
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| 62 | 32 | 247.5 |
| 62 | 33 | 255 |
| 62 | 34 | 262.5 |

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| 62 | 36 | 277.5 |
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| 62 | 46 | 352.5 |
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| 63 | 40 | 309.4 |
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| 64 | 12 | 101.3 |
| 64 | 13 | 108.8 |
| 64 | 14 | 116.3 |
| 64 | 15 | 123.8 |
| 64 | 16 | 131.3 |

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| 65 | 2 | 28.1 |
| 65 | 3 | 35.6 |
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| 65 | 7 | 65.6 |

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| 65 | 44 | 343.1 |
| 65 | 45 | 350.6 |
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| 66 | 5 | 52.5 |
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| 66 | 7 | 67.5 |
| 66 | 8 | 75 |
| 66 | 9 | 82.5 |
| 66 | 10 | 90 |
| 66 | 11 | 97.5 |
| 66 | 12 | 105 |
| 66 | 13 | 112.5 |
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| 66 | 15 | 127.5 |
| 66 | 16 | 135 |
| 66 | 17 | 142.5 |
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| 66 | 19 | 157.5 |
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| 66 | 33 | 262.5 |
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| 66 | 36 | 285 |
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| 68 | 15 | 131.3 |
| 68 | 16 | 138.8 |
| 68 | 17 | 146.3 |
| 68 | 18 | 153.8 |
| 68 | 19 | 161.3 |

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| 68 | 35 | 281.3 |
| 68 | 36 | 288.8 |
| 68 | 37 | 296.3 |
| 68 | 38 | 303.8 |
| 68 | 39 | 311.3 |
| 68 | 40 | 318.8 |
| 68 | 41 | 326.3 |
| 68 | 42 | 333.8 |
| 68 | 43 | 341.3 |
| 68 | 44 | 348.8 |
| 68 | 45 | 356.3 |
| 68 | 46 | 3.8 |
| 68 | 47 | 11.3 |
| 68 | 48 | 18.8 |
| 69 | 1 | 28.1 |
| 69 | 2 | 35.6 |
| 69 | 3 | 43.1 |
| 69 | 4 | 50.6 |
| 69 | 5 | 58.1 |
| 69 | 6 | 65.6 |
| 69 | 7 | 73.1 |
| 69 | 8 | 80.6 |
| 69 | 9 | 88.1 |
| 69 | 10 | 95.6 |

| | | |
|----|----|-------|
| 69 | 11 | 103.1 |
| 69 | 12 | 110.6 |
| 69 | 13 | 118.1 |
| 69 | 14 | 125.6 |
| 69 | 15 | 133.1 |
| 69 | 16 | 140.6 |
| 69 | 17 | 148.1 |
| 69 | 18 | 155.6 |
| 69 | 19 | 163.1 |
| 69 | 20 | 170.6 |
| 69 | 21 | 178.1 |
| 69 | 22 | 185.6 |
| 69 | 23 | 193.1 |
| 69 | 24 | 200.6 |
| 69 | 25 | 208.1 |
| 69 | 26 | 215.6 |
| 69 | 27 | 223.1 |
| 69 | 28 | 230.6 |
| 69 | 29 | 238.1 |
| 69 | 30 | 245.6 |
| 69 | 31 | 253.1 |
| 69 | 32 | 260.6 |
| 69 | 33 | 268.1 |
| 69 | 34 | 275.6 |
| 69 | 35 | 283.1 |
| 69 | 36 | 290.6 |
| 69 | 37 | 298.1 |
| 69 | 38 | 305.6 |
| 69 | 39 | 313.1 |
| 69 | 40 | 320.6 |
| 69 | 41 | 328.1 |
| 69 | 42 | 335.6 |
| 69 | 43 | 343.1 |
| 69 | 44 | 350.6 |
| 69 | 45 | 358.1 |
| 69 | 46 | 5.6 |
| 69 | 47 | 13.1 |
| 69 | 48 | 20.6 |
| 70 | 1 | 30 |

