

Exhibit to Application

FCC 301

KRVK , Midwest, WY

Facility ID: 88406

The proposed KRVK city grade contour (3.16 mV/m, 70 dBu) does not encompass the city of Midwest, WY utilizing the standard FCC method of calculating the contour.¹ We have determined that a supplemental method of depicting city grade coverage, as noted in §73.313(e) of the Commission's rules, is appropriate.

The city of Midwest, WY falls in an arc between 1° and 3° from the proposed KRVK transmitter site. Analyzing individual radials from the proposed KRVK site toward Midwest, WY at 1° through 3°, we have determined the location of the city grade contour based on the standard utilization of the Commission's 50/50 curves and have alternatively determined the location of the 70 dBu (3.16 mV/m) contour using the Longley-Rice (Supplemental) coverage model.

Using this supplemental method, as visually demonstrated in Figure 3 and 4 and documented in the tabulation in Figure 2, we find that the city grade contour, in the direction of Midwest, WY, extends 75 kilometers, which is beyond the city boundary of Midwest, WY. Therefore, based on the supplemental depiction, we find that the city of Midwest, WY is completely encompassed by the city grade contour of the proposed KRVK facility in compliance with §73.315 of the Commission's rules.

Supporting Exhibits and Narrative

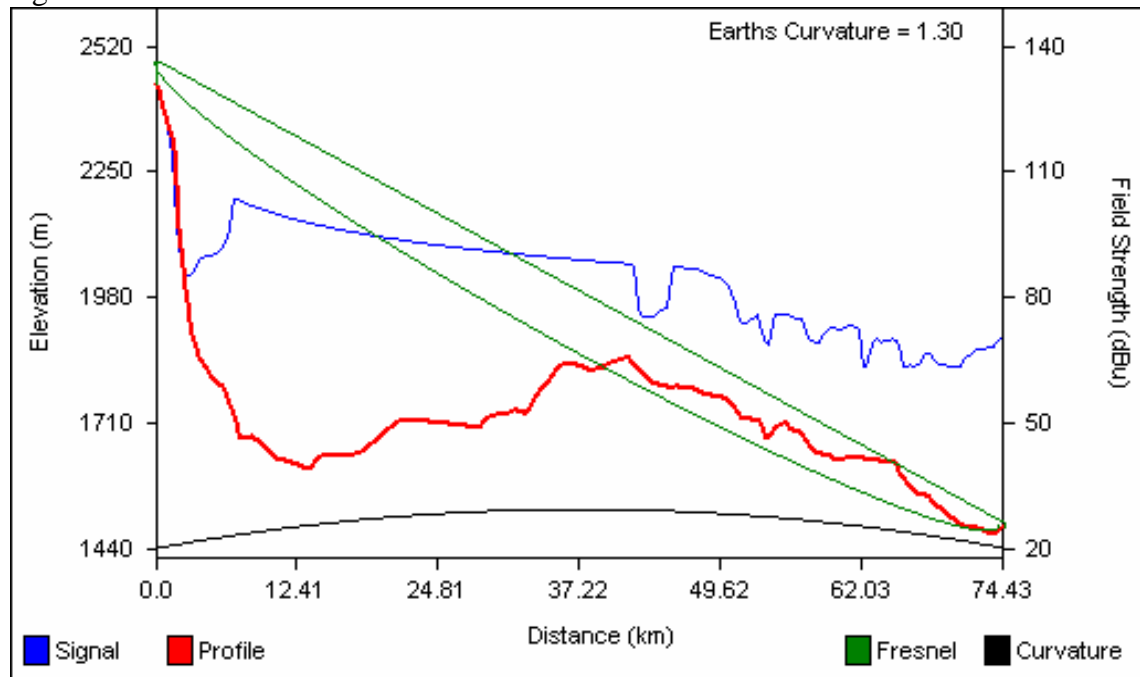
Conformance with guidelines for consideration to use supplemental determination of coverage of community of license (Section 73.315).²

1. Why use is warranted: As depicted in figure 1 below and table 1 attached, the terrain between the transmitter location and the community of license is very rough terrain. The most pertinent radial is the 2 degree radial. Delta H value along this radial is 219.2 meters a value which is greater than the 20 to 100 meter value used by the staff to define "terrain departs widely".

