

## Exhibit G – Transmit EIRP Density Plots and Tables

### Plot Notes:

Blue trace is co-polarization EIRP density plot

Brown trace is cross-polarization EIRP density plot

Dotted red line is FCC 25.138 FCC co-polarization EIRP density mask

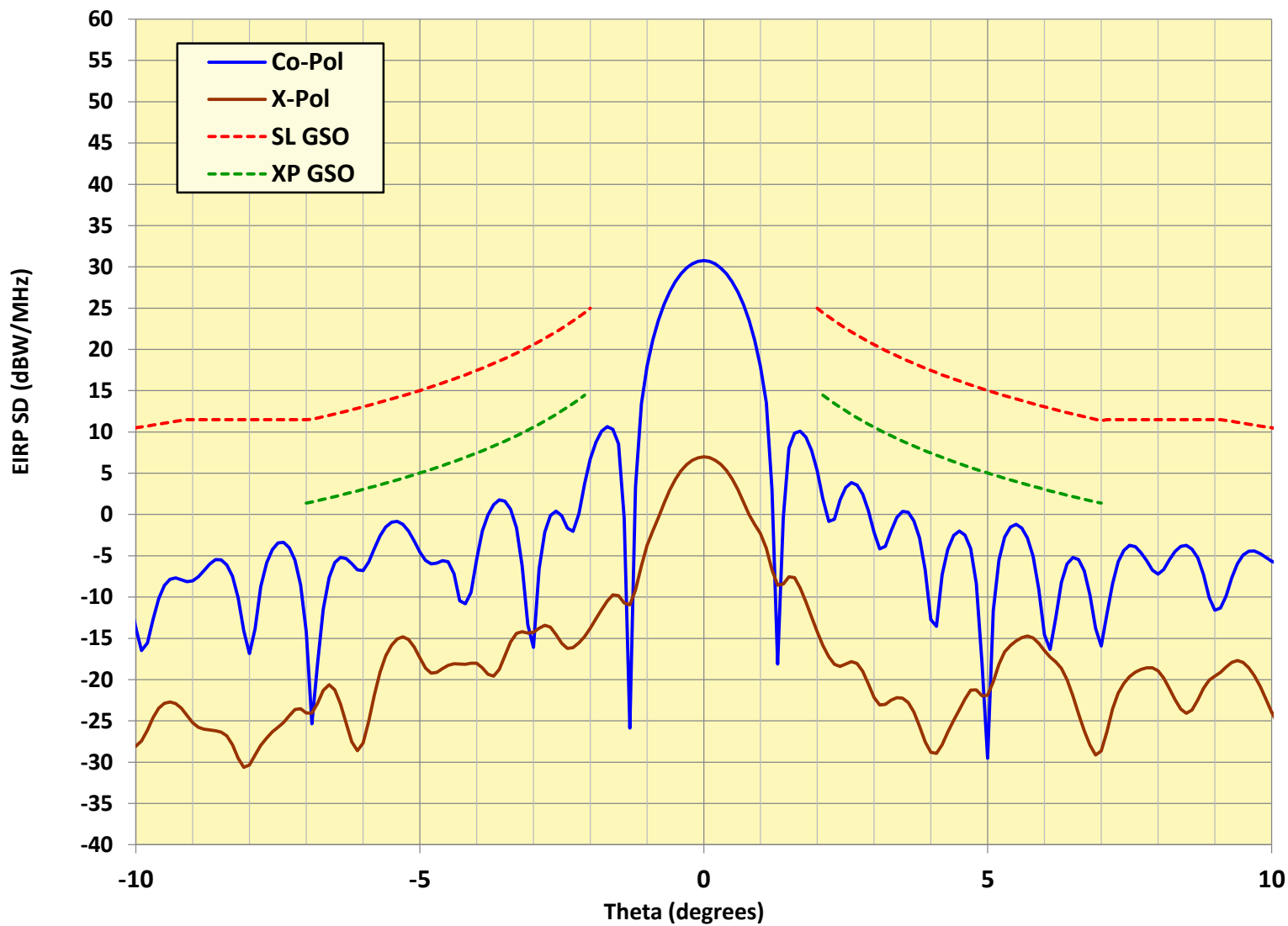
Dotted green line is FCC 25.138 FCC cross-polarization EIRP density mask

## Table of Contents

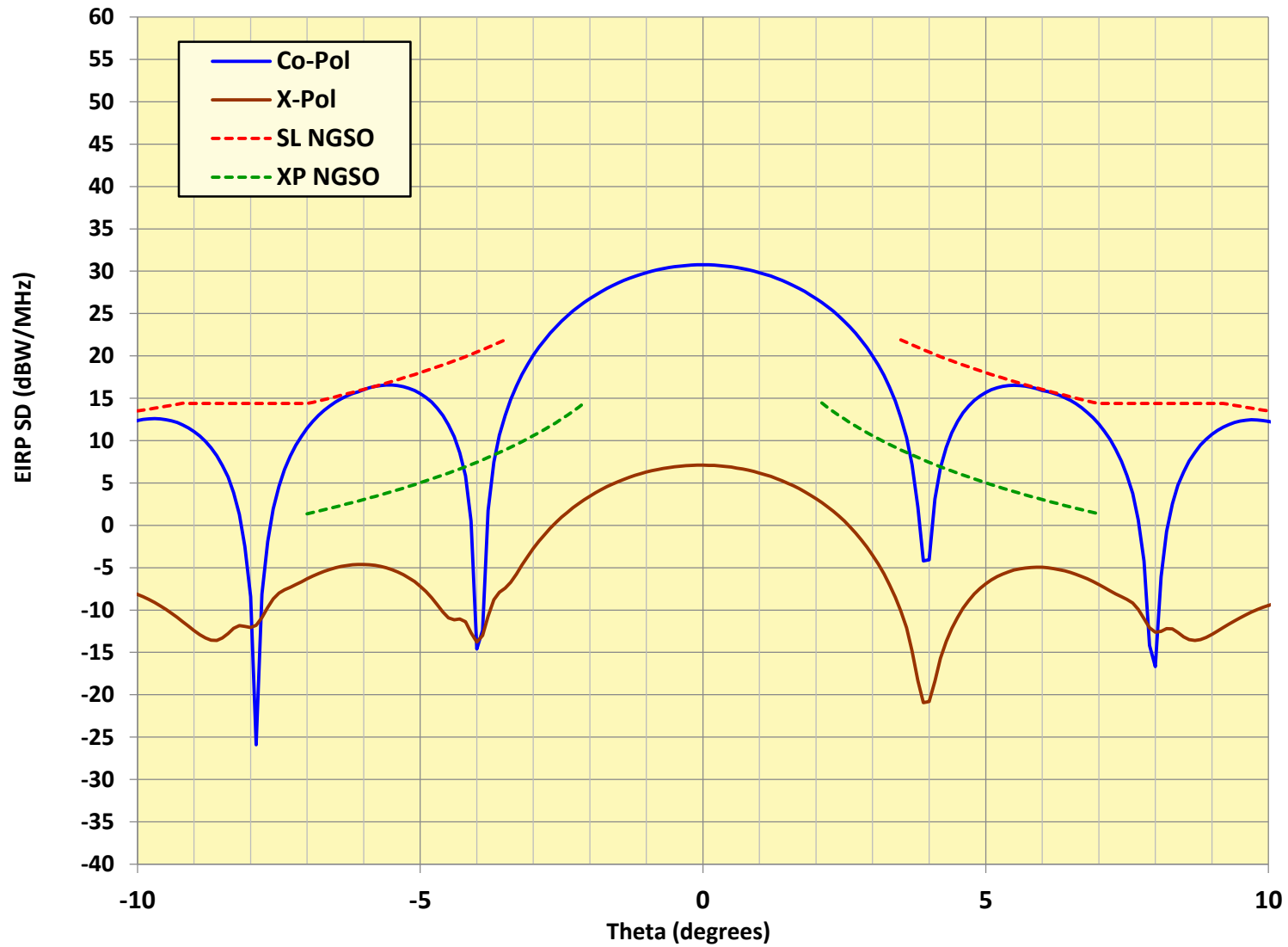
|   |              |
|---|--------------|
| <b>28.5 GHz at 0° Skew Angle .....</b>  | <b>G-3</b>   |
| <b>28.5 GHz at 35° Skew Angle .....</b> | <b>G-12</b>  |
| <b>28.5 GHz at 65° Skew Angle .....</b> | <b>G-21</b>  |
| <b>29.5 GHz at 0° Skew Angle .....</b>  | <b>G-30</b>  |
| <b>29.5 GHz at 35° Skew Angle .....</b> | <b>G-39</b>  |
| <b>29.5 GHz at 65° Skew Angle .....</b> | <b>G-48</b>  |
| <b>30 GHz at 0° Skew Angle .....</b>    | <b>G-57</b>  |
| <b>30 GHz at 35° Skew Angle .....</b>   | <b>G-66</b>  |
| <b>30 GHz at 65° Skew Angle .....</b>   | <b>G-75</b>  |
| <b>28.5 GHz Raw Data .....</b>          | <b>G-84</b>  |
| <b>29.5 GHz Raw Data .....</b>          | <b>G-94</b>  |
| <b>30 GHz Raw Data .....</b>            | <b>G-106</b> |

## **28.5 GHz at 0° Skew Angle**

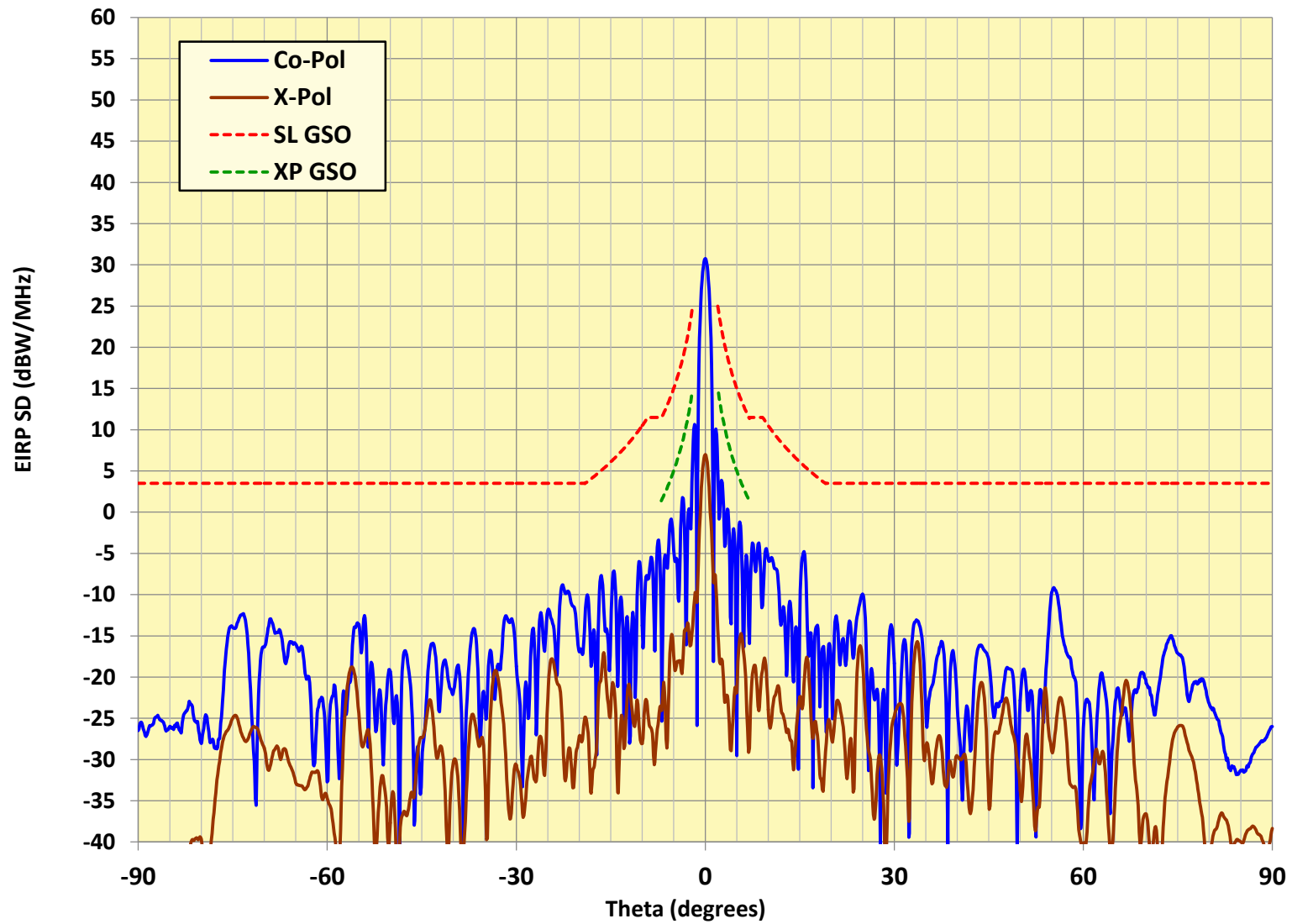
Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



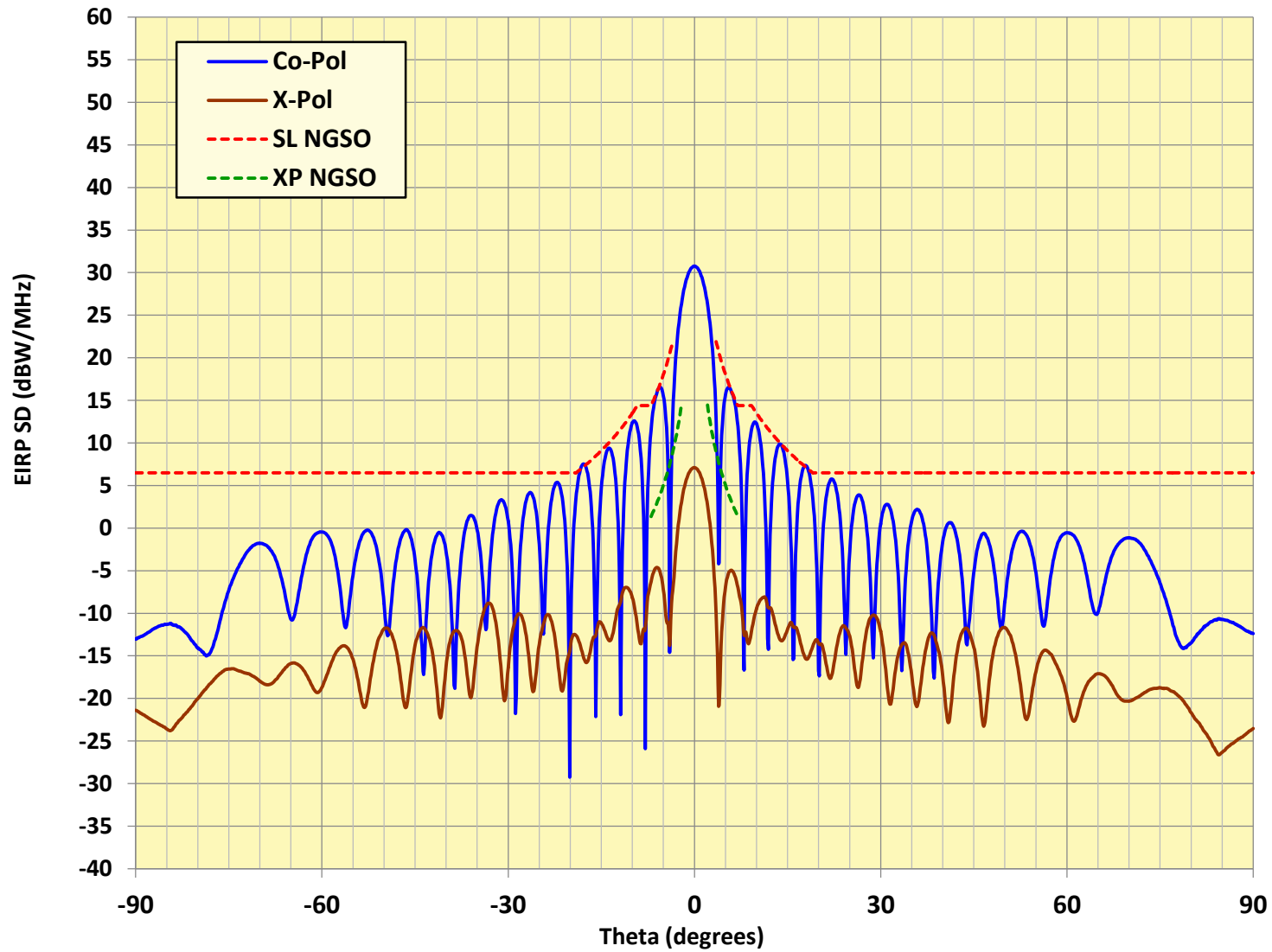
Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



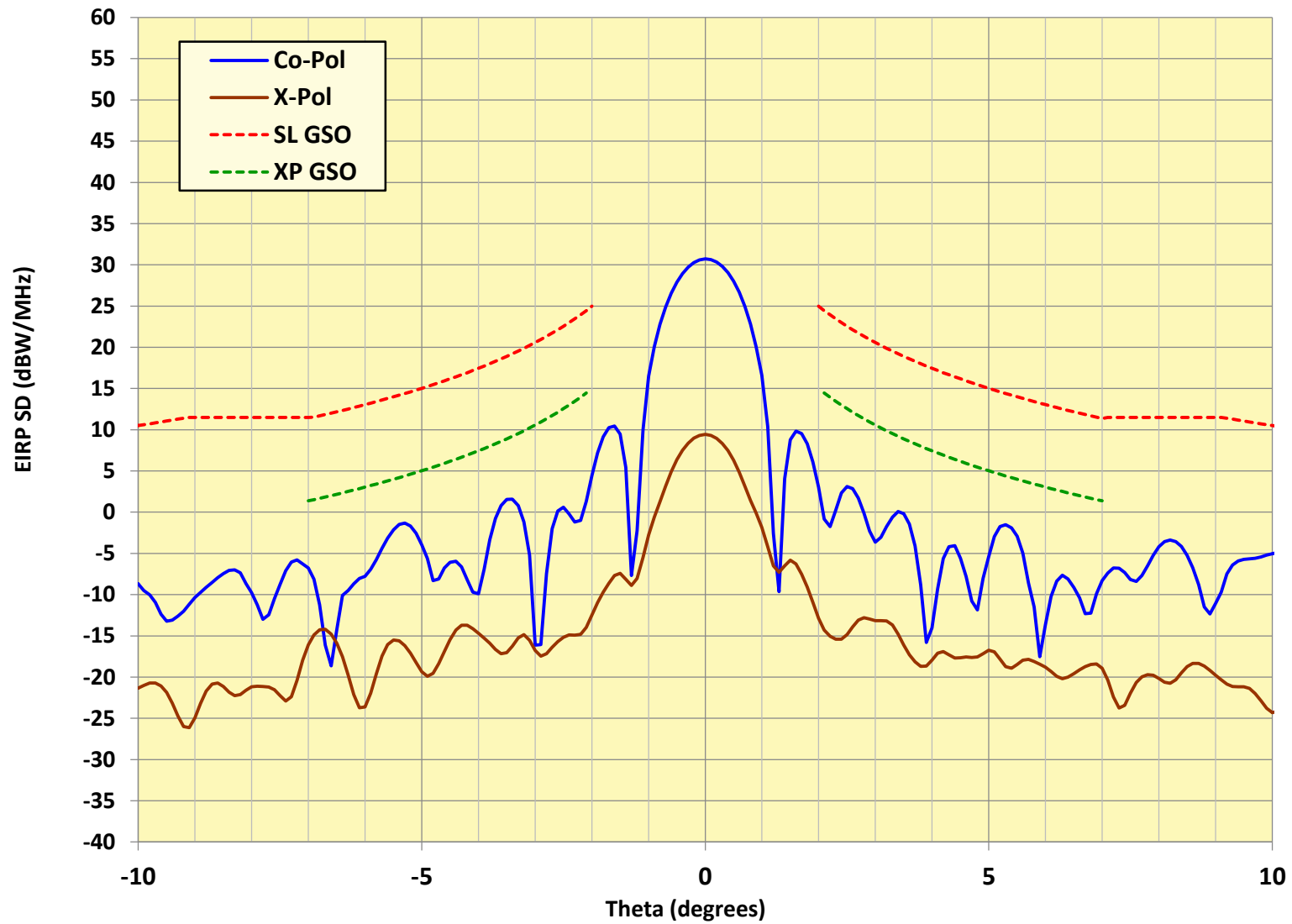
Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz

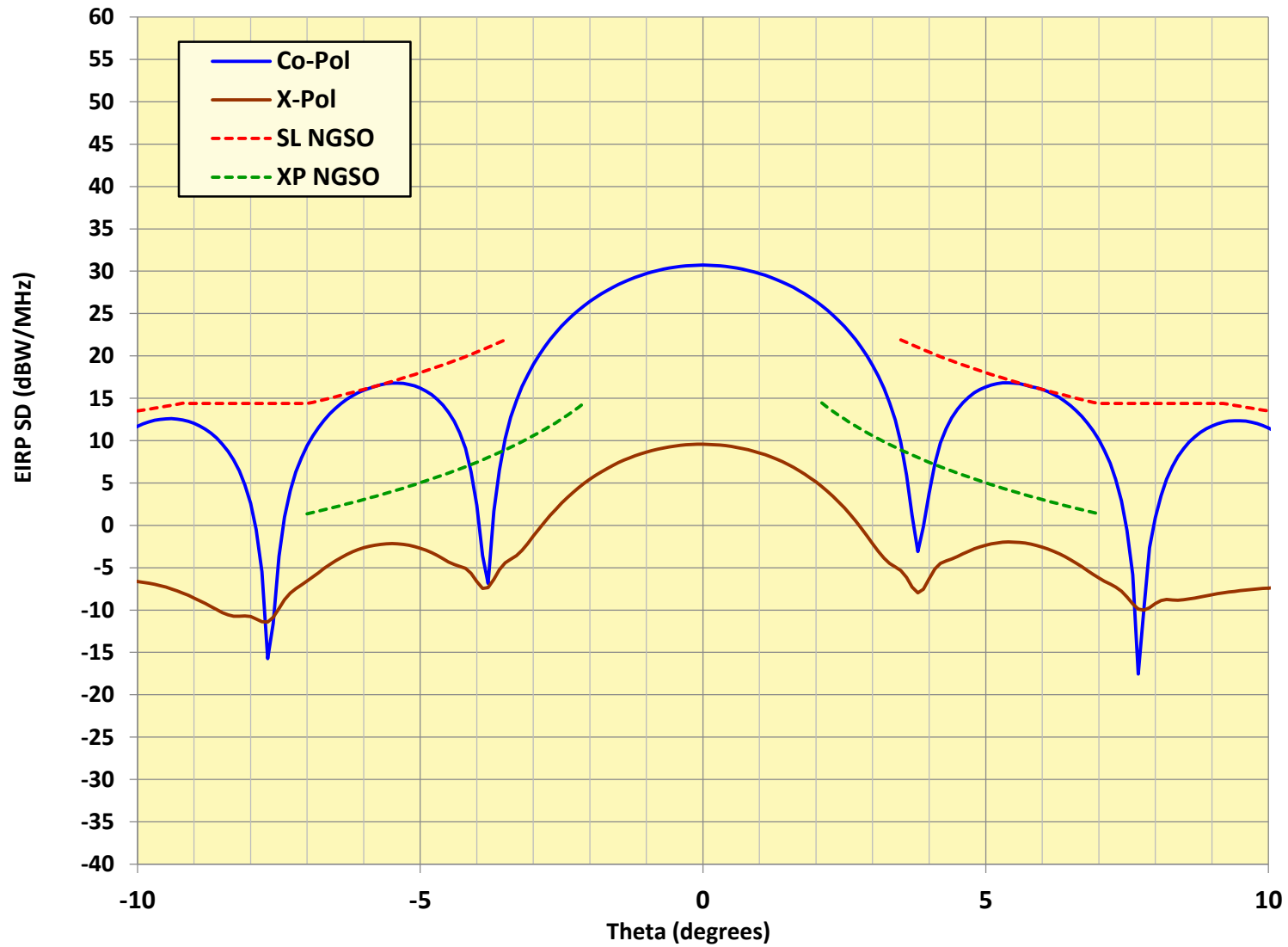


Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz

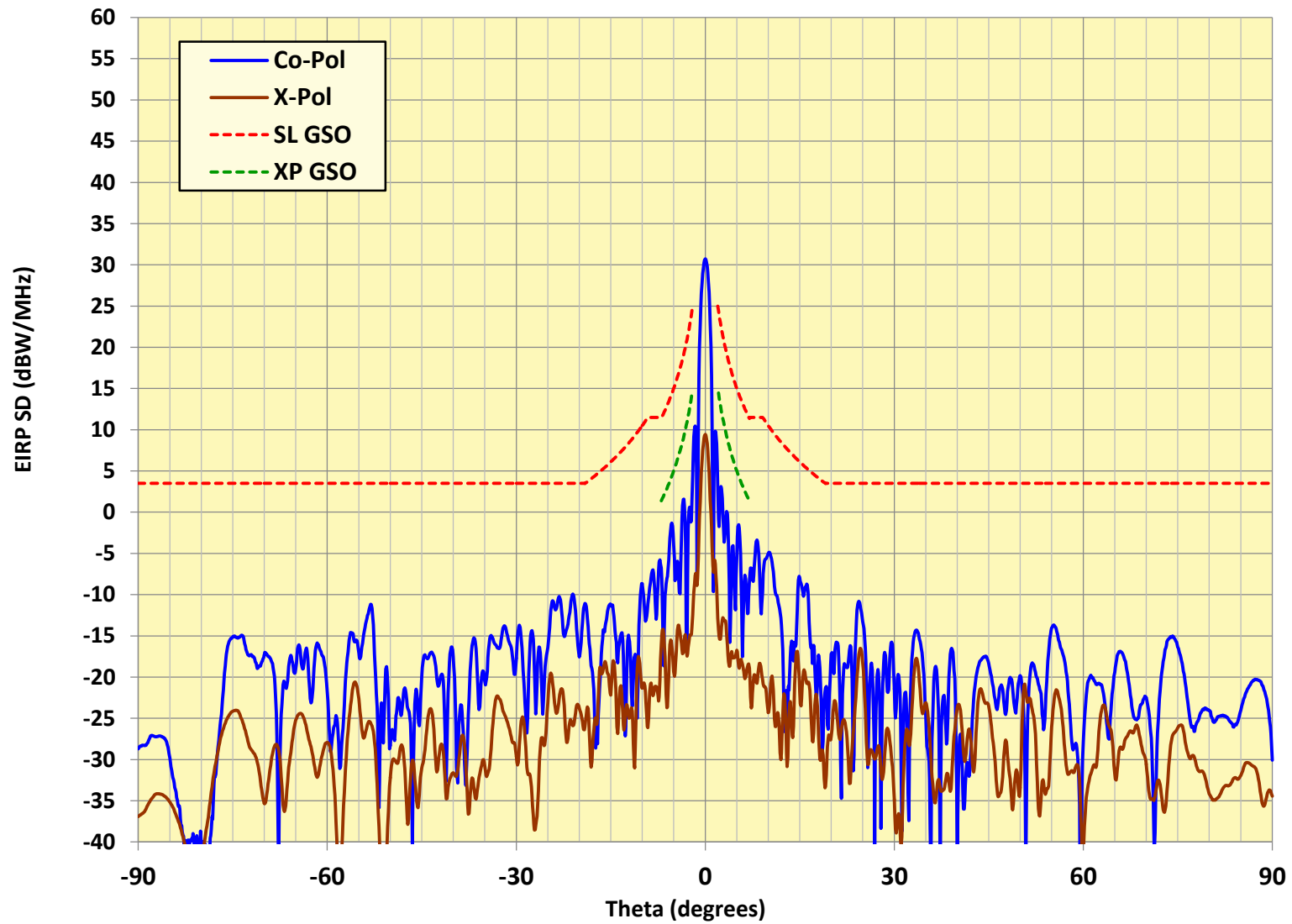




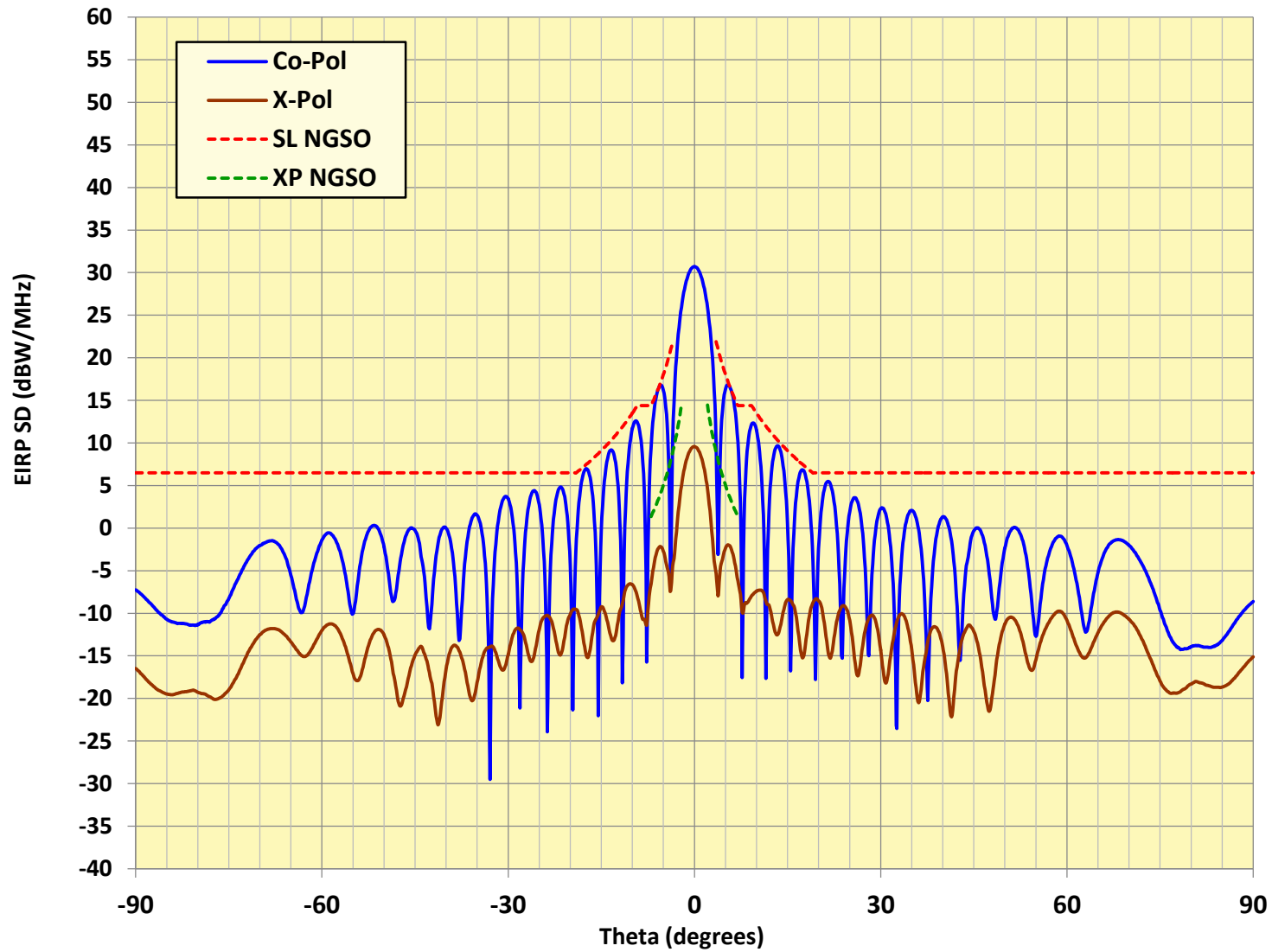
Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz



Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz

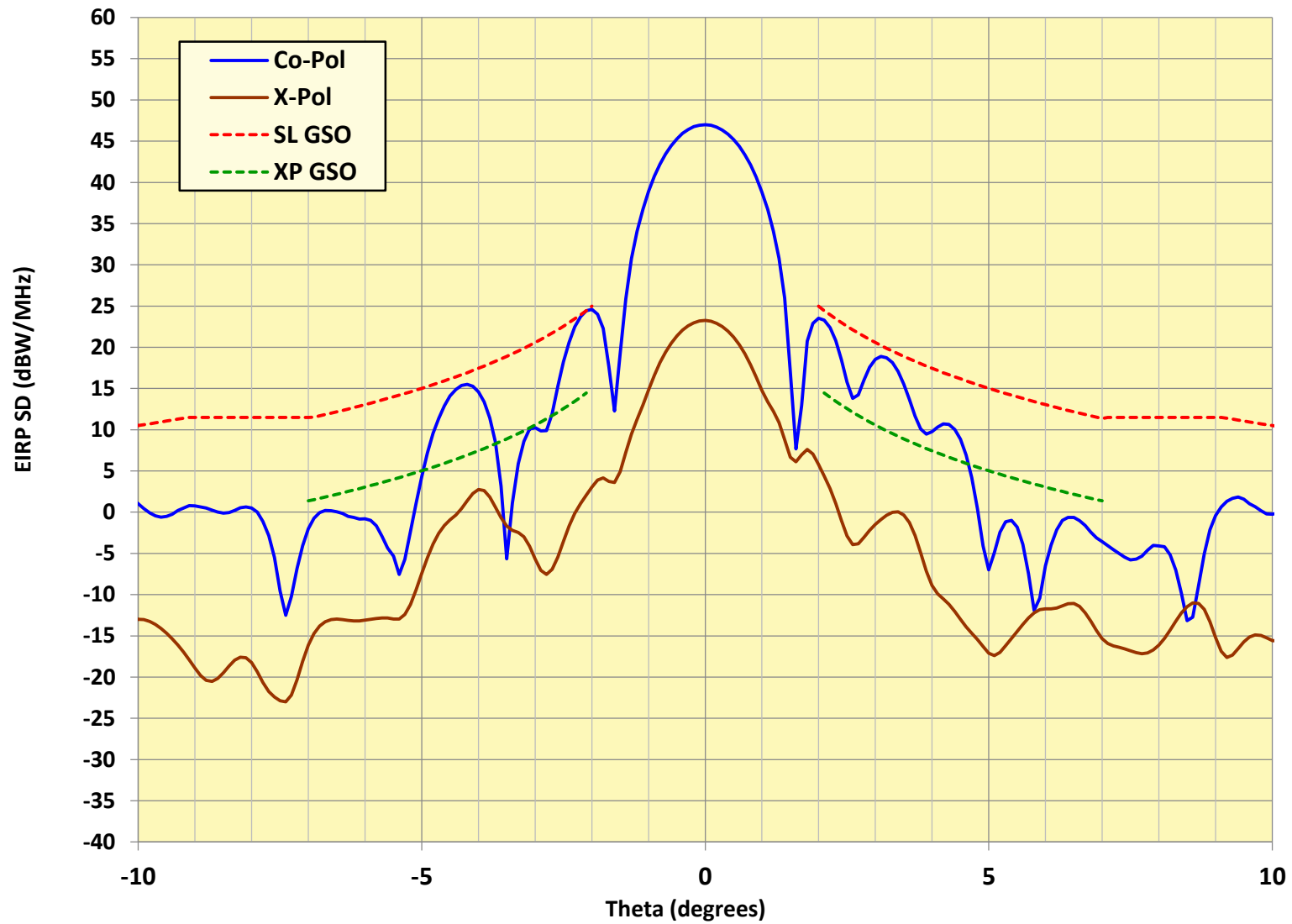


Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz

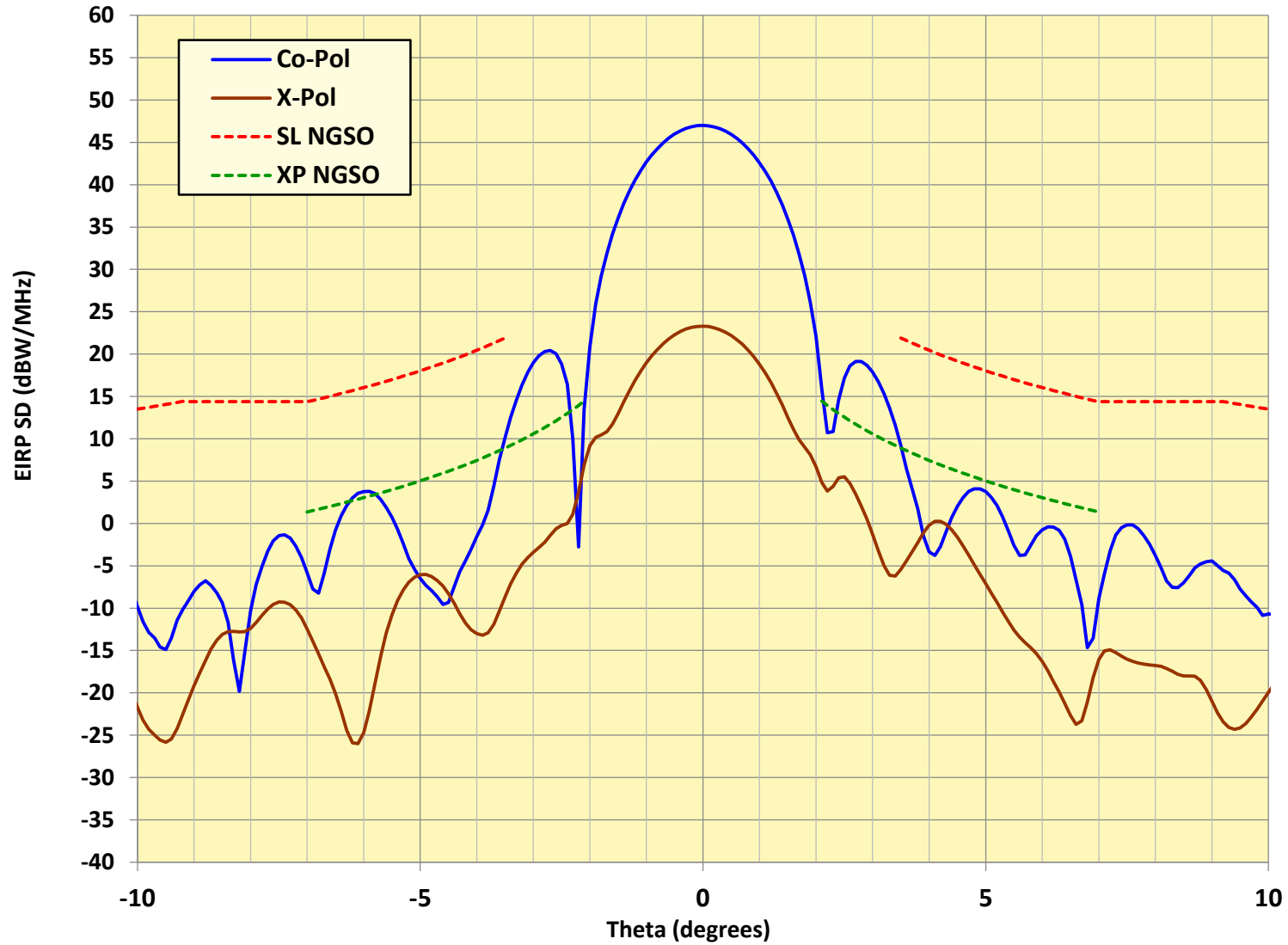


## **28.5 GHz at 35° Skew Angle**

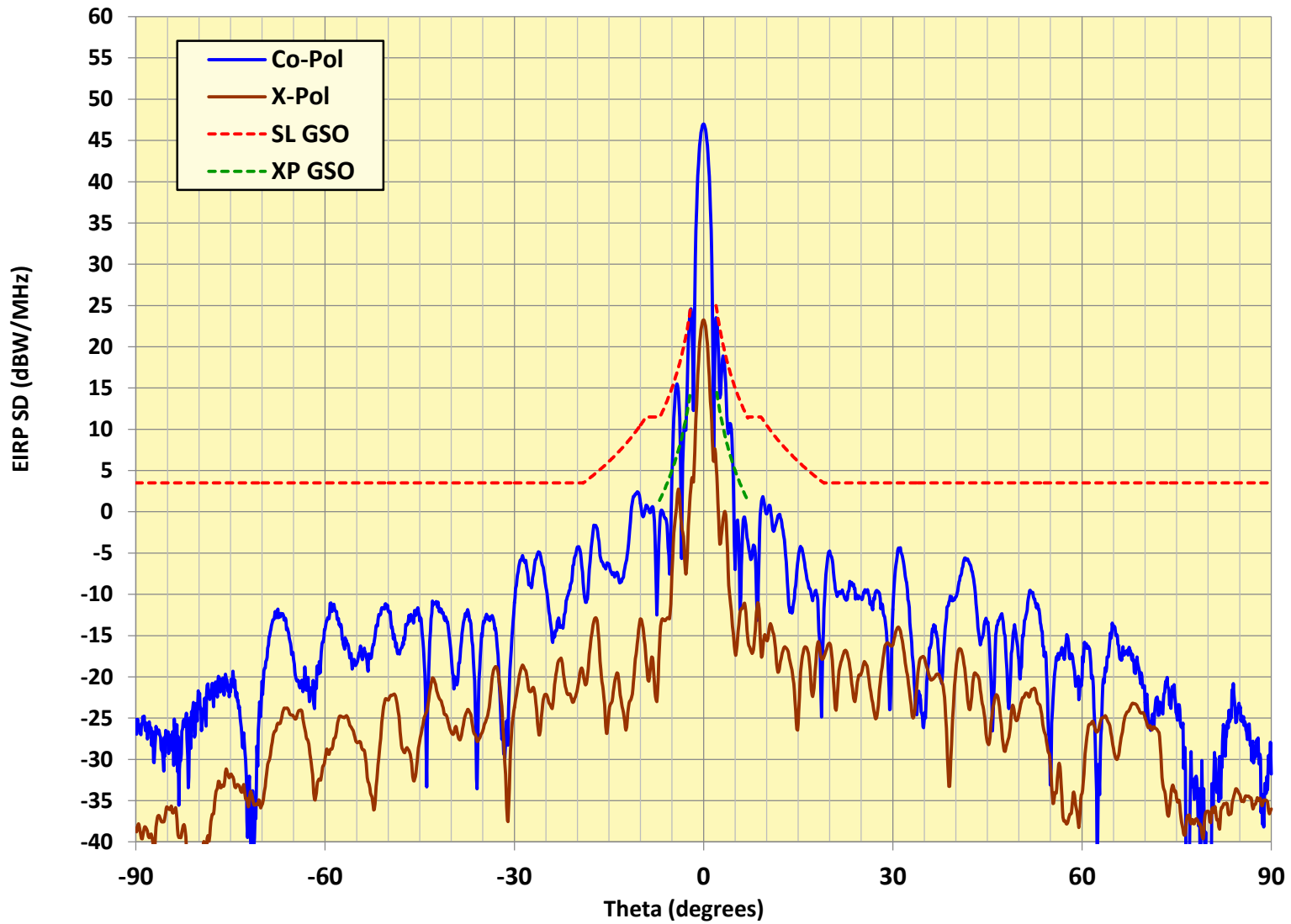
Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.0dBW/MHz



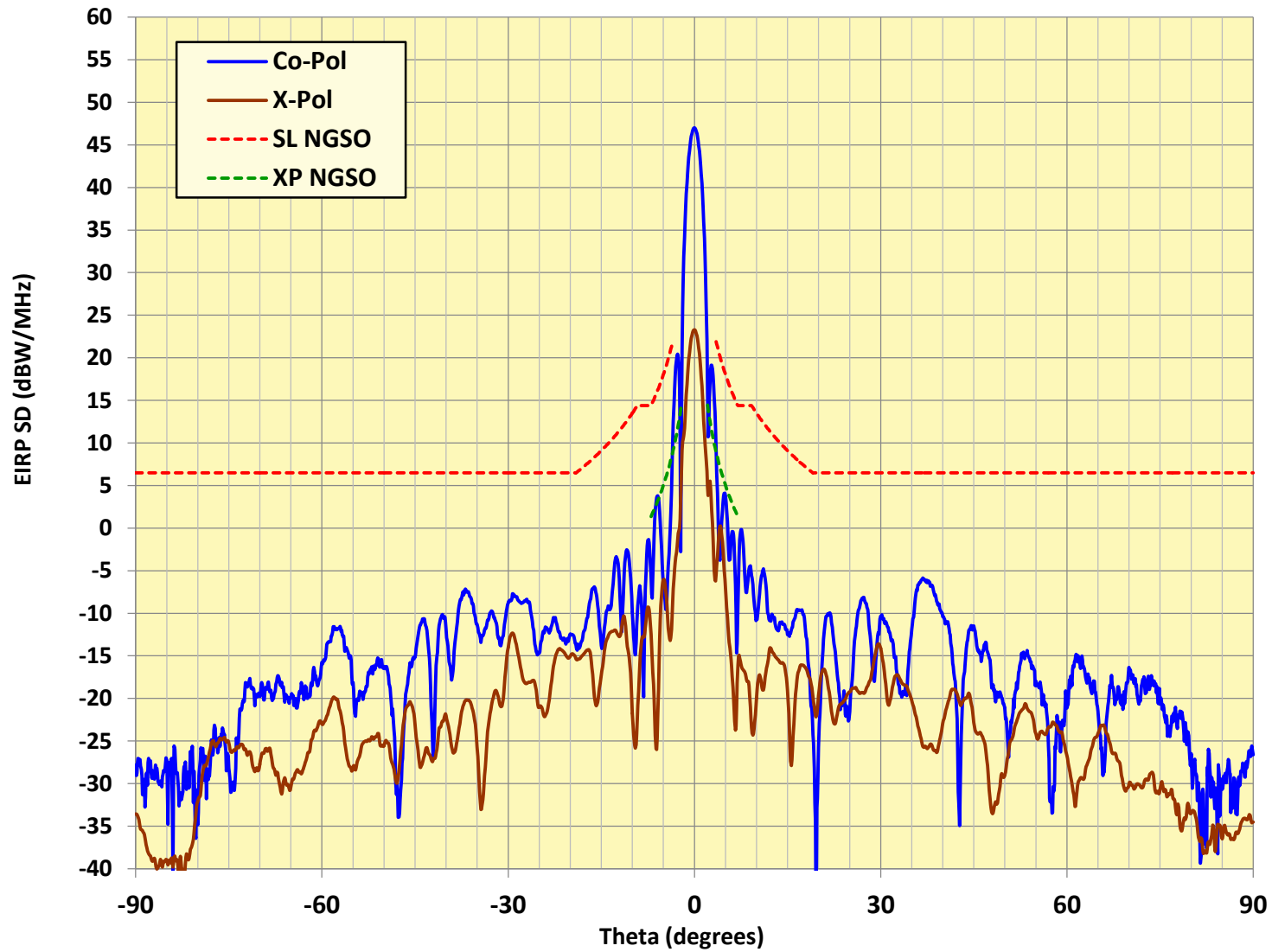
Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.0dBW/MHz



Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.0dBW/MHz

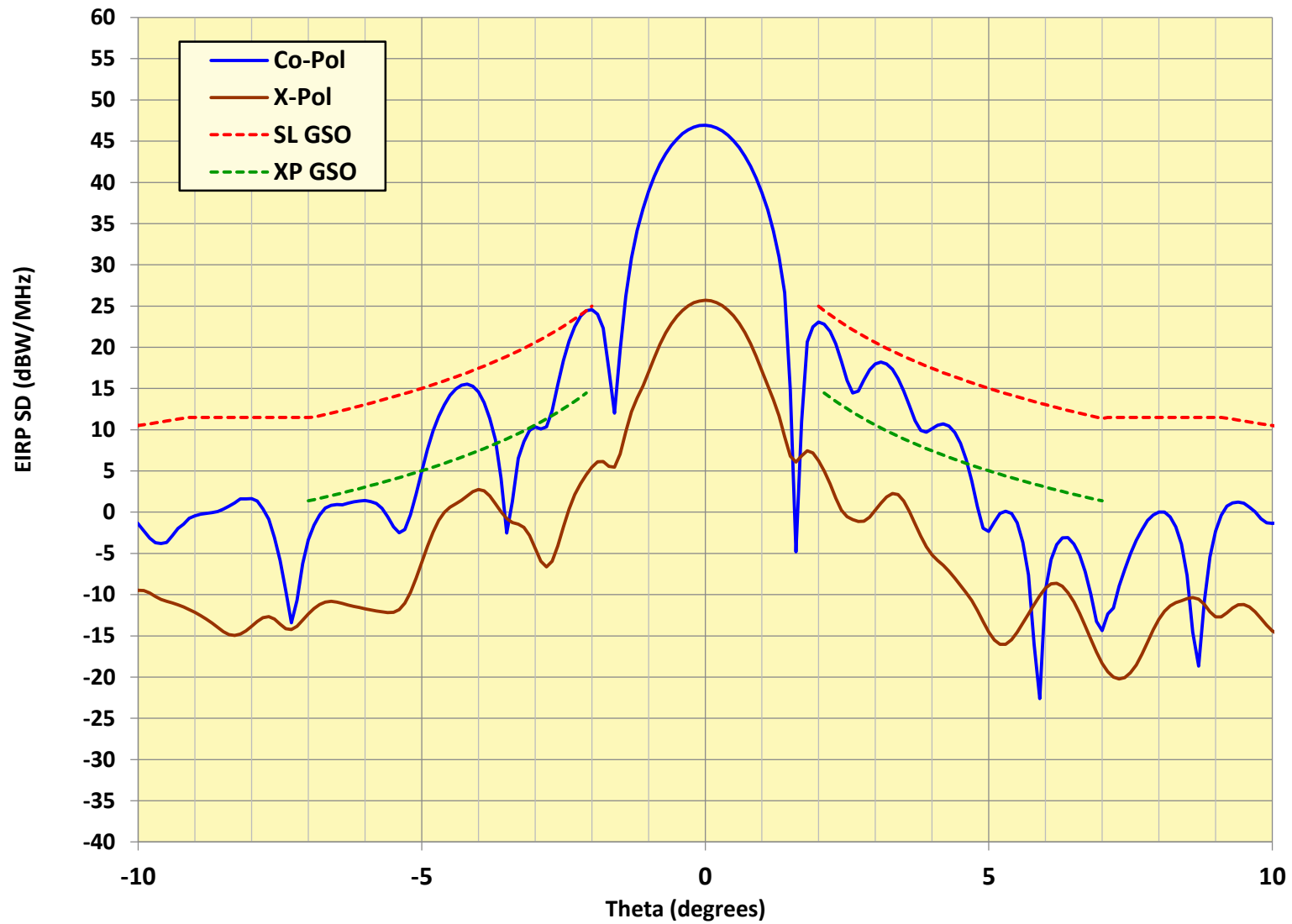


Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.0dBW/MHz

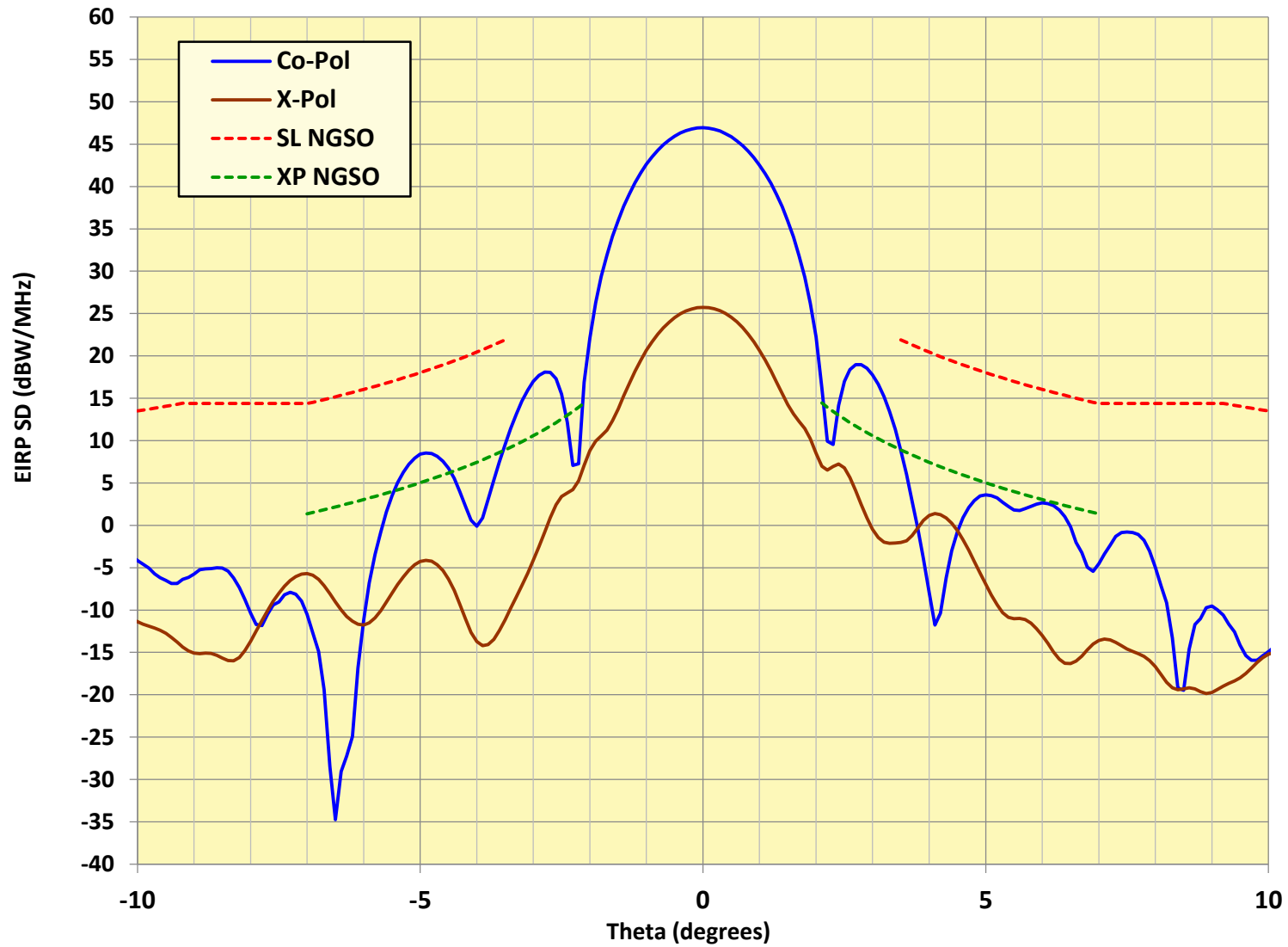




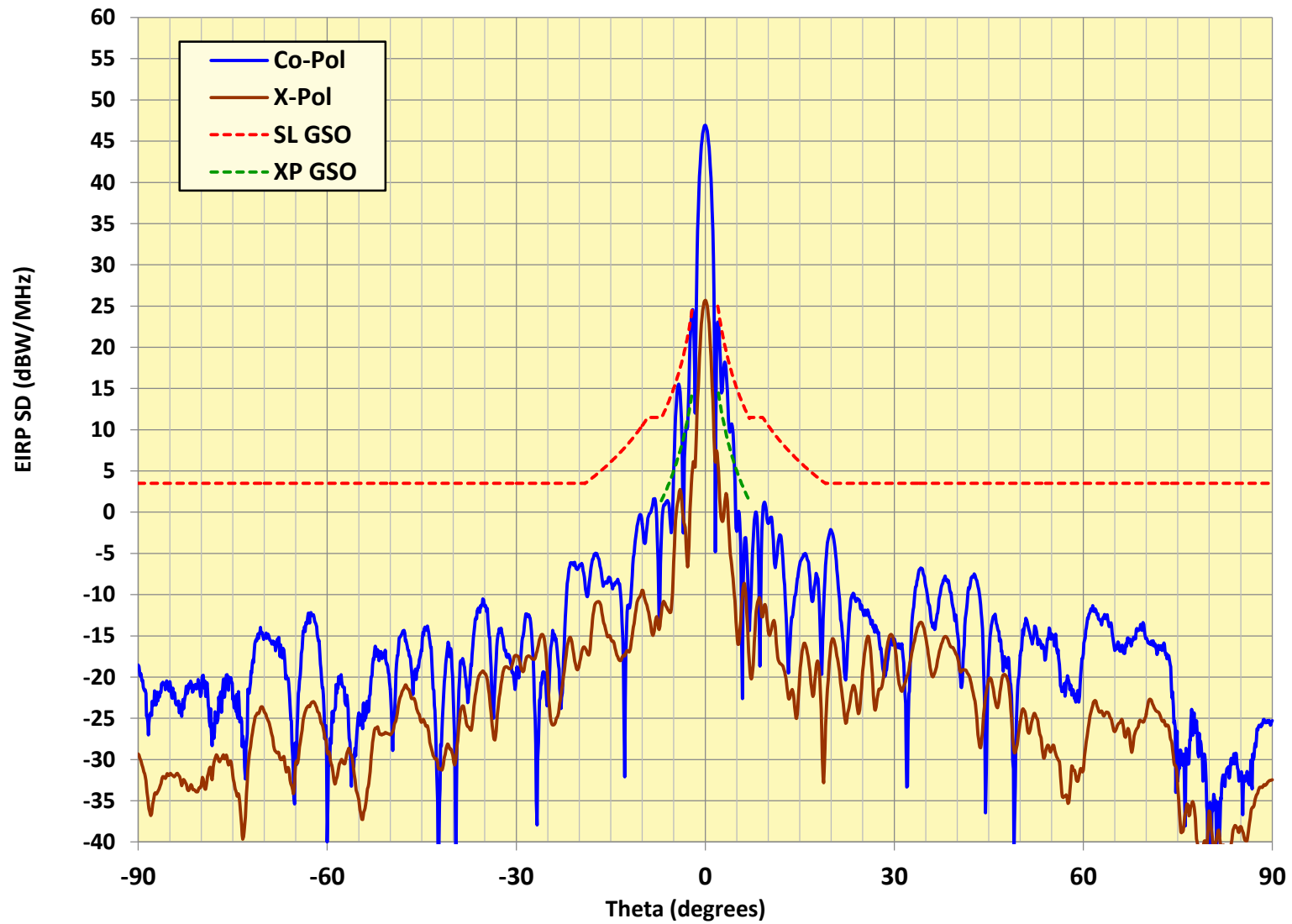
Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 46.9dBW/MHz



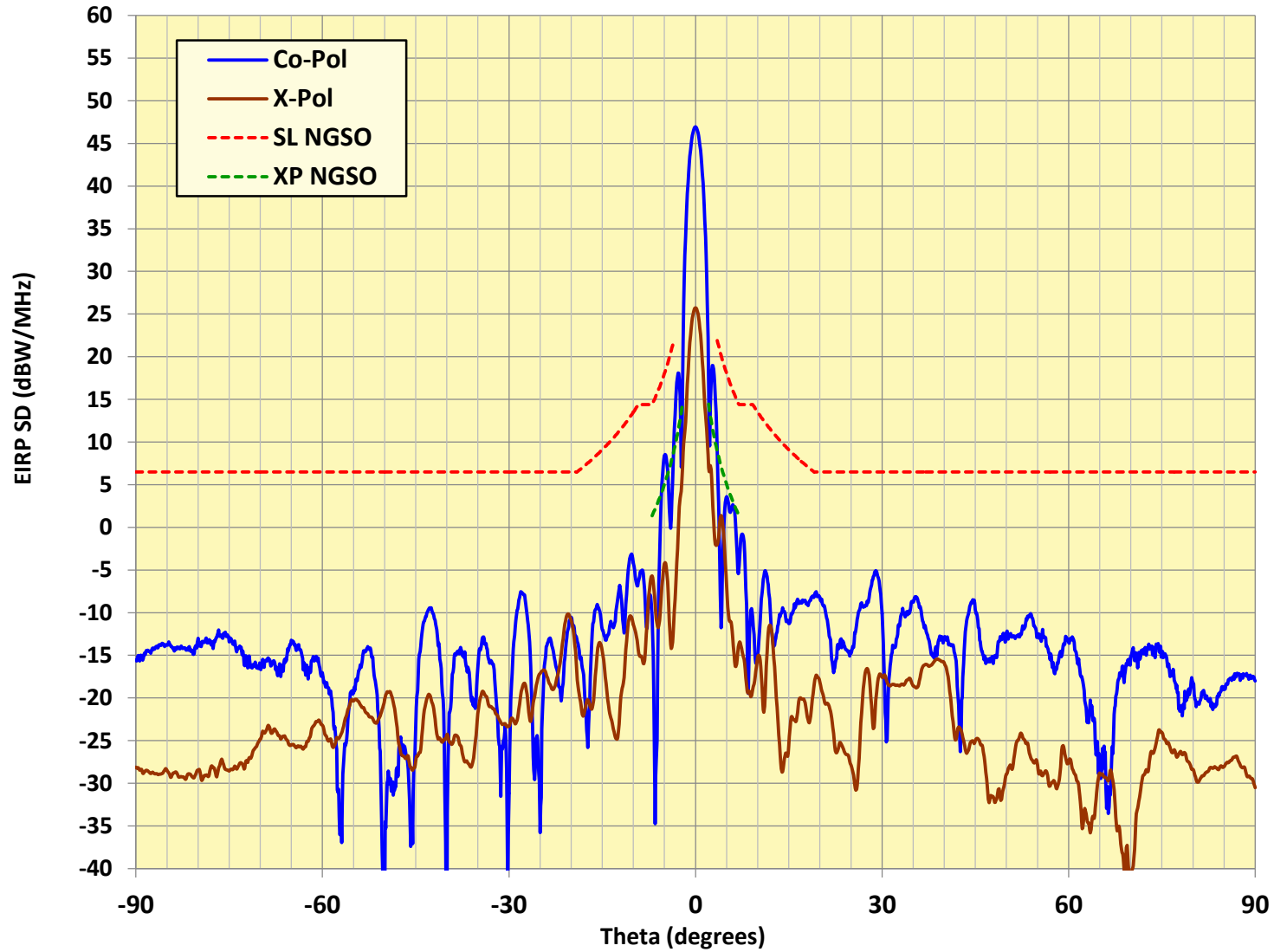
Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 46.9dBW/MHz



Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 46.9dBW/MHz

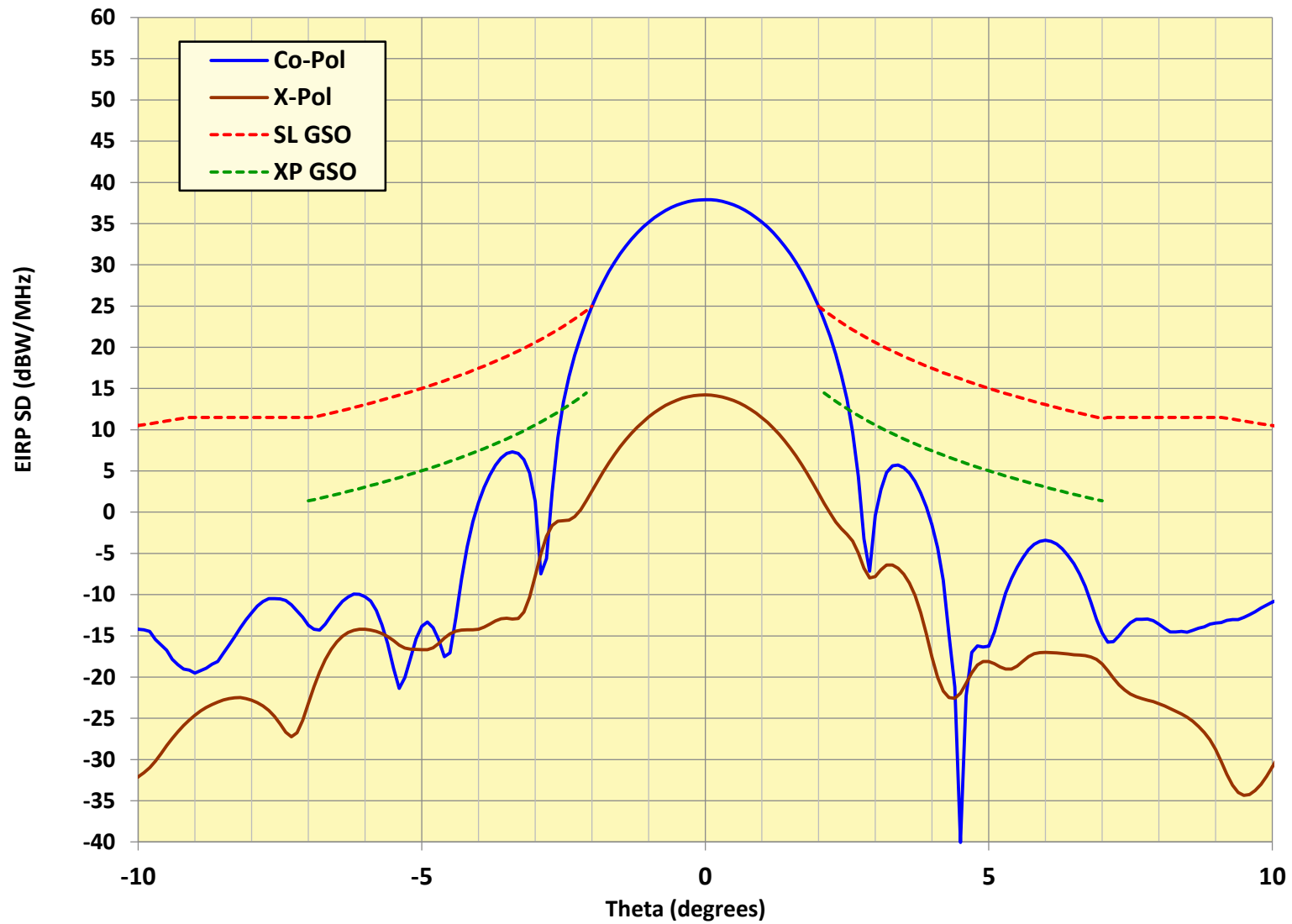


Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 46.9dBW/MHz

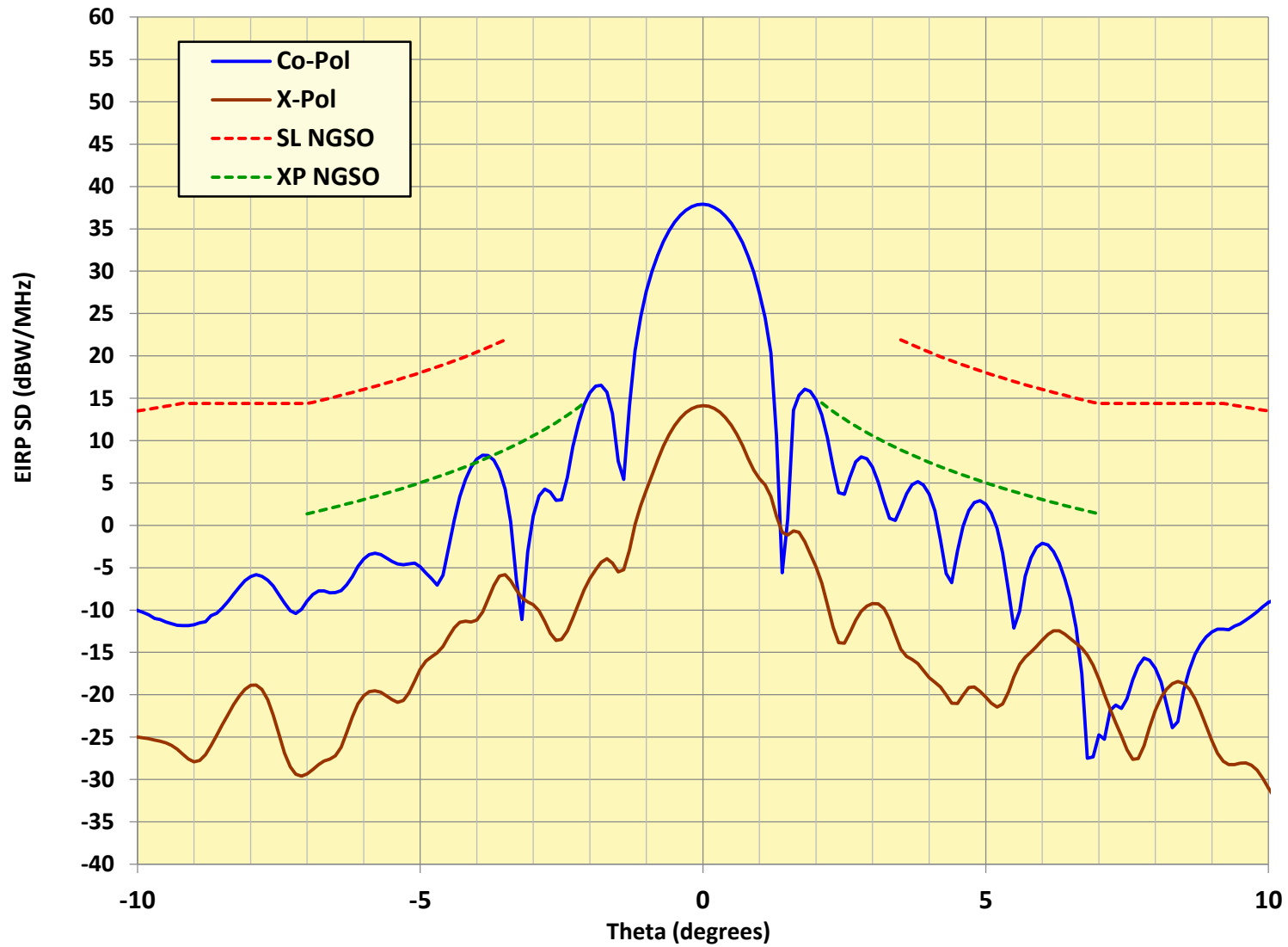


## **28.5 GHz at 65° Skew Angle**

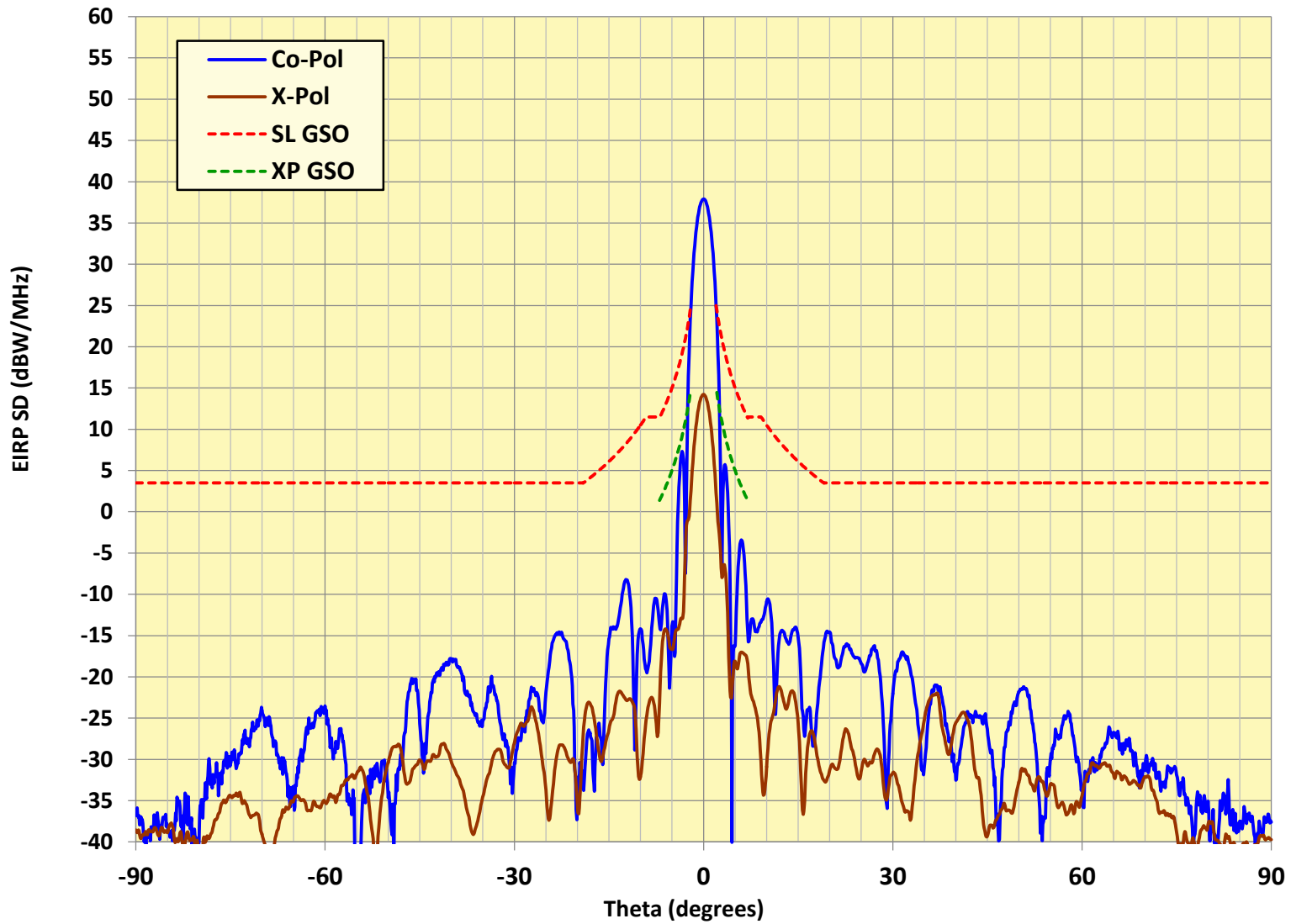
Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 37.9dBW/MHz



Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 37.9dBW/MHz

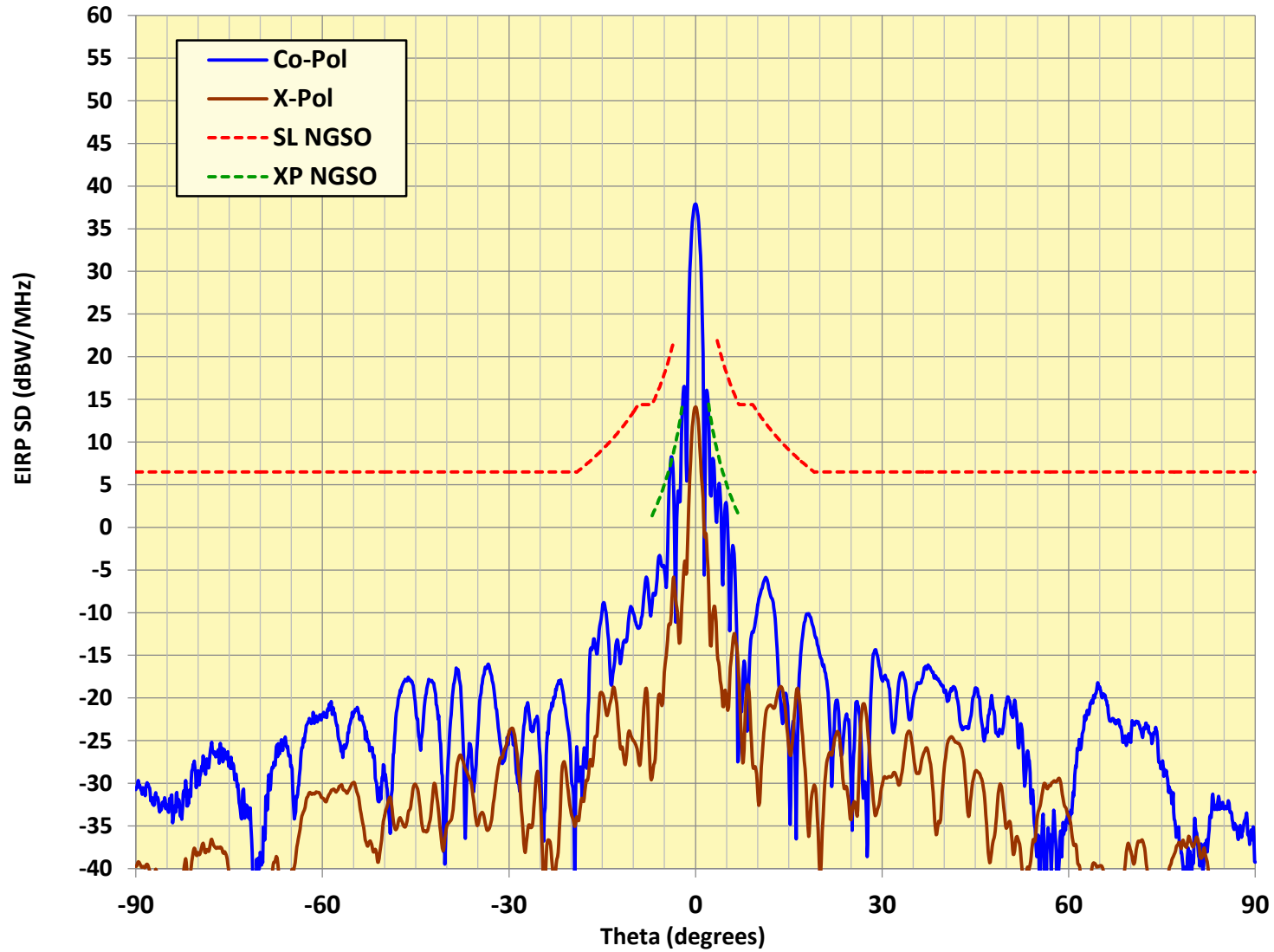


Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 37.9dBW/MHz

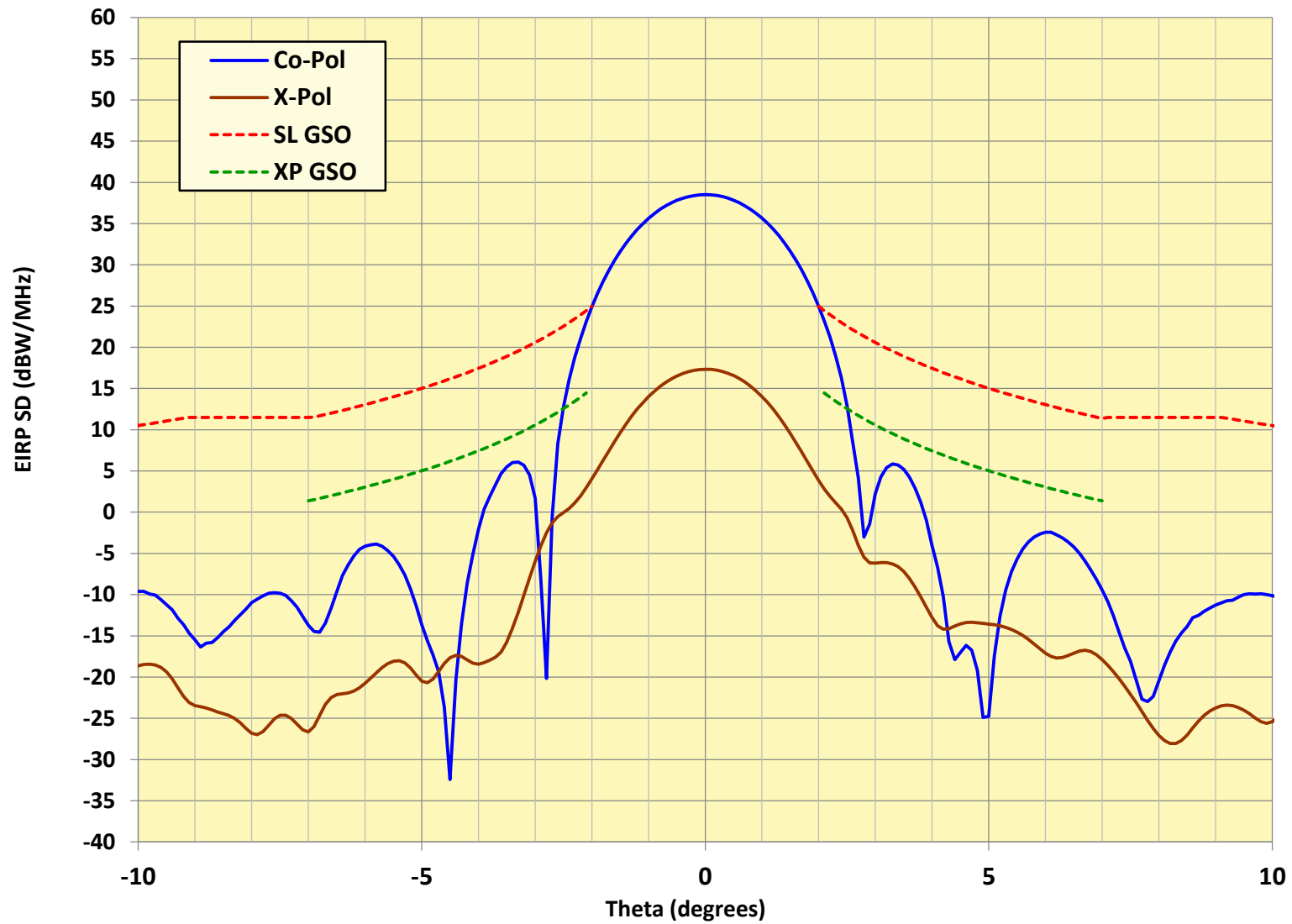




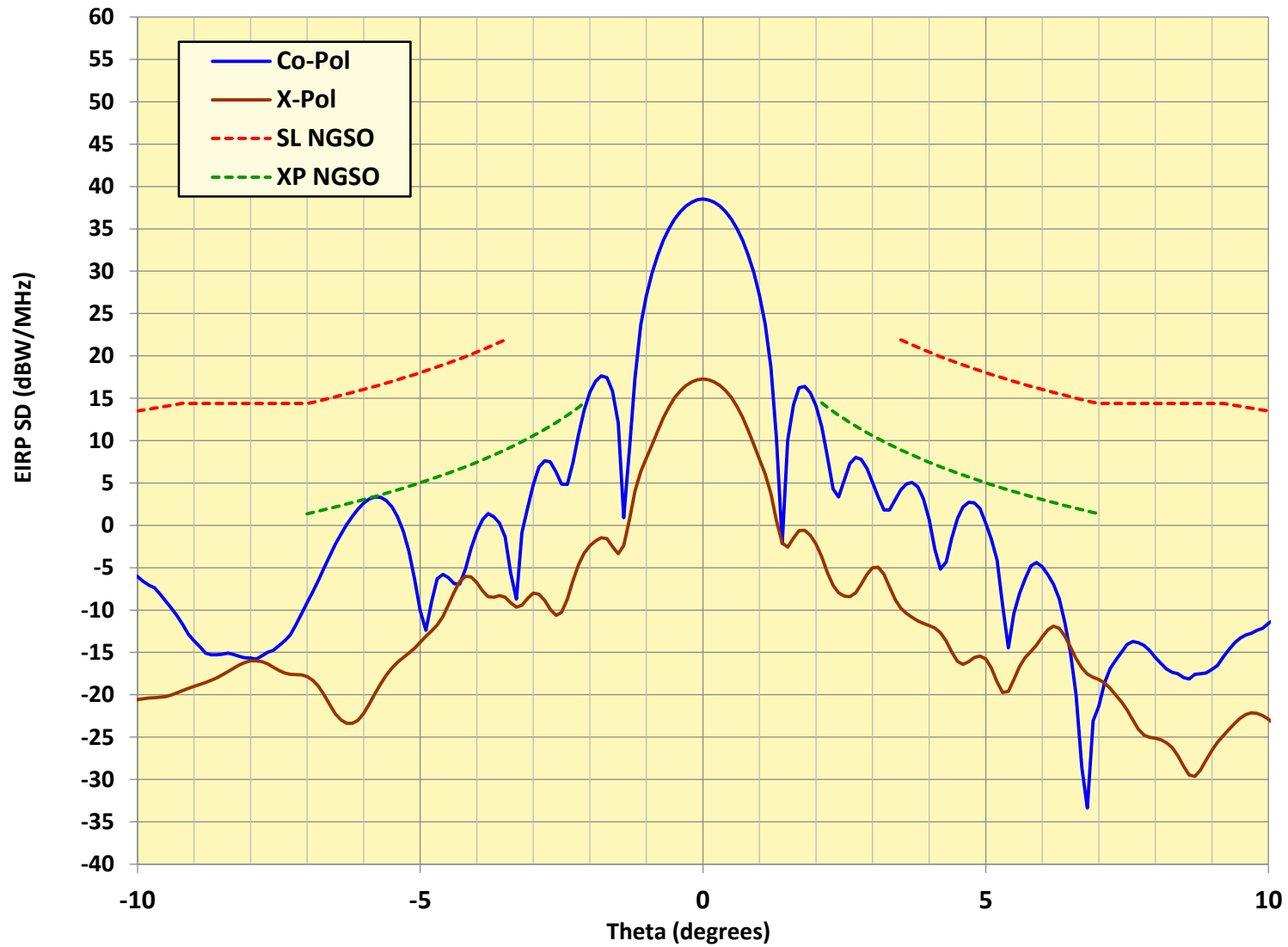
Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 37.9dBW/MHz



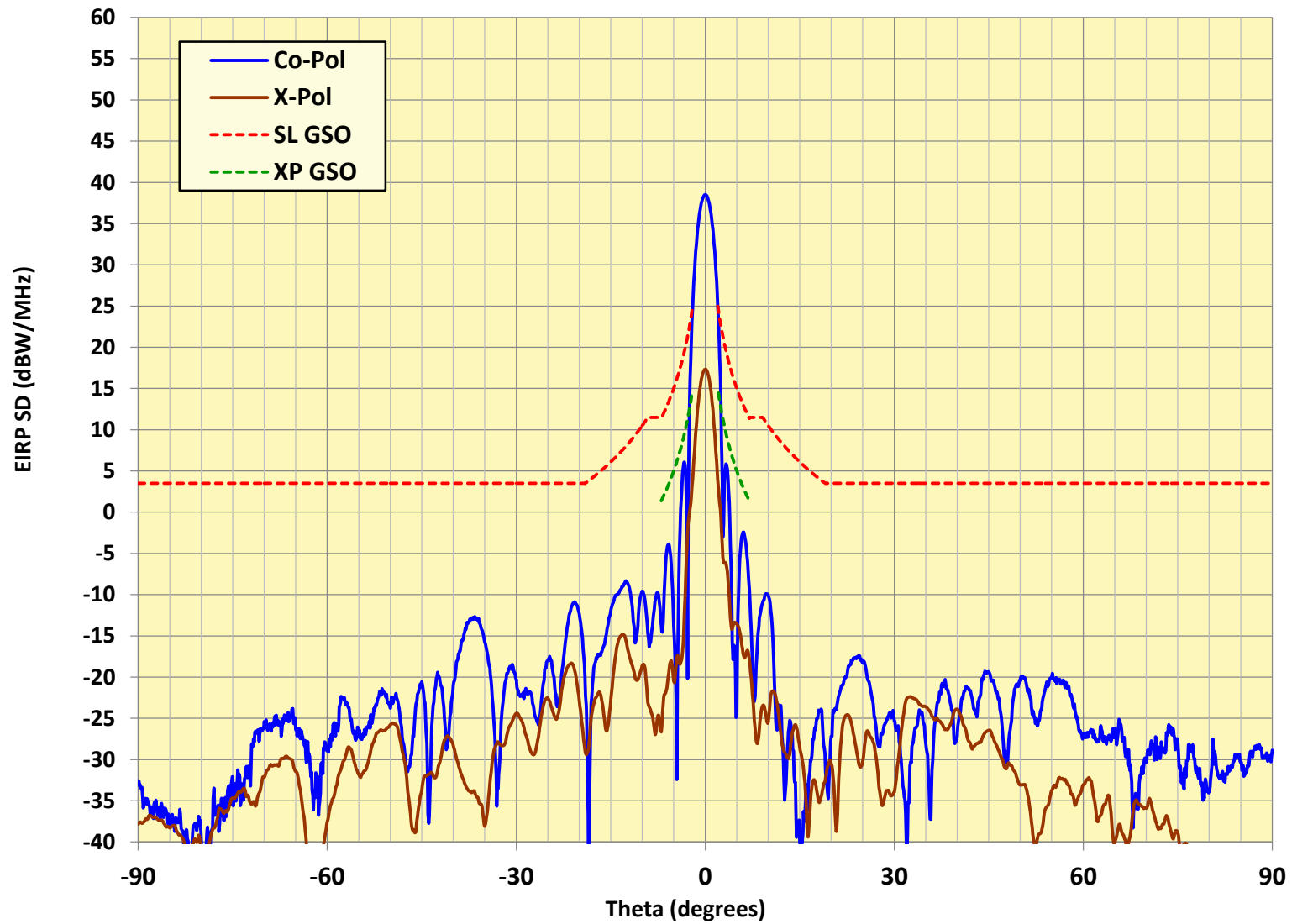
Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz



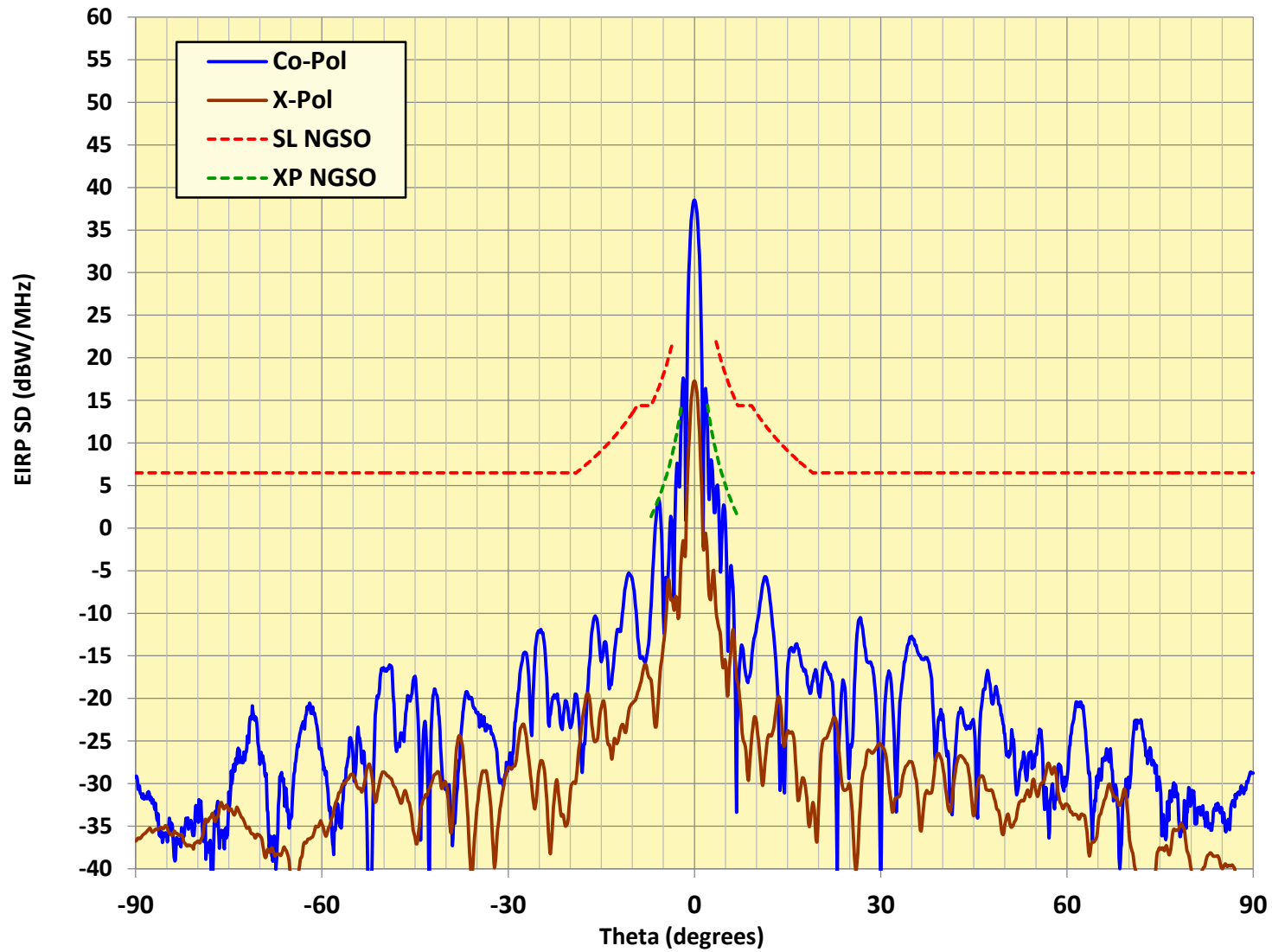
Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz



Q113000 SN0002 GSO: Freq = 28.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz

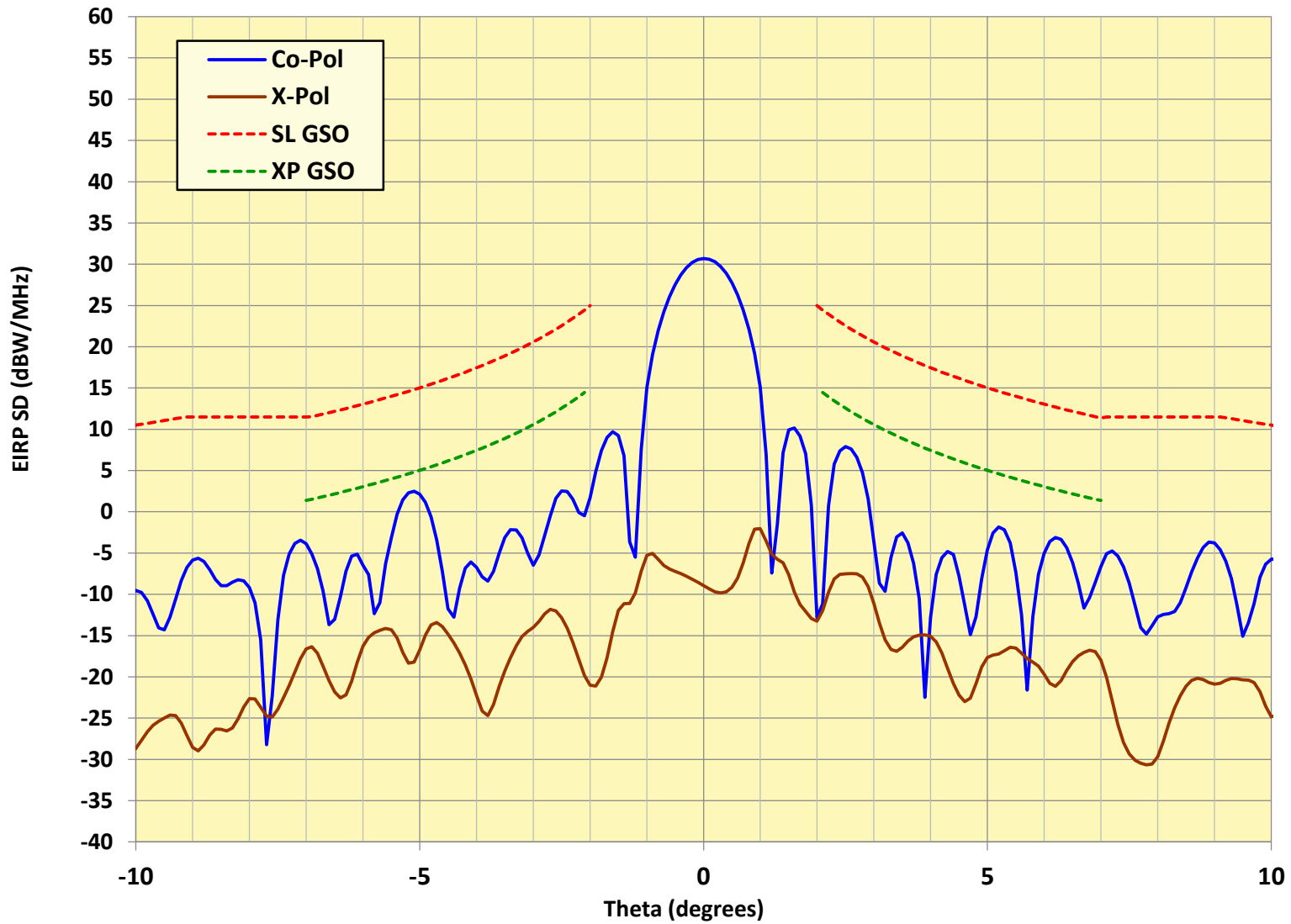


Q113000 SN0002 NGSO: Freq = 28.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz

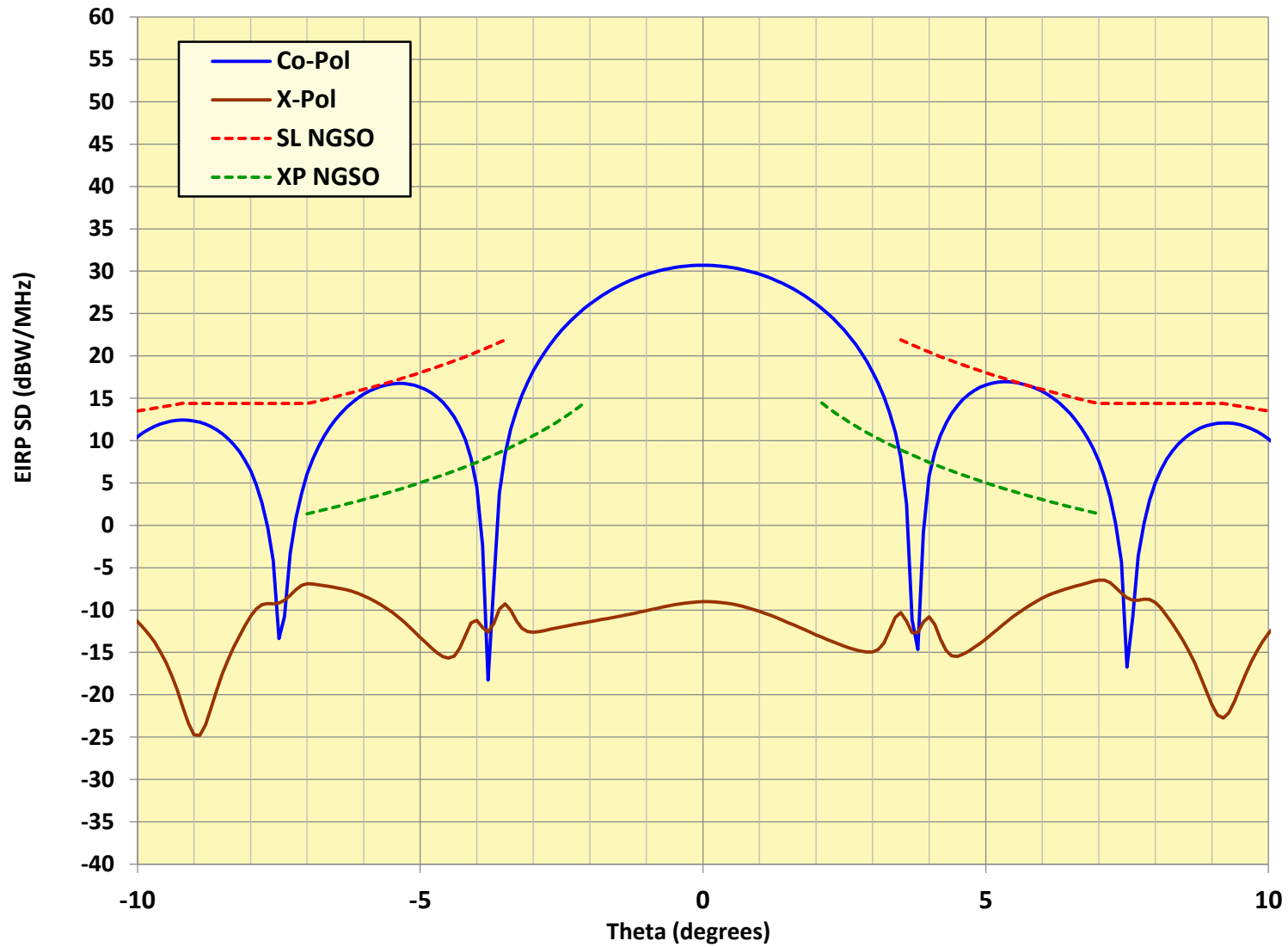


## **29.5 GHz at 0° Skew Angle**

Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz

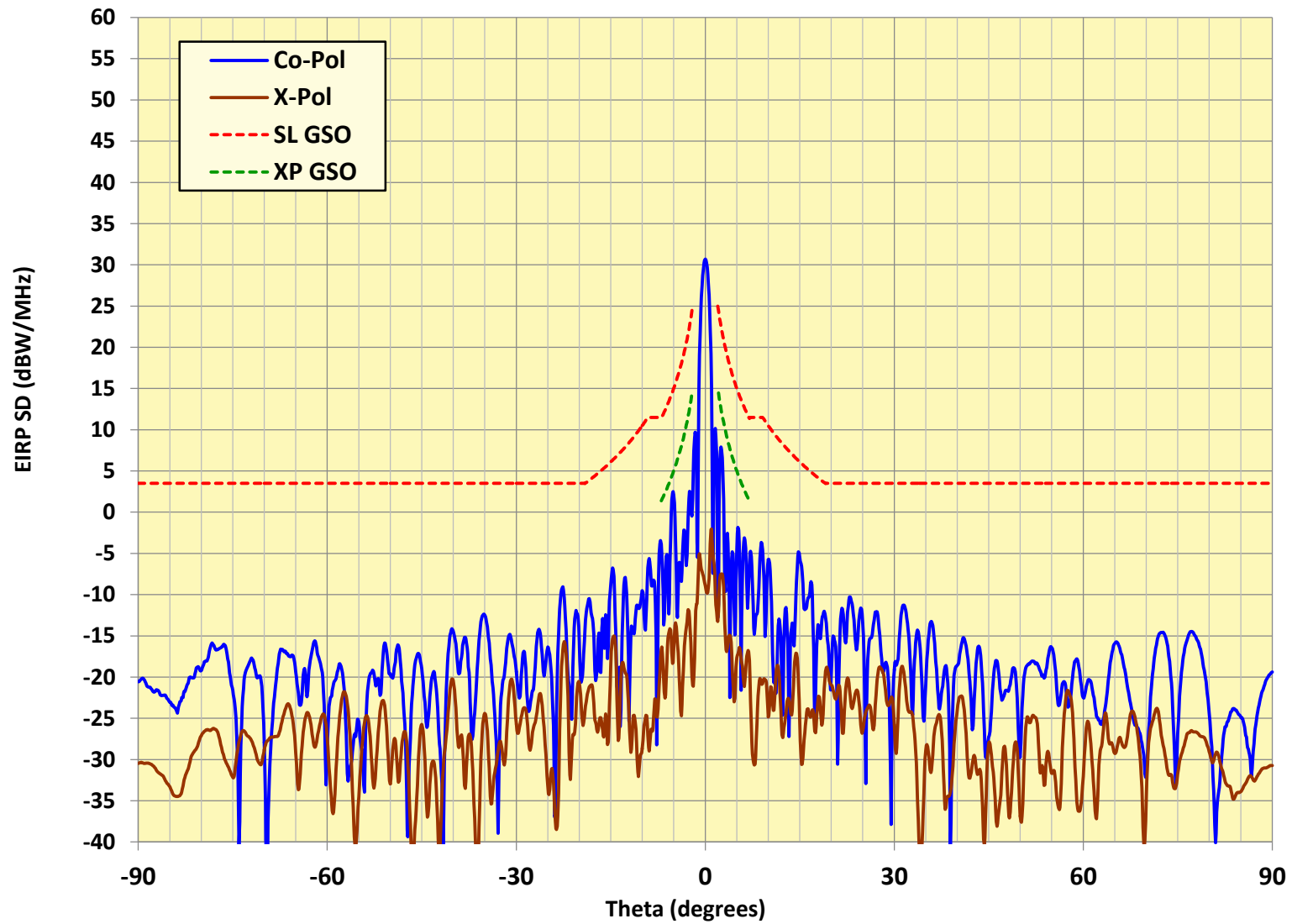


Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz

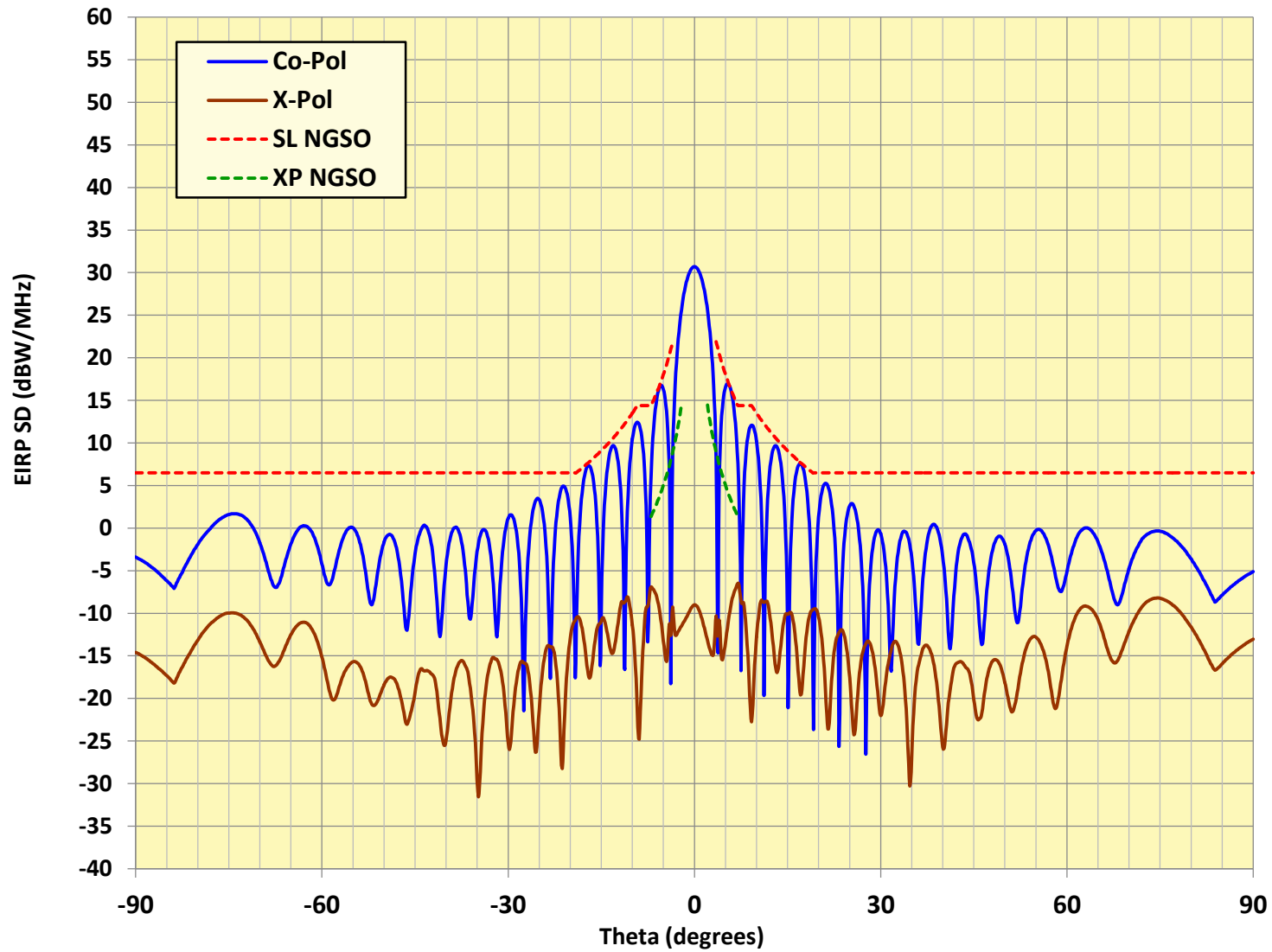




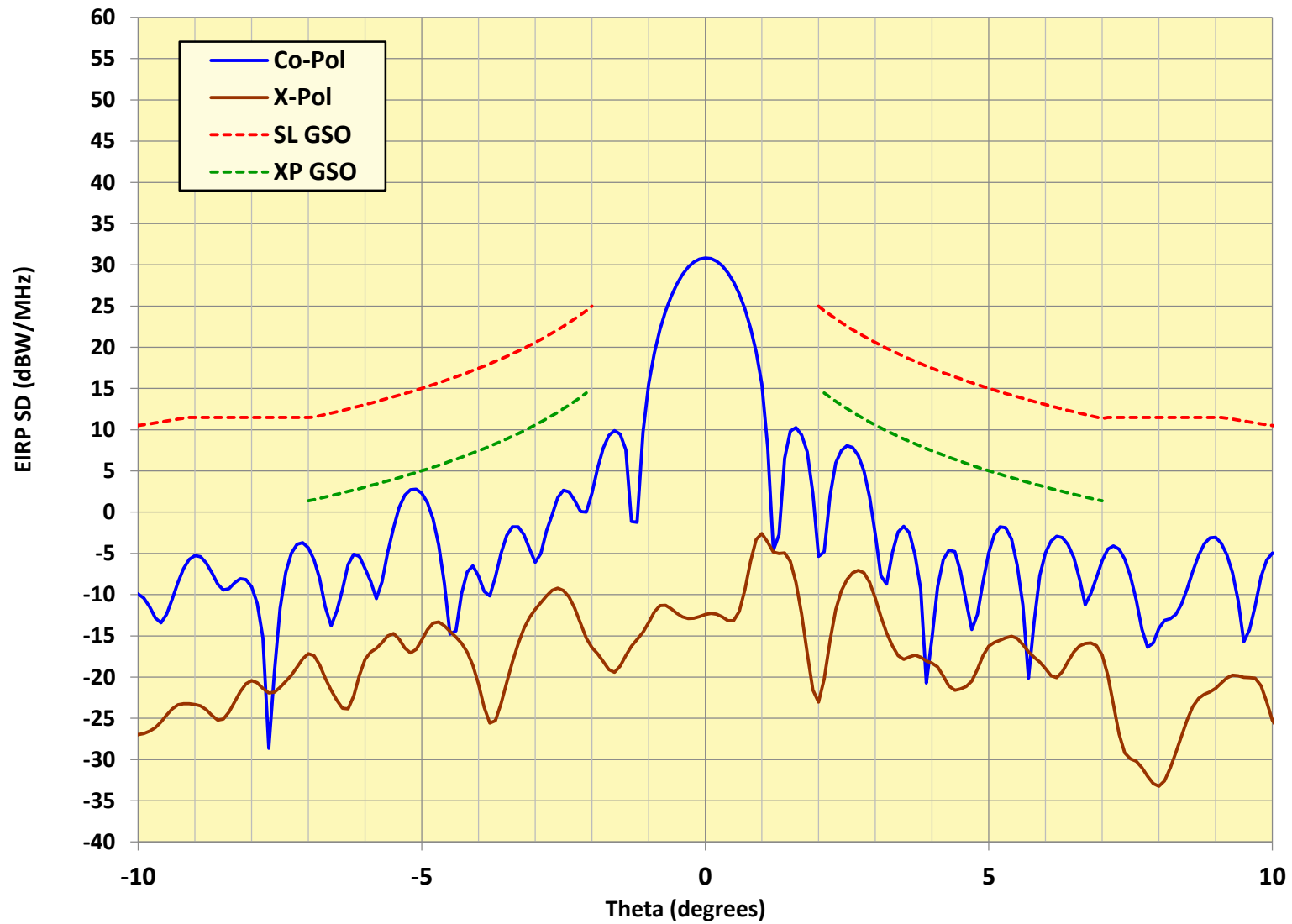
Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz



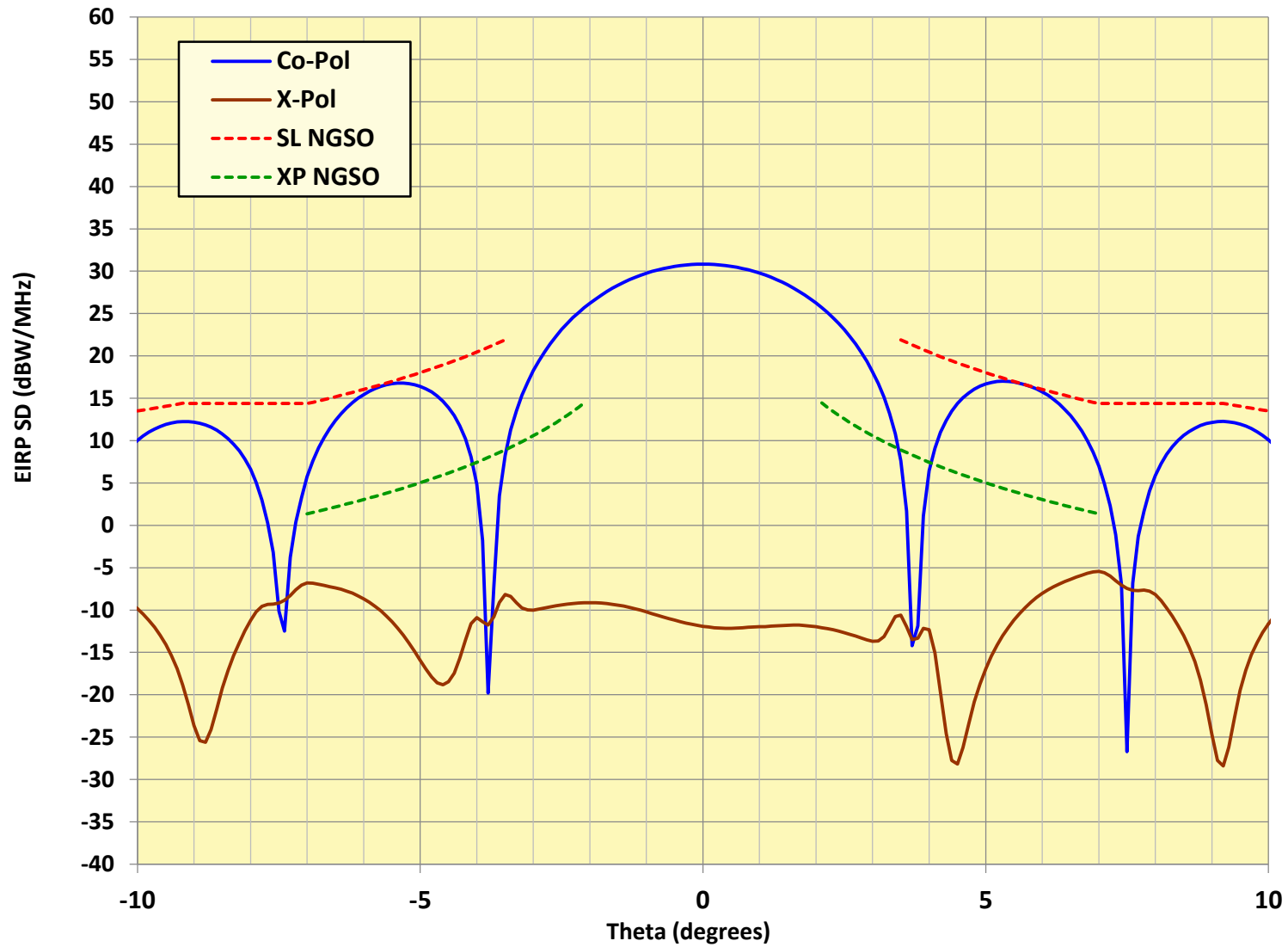
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz



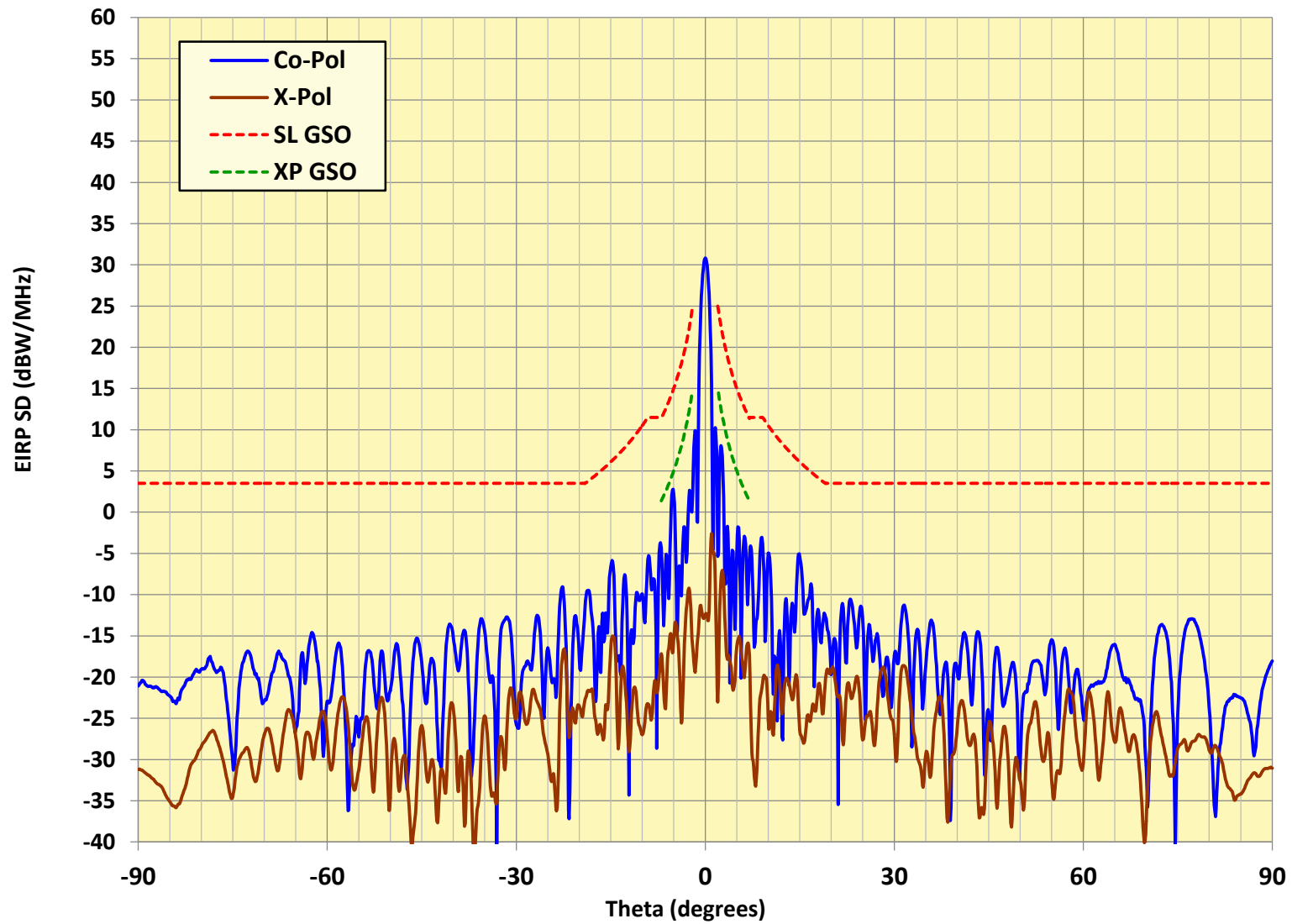
Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



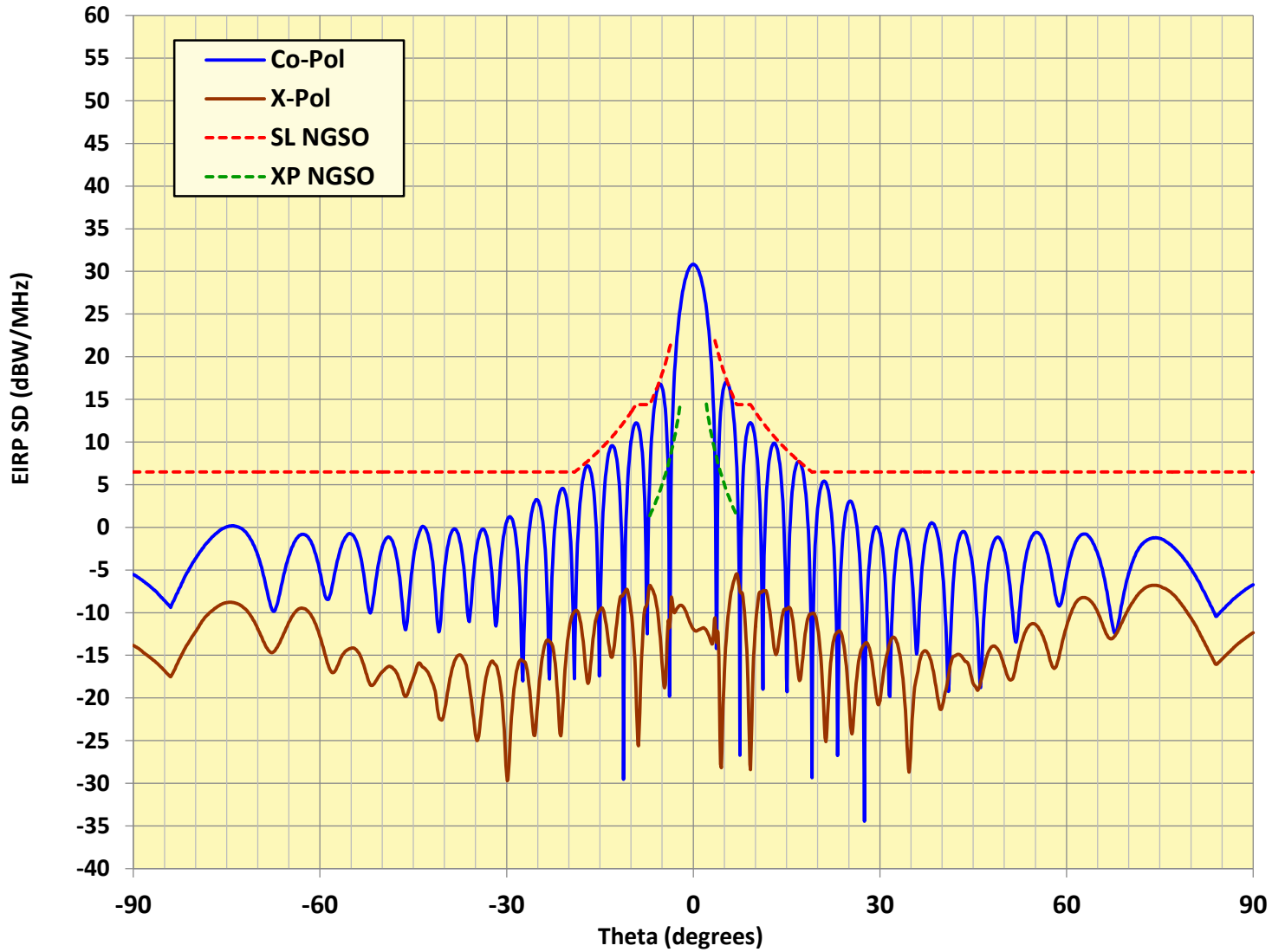
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz

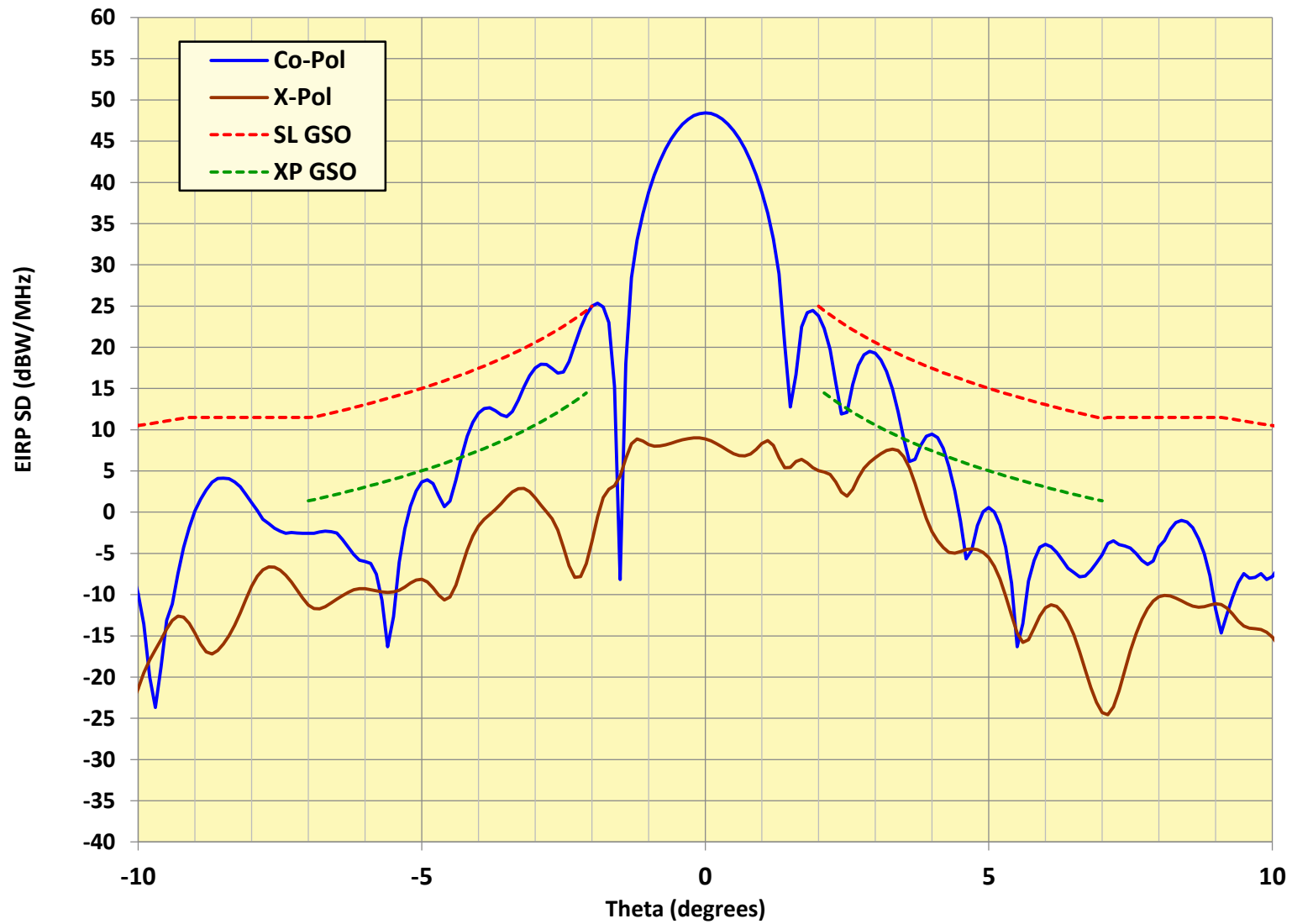


Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



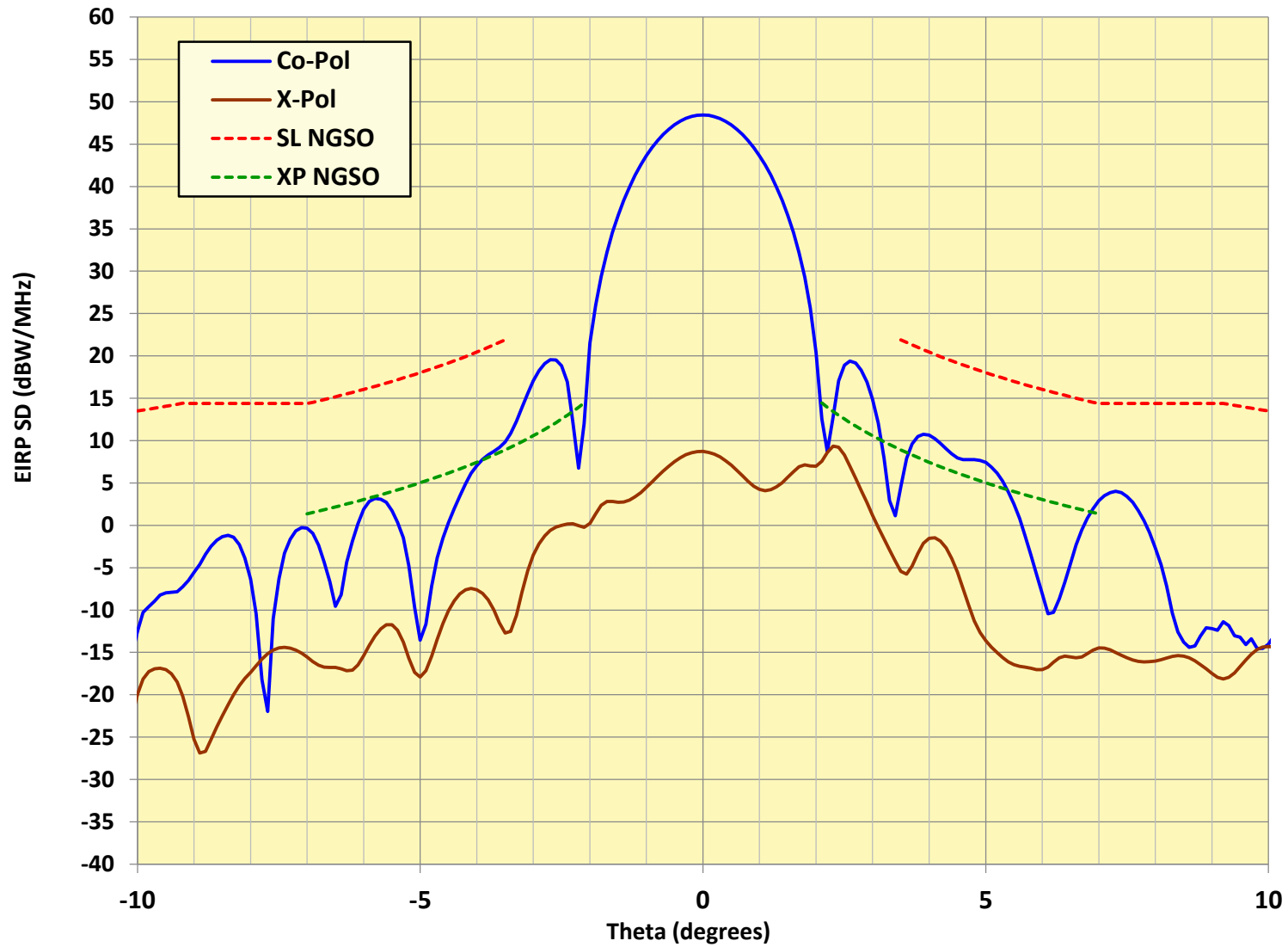
## **29.5 GHz at 35° Skew Angle**

Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz

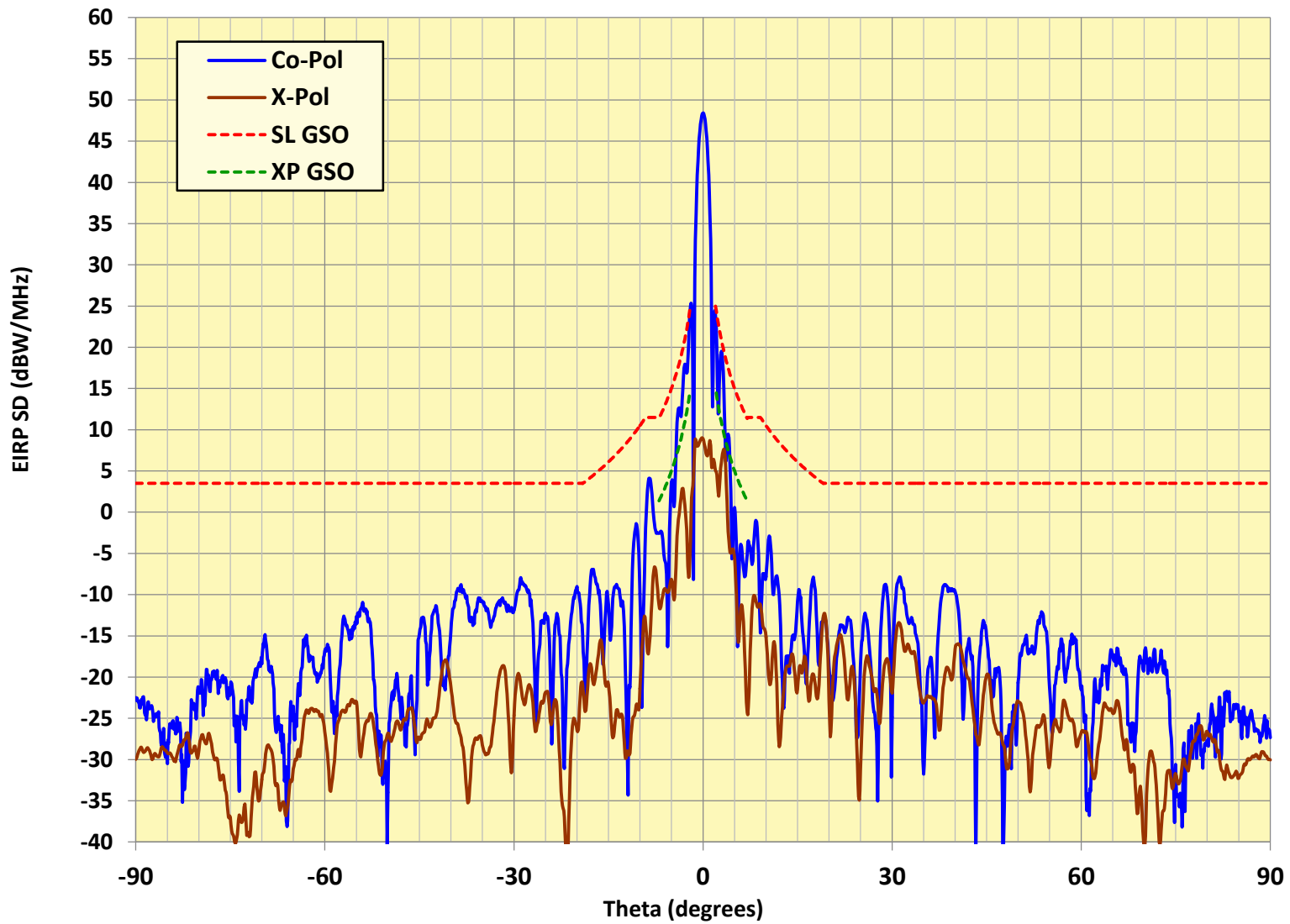




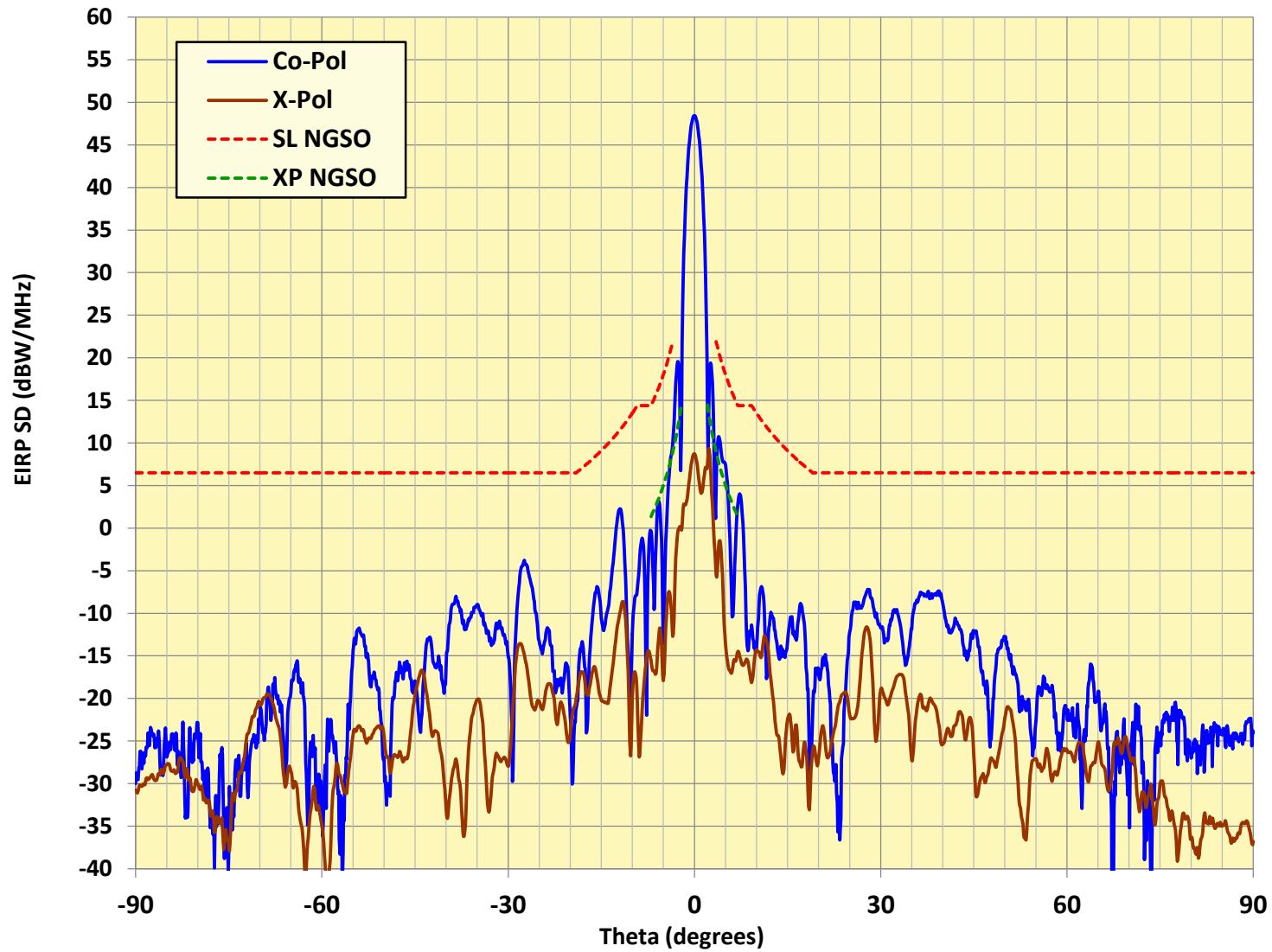
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz



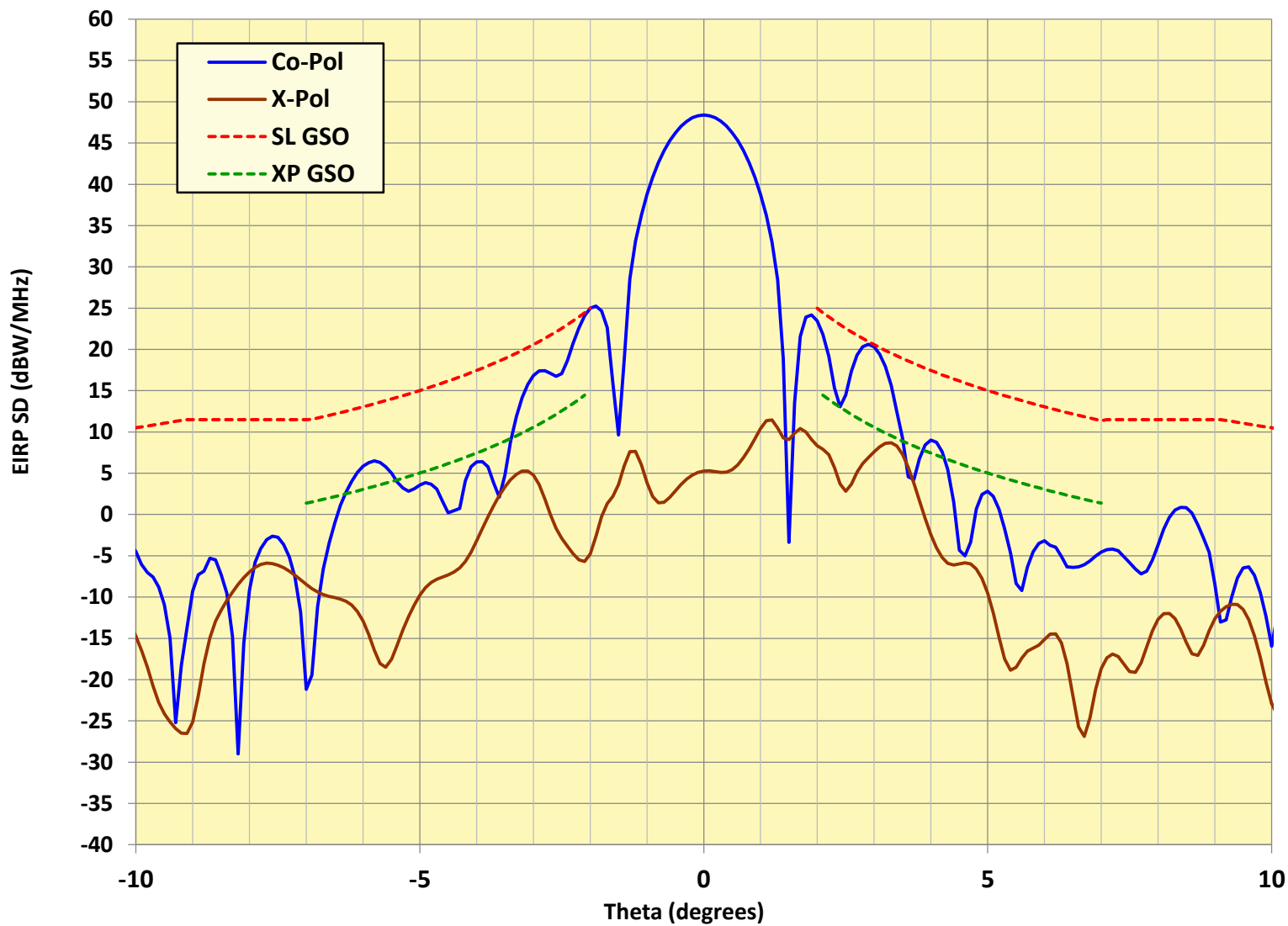
Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz



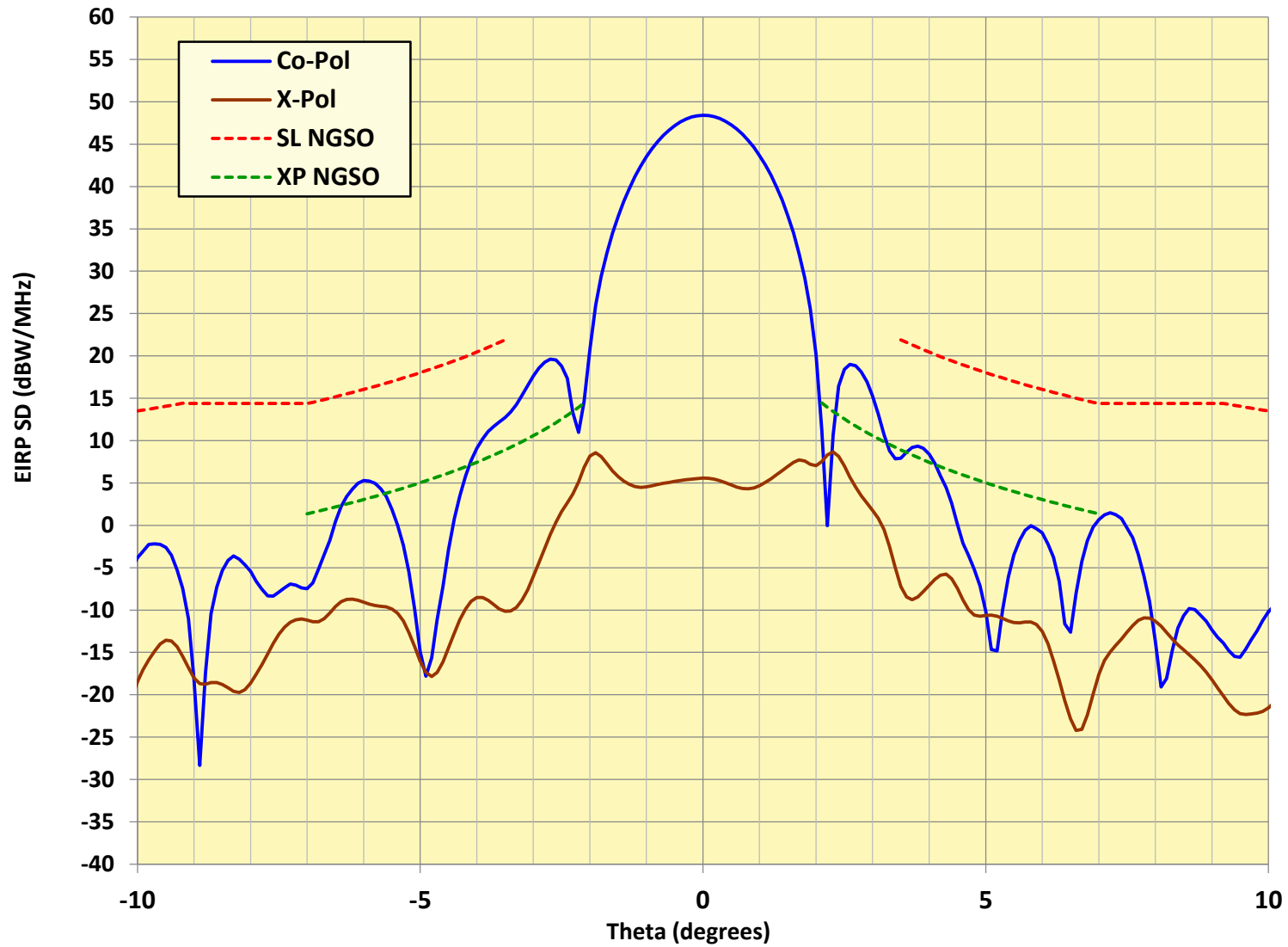
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz



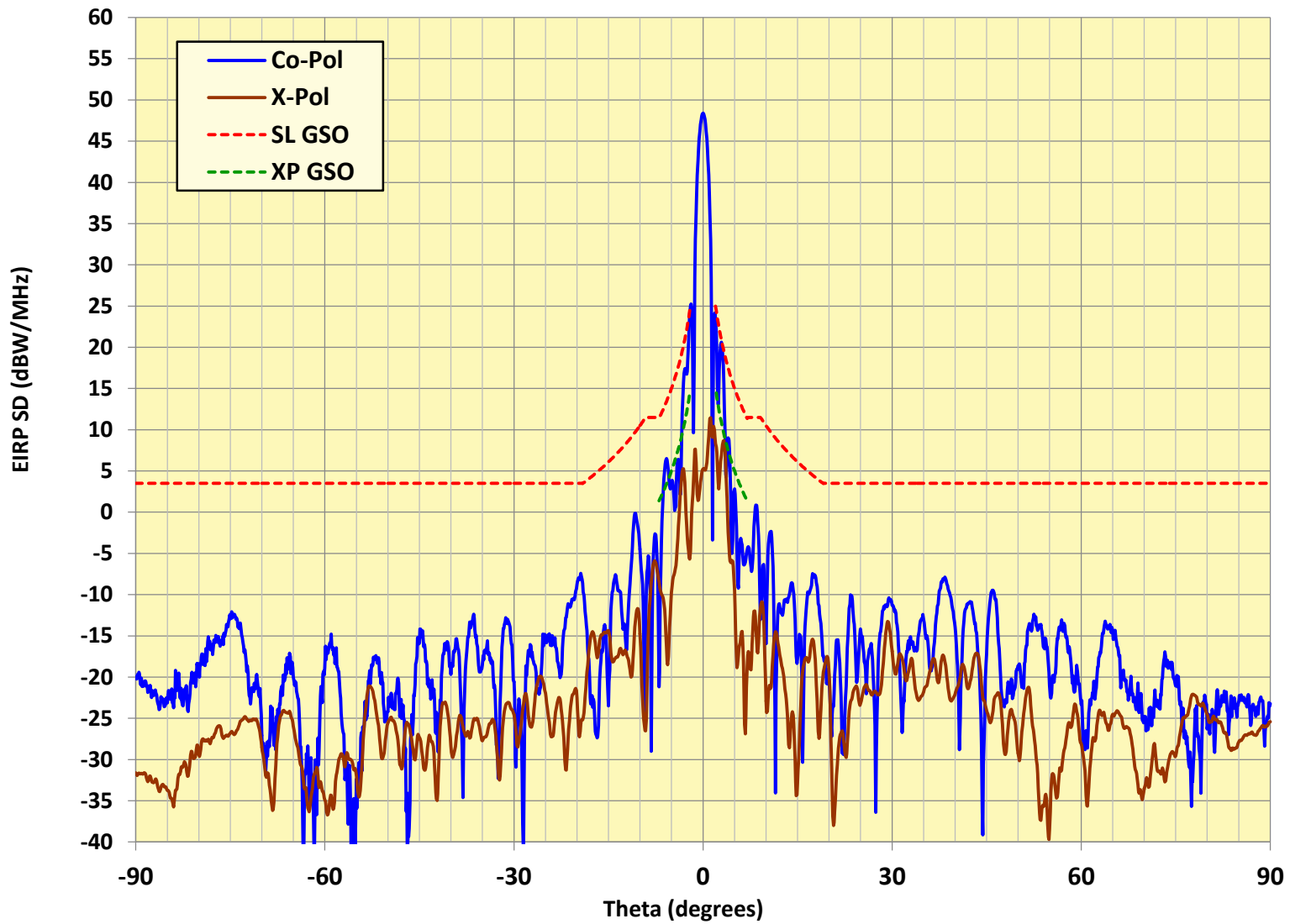
Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz



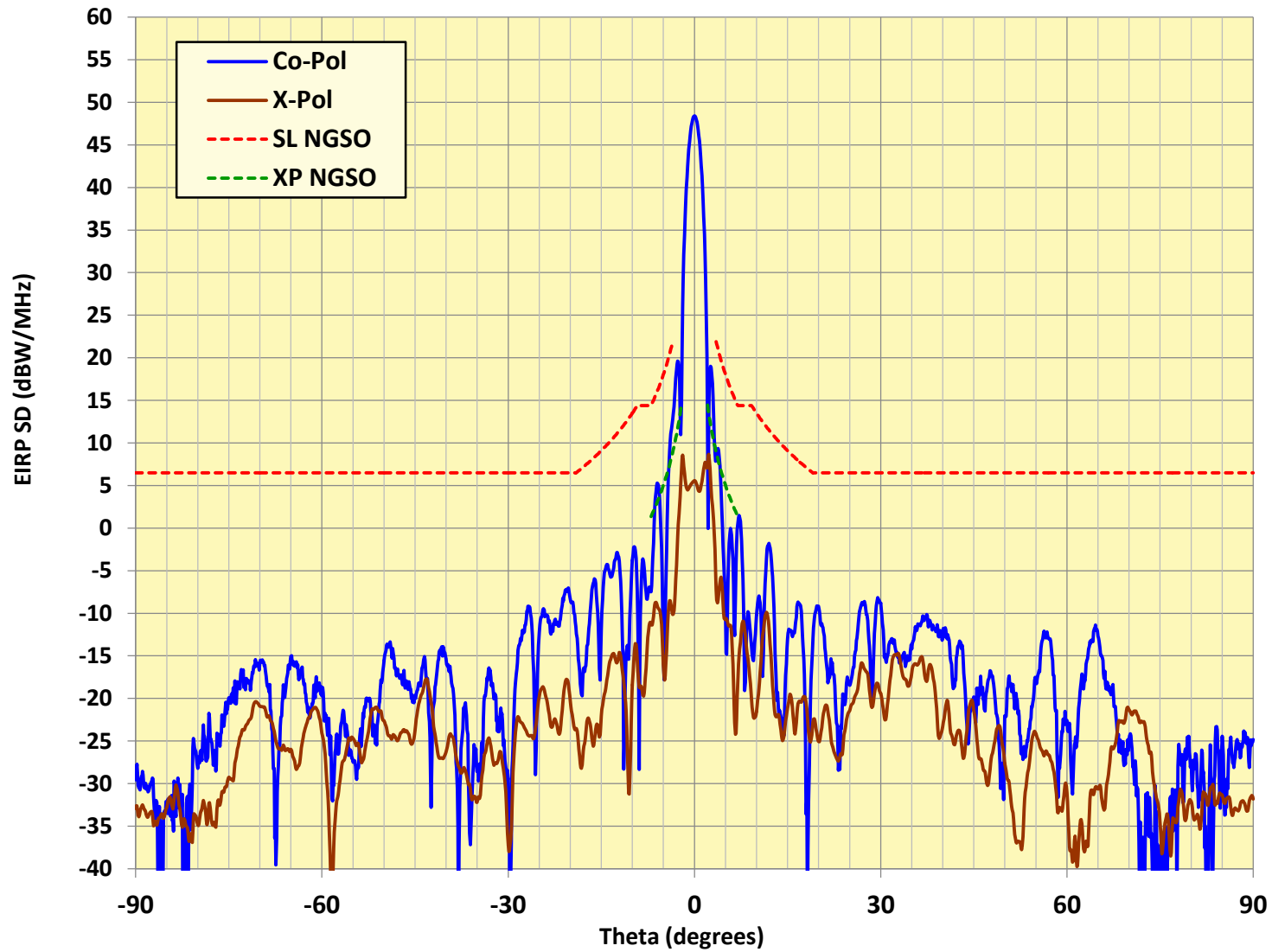
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz



Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz



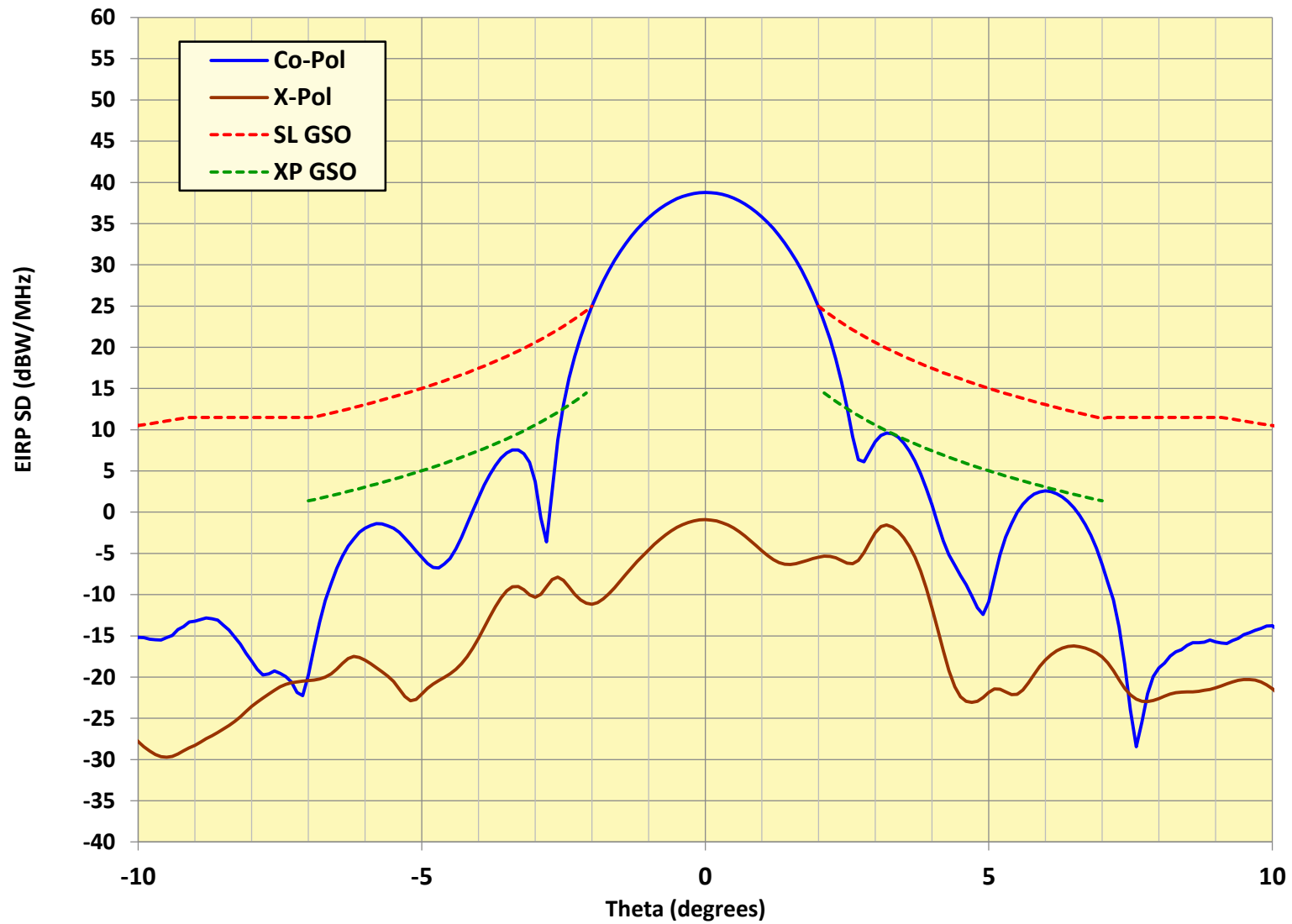
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 48.4dBW/MHz



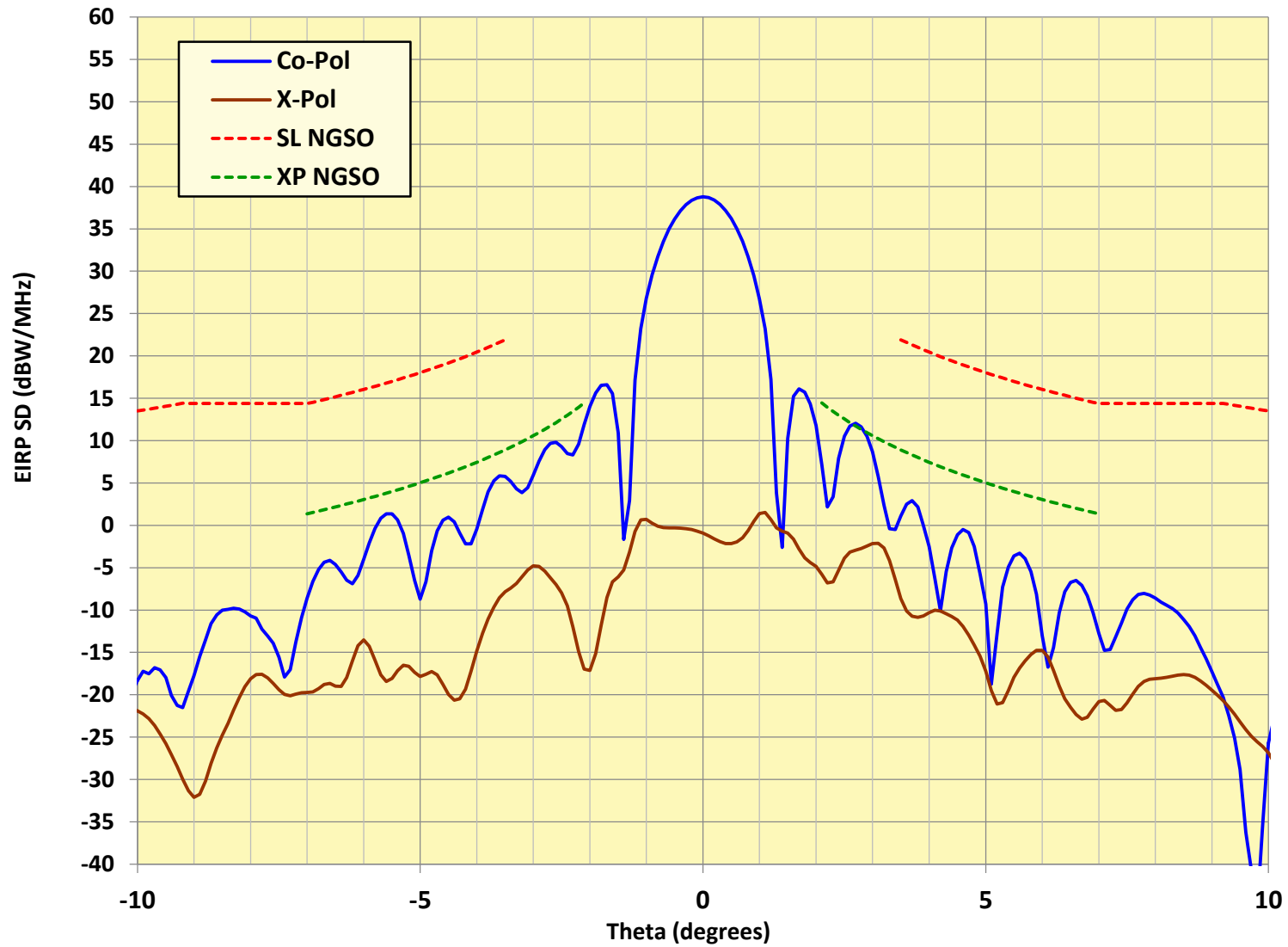
## **29.5 GHz at 65° Skew Angle**



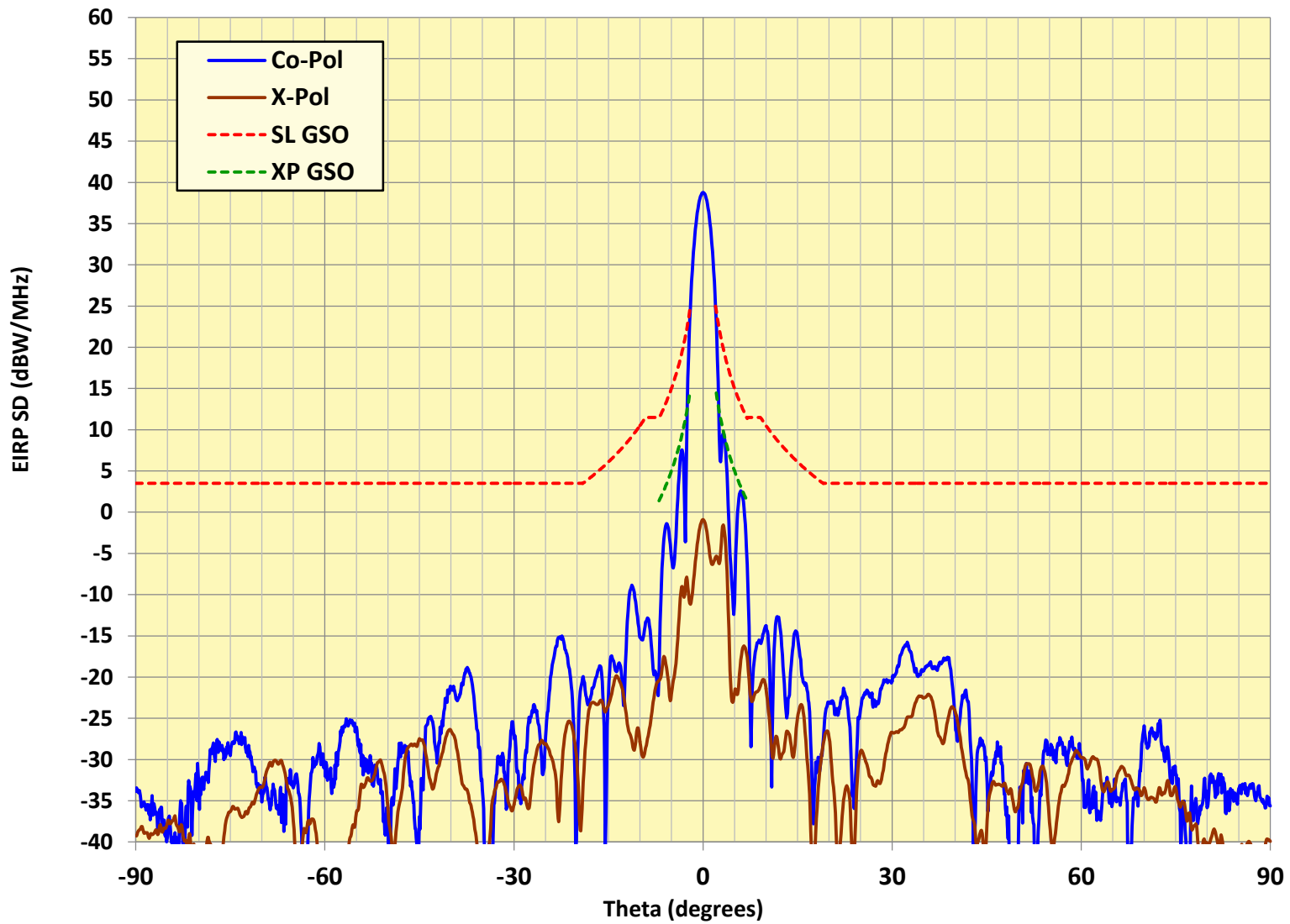
Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



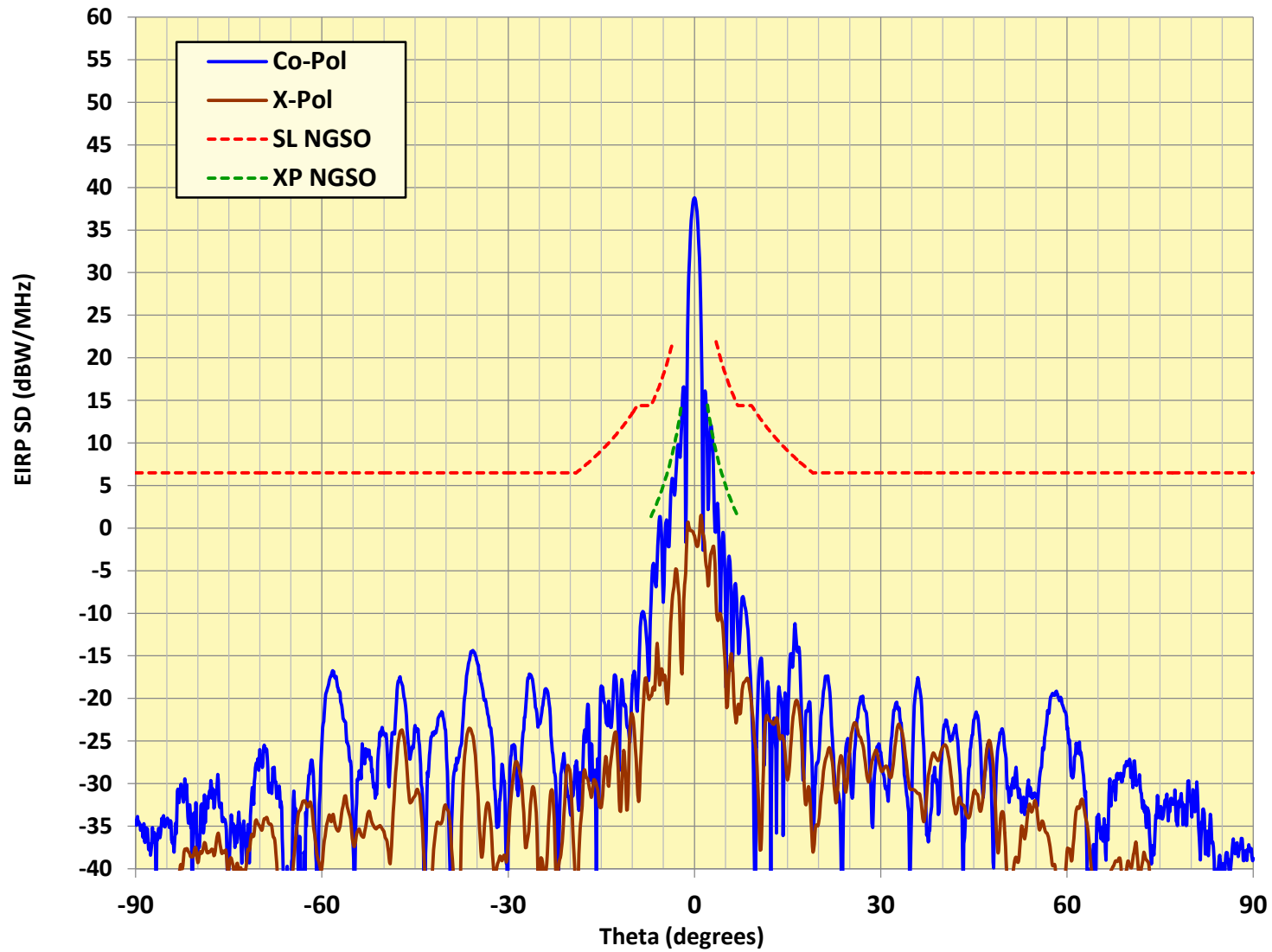
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



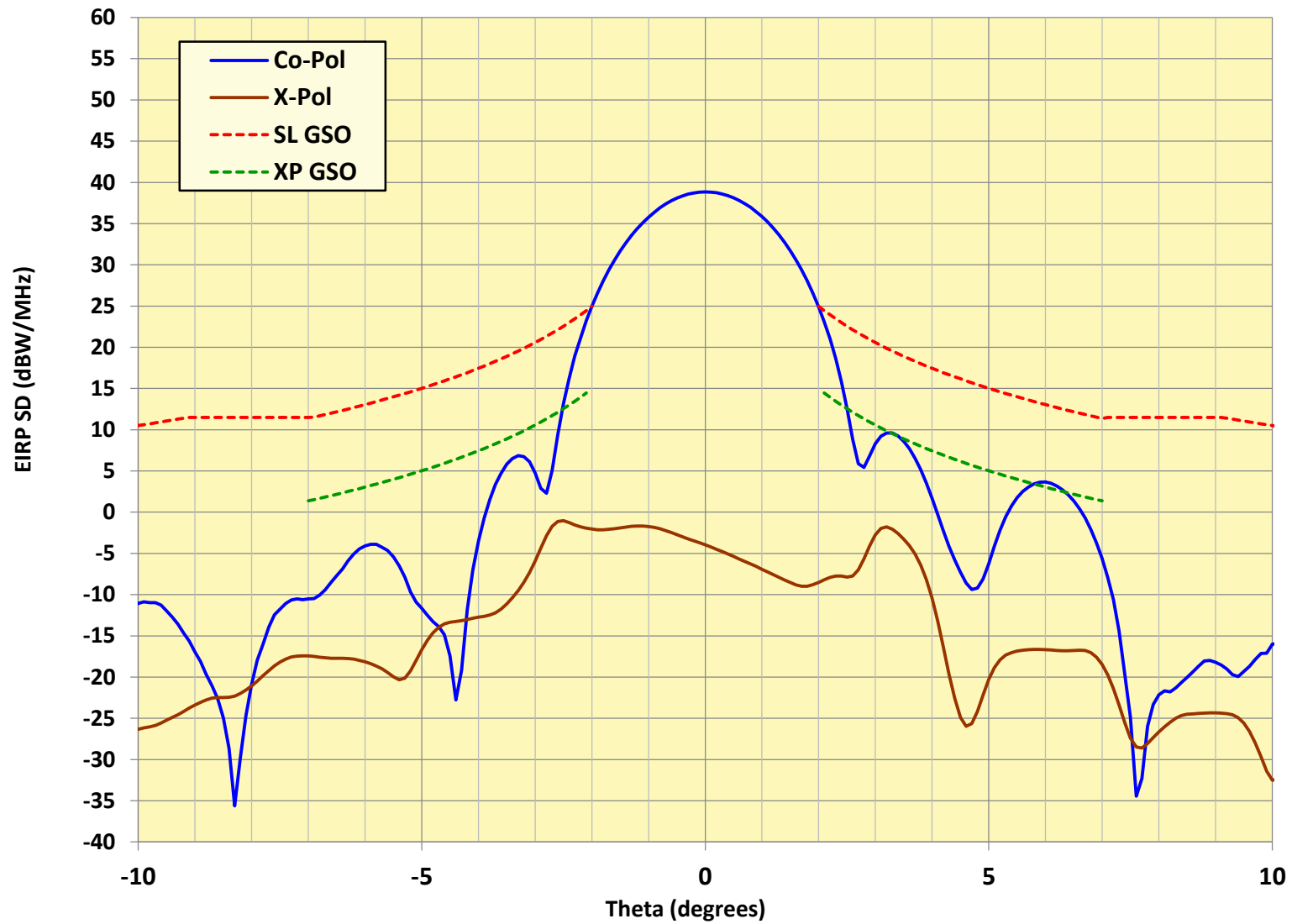
Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



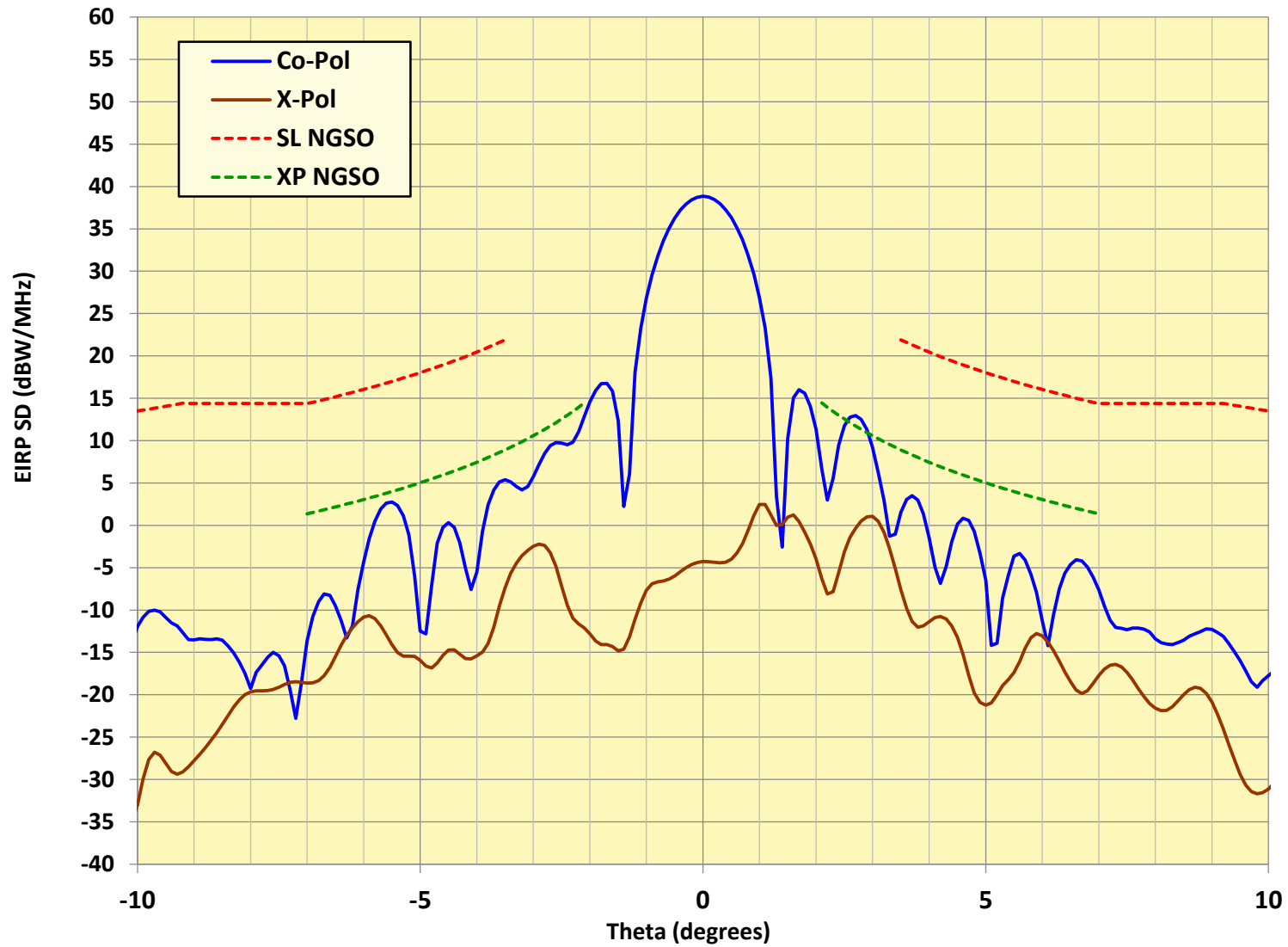
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