| | | |
|----|----|-------|
| 70 | 2 | 37.5 |
| 70 | 3 | 45 |
| 70 | 4 | 52.5 |
| 70 | 5 | 60 |
| 70 | 6 | 67.5 |
| 70 | 7 | 75 |
| 70 | 8 | 82.5 |
| 70 | 9 | 90 |
| 70 | 10 | 97.5 |
| 70 | 11 | 105 |
| 70 | 12 | 112.5 |
| 70 | 13 | 120 |
| 70 | 14 | 127.5 |
| 70 | 15 | 135 |
| 70 | 16 | 142.5 |
| 70 | 17 | 150 |
| 70 | 18 | 157.5 |
| 70 | 19 | 165 |
| 70 | 20 | 172.5 |
| 70 | 21 | 180 |
| 70 | 22 | 187.5 |
| 70 | 23 | 195 |
| 70 | 24 | 202.5 |
| 70 | 25 | 210 |
| 70 | 26 | 217.5 |
| 70 | 27 | 225 |
| 70 | 28 | 232.5 |
| 70 | 29 | 240 |
| 70 | 30 | 247.5 |
| 70 | 31 | 255 |
| 70 | 32 | 262.5 |
| 70 | 33 | 270 |
| 70 | 34 | 277.5 |
| 70 | 35 | 285 |
| 70 | 36 | 292.5 |
| 70 | 37 | 300 |
| 70 | 38 | 307.5 |
| 70 | 39 | 315 |
| 70 | 40 | 322.5 |

| | | |
|----|----|-------|
| 70 | 41 | 330 |
| 70 | 42 | 337.5 |
| 70 | 43 | 345 |
| 70 | 44 | 352.5 |
| 70 | 45 | 0 |
| 70 | 46 | 7.5 |
| 70 | 47 | 15 |
| 70 | 48 | 22.5 |
| 71 | 1 | 31.9 |
| 71 | 2 | 39.4 |
| 71 | 3 | 46.9 |
| 71 | 4 | 54.4 |
| 71 | 5 | 61.9 |
| 71 | 6 | 69.4 |
| 71 | 7 | 76.9 |
| 71 | 8 | 84.4 |
| 71 | 9 | 91.9 |
| 71 | 10 | 99.4 |
| 71 | 11 | 106.9 |
| 71 | 12 | 114.4 |
| 71 | 13 | 121.9 |
| 71 | 14 | 129.4 |
| 71 | 15 | 136.9 |
| 71 | 16 | 144.4 |
| 71 | 17 | 151.9 |
| 71 | 18 | 159.4 |
| 71 | 19 | 166.9 |
| 71 | 20 | 174.4 |
| 71 | 21 | 181.9 |
| 71 | 22 | 189.4 |
| 71 | 23 | 196.9 |
| 71 | 24 | 204.4 |
| 71 | 25 | 211.9 |
| 71 | 26 | 219.4 |
| 71 | 27 | 226.9 |
| 71 | 28 | 234.4 |
| 71 | 29 | 241.9 |
| 71 | 30 | 249.4 |
| 71 | 31 | 256.9 |

| | | |
|----|----|-------|
| 71 | 32 | 264.4 |
| 71 | 33 | 271.9 |
| 71 | 34 | 279.4 |
| 71 | 35 | 286.9 |
| 71 | 36 | 294.4 |
| 71 | 37 | 301.9 |
| 71 | 38 | 309.4 |
| 71 | 39 | 316.9 |
| 71 | 40 | 324.4 |
| 71 | 41 | 331.9 |
| 71 | 42 | 339.4 |
| 71 | 43 | 346.9 |
| 71 | 44 | 354.4 |
| 71 | 45 | 1.9 |
| 71 | 46 | 9.4 |
| 71 | 47 | 16.9 |
| 71 | 48 | 24.4 |
| 72 | 1 | 33.8 |
| 72 | 2 | 41.3 |
| 72 | 3 | 48.8 |
| 72 | 4 | 56.3 |
| 72 | 5 | 63.8 |
| 72 | 6 | 71.3 |
| 72 | 7 | 78.8 |
| 72 | 8 | 86.3 |
| 72 | 9 | 93.8 |
| 72 | 10 | 101.3 |
| 72 | 11 | 108.8 |
| 72 | 12 | 116.3 |
| 72 | 13 | 123.8 |
| 72 | 14 | 131.3 |
| 72 | 15 | 138.8 |
| 72 | 16 | 146.3 |
| 72 | 17 | 153.8 |
| 72 | 18 | 161.3 |
| 72 | 19 | 168.8 |
| 72 | 20 | 176.3 |
| 72 | 21 | 183.8 |
| 72 | 22 | 191.3 |