¹ §73.313(c) and §73.333

² Per DOC-225693A1 (August 08, 2002)

Figure 1

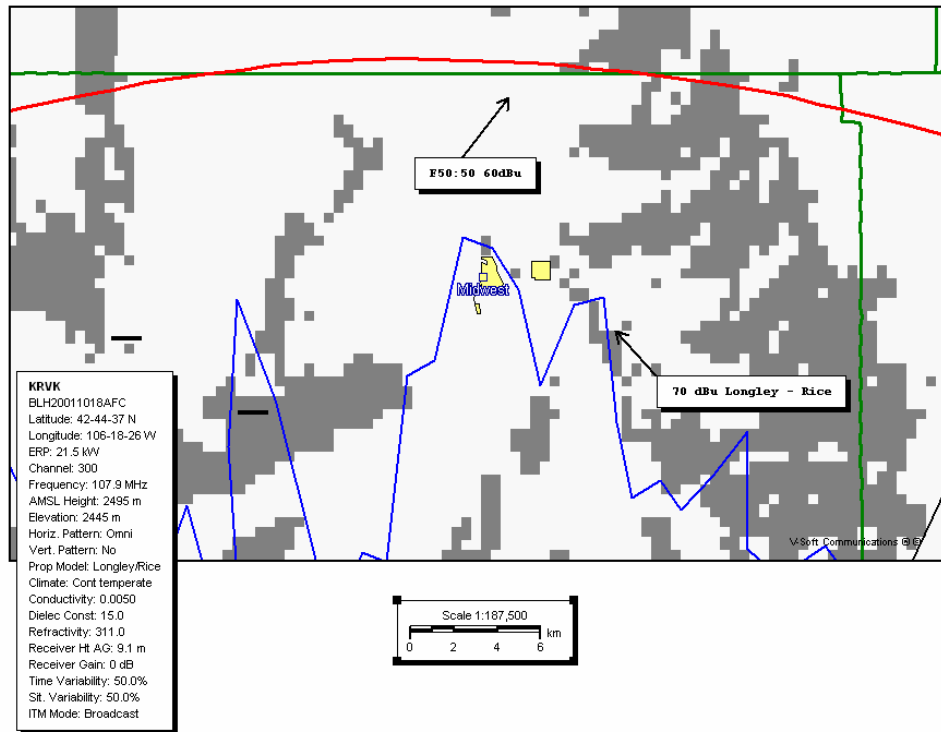


2. Showing of extension of contour: Data shown below in figure 2 is of the radii that is pertinent to determining coverage of the community of license. The mean extension of contour is 26%. Figure 3 also demonstrates this.