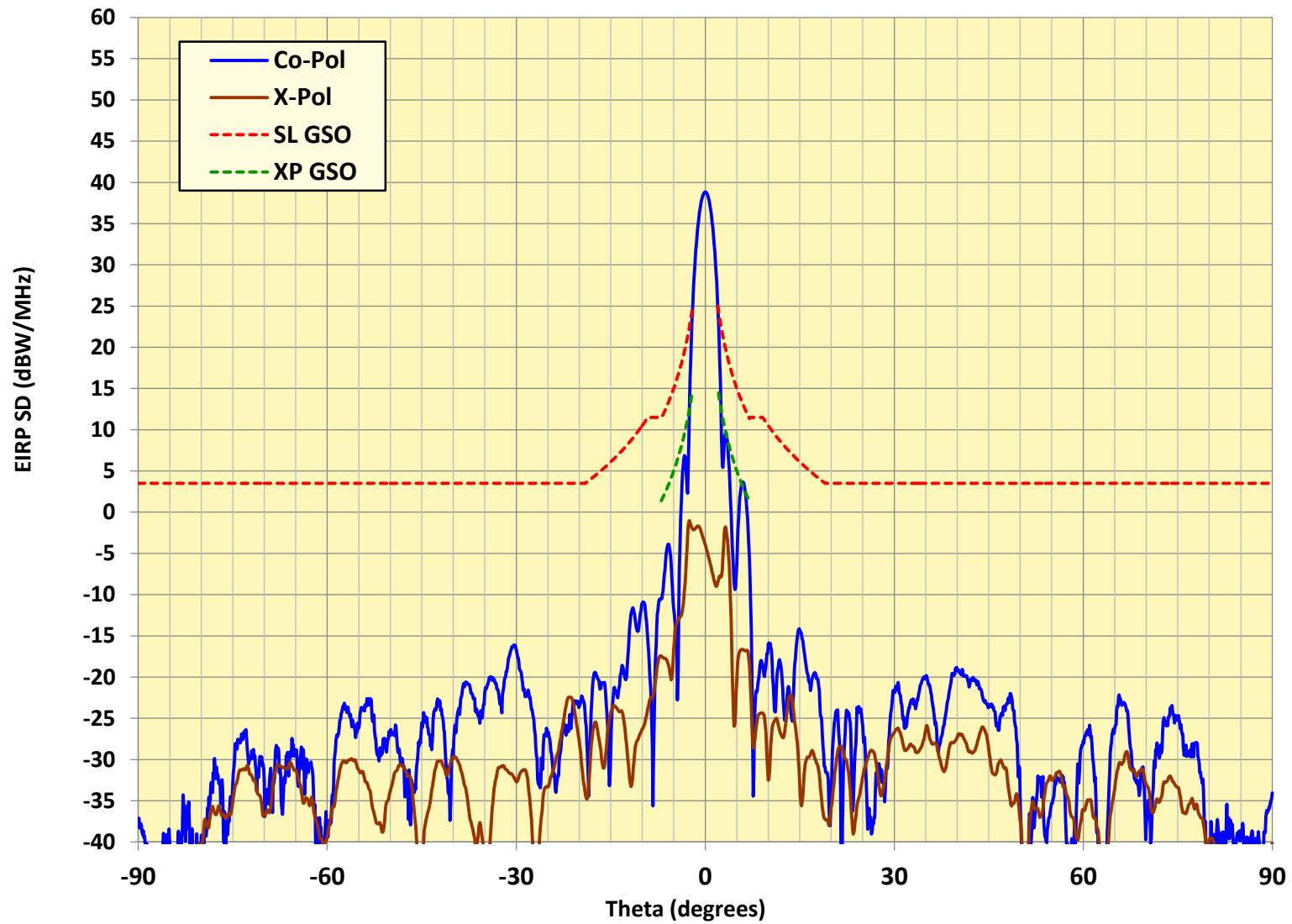
Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



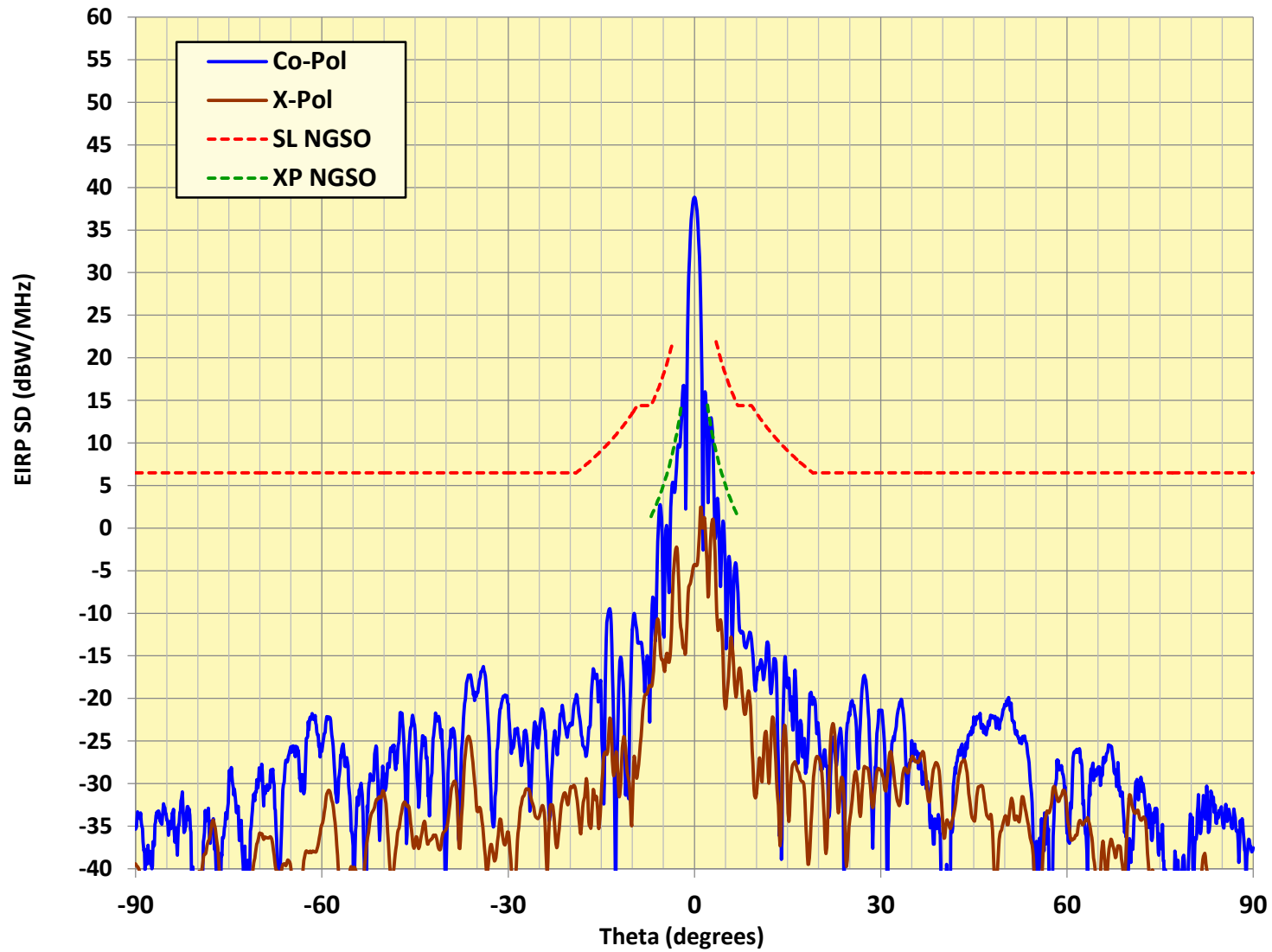
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



Q113000 SN0002 GSO: Freq = 29.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



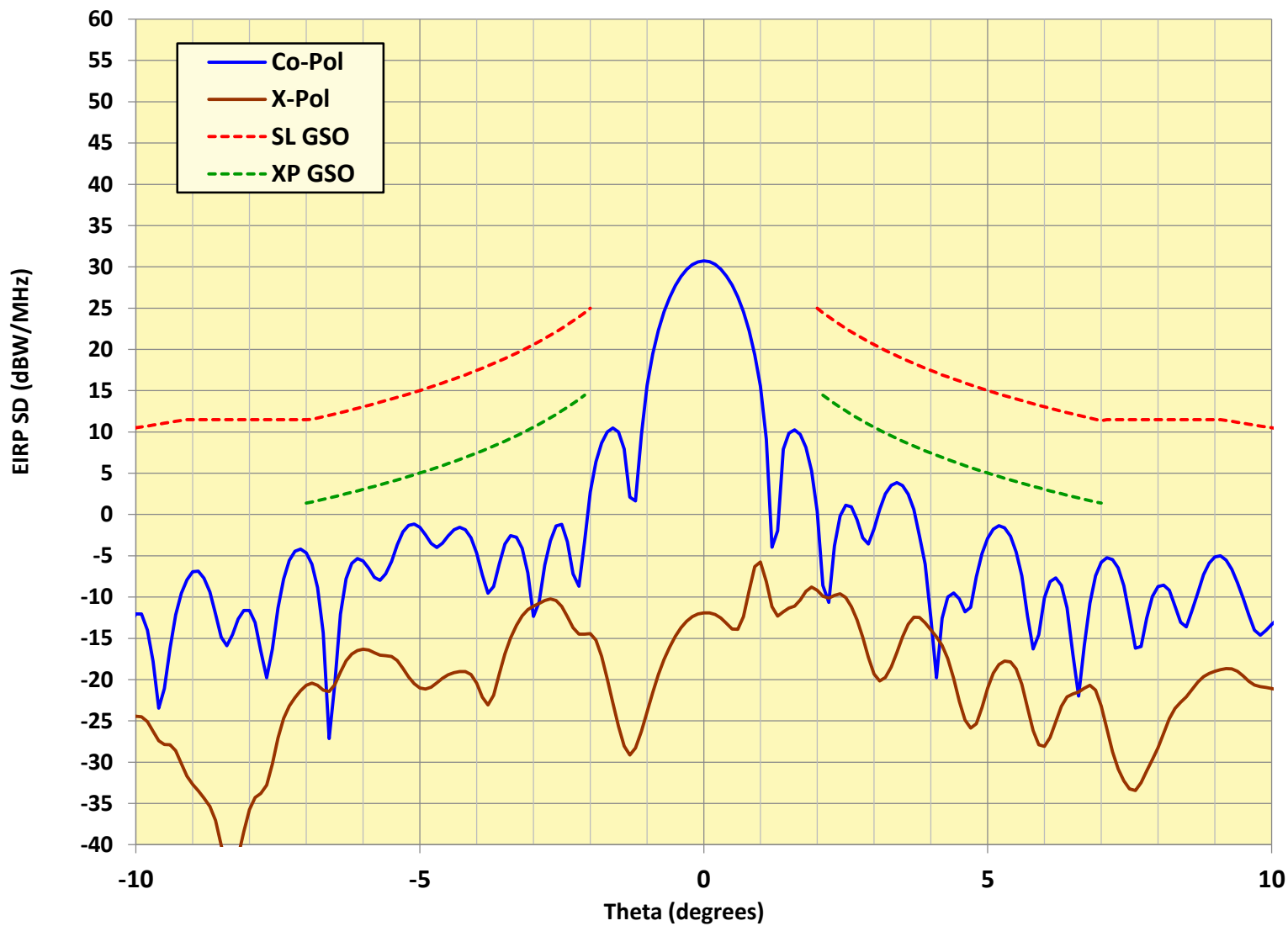
Q113000 SN0002 NGSO: Freq = 29.5GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.8dBW/MHz



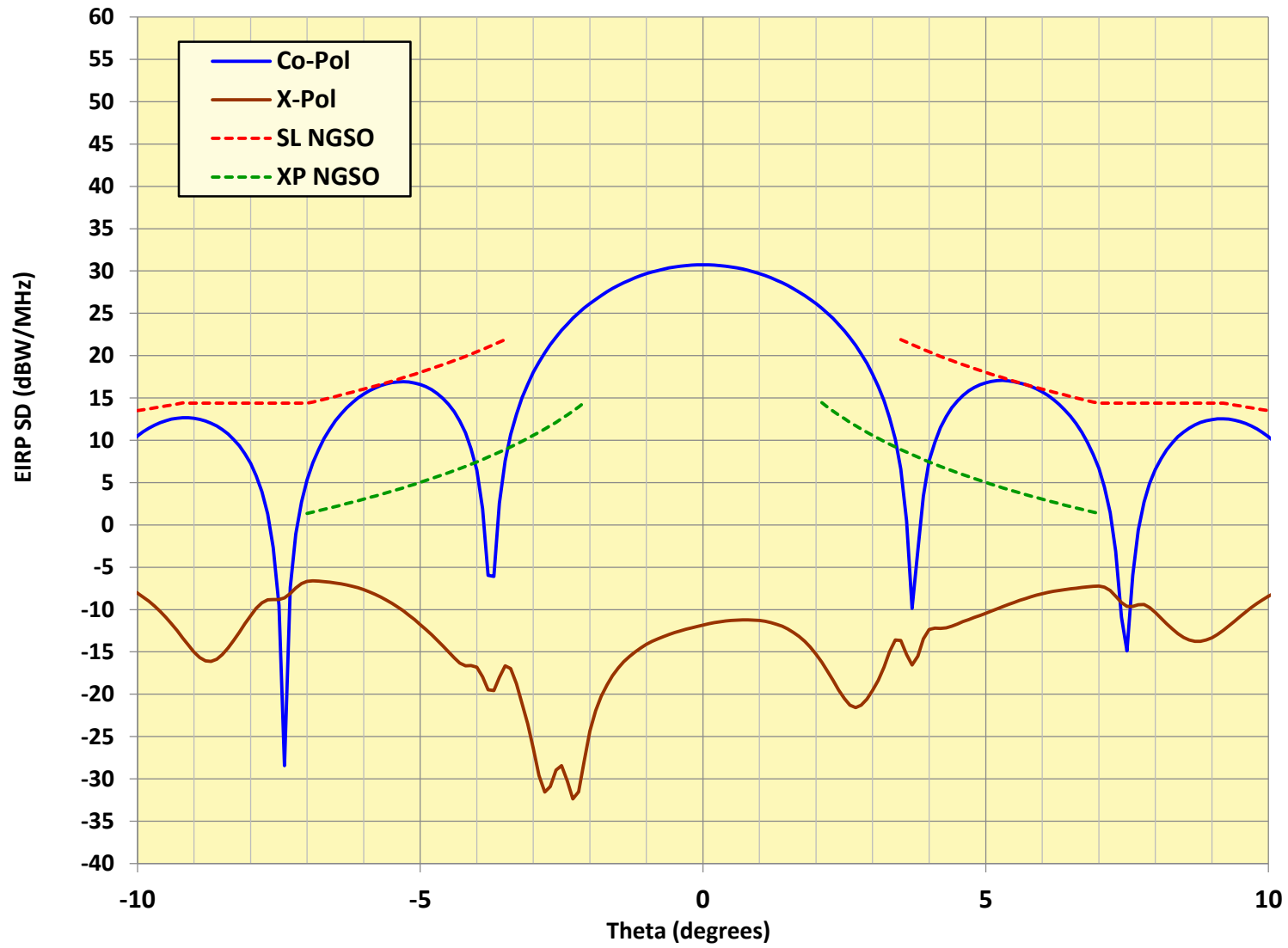


## **30 GHz at 0° Skew Angle**

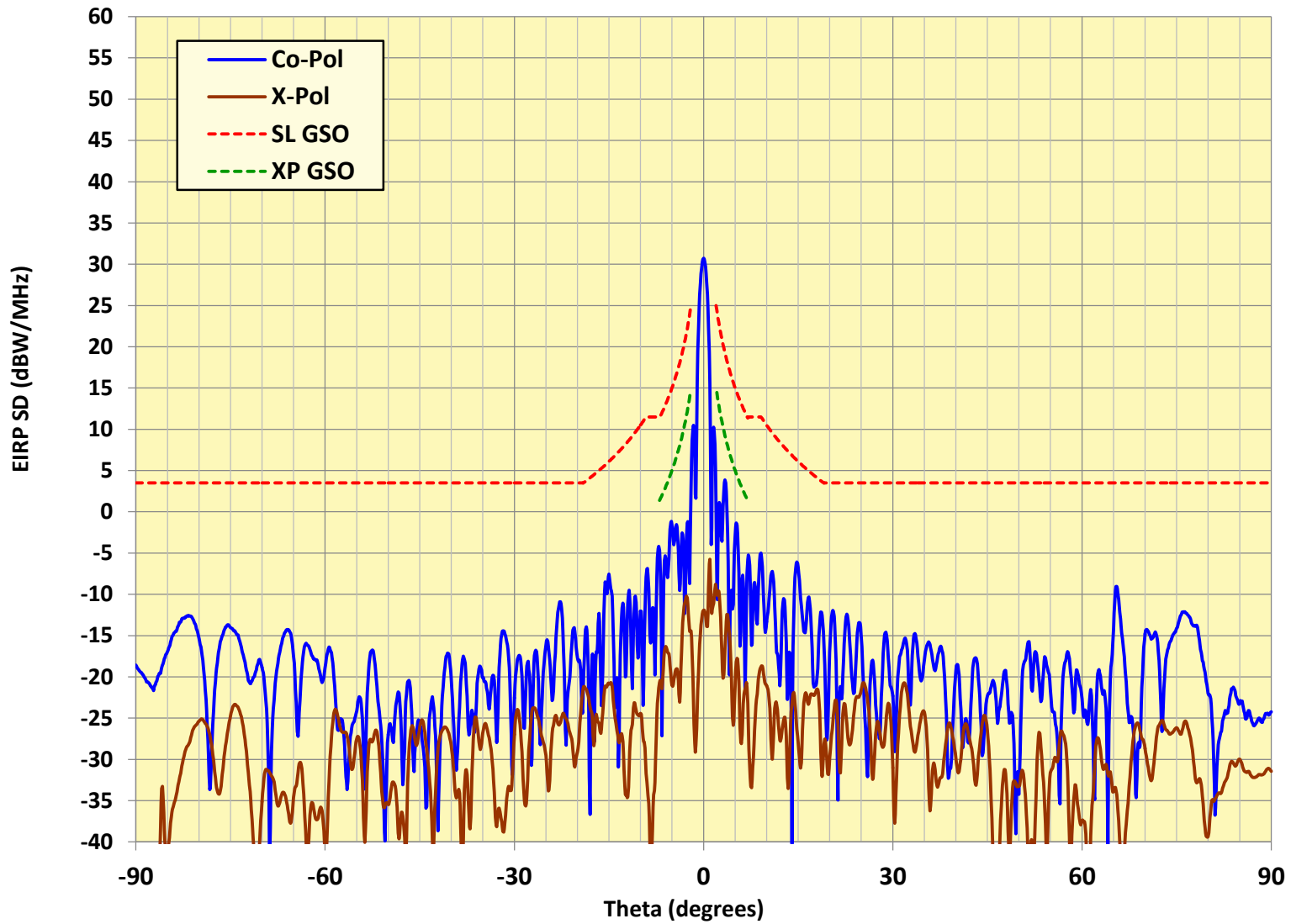
Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz



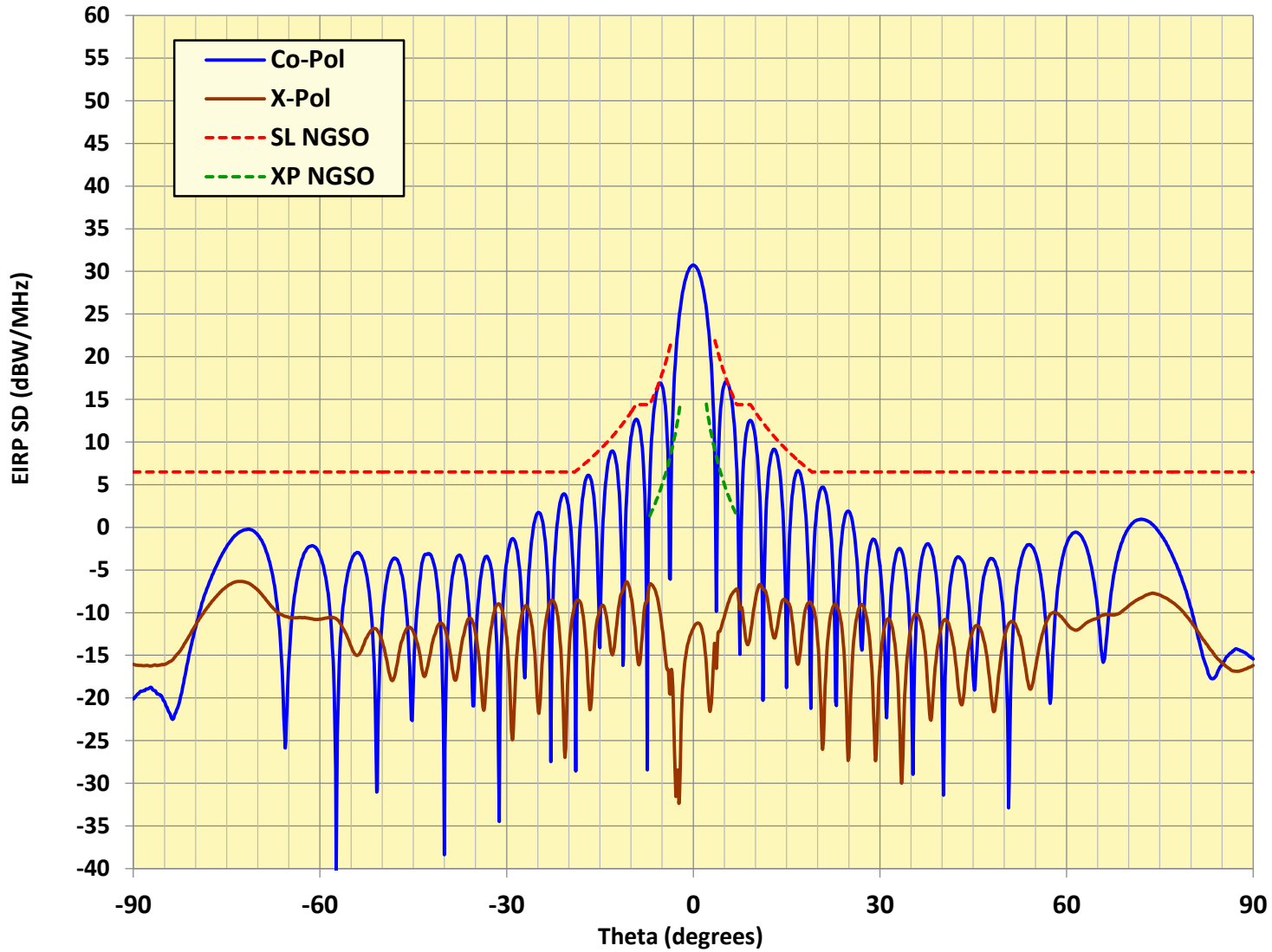
Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz



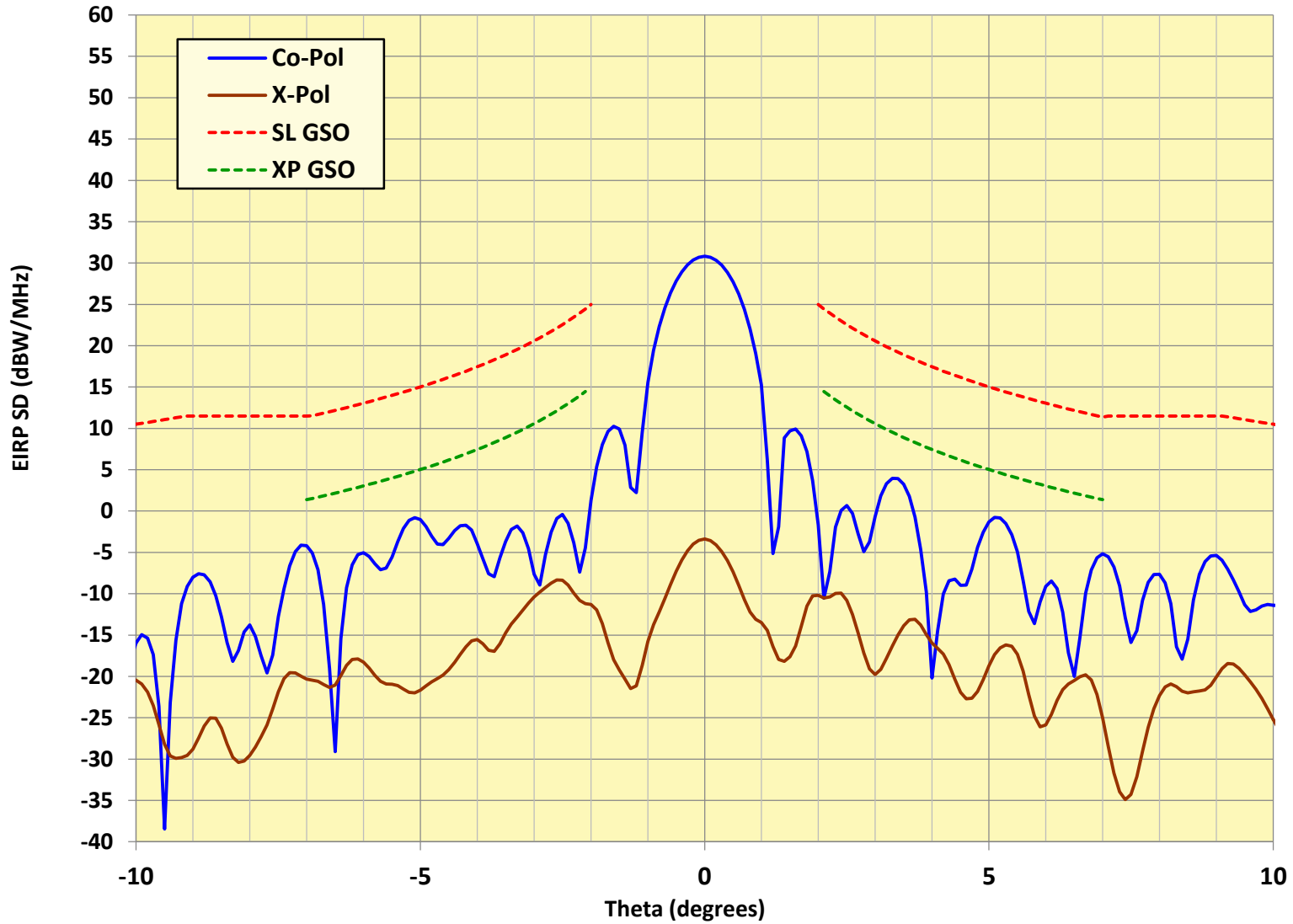
Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz



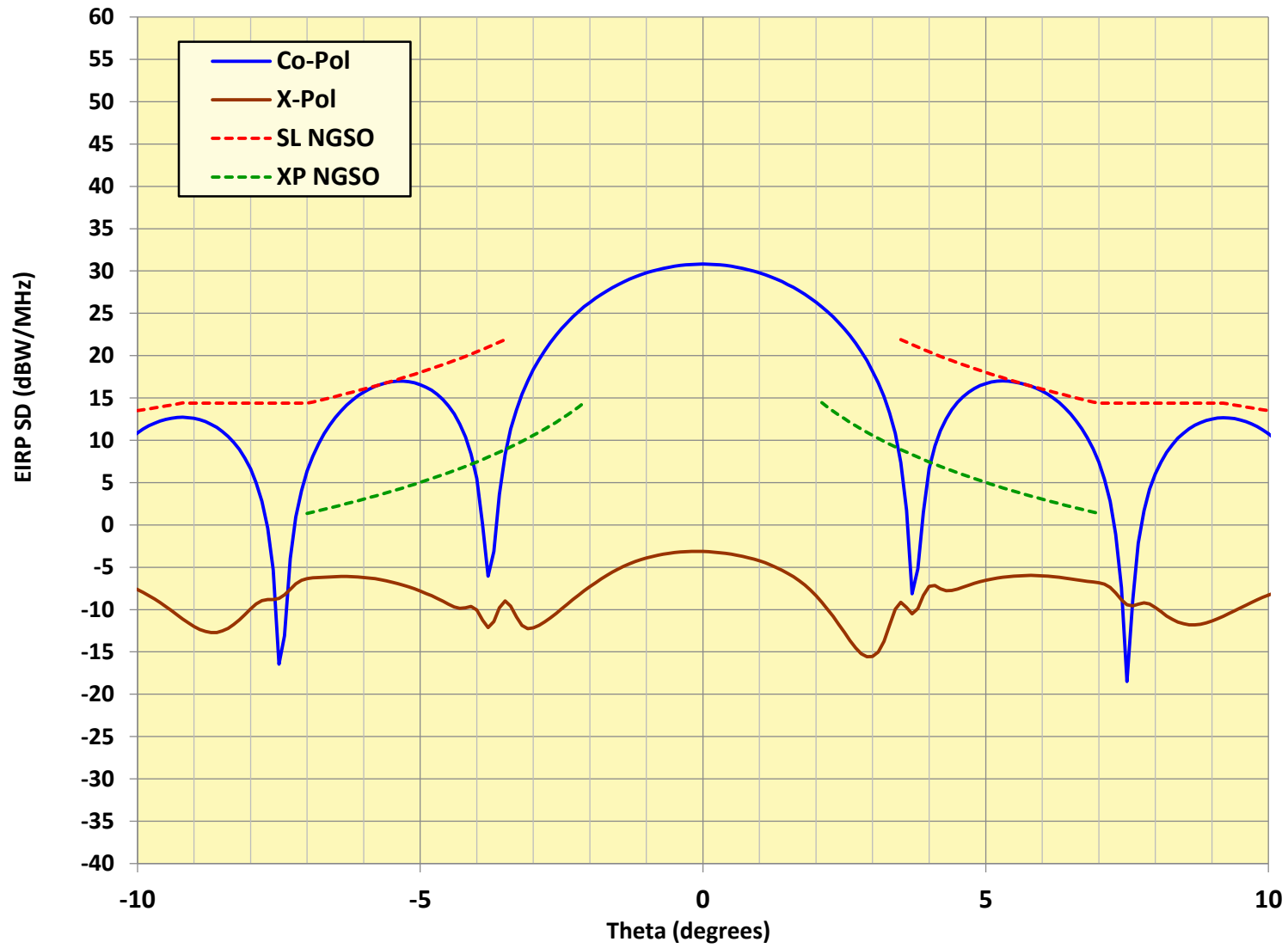
Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = LHCP, Skew = 0°, Pk EIRP = 30.7dBW/MHz



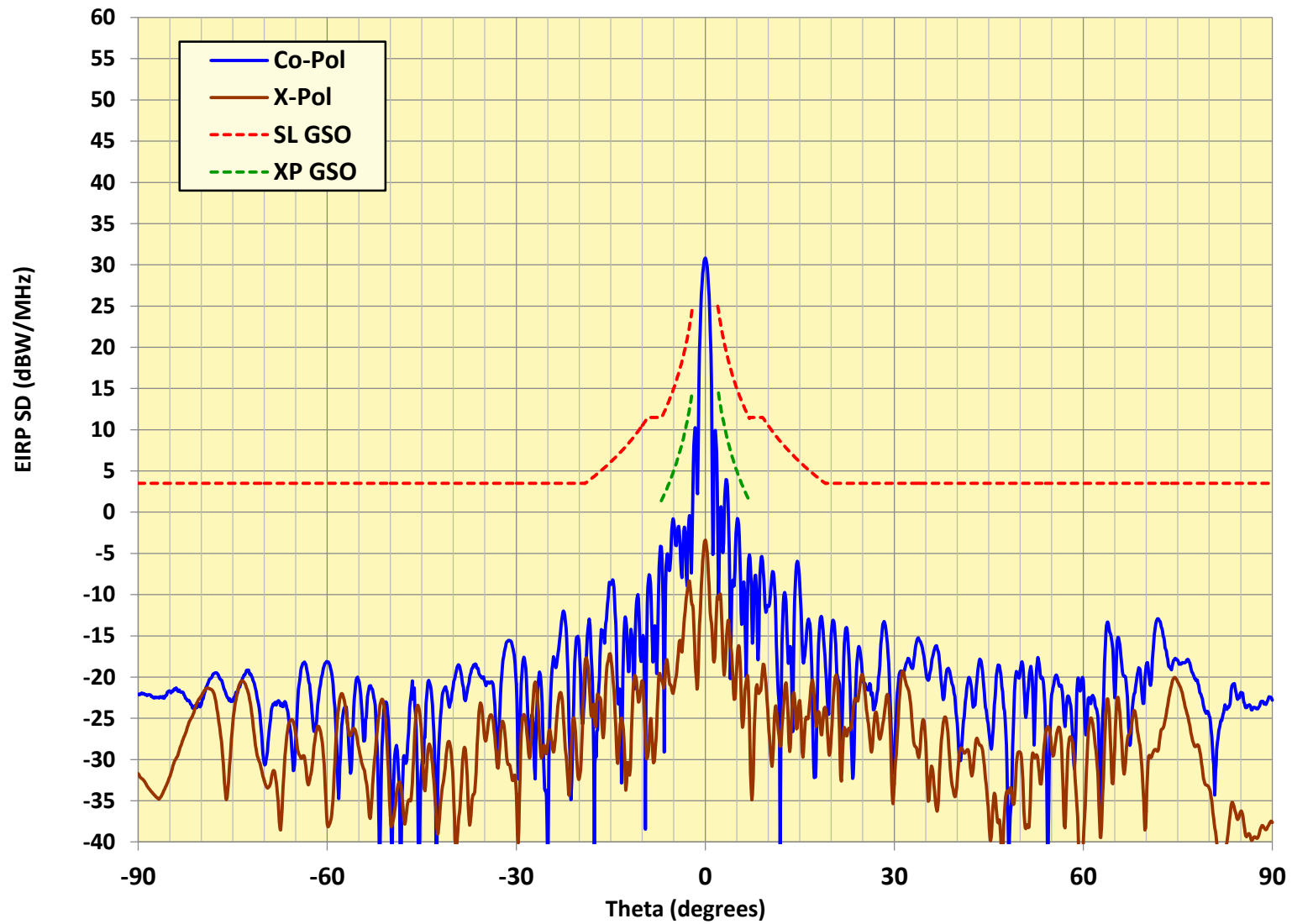
Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz

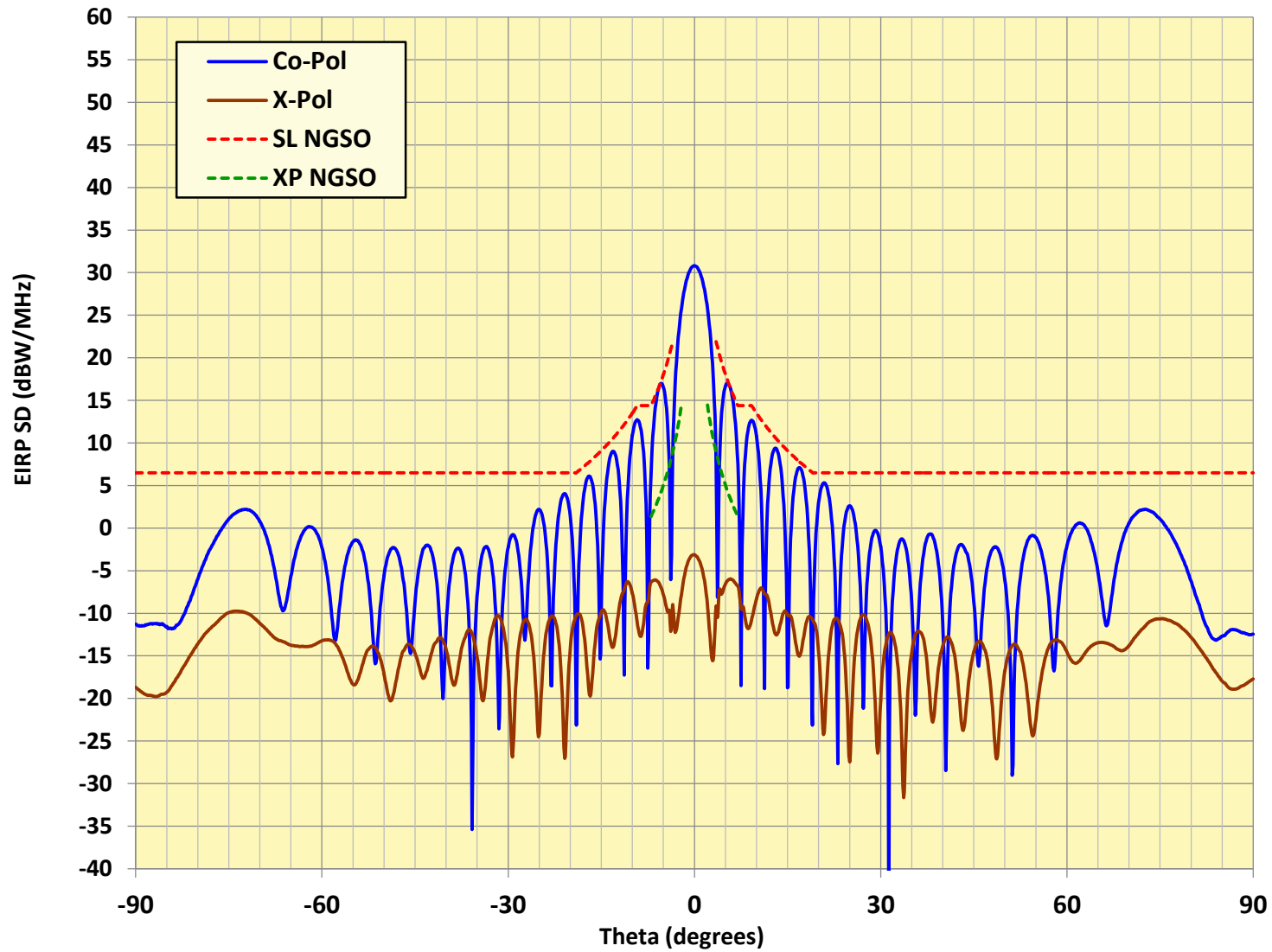


Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz



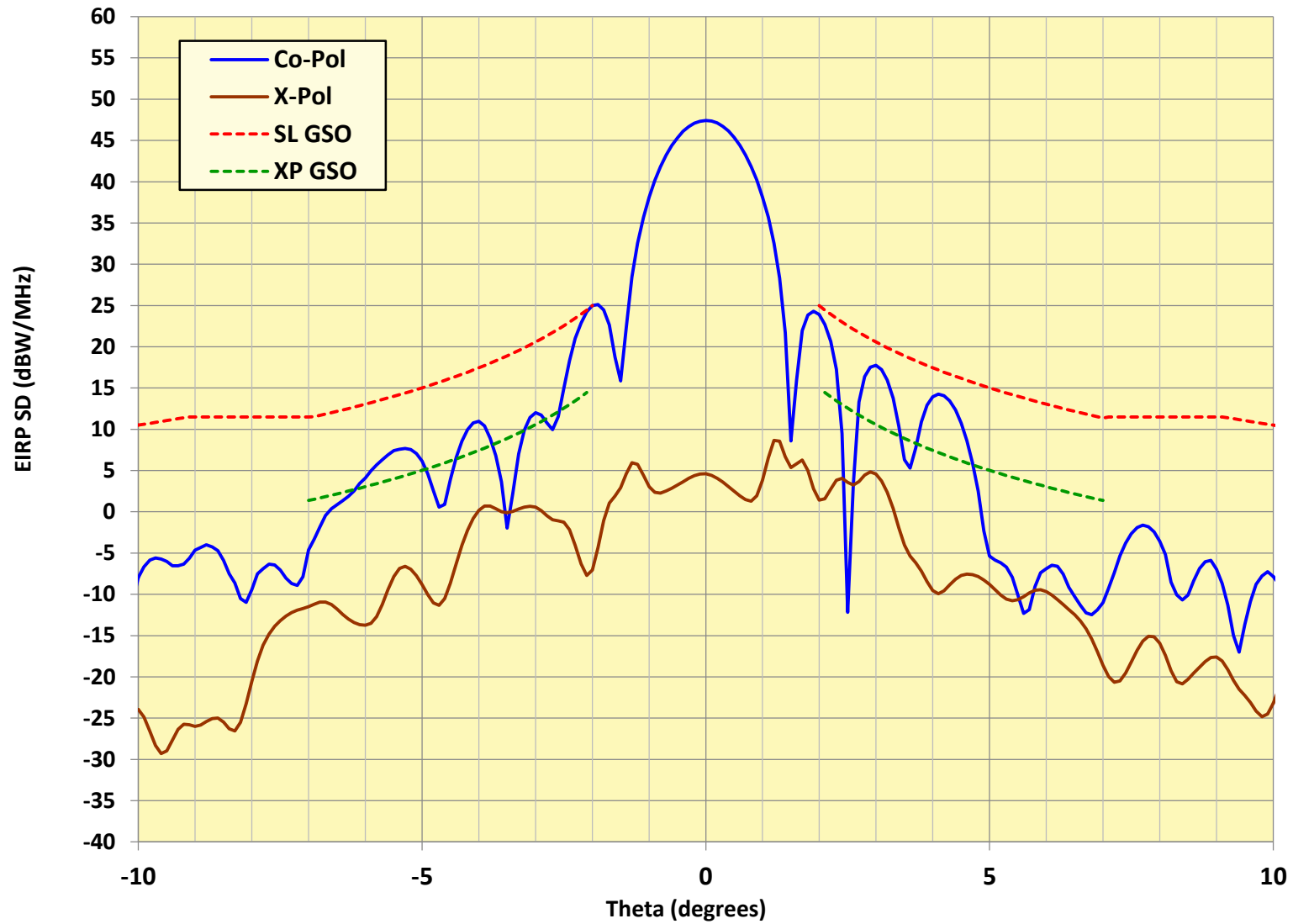


Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = RHCP, Skew = 0°, Pk EIRP = 30.8dBW/MHz

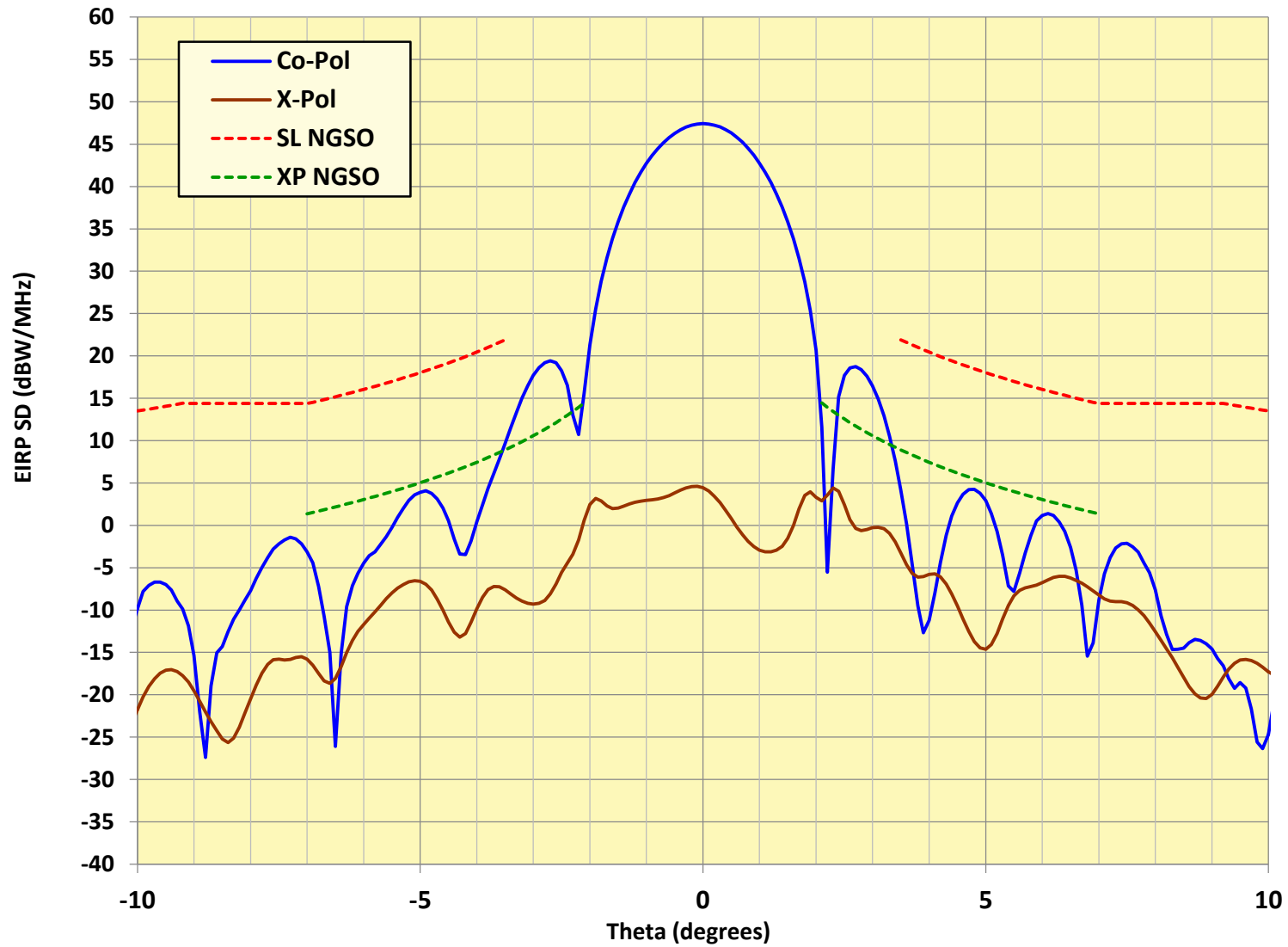


## **30 GHz at 35° Skew Angle**

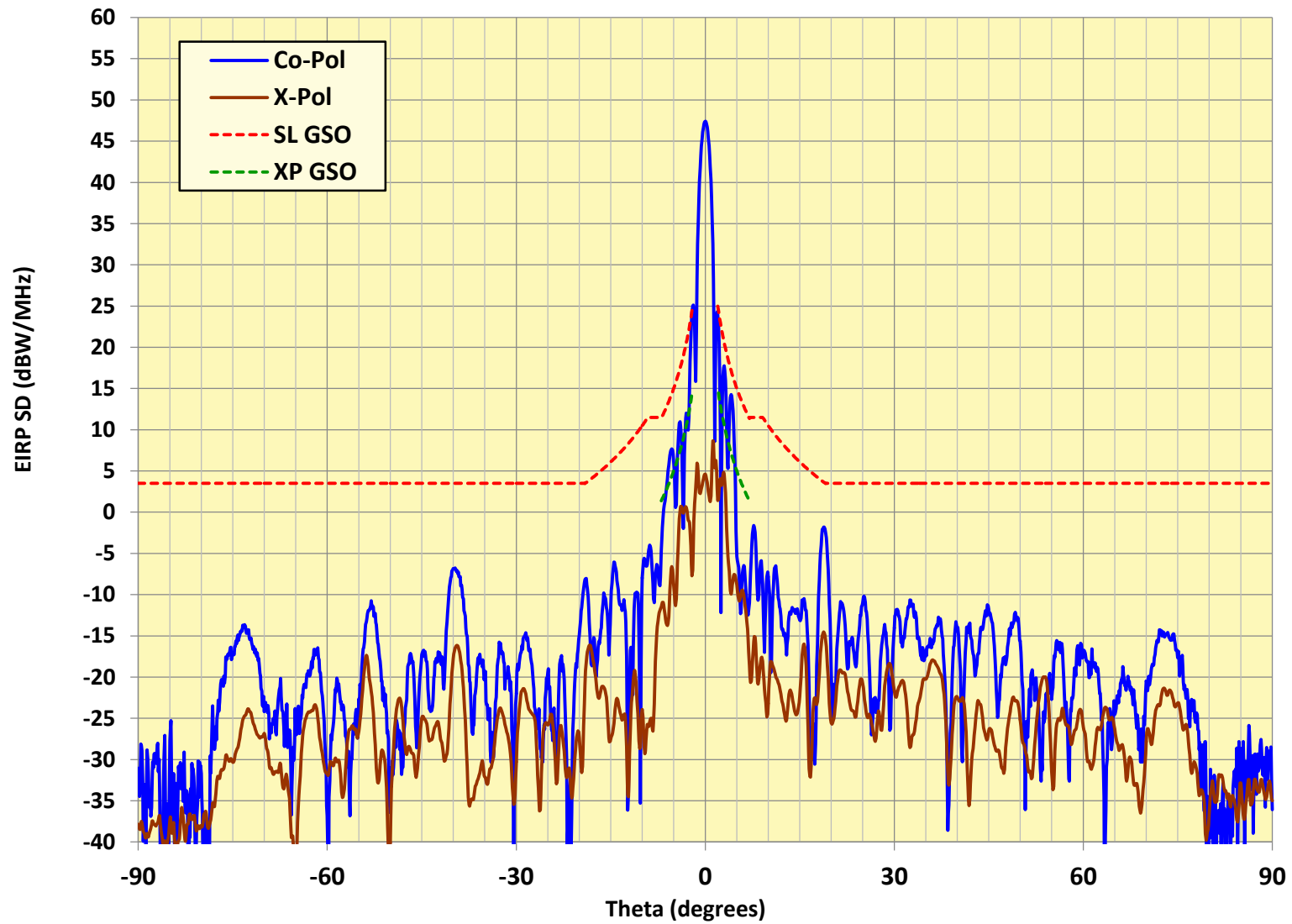
Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.4dBW/MHz



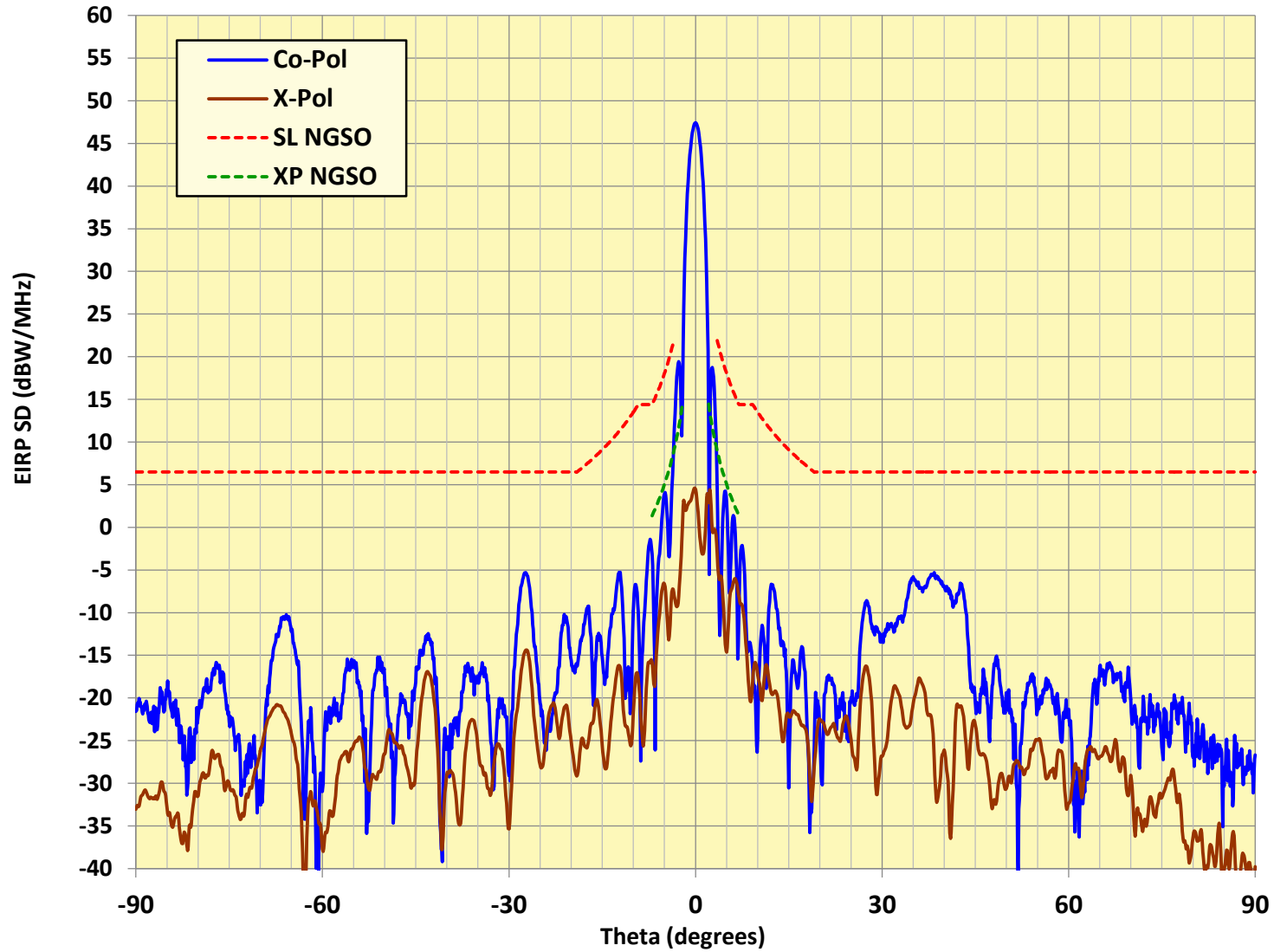
Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.4dBW/MHz



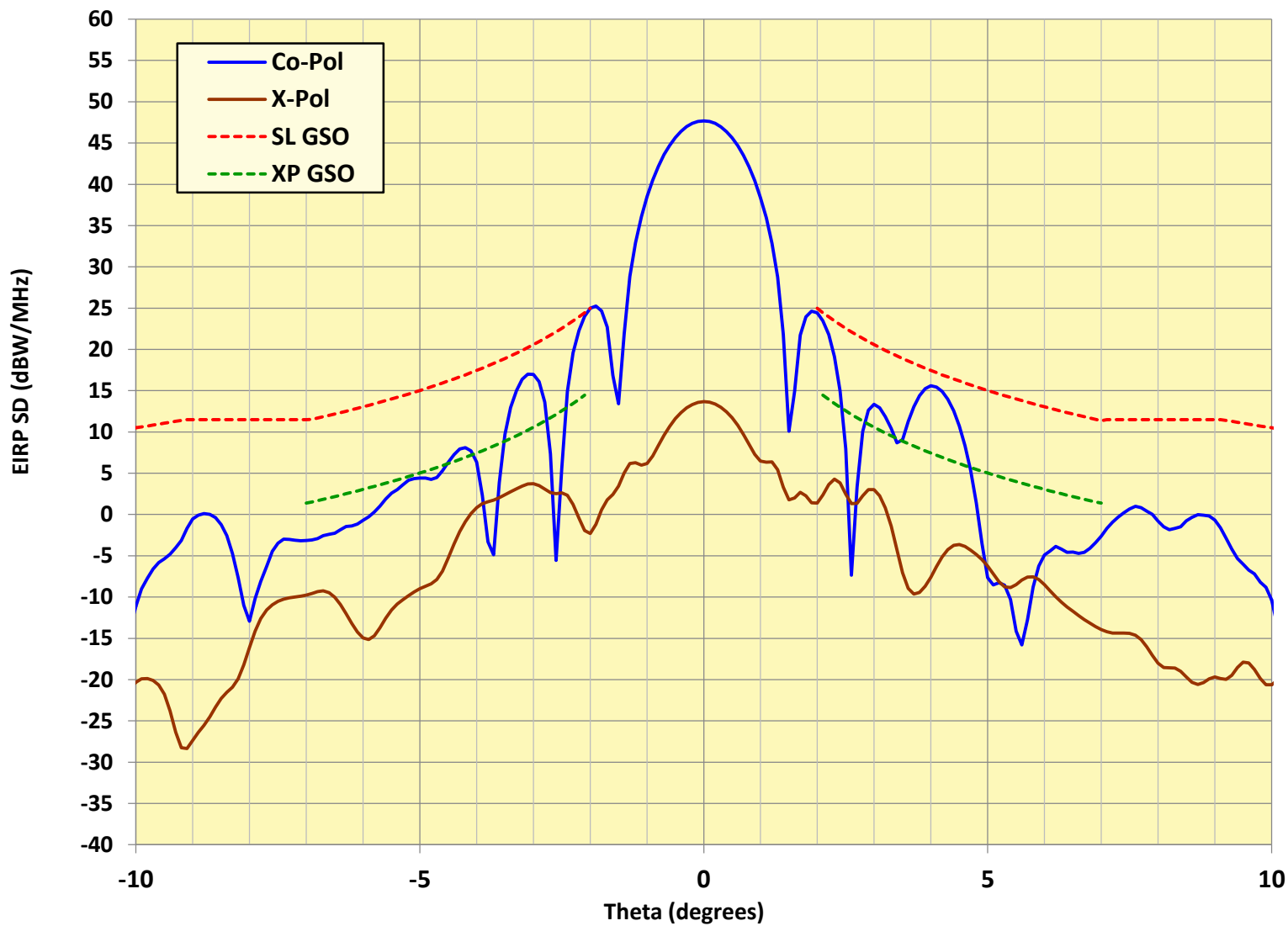
Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.4dBW/MHz



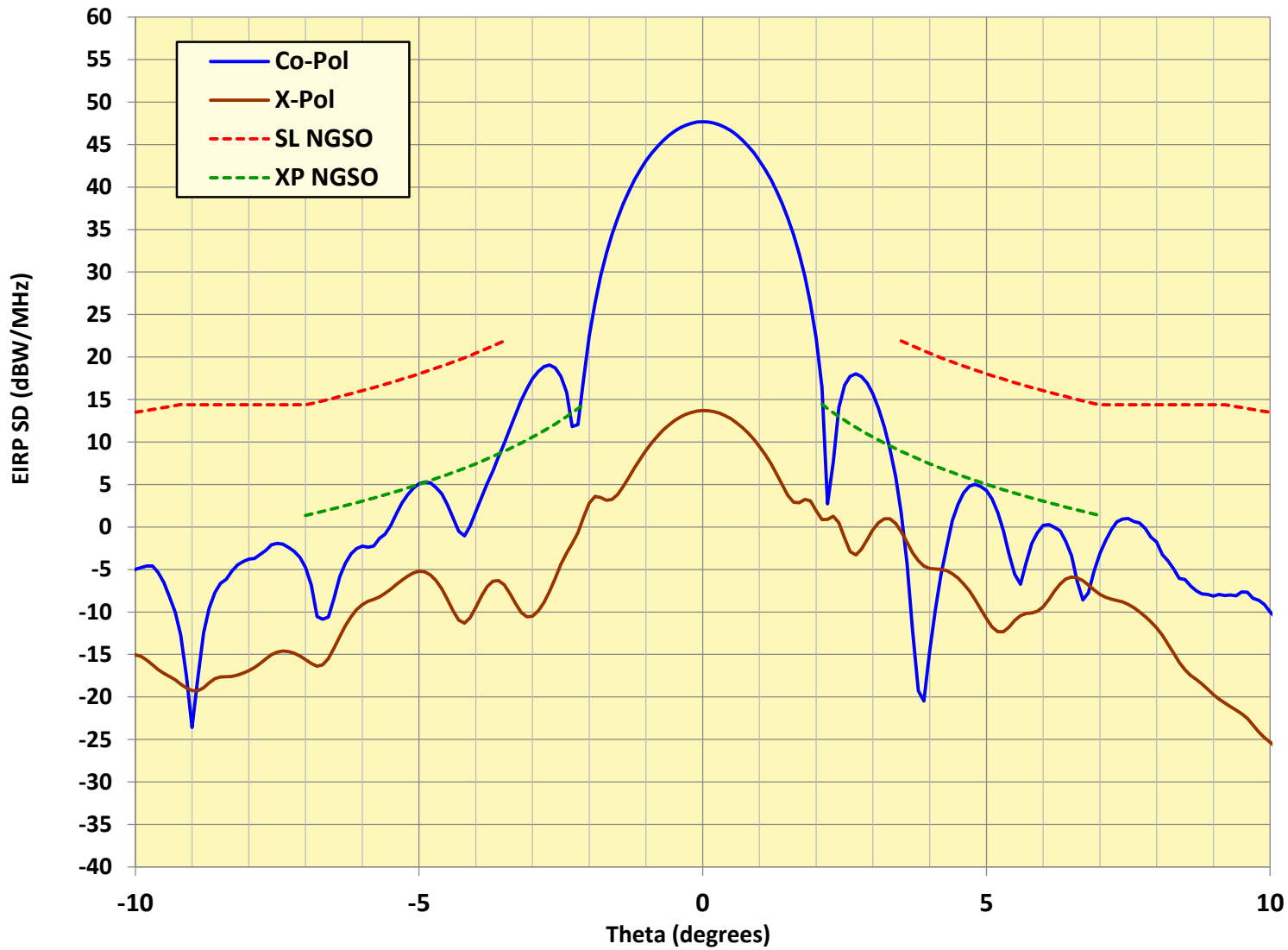
Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = LHCP, Skew = 35°, Pk EIRP = 47.4dBW/MHz



Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 47.7dBW/MHz

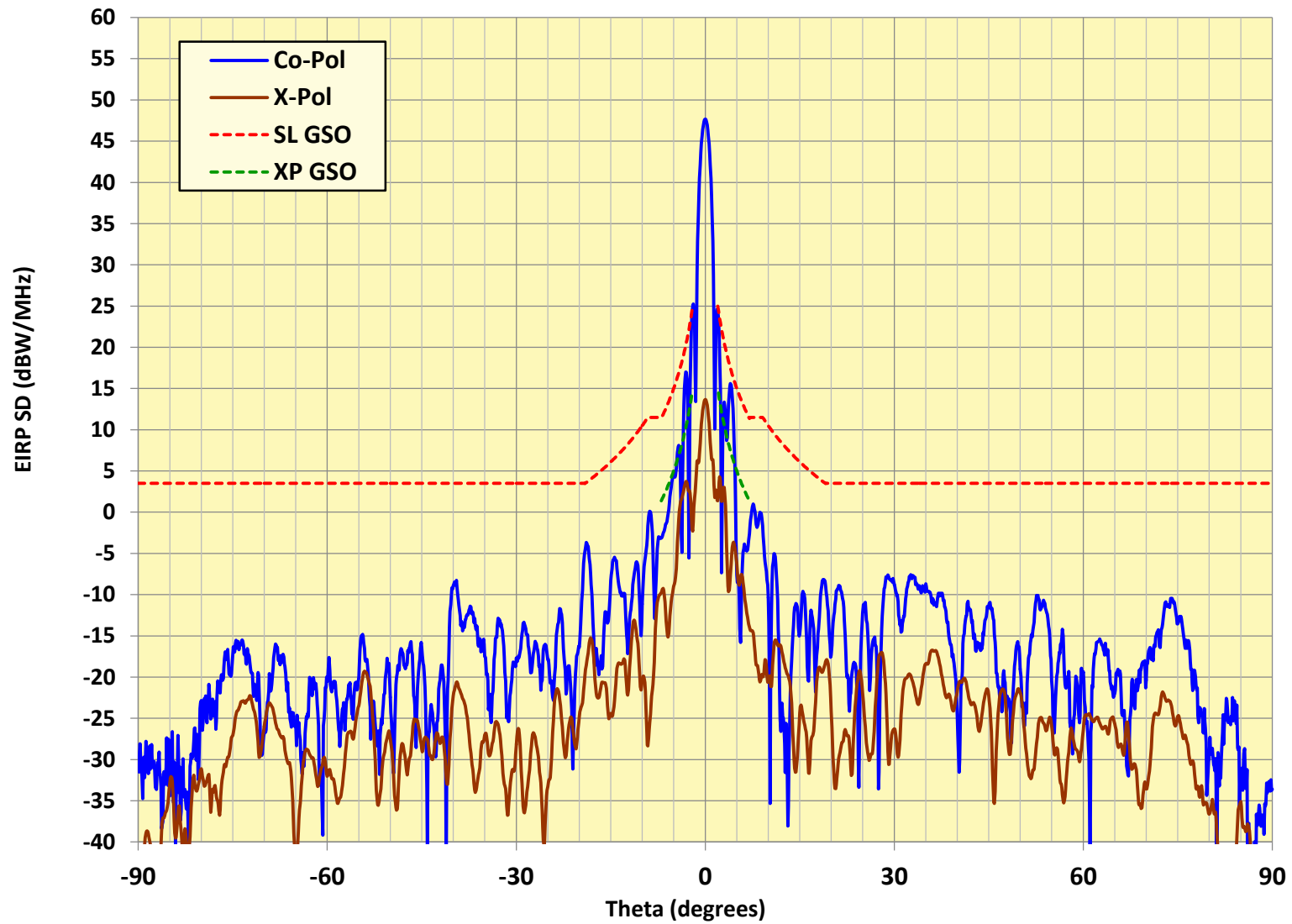


Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 47.7dBW/MHz

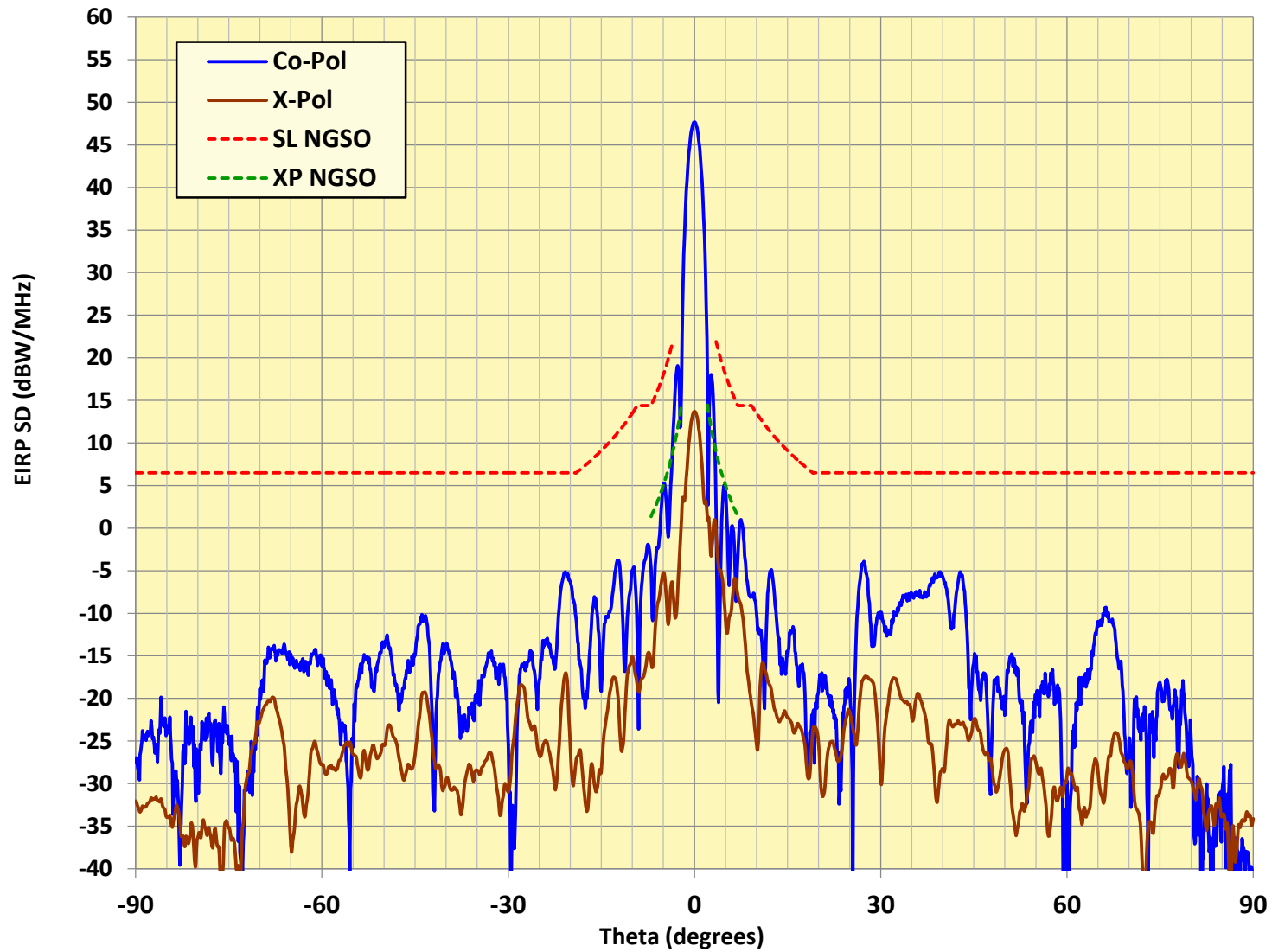




Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 47.7dBW/MHz

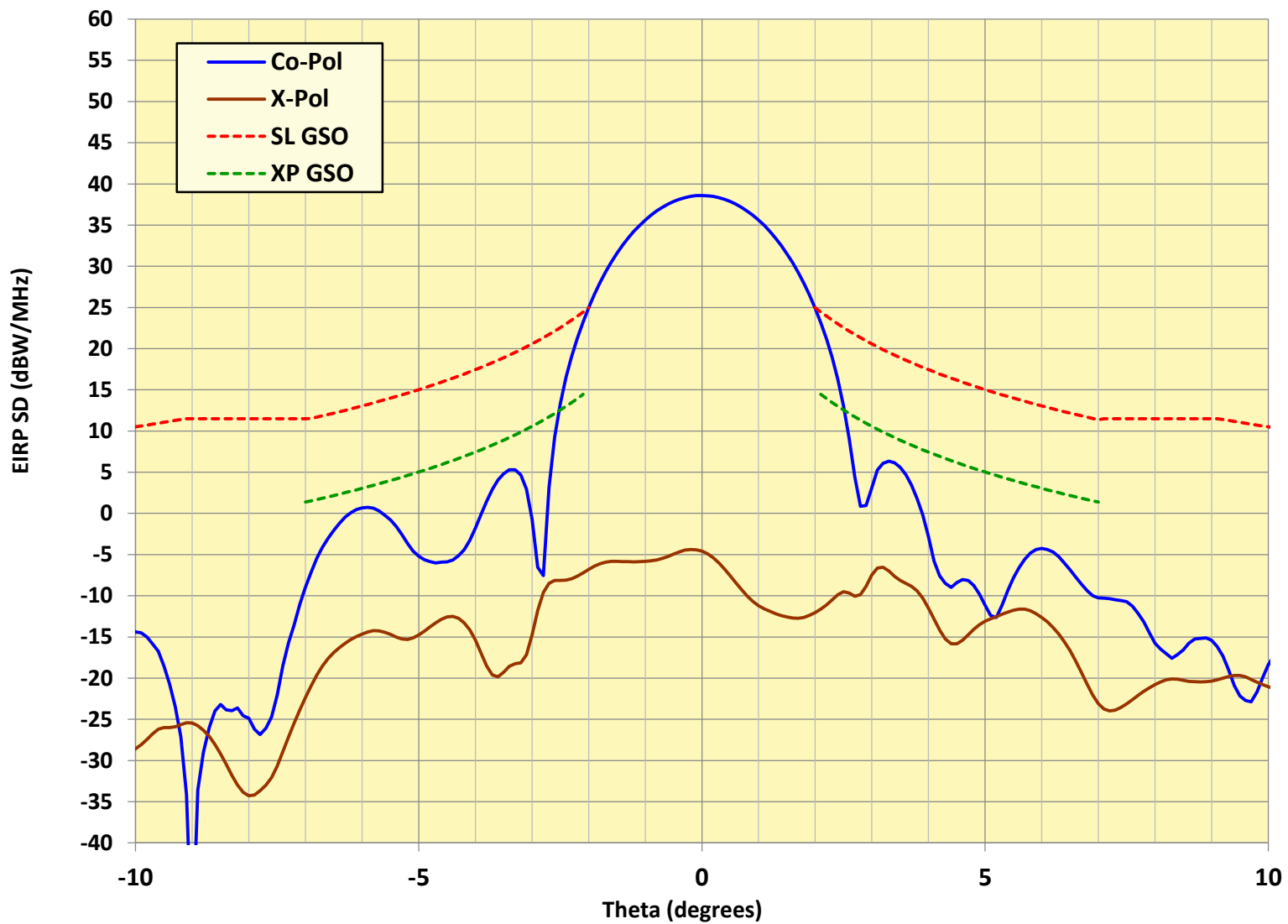


Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = RHCP, Skew = 35°, Pk EIRP = 47.7dBW/MHz