| | | |
|----|----|-------|
| 72 | 23 | 198.8 |
| 72 | 24 | 206.3 |
| 72 | 25 | 213.8 |
| 72 | 26 | 221.3 |
| 72 | 27 | 228.8 |
| 72 | 28 | 236.3 |
| 72 | 29 | 243.8 |
| 72 | 30 | 251.3 |
| 72 | 31 | 258.8 |
| 72 | 32 | 266.3 |
| 72 | 33 | 273.8 |
| 72 | 34 | 281.3 |
| 72 | 35 | 288.8 |
| 72 | 36 | 296.3 |
| 72 | 37 | 303.8 |
| 72 | 38 | 311.3 |
| 72 | 39 | 318.8 |
| 72 | 40 | 326.3 |
| 72 | 41 | 333.8 |
| 72 | 42 | 341.3 |
| 72 | 43 | 348.8 |
| 72 | 44 | 356.3 |
| 72 | 45 | 3.8 |
| 72 | 46 | 11.3 |
| 72 | 47 | 18.8 |
| 72 | 48 | 26.3 |
| 73 | 1 | 35.6 |
| 73 | 2 | 43.1 |
| 73 | 3 | 50.6 |
| 73 | 4 | 58.1 |
| 73 | 5 | 65.6 |
| 73 | 6 | 73.1 |
| 73 | 7 | 80.6 |
| 73 | 8 | 88.1 |
| 73 | 9 | 95.6 |
| 73 | 10 | 103.1 |
| 73 | 11 | 110.6 |
| 73 | 12 | 118.1 |
| 73 | 13 | 125.6 |

| | | |
|----|----|-------|
| 73 | 14 | 133.1 |
| 73 | 15 | 140.6 |
| 73 | 16 | 148.1 |
| 73 | 17 | 155.6 |
| 73 | 18 | 163.1 |
| 73 | 19 | 170.6 |
| 73 | 20 | 178.1 |
| 73 | 21 | 185.6 |
| 73 | 22 | 193.1 |
| 73 | 23 | 200.6 |
| 73 | 24 | 208.1 |
| 73 | 25 | 215.6 |
| 73 | 26 | 223.1 |
| 73 | 27 | 230.6 |
| 73 | 28 | 238.1 |
| 73 | 29 | 245.6 |
| 73 | 30 | 253.1 |
| 73 | 31 | 260.6 |
| 73 | 32 | 268.1 |
| 73 | 33 | 275.6 |
| 73 | 34 | 283.1 |
| 73 | 35 | 290.6 |
| 73 | 36 | 298.1 |
| 73 | 37 | 305.6 |
| 73 | 38 | 313.1 |
| 73 | 39 | 320.6 |
| 73 | 40 | 328.1 |
| 73 | 41 | 335.6 |
| 73 | 42 | 343.1 |
| 73 | 43 | 350.6 |
| 73 | 44 | 358.1 |
| 73 | 45 | 5.6 |
| 73 | 46 | 13.1 |
| 73 | 47 | 20.6 |
| 73 | 48 | 28.1 |
| 74 | 1 | 37.5 |
| 74 | 2 | 45 |
| 74 | 3 | 52.5 |
| 74 | 4 | 60 |

| | | |
|----|----|-------|
| 74 | 5 | 67.5 |
| 74 | 6 | 75 |
| 74 | 7 | 82.5 |
| 74 | 8 | 90 |
| 74 | 9 | 97.5 |
| 74 | 10 | 105 |
| 74 | 11 | 112.5 |
| 74 | 12 | 120 |
| 74 | 13 | 127.5 |
| 74 | 14 | 135 |
| 74 | 15 | 142.5 |
| 74 | 16 | 150 |
| 74 | 17 | 157.5 |
| 74 | 18 | 165 |
| 74 | 19 | 172.5 |
| 74 | 20 | 180 |
| 74 | 21 | 187.5 |
| 74 | 22 | 195 |
| 74 | 23 | 202.5 |
| 74 | 24 | 210 |
| 74 | 25 | 217.5 |
| 74 | 26 | 225 |
| 74 | 27 | 232.5 |
| 74 | 28 | 240 |
| 74 | 29 | 247.5 |
| 74 | 30 | 255 |
| 74 | 31 | 262.5 |
| 74 | 32 | 270 |
| 74 | 33 | 277.5 |
| 74 | 34 | 285 |
| 74 | 35 | 292.5 |
| 74 | 36 | 300 |
| 74 | 37 | 307.5 |
| 74 | 38 | 315 |
| 74 | 39 | 322.5 |
| 74 | 40 | 330 |
| 74 | 41 | 337.5 |
| 74 | 42 | 345 |
| 74 | 43 | 352.5 |