Figure 2

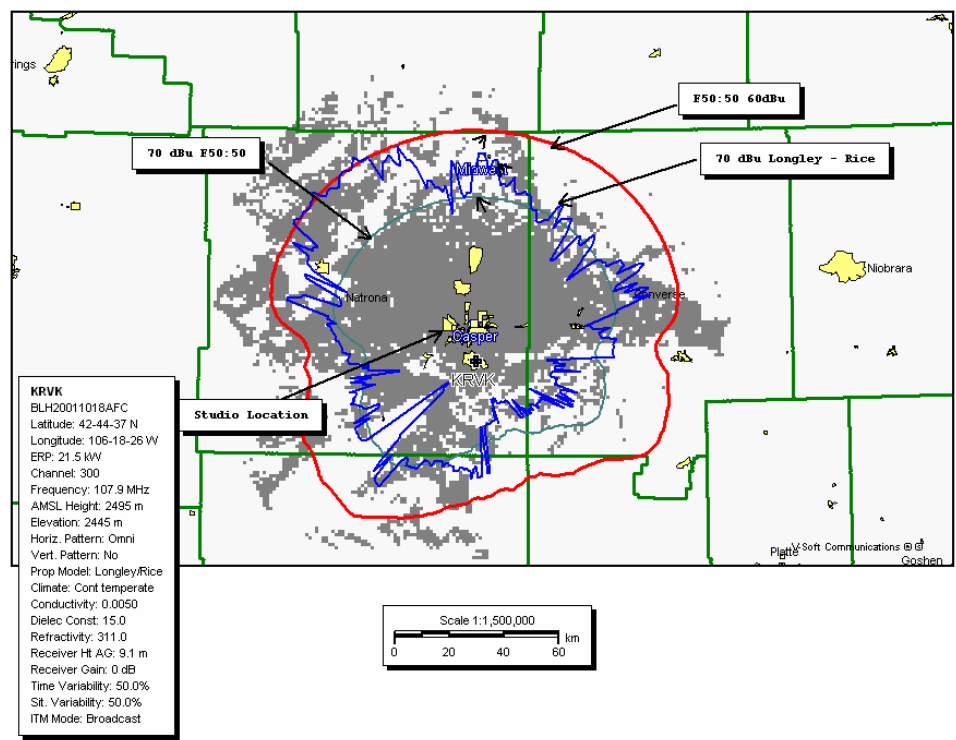
Radial		60 dbu FCC Method	70 dbu FCC Method	70 dbu Longley- Rice Method	LR/FCC
<i>Bearing</i>	<i>HAAT</i>	<i>Distance, km</i>	<i>Distance, km</i>	<i>Distance, km</i>	<i>Change %</i>
1	830.4	82.5	59.5	76	28%
2	829.6	82.5	59.4	75.6	27%
3	829.4	82.5	59.4	73.7	24%
Distance of Supplemental predicted contour larger than standard prediction					26%

Figure 3



3. Coordinates of Main Studio: 42-51'-01" N 106-19'-51" Also known as 150 North Nichols, Casper, WY.
4. Map of Main studio location, Community of License, and Predicted Contours:
 Figure 4 Below shows the relative location of the main studio, the legal boundaries of the community of license, and the principal community contours as predicted by the standard and supplemental contour prediction methods.
5. List of assumptions: Made part of Figure 4 below is a listing of assumptions and the method used in generating the supplemental contour analysis.

Figure 4



6. Sample Calculations: Supplemental contour was calculated using Longley-Rice Version 1.2.2 as modified by George Hufford, as implemented in the software program “Probe II” V-Soft Communications. This method has been accepted previously by FCC staff.

Table 1

Table 1

Clear Channel WorldWide
Terrain Radial Table Using V-Soft Comm. 03 Arc Second Data
KRVK Delta H toward Midwest, WY
42 44 37 N. 106 18 26 W.
Azimuth of radial= 2°
Delta h= 219.2M, Interval=.1, COR AMSL= 2495 M M, Interval=.1
Attenuation= -7.0 dB
Radial length = 74.4 km