| | | |
|----|----|------|
| 74 | 44 | 0 |
| 74 | 45 | 7.5 |
| 74 | 46 | 15 |
| 74 | 47 | 22.5 |
| 74 | 48 | 30 |

**FEDERAL COMMUNICATIONS COMMISSION
 SATELLITE SPACE STATION AUTHORIZATIONS
 FCC Form 312 - Schedule S: (Technical and Operational Description)**

S6. SERVICE AREA CHARACTERISTICS for each service area provide:

| (a) Service Area ID | (b) Type of Associated Station (Earth or Space) | (c) Service Area Diagram File Name (GXT File) | (d) Service Area Description. Provide list of geographic areas (state postal codes or ITU 3-ltr codes), satellites or Figure No. of Service Area Diagram. |
|---------------------|---|---|---|
| TC | E | | Visible Earth above 20° elevation angle |
| B | E | | Visible Earth above 45° elevation angle |
| UG | E | | Visible Earth above 45° elevation angle |
| A | E | | Alaska |

FEDERAL COMMUNICATIONS COMMISSION
SATELLITE SPACE STATION AUTHORIZATIONS
FCC Form 312 - Schedule S: (Technical and Operational Description)

S7. SPACE STATION ANTENNA BEAM CHARACTERISTICS For each antenna beam provide:

| (a) Beam ID | (b) T/R Mode | Isotropic Antenna Gain | | (e) Pointing Error (Degrees) | (f) Rotational Error (Degrees) | (g) Min. Cross- Polar Iso- lation (dB) | (h) Polar- ization Switch- able? (Y/N) | (i) Polarization Alignment Rel. Equatorial Plane (Degrees) | (j) Service Area ID | Transmit | | | Receive | | | | |
|-------------------|--------------------|---------------------------|-------------------|---------------------------------------|---|---|--|---|------------------------|-----------------------------|--------------------------------------|------------------------------|------------------------------------|---------------------------------------|--|-----------------------|------------------|
| | | (c) Peak (dBi) | (d) Edge (dBi) | | | | | | | (k) Input Losses (dB) | (l) Effective Output Power (W) | (m) Max. EIRP (dBW) | (n) System Noise Temp (k) | (o) G/T Max. Gain Pt. (db/K) | (p) Min. Saturation Flux Density (dBW/m2) | Input Attenuator (dB) | |
| | | | | | | | | | | | | | | | | (q) Max. Value | (r) Step Size |
| BUL0 | R | | | 0.025 | | 20 | | | UG | | | | 19.2 | -111.9 | 1 | 1 | |
| BUL1 | R | | | 0.025 | | 20 | | | UG | | | | 19.5 | -110.6 | 1 | 1 | |
| BUL3 | R | | | 0.025 | | 20 | | | UG | | | | 21.3 | -114 | 1 | 1 | |
| BUL3 | R | | | 0.025 | | 20 | | | UG | | | | 17.1 | -109.8 | 1 | 1 | |
| BUR0 | R | | | 0.025 | | 20 | | | UG | | | | 19.2 | -111.9 | 1 | 1 | |
| BUR1 | R | | | 0.025 | | 20 | | | UG | | | | 19.5 | -110.6 | 1 | 1 | |
| BUR3 | R | | | 0.025 | | 20 | | | UG | | | | 21.3 | -114 | 1 | 1 | |
| BUR3 | R | | | 0.025 | | 20 | | | UG | | | | 17.1 | -109.8 | 1 | 1 | |
| BDL0 | T | | | 0.025 | | 20 | | | UG | | 62.8 | | | | | | |
| BDL1 | T | | | 0.025 | | 20 | | | UG | | 63.1 | | | | | | |
| BDL3 | T | | | 0.025 | | 20 | | | UG | | 64.3 | | | | | | |
| BDL3 | T | | | 0.025 | | 20 | | | UG | | 65.2 | | | | | | |
| BDR0 | T | | | 0.025 | | 20 | | | UG | | 62.8 | | | | | | |
| BDR1 | T | | | 0.025 | | 20 | | | UG | | 63.1 | | | | | | |
| BDR3 | T | | | 0.025 | | 20 | | | UG | | 64.3 | | | | | | |
| BDR3 | T | | | 0.025 | | 20 | | | UG | | 65.2 | | | | | | |
| BTLM | T | | | 0.2 | | 10 | | | TC | | 9.5 | | | | | | |
| BCM | R | | | 0.2 | | 10 | | | TC | | | | -25.5 | -104.1 | 1 | 1 | |
| BBC | T | | | 0.2 | | 20 | | | B | | 15.5 | | | | | | |
| BBC | T | | | 0.2 | | 20 | | | B | | 15.5 | | | | | | |
| SUL2 | R | | | 0.025 | | 20 | | | UG | | | | 12.9 | -105.6 | 1 | 1 | |
| SUR2 | R | | | 0.025 | | 20 | | | UG | | | | 12.9 | -105.6 | 1 | 1 | |
| SDL2 | T | | | 0.025 | | 20 | | | UG | | 63.4 | | | | | | |
| SDR2 | T | | | 0.025 | | 20 | | | UG | | 63.4 | | | | | | |
| AUL3 | R | | | 0.025 | | 20 | | | A | | | | 21.3 | -114 | 1 | 1 | |
| AUR3 | R | | | 0.025 | | 20 | | | A | | | | 21.3 | -114 | 1 | 1 | |
| ADL3 | T | | | 0.025 | | 20 | | | A | | 68.1 | | | | | | |
| ADR3 | T | | | 0.025 | | 20 | | | A | | 68.1 | | | | | | |