Distance KM	Elevation Meters	Distance KM	Elevation Meters	Distance KM	Elevation Meters	Distance KM	Elevation Meters	Distance KM	Elevation Meters	Distance KM	Elevation Meters
0.00	1768.00	0.10	1767.85	0.20	1766.99	0.30	1766.56	0.40	1765.98	0.50	1765.51
0.60	1764.47	0.70	1764.09	0.80	1763.86	0.90	1763.12	1.00	1762.48	1.10	1761.85
1.20	1761.13	1.30	1760.83	1.40	1759.78	1.50	1758.46	1.60	1757.51	1.70	1757.33
1.80	1756.20	1.90	1755.22	2.00	1754.94	2.10	1754.76	2.20	1754.01	2.30	1753.86
2.40	1753.63	2.50	1753.33	2.60	1752.65	2.70	1752.48	2.80	1752.45	2.90	1752.07
3.00	1752.01	3.10	1751.93	3.20	1751.59	3.30	1751.25	3.40	1751.08	3.50	1750.82
3.60	1750.22	3.70	1750.19	3.80	1750.14	3.90	1750.05	4.00	1749.98	4.10	1749.97
4.20	1749.17	4.30	1748.80	4.40	1748.78	4.50	1748.66	4.60	1748.02	4.70	1747.93
4.80	1747.00	4.90	1746.81	5.00	1746.28	5.10	1745.11	5.20	1745.03	5.30	1744.99
5.40	1744.85	5.50	1743.53	5.60	1743.06	5.70	1742.90	5.80	1742.85	5.90	1742.69
6.00	1742.35	6.10	1742.06	6.20	1741.67	6.30	1741.17	6.40	1740.98	6.50	1740.71
6.60	1740.32	6.70	1740.17	6.80	1740.10	6.90	1740.01	7.00	1739.77	7.10	1739.16
7.20	1739.03	7.30	1738.50	7.40	1738.28	7.50	1736.29	7.60	1734.08	7.70	1733.92
7.80	1731.71	7.90	1730.34	8.00	1729.22	8.10	1727.15	8.20	1726.74	8.30	1724.85
8.40	1723.79	8.50	1723.13	8.60	1721.47	8.70	1720.94	8.80	1718.68	8.90	1718.44
9.00	1716.41	9.10	1715.89	9.20	1715.05	9.30	1713.28	9.40	1712.89	9.50	1712.68
9.60	1711.63	9.70	1711.36	9.80	1710.71	9.90	1710.67	10.00	1710.53	10.10	1709.77
10.20	1708.82	10.30	1708.57	10.40	1707.89	10.50	1707.11	10.60	1707.00	10.70	1707.00
10.80	1707.00	10.90	1707.00	11.00	1707.00	11.10	1707.00	11.20	1707.00	11.30	1707.00
11.40	1707.00	11.50	1707.00	11.60	1706.99	11.70	1706.95	11.80	1706.94	11.90	1706.76
12.00	1706.64	12.10	1706.40	12.20	1706.35	12.30	1706.32	12.40	1706.30	12.50	1706.25
12.60	1706.19	12.70	1706.14	12.80	1706.00	12.90	1706.00	13.00	1705.40	13.10	1705.00
13.20	1704.24	13.30	1703.96	13.40	1703.69	13.50	1703.08	13.60	1702.00	13.70	1700.92
13.80	1699.87	13.90	1699.49	14.00	1698.97	14.10	1697.94	14.20	1696.92	14.30	1695.89
14.40	1695.27	14.50	1694.86	14.60	1693.83	14.70	1693.15	14.80	1692.67	14.90	1692.66
15.00	1692.62	15.10	1692.43	15.20	1691.67	15.30	1691.07	15.40	1691.07	15.50	1690.98
15.60	1690.93	15.70	1690.88	15.80	1690.83	15.90	1690.64	16.00	1690.33	16.10	1689.04
16.20	1688.73	16.30	1687.98	16.40	1687.15	16.50	1687.06	16.60	1685.03	16.70	1683.63
16.80	1682.52	16.90	1680.79	17.00	1679.62	17.10	1679.41	17.20	1677.90	17.30	1675.91
17.40	1675.20	17.50	1673.32	17.60	1671.34	17.70	1670.98	17.80	1668.09	17.90	1667.30
18.00	1664.86	18.10	1663.55	18.20	1661.15	18.30	1658.65	18.40	1658.01	18.50	1654.67
18.60	1654.67	18.70	1654.33	18.80	1654.12	18.90	1654.04	19.00	1653.76	19.10	1653.65
19.20	1653.32	19.30	1652.91	19.40	1652.34	19.50	1651.38	19.60	1651.04	19.70	1650.75
19.80	1650.33	19.90	1650.08	20.00	1649.62	20.10	1649.30	20.20	1648.59	20.30	1648.44
20.40	1647.68	20.50	1647.49	20.60	1647.34	20.70	1646.72	20.80	1646.17	20.90	1646.12
21.00	1646.00	21.10	1646.00	21.20	1646.00	21.30	1646.00	21.40	1646.00	21.50	1646.00
21.60	1646.00	21.70	1646.00	21.80	1646.00	21.90	1646.00	22.00	1646.00	22.10	1646.00
22.20	1646.00	22.30	1646.00	22.40	1646.00	22.50	1646.00	22.60	1646.00	22.70	1646.00
22.80	1646.00	22.90	1646.00	23.00	1646.00	23.10	1646.00	23.20	1646.00	23.30	1646.00
23.40	1646.00	23.50	1646.00	23.60	1646.00	23.70	1646.00	23.80	1646.00	23.90	1646.00
24.00	1646.00	24.10	1646.00	24.20	1646.00	24.30	1646.00	24.40	1646.00	24.50	1645.99
24.60	1645.98	24.70	1645.76	24.80	1645.33	24.90	1645.18	25.00	1645.08	25.10	1645.08
25.20	1645.00	25.30	1644.84	25.40	1644.68	25.50	1644.17	25.60	1643.75	25.70	1643.60
25.80	1643.19	25.90	1643.00	26.00	1643.00	26.10	1643.00	26.20	1642.85	26.30	1642.52
26.40	1642.33	26.50	1642.00	26.60	1641.75	26.70	1641.55	26.80	1641.47	26.90	1641.44
27.00	1641.25	27.10	1641.17	27.20	1641.00	27.30	1640.70	27.40	1640.02	27.50	1640.00