**FEDERAL COMMUNICATIONS COMMISSION
SATELLITE SPACE STATION AUTHORIZATIONS
FCC Form 312 - Schedule S: (Technical and Operational Description)**

S8. ANTENNA BEAM DIAGRAMS For each beam pattern provide the reference to the graphic image and numerical data:
Also provide the power flux density levels in each beam that result from the emission with the highest power flux density.

| (a) Beam ID | (b) T/R Mode | (c) Co-or Cross Polar Mode ("C" or" X") | (d) GSO Ref. Orbital Longitude (Deg. E/W) | (e) NGSO Antenna Gain Contour Description (Figure/Table/ Exhibit) | (f) GSO Antenna Gain Contour Data (GXT File) | Max. Power Flux Density (dBW/M2/Hz) | | | | |
|-------------------|--------------------|---|--|---|---|--|------------|------------|------------|------------|
| | | | | | | At Angle of Arrival above horizontal (for emission with highest PFD) | | | | |
| | | | | | | (g) 5 Deg | (h) 10 Deg | (i) 15 Deg | (j) 20 Deg | (k) 25 Deg |
| BDL0 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BDL1 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BDL3 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BDL3 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BDR0 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BDR1 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BDR3 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BDR3 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| BUL0 | R | C | | See Part II of the narrati | | | | | | |
| BUL1 | R | C | | See Part II of the narrati | | | | | | |
| BUL3 | R | C | | See Part II of the narrati | | | | | | |
| BUL3 | R | C | | See Part II of the narrati | | | | | | |
| BUR0 | R | C | | See Part II of the narrati | | | | | | |
| BUR1 | R | C | | See Part II of the narrati | | | | | | |
| BUR3 | R | C | | See Part II of the narrati | | | | | | |
| BUR3 | R | C | | See Part II of the narrati | | | | | | |
| SDL2 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| SDR2 | T | C | | See Part II of the narrati | | -127.1 | -125.9 | -124.8 | -123.8 | -122.9 |
| SUL2 | R | C | | See Part II of the narrati | | | | | | |
| SUR2 | R | C | | See Part II of the narrati | | | | | | |
| BTLM | T | C | | See Part II of the narrati | | -122.9 | -121.7 | -120.6 | -119.5 | -118.4 |
| BCM | R | C | | See Part II of the narrati | | | | | | |
| BBC | T | C | | See Part II of the narrati | | -137.8 | -136.6 | -135.3 | -134.1 | -132.9 |
| BBC | T | C | | See Part II of the narrati | | -137.8 | -136.6 | -135.3 | -134.1 | -132.9 |
| ADL3 | T | C | | See Part II of the narrati | | -121 | -117.3 | -113.5 | -109.8 | -106 |
| ADR3 | T | C | | See Part II of the narrati | | -121 | -117.3 | -113.5 | -109.8 | -106 |
| AUL3 | R | C | | See Part II of the narrati | | | | | | |
| AUR3 | R | C | | See Part II of the narrati | | | | | | |

**FEDERAL COMMUNICATIONS COMMISSION
SATELLITE SPACE STATION AUTHORIZATIONS
FCC Form 312 - Schedule S: (Technical and Operational Description)**

S9. SPACE STATION CHANNELS For each frequency channel provide: S10. SPACE STATION TRANSPONDERS For each transponder provide:

| (a) Channel No. | (B) Assigned Bandwidth (kHz) | (c) T/R Mode | (d) Center Frequency (MHz) | (e) Polarization (H, V, L, R) | (f) TTC or Comm Channel (T or C) |
|-----------------------|------------------------------------|--------------------|----------------------------------|-------------------------------------|---|
| CTUL | 250000 | R | 47325 | L | T |
| CBDL | 200000 | T | 42350 | L | T |
| CTDL | 50000 | T | 42475 | L | T |
| CBDR | 250000 | T | 42375 | R | T |
| CCUL1 | 1000000 | R | 47700 | L | C |
| CCUL2 | 1000000 | R | 48700 | L | C |
| CCUL3 | 1000000 | R | 49700 | L | C |
| CCUL4 | 1000000 | R | 50900 | L | C |
| CCUL5 | 1000000 | R | 51900 | L | C |
| CCUR1 | 1000000 | R | 47700 | R | C |
| CCUR2 | 1000000 | R | 48700 | R | C |
| CCUR3 | 1000000 | R | 49700 | R | C |
| CCUR4 | 1000000 | R | 50900 | R | C |
| CCUR5 | 1000000 | R | 51900 | R | C |
| CCDL1 | 1000000 | T | 38000 | L | C |
| CCDL2 | 1000000 | T | 39000 | L | C |
| CCDL3 | 1000000 | T | 40000 | L | C |
| CCDL4 | 1000000 | T | 41000 | L | C |
| CCDL5 | 1000000 | T | 42000 | L | C |
| CDDR1 | 1000000 | T | 38000 | R | C |
| CDDR2 | 1000000 | T | 39000 | R | C |
| CDDR3 | 1000000 | T | 40000 | R | C |
| CDDR4 | 1000000 | T | 41000 | R | C |
| CDDR5 | 1000000 | T | 42000 | R | C |

| (a) Transponder ID | (b) Transponder Gain (dB) | Receive Band | | Transmit Band | |
|--------------------------|---------------------------------|--------------------|----------------|--------------------|-------------|
| | | (c) Channel No. | (d) Beam ID | (e) Channel No. | (f) Beam ID |
| TTUL | | CTUL | BCMD | | |
| TBDL | | | | CBDL | BBCNL |
| TTDL | | | | CTDL | BTLM |
| TBDR | | | | CBDR | BBCNR |
| CUL1A | | CCUL1 | BUL00 | | |
| CUL1B | | CCUL1 | BUL15 | | |
| CUL1C | | CCUL1 | BUL30 | | |
| CUL1D | | CCUL1 | BUL36 | | |
| CUL2A | | CCUL2 | BUL00 | | |
| CUL2B | | CCUL2 | BUL15 | | |
| CUL2C | | CCUL2 | BUL30 | | |
| CUL2D | | CCUL2 | BUL36 | | |
| CUL3A | | CCUL3 | BUL00 | | |
| CUL3B | | CCUL3 | BUL15 | | |
| CUL3C | | CCUL3 | BUL30 | | |
| CUL3D | | CCUL3 | BUL36 | | |
| CUL4A | | CCUL4 | BUL00 | | |
| CUL4B | | CCUL4 | BUL15 | | |
| CUL4C | | CCUL4 | BUL30 | | |
| CUL4D | | CCUL4 | BUL36 | | |
| CUL5A | | CCUL5 | BUL00 | | |
| CUL5B | | CCUL5 | BUL15 | | |
| CUL5C | | CCUL5 | BUL30 | | |
| CUL5D | | CCUL5 | BUL36 | | |
| CUR1A | | CCUR1 | BUR00 | | |
| CUR1B | | CCUR1 | BUR15 | | |
| CUR1C | | CCUR1 | BUR30 | | |
| CUR1D | | CCUR1 | BUR36 | | |
| CUR2A | | CCUR2 | BUR00 | | |
| CUR2B | | CCUR2 | BUR15 | | |