27.60	1639.85	27.70	1639.68	27.80	1639.48	27.90	1639.00	28.00	1638.69	28.10	1638.43
28.20	1638.30	28.30	1638.00	28.40	1638.00	28.50	1637.58	28.60	1637.46	28.70	1637.20
28.80	1637.20	28.90	1637.12	29.00	1637.00	29.10	1636.30	29.20	1636.00	29.30	1636.00
29.40	1635.86	29.50	1635.57	29.60	1635.49	29.70	1635.36	29.80	1635.25	29.90	1635.00
30.00	1634.90	30.10	1634.58	30.20	1634.00	30.30	1633.74	30.40	1633.70	30.50	1633.13
30.60	1633.04	30.70	1633.00	30.80	1632.58	30.90	1632.15	31.00	1632.14	31.10	1632.09
31.20	1632.00	31.30	1632.00	31.40	1631.34	31.50	1631.17	31.60	1631.00	31.70	1630.20
31.80	1630.18	31.90	1630.17	32.00	1630.00	32.10	1629.94	32.20	1629.74	32.30	1629.61
32.40	1629.02	32.50	1629.00	32.60	1629.00	32.70	1628.87	32.80	1628.78	32.90	1628.00
33.00	1627.97	33.10	1627.86	33.20	1627.73	33.30	1627.63	33.40	1627.25	33.50	1627.00
33.60	1626.47	33.70	1626.39	33.80	1626.28	33.90	1626.00	34.00	1626.00	34.10	1625.87
34.20	1625.23	34.30	1625.00	34.40	1624.41	34.50	1624.07	34.60	1623.99	34.70	1623.76
34.80	1623.66	34.90	1623.54	35.00	1623.00	35.10	1623.00	35.20	1622.99	35.30	1622.75
35.40	1622.41	35.50	1622.00	35.60	1622.00	35.70	1621.51	35.80	1621.23	35.90	1621.00
36.00	1620.89	36.10	1620.81	36.20	1620.40	36.30	1620.03	36.40	1619.43	36.50	1618.77
36.60	1617.81	36.70	1617.46	36.80	1616.90	36.90	1615.38	37.00	1614.46	37.10	1614.29
37.20	1613.63	37.30	1611.53	37.40	1611.19	37.50	1610.98	37.60	1609.62	37.70	1609.61
37.80	1608.05	37.90	1607.86	38.00	1607.83	38.10	1607.63	38.20	1605.58	38.30	1604.92
38.40	1604.92	38.50	1603.77	38.60	1602.53	38.70	1602.27	38.80	1601.78	38.90	1600.57
39.00	1599.81	39.10	1598.65	39.20	1598.36	39.30	1597.67	39.40	1596.24	39.50	1596.15
39.60	1594.94	39.70	1594.94	39.80	1594.10	39.90	1592.73	40.00	1592.69	40.10	1591.52
40.20	1590.74	40.30	1590.48	40.40	1589.23	40.50	1589.08	40.60	1588.92	40.70	1587.06
40.80	1587.02	40.90	1586.82	41.00	1586.32	41.10	1586.17	41.20	1586.00	41.30	1585.89
41.40	1585.89	41.50	1585.84	41.60	1585.67	41.70	1585.65	41.80	1585.44	41.90	1585.41
42.00	1585.41	42.10	1585.38	42.20	1585.32	42.30	1585.28	42.40	1585.23	42.50	1585.10