| | | | | | |
|-------|--|-------|-------|-------|-------|
| CUR2C | | CCUR2 | BUR30 | | |
| CUR2D | | CCUR2 | BUR36 | | |
| CUR3A | | CCUR3 | BUR00 | | |
| CUR3B | | CCUR3 | BUR15 | | |
| CUR3C | | CCUR3 | BUR30 | | |
| CUR3D | | CCUR3 | BUR36 | | |
| CUR4A | | CCUR4 | BUR00 | | |
| CUR4B | | CCUR4 | BUR15 | | |
| CUR4C | | CCUR4 | BUR30 | | |
| CUR4D | | CCUR4 | BUR36 | | |
| CUR5A | | CCUR5 | BUR00 | | |
| CUR5B | | CCUR5 | BUR15 | | |
| CUR5C | | CCUR5 | BUR30 | | |
| CUR5D | | CCUR5 | BUR36 | | |
| CDL1A | | | | CCDL1 | BDL00 |
| CDL1B | | | | CCDL1 | BDL15 |
| CDL1C | | | | CCDL1 | BDL30 |
| CDL1D | | | | CCDL1 | BDL36 |
| CDL2A | | | | CCDL2 | BDL00 |
| CDL2B | | | | CCDL2 | BDL15 |
| CDL2C | | | | CCDL2 | BDL30 |
| CDL2D | | | | CCDL2 | BDL36 |
| CDL3A | | | | CCDL3 | BDL00 |
| CDL3B | | | | CCDL3 | BDL15 |
| CDL3C | | | | CCDL3 | BDL30 |
| CDL3D | | | | CCDL3 | BDL36 |
| CDL4A | | | | CCDL4 | BDL00 |
| CDL4B | | | | CCDL4 | BDL15 |
| CDL4C | | | | CCDL4 | BDL30 |
| CDL4D | | | | CCDL4 | BDL36 |
| CDL5A | | | | CCDL5 | BDL00 |
| CDL5B | | | | CCDL5 | BDL15 |
| CDL5C | | | | CCDL5 | BDL30 |
| CDL5D | | | | CCDL5 | BDL36 |
| CDR1A | | | | CCDR1 | BDR00 |
| CDR1B | | | | CCDR1 | BDR15 |
| CDR1C | | | | CCDR1 | BDR30 |
| CDR1D | | | | CCDR1 | BDR36 |
| CDR2A | | | | CCDR2 | BDR00 |

| | | | | | |
|-------|--|-------|-------|-------|-------|
| CDR2B | | | | CCDR2 | BDR15 |
| CDR2C | | | | CCDR2 | BDR30 |
| CDR2D | | | | CCDR2 | BDR36 |
| CDR3A | | | | CCDR3 | BDR00 |
| CDR3B | | | | CCDR3 | BDR15 |
| CDR3C | | | | CCDR3 | BDR30 |
| CDR3D | | | | CCDR3 | BDR36 |
| CDR4A | | | | CCDR4 | BDR00 |
| CDR4B | | | | CCDR4 | BDR15 |
| CDR4C | | | | CCDR4 | BDR30 |
| CDR4D | | | | CCDR4 | BDR36 |
| CDR5A | | | | CCDR5 | BDR00 |
| CDR5B | | | | CCDR5 | BDR15 |
| CDR5C | | | | CCDR5 | BDR30 |
| CDR5D | | | | CCDR5 | BDR36 |
| SUL1E | | CCUL1 | SUL20 | | |
| SUL2E | | CCUL2 | SUL20 | | |
| SUL3E | | CCUL3 | SUL20 | | |
| SUL4E | | CCUL4 | SUL20 | | |
| SUL5E | | CCUL5 | SUL20 | | |
| SUR1E | | CCUR1 | SUR20 | | |
| SUR2E | | CCUR2 | SUR20 | | |
| SUR3E | | CCUR3 | SUR20 | | |
| SUR4E | | CCUR4 | SUR20 | | |
| SUR5E | | CCUR5 | SUR20 | | |
| SDL1E | | | | CCDL1 | SDL20 |
| SDL2E | | | | CCDL2 | SDL20 |
| SDL3E | | | | CCDL3 | SDL20 |
| SDL4E | | | | CCDL4 | SDL20 |
| SDL5E | | | | CCDL5 | SDL20 |
| SDR1E | | | | CCDR1 | SDR20 |
| SDR2E | | | | CCDR2 | SDR20 |
| SDR3E | | | | CCDR3 | SDR20 |
| SDR4E | | | | CCDR4 | SDR20 |
| SDR5E | | | | CCDR5 | SDR20 |
| AUL1C | | CCUL1 | AUL30 | | |
| AUL2C | | CCUL2 | AUL30 | | |
| AUL3C | | CCUL3 | AUL30 | | |
| AUL4C | | CCUL4 | AUL30 | | |