42.60	1585.07	42.70	1585.00	42.80	1585.00	42.90	1585.00	43.00	1585.00	43.10	1585.00
43.20	1585.00	43.30	1585.00	43.40	1585.00	43.50	1585.00	43.60	1585.00	43.70	1585.00
43.80	1585.00	43.90	1585.00	44.00	1585.00	44.10	1585.00	44.20	1585.00	44.30	1585.00
44.40	1585.00	44.50	1585.00	44.60	1585.00	44.70	1585.00	44.80	1585.00	44.90	1585.00
45.00	1585.00	45.10	1585.00	45.20	1585.00	45.30	1585.00	45.40	1585.00	45.50	1585.00
45.60	1585.00	45.70	1585.00	45.80	1585.00	45.90	1585.00	46.00	1585.00	46.10	1585.00
46.20	1585.00	46.30	1585.00	46.40	1585.00	46.50	1585.00	46.60	1585.00	46.70	1585.00
46.80	1585.00	46.90	1585.00	47.00	1585.00	47.10	1585.00	47.20	1585.00	47.30	1585.00
47.40	1585.00	47.50	1585.00	47.60	1584.98	47.70	1584.98	47.80	1584.94	47.90	1584.94
48.00	1584.87	48.10	1584.80	48.20	1584.74	48.30	1584.49	48.40	1584.27	48.50	1584.19
48.60	1584.02	48.70	1584.00	48.80	1583.88	48.90	1583.78	49.00	1583.76	49.10	1583.50
49.20	1583.33	49.30	1583.22	49.40	1583.17	49.50	1583.10	49.60	1583.00	49.70	1583.00
49.80	1582.70	49.90	1582.56	50.00	1582.53	50.10	1582.45	50.20	1582.06	50.30	1582.00
50.40	1581.88	50.50	1581.62	50.60	1581.50	50.70	1581.48	50.80	1581.30	50.90	1581.17
51.00	1581.00	51.10	1580.80	51.20	1580.66	51.30	1580.40	51.40	1580.15	51.50	1580.09
51.60	1580.04	51.70	1580.00	51.80	1580.00	51.90	1579.99	52.00	1579.65	52.10	1579.32
52.20	1579.09	52.30	1579.07	52.40	1578.46	52.50	1578.44	52.60	1578.24	52.70	1577.81
52.80	1577.18	52.90	1576.98	53.00	1576.84	53.10	1576.19	53.20	1575.94	53.30	1575.92
53.40	1575.66	53.50	1574.73	53.60	1574.00	53.70	1572.92	53.80	1571.91	53.90	1571.84
54.00	1570.81	54.10	1570.38	54.20	1569.75	54.30	1568.60	54.40	1567.14	54.50	1566.72
54.60	1566.11	54.70	1565.69	54.80	1564.67	54.90	1563.64	55.00	1562.45	55.10	1562.38
55.20	1562.29	55.30	1561.13	55.40	1561.03	55.50	1561.00	55.60	1558.80	55.70	1556.31
55.80	1553.34	55.90	1550.91	56.00	1548.13	56.10	1545.59	56.20	1543.43	56.30	1541.08
56.40	1538.94	56.50	1536.81	56.60	1533.73	56.70	1531.62	56.80	1529.48	56.90	1527.32
57.00	1525.16	57.10	1524.00	57.20	1524.00	57.30	1524.00	57.40	1524.00	57.50	1524.00