| | | | | | |
|-------|--|-------|-------|-------|-------|
| AUL5C | | CCUL5 | AUL30 | | |
| AUR1C | | CCUR1 | AUR30 | | |
| AUR2C | | CCUR2 | AUR30 | | |
| AUR3C | | CCUR3 | AUR30 | | |
| AUR4C | | CCUR4 | AUR30 | | |
| AUR5C | | CCUR5 | AUR30 | | |
| ADL1C | | | | CCDL1 | ADL30 |
| ADL2C | | | | CCDL2 | ADL30 |
| ADL3C | | | | CCDL3 | ADL30 |
| ADL4C | | | | CCDL4 | ADL30 |
| ADL5C | | | | CCDL5 | ADL30 |
| ADR1C | | | | CCDR1 | ADR30 |
| ADR2C | | | | CCDR2 | ADR30 |
| ADR3C | | | | CCDR3 | ADR30 |
| ADR4C | | | | CCDR4 | ADR30 |
| ADR5C | | | | CCDR5 | ADR30 |

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S11. DIGITAL MODULATION PARAMETERS For each digital emission provide:

| (a) Digital Mod. ID | (b) Emission Designator | (c) Assigned Bandwidth (kHz) | (d) No. of Phases | (e) Uncoded Data Rate (kbps) | (f) FEC Error Correction Coding Rate | (g) CDMA Processing Gain (dB) | (h) Total C/N Performance Objective (dB) | (i) Single Entry C/I Objective (dB) |
|---------------------|-------------------------|------------------------------|-------------------|------------------------------|--------------------------------------|-------------------------------|--|-------------------------------------|
| D1F | 1G00G7W | 1000000 | | | | | | |
| D2F | 500MG7W | 500000 | | | | | | |
| D3F | 250MG7W | 250000 | | | | | | |
| D4R | 250MG7W | 250000 | | | | | | |
| D5R | 125MG7W | 125000 | | | | | | |
| D6R | 62M5G7W | 62500 | | | | | | |
| D7B | 10M0G7W | 10000 | | | | | | |
| D8T | 100KG7W | 100 | | | | | | |
| D9C | 1K62G7W | 1.62 | | | | | | |
| D10C | 1M20G7W | 1200 | | | | | | |

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Page 10: TT and C

S14. Is the space station(s) controlled and monitored remotely? If Yes, provide the location and telephone number of the TT and C control point(s): #Error

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**Page 11:
Characteristics and
Certifications**

S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S16. SPACECRAFT ELECTRICAL CHARACTERISTICS:

S17. CERTIFICATIONS:

| | | | | | | |
|---|-------------------------------------|-----|-------------------------------------|----|--------------------------|-----|
| a. Are the power flux density limits of § 25.208 met?: | <input type="checkbox"/> | YES | <input checked="" type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| b. Are the appropriate service area coverage requirements of § 25.143(b)(ii) and (iii), or § 25.145(c)(1) and (2) met? | <input checked="" type="checkbox"/> | YES | <input type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| c. Are the frequency tolerances of § 25.202(e) and the out-of-band emission limits of § 25.202(f)(1), (2) and (3) met? | <input checked="" type="checkbox"/> | YES | <input type="checkbox"/> | NO | <input type="checkbox"/> | N/A |
| In addition to the information required in this Form, the space station applicant is required to provide all the information specified in Section 25.114 of the Commission's rules, 47 C.F.R § 25.114. | | | | | | |

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