57.60	1524.00	57.70	1524.00	57.80	1524.00	57.90	1523.78	58.00	1521.77	58.10	1518.83
58.20	1515.65	58.30	1512.91	58.40	1510.81	58.50	1508.75	58.60	1507.29	58.70	1505.49
58.80	1504.23	58.90	1503.20	59.00	1502.17	59.10	1500.15	59.20	1498.95	59.30	1497.09
59.40	1495.74	59.50	1493.81	59.60	1492.02	59.70	1490.22	59.80	1488.70	59.90	1487.11
60.00	1485.53	60.10	1485.10	60.20	1485.01	60.30	1483.88	60.40	1483.31	60.50	1482.67
60.60	1480.81	60.70	1480.21	60.80	1479.59	60.90	1477.54	61.00	1477.02	61.10	1475.77
61.20	1474.76	61.30	1473.74	61.40	1473.30	61.50	1472.40	61.60	1472.35	61.70	1472.11
61.80	1471.86	61.90	1471.80	62.00	1471.60	62.10	1471.56	62.20	1471.51	62.30	1471.49
62.40	1471.41	62.50	1471.25	62.60	1471.24	62.70	1470.92	62.80	1470.87	62.90	1470.87
63.00	1470.85	63.10	1470.48	63.20	1470.23	63.30	1470.07	63.40	1469.17	63.50	1469.14
63.60	1468.22	63.70	1468.09	63.80	1467.47	63.90	1467.33	64.00	1467.03	64.10	1466.43
64.20	1466.24	64.30	1465.73	64.40	1465.20	64.50	1465.00	64.60	1585.00	64.70	1585.00
64.80	1585.00	64.90	1585.00	65.00	1579.07	65.10	1571.91	65.20	1566.72	65.30	1562.45
65.40	1558.80	65.50	1556.31	65.60	1553.34	65.70	1550.91	65.80	1548.13	65.90	1545.59
66.00	1543.43	66.10	1541.08	66.20	1538.94	66.30	1536.81	66.40	1533.73	66.50	1531.62
66.60	1529.48	66.70	1527.32	66.80	1525.16	66.90	1524.00	67.00	1524.00	67.10	1524.00
67.20	1524.00	67.30	1524.00	67.40	1524.00	67.50	1524.00	67.60	1524.00	67.70	1523.78
67.80	1521.77	67.90	1518.83	68.00	1515.65	68.10	1512.91	68.20	1510.81	68.30	1508.75
68.40	1507.29	68.50	1505.49	68.60	1504.23	68.70	1503.20	68.80	1502.17	68.90	1500.15
69.00	1498.95	69.10	1497.09	69.20	1495.74	69.30	1493.81	69.40	1492.02	69.50	1490.22
69.60	1488.70	69.70	1487.11	69.80	1485.10	69.90	1483.88	70.00	1482.67	70.10	1480.81
70.20	1479.59	70.30	1477.54	70.40	1475.77	70.50	1474.76	70.60	1473.30	70.70	1472.35
70.80	1471.86	70.90	1471.56	71.00	1471.41	71.10	1470.87	71.20	1470.87	71.30	1471.49
71.40	1471.51	71.50	1471.25	71.60	1471.80	71.70	1472.40	71.80	1472.11	71.90	1471.60
72.00	1471.24	72.10	1470.85	72.20	1470.92	72.30	1470.23	72.40	1470.07	72.50	1469.17
72.60	1469.14	72.70	1468.22	72.80	1468.09	72.90	1467.33	73.00	1467.03	73.10	1466.43
73.20	1466.24	73.30	1465.73	73.40	1465.20	73.50	1465.00	73.60	1467.47	73.70	1470.48
73.80	1473.74	73.90	1477.02	74.00	1480.21	74.10	1483.31	74.20	1485.01	74.30	1485.53
74.40	1486.68										