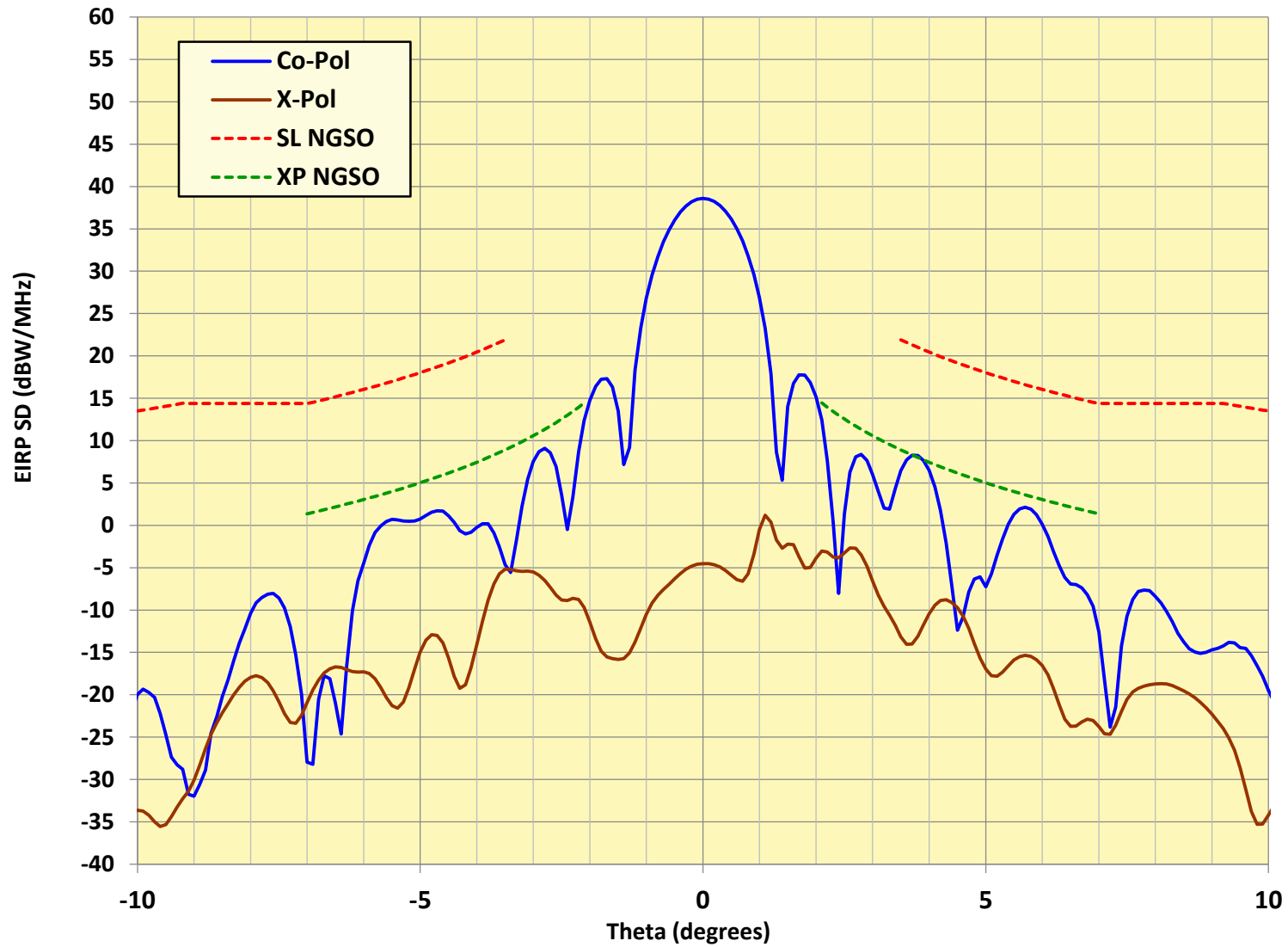


## **30 GHz at 65° Skew Angle**

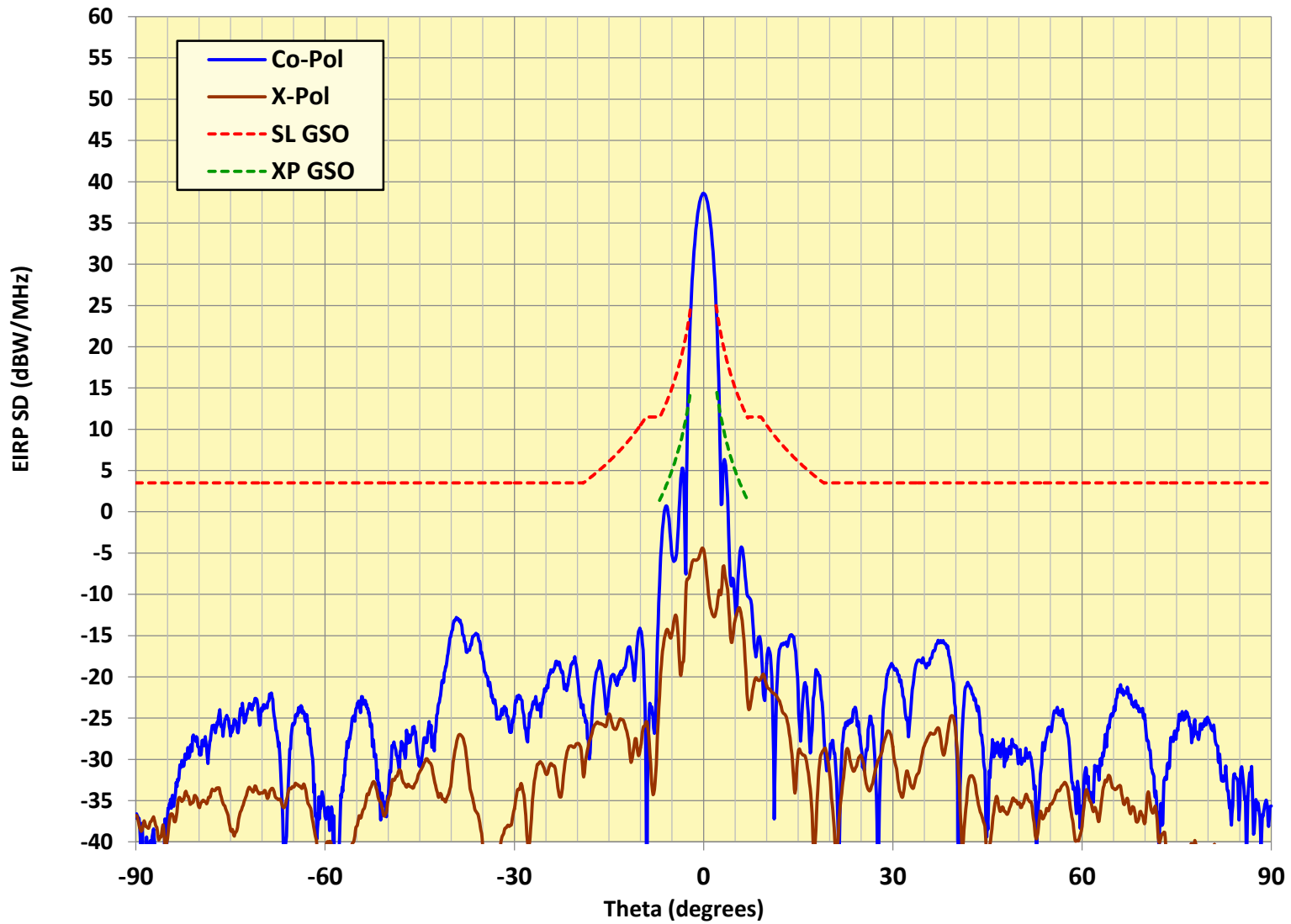
Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.6dBW/MHz



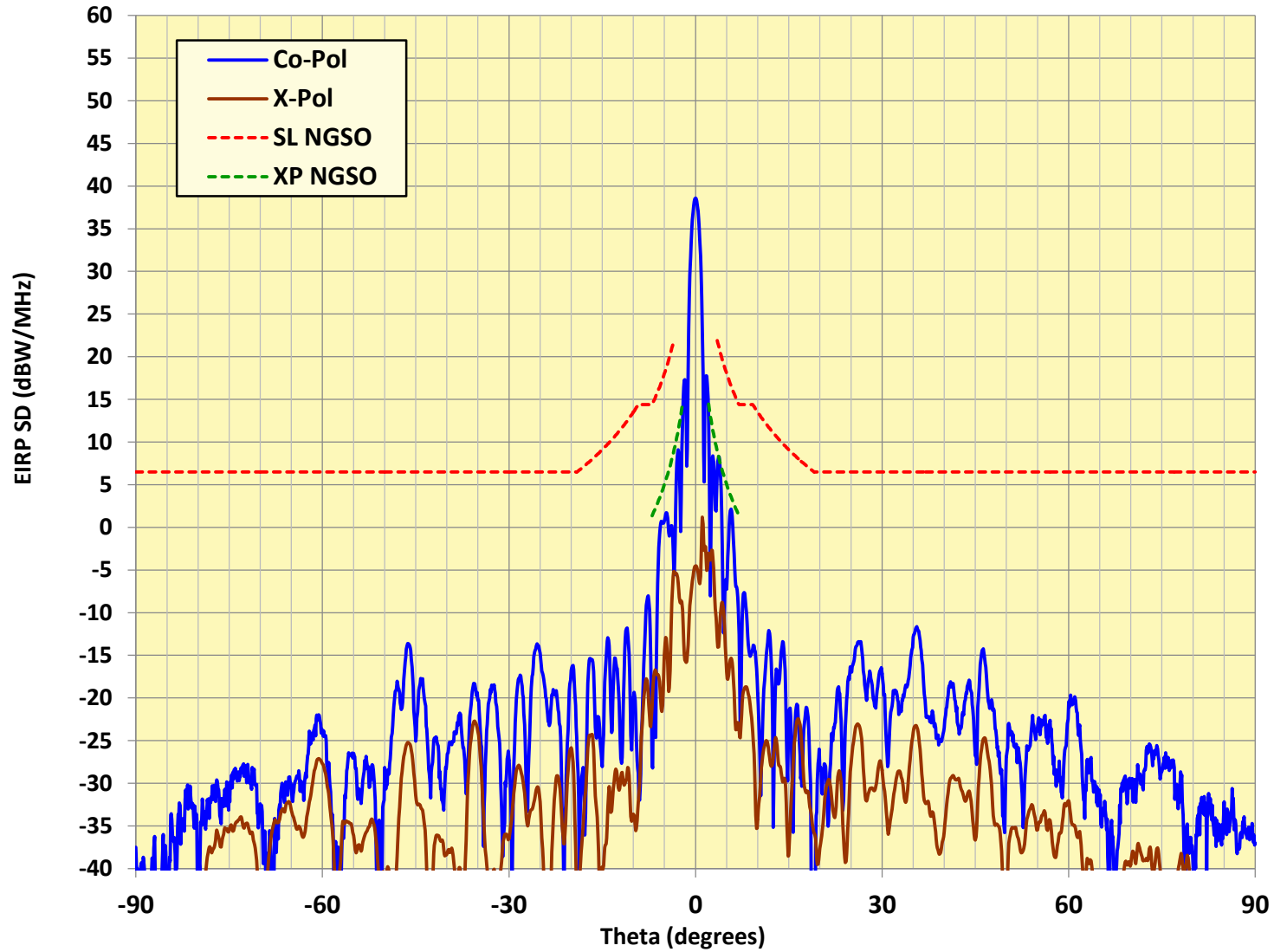
Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.6dBW/MHz



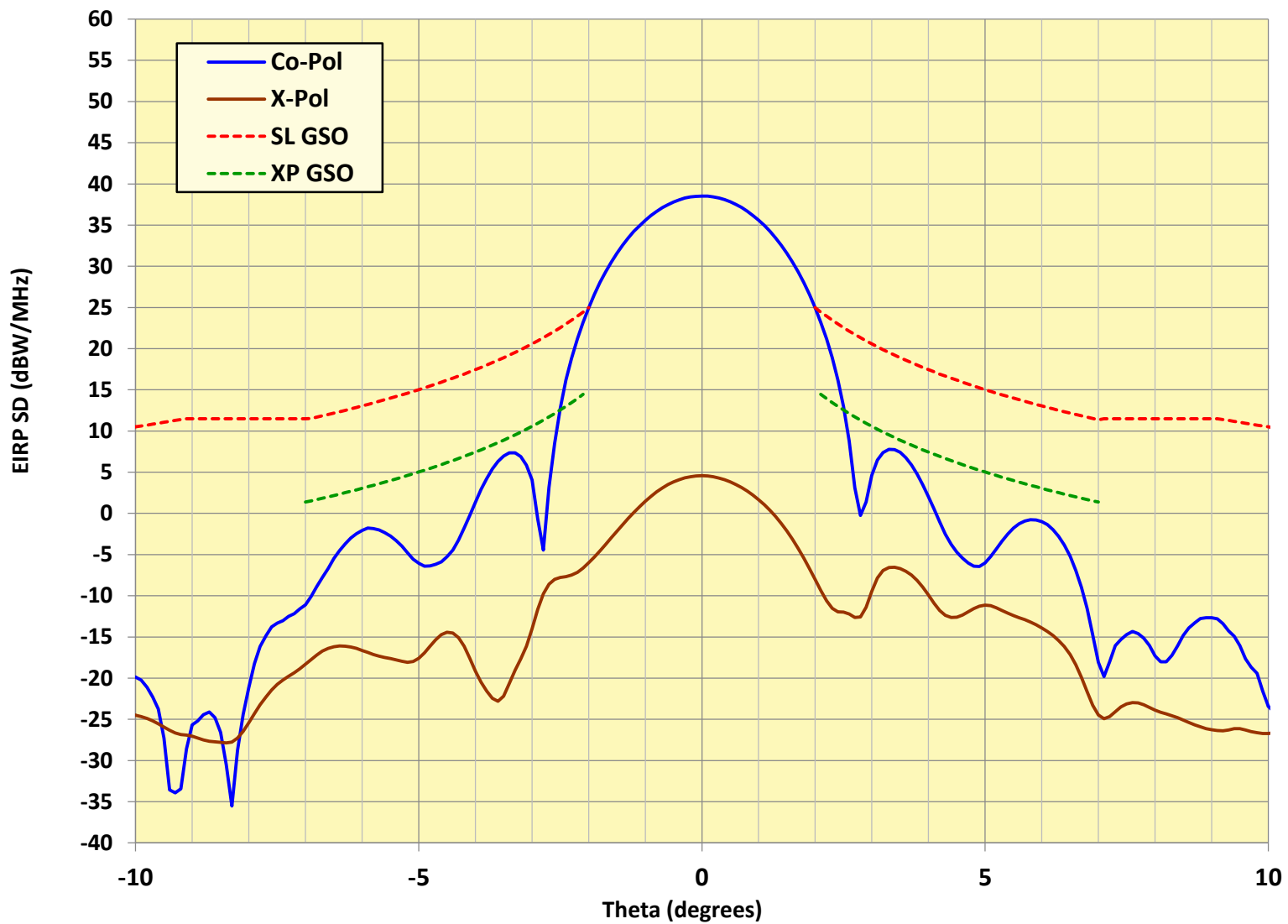
Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.6dBW/MHz



Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = LHCP, Skew = 65°, Pk EIRP = 38.6dBW/MHz

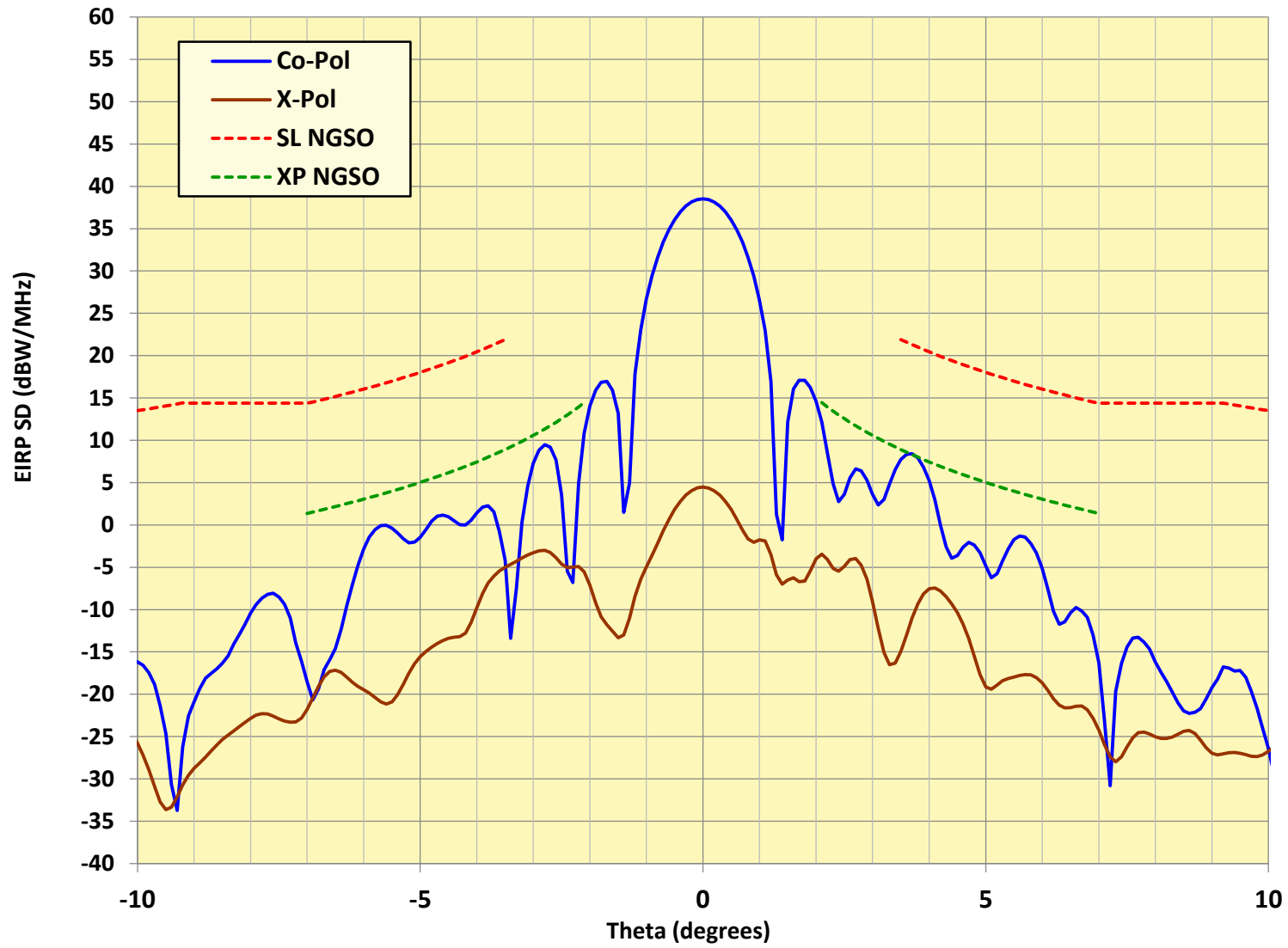


Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz

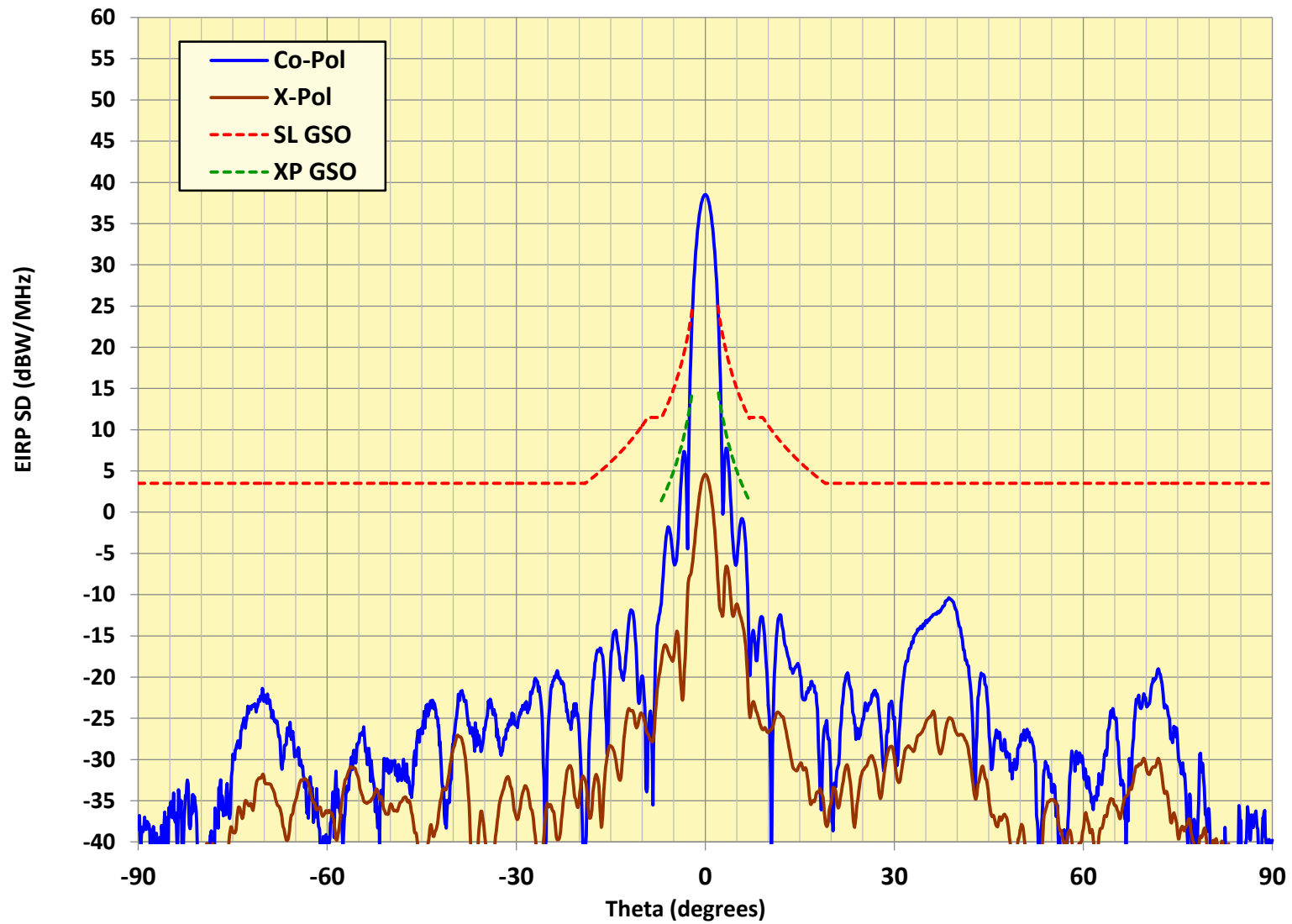




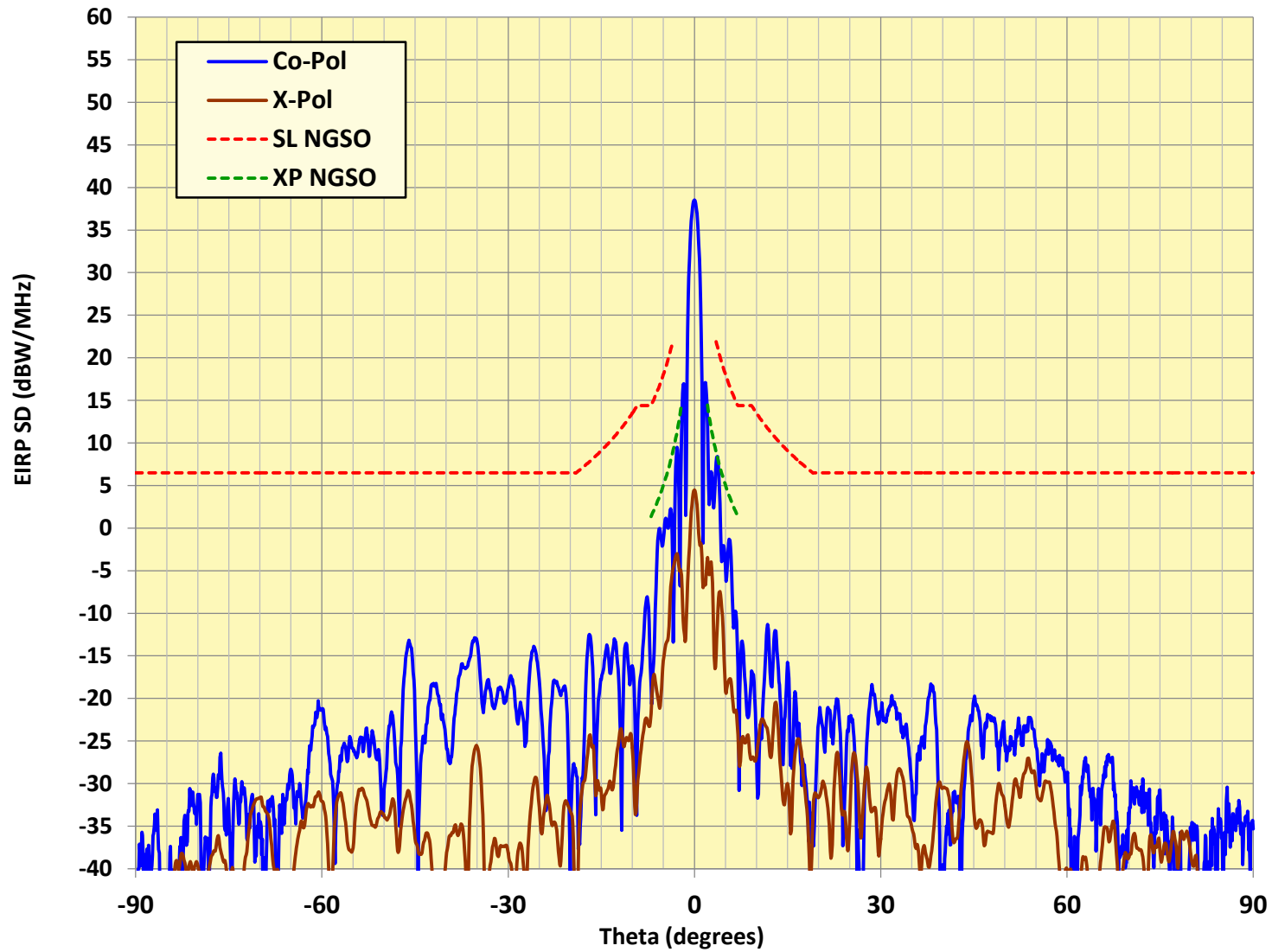
Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz



Q113000 SN0002 GSO: Freq = 30.0GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz



Q113000 SN0002 NGSO: Freq = 30.0GHz, Pol = RHCP, Skew = 65°, Pk EIRP = 38.5dBW/MHz



## **28.5 GHz Raw Data**

## **LHCP, Co-Pol, Azimuth**

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -13.12 | -24.81 | -17.84 | -24.64 | -22.97 | -21.41 | -20.13 | -25.15 | -28.77 | -26.53 | -29.90 | -26.79 | -28.69 | -36.79 | -40.39 | -47.64 | -52.69 | -41.22 | -16.03 |
| -80.00 | -14.68 | -18.91 | -13.80 | -21.28 | -21.31 | -19.20 | -21.58 | -22.54 | -34.32 | -21.07 | -28.02 | -33.83 | -30.70 | -39.90 | -40.54 | -38.81 | -56.62 | -40.19 | -17.11 |
| -70.00 | -2.99  | -10.24 | -17.20 | -27.26 | -19.13 | -28.79 | -22.26 | -20.55 | -21.23 | -27.12 | -21.08 | -18.74 | -33.91 | -24.10 | -38.35 | -30.99 | -31.98 | -41.35 | -4.79  |
| -60.00 | -19.34 | -9.44  | -27.40 | -13.64 | -23.35 | -12.58 | -11.83 | -14.25 | -22.03 | -25.87 | -10.43 | -14.74 | -18.25 | -23.51 | -27.77 | -40.54 | -33.20 | -44.25 | -3.48  |
| -50.00 | -5.97  | -14.29 | -13.25 | -17.28 | -12.08 | -20.31 | -28.47 | -12.02 | -18.78 | -19.49 | -18.29 | -15.23 | -18.98 | -34.63 | -30.38 | -28.67 | -32.23 | -34.05 | -11.88 |
| -40.00 | -8.55  | -4.54  | -15.52 | -9.25  | -8.93  | -22.96 | -6.94  | -17.45 | -15.36 | -14.05 | -15.56 | -10.86 | -14.93 | -17.80 | -21.88 | -25.62 | -25.19 | -24.30 | -5.73  |
| -30.00 | -5.32  | -4.31  | -11.14 | -5.91  | -14.68 | -14.85 | -13.58 | -11.02 | -10.37 | -6.10  | -18.98 | -7.73  | -23.43 | -30.41 | -28.53 | -36.46 | -38.07 | -26.57 | -2.19  |
| -20.00 | -3.56  | -4.40  | -6.48  | -10.87 | -2.76  | -19.45 | -10.50 | -4.24  | -13.51 | -9.24  | -1.85  | -11.41 | -16.86 | -35.09 | -27.39 | -19.56 | -22.24 | -20.69 | -21.37 |
| -10.00 | -0.38  | 0.56   | 0.22   | -7.30  | -2.15  | -0.73  | 3.44   | 1.03   | -1.86  | -5.32  | -5.05  | -8.85  | -17.95 | -14.21 | -20.22 | -13.41 | -8.32  | 2.85   | 9.36   |
| -9.00  | 5.33   | 6.53   | 6.14   | 1.67   | 2.94   | -2.42  | -0.01  | 0.76   | -2.49  | -5.31  | -5.42  | -7.03  | -9.63  | -19.53 | -56.07 | -23.34 | -11.47 | 3.71   | 8.07   |
| -8.00  | -3.48  | -0.49  | -0.69  | -0.42  | 6.14   | 3.25   | -2.07  | 0.50   | -8.21  | 1.43   | 1.87   | -9.27  | -10.08 | -12.20 | -32.47 | -27.99 | -48.34 | -10.08 | -11.42 |
| -7.00  | -0.84  | -0.82  | -1.11  | -2.47  | 0.56   | 0.38   | -2.19  | -2.01  | 3.89   | -1.05  | 0.01   | -4.79  | 1.72   | -13.71 | -14.61 | -8.62  | -12.17 | 6.41   | 8.48   |
| -6.00  | 6.58   | 8.26   | 8.42   | 9.29   | 11.80  | 5.35   | 5.67   | -0.80  | -14.47 | 0.33   | 0.89   | 4.78   | -0.51  | -10.25 | -8.79  | -4.74  | 3.55   | 12.87  | 13.02  |
| -5.00  | 8.81   | 9.48   | 9.74   | 6.85   | 9.27   | 4.44   | 0.34   | 4.33   | 9.68   | 10.66  | 9.71   | -5.45  | -6.73  | -13.85 | -6.15  | -9.93  | 8.30   | 13.07  | 12.55  |
| -4.00  | 7.94   | 9.54   | 12.84  | 11.56  | 16.34  | 17.13  | 12.85  | 14.60  | 10.43  | 2.32   | -10.91 | -0.52  | 1.07   | 1.15   | -2.29  | -5.63  | -2.38  | -4.92  | -17.58 |
| -3.00  | -2.71  | -3.74  | -0.23  | 0.93   | 15.59  | 10.42  | 16.69  | 10.26  | 8.69   | 13.65  | 18.22  | 19.99  | 16.41  | 1.32   | 6.25   | 13.25  | 16.04  | 17.62  | 17.07  |
| -2.00  | 20.10  | 21.95  | 23.17  | 24.40  | 24.97  | 24.97  | 24.97  | 24.59  | 23.09  | 17.18  | 4.28   | 21.91  | 24.96  | 24.96  | 24.95  | 24.97  | 24.97  | 24.95  | 23.77  |
| -1.00  | 31.36  | 33.01  | 34.52  | 35.13  | 36.71  | 36.96  | 37.99  | 38.94  | 40.18  | 41.46  | 43.18  | 43.71  | 39.72  | 35.16  | 32.29  | 30.32  | 29.02  | 28.28  | 26.83  |
| 0.00   | 44.13  | 45.89  | 47.08  | 47.34  | 47.86  | 47.22  | 47.05  | 47.00  | 47.20  | 47.43  | 48.18  | 48.01  | 43.26  | 37.91  | 34.41  | 31.92  | 30.23  | 29.29  | 27.76  |
| 1.00   | 31.32  | 32.85  | 34.46  | 35.04  | 36.58  | 36.74  | 37.99  | 38.86  | 40.13  | 41.41  | 43.16  | 43.60  | 39.75  | 35.19  | 32.32  | 30.32  | 28.96  | 28.26  | 26.83  |
| 2.00   | 18.67  | 20.39  | 22.29  | 23.09  | 24.26  | 24.11  | 23.97  | 23.51  | 21.92  | 14.96  | 7.09   | 23.08  | 24.97  | 24.97  | 24.97  | 24.95  | 24.88  | 24.94  | 23.77  |
| 3.00   | 11.23  | 12.89  | 13.29  | 13.55  | 16.50  | 16.20  | 19.89  | 18.53  | 15.14  | 11.76  | 16.65  | 18.91  | 15.68  | -0.41  | 7.13   | 13.50  | 16.31  | 17.62  | 17.00  |
| 4.00   | 0.65   | 1.76   | 4.26   | 6.89   | 12.78  | 13.00  | 12.87  | 9.76   | 8.96   | 11.30  | 10.87  | -2.36  | 0.96   | -1.55  | -5.67  | -5.49  | -6.26  | -8.88  | -7.06  |
| 5.00   | -16.15 | -25.30 | -6.14  | 1.17   | 11.24  | 11.82  | 4.58   | -6.99  | 0.88   | -0.37  | -10.26 | 4.78   | -3.55  | -16.27 | -3.92  | -9.48  | 5.61   | 12.87  | 12.68  |
| 6.00   | -1.19  | 1.05   | 0.54   | -0.14  | 10.26  | 7.18   | 6.10   | -6.51  | -9.92  | -4.47  | -11.17 | 0.26   | -7.31  | -3.40  | -9.18  | -2.60  | -0.26  | 12.71  | 12.91  |
| 7.00   | -2.56  | -0.93  | -0.93  | 0.77   | 2.28   | -15.41 | 0.10   | -3.58  | -2.57  | -8.77  | 4.17   | -7.82  | -1.62  | -14.67 | -9.93  | -7.60  | -17.73 | 6.28   | 8.95   |
| 8.00   | 6.17   | 7.12   | 6.87   | 3.69   | 2.01   | -7.56  | -18.76 | -4.10  | -6.77  | 5.33   | 1.02   | -2.75  | -18.08 | -13.59 | -26.41 | -25.76 | -33.67 | -11.22 | -19.67 |
| 9.00   | 1.78   | 3.43   | 4.81   | 3.20   | 2.56   | -3.27  | -2.18  | -0.42  | -7.77  | -11.17 | 1.77   | -3.43  | -17.45 | -13.45 | -16.05 | -17.66 | -10.62 | 3.50   | 7.74   |
| 10.00  | 7.71   | 8.13   | 9.27   | 6.31   | -0.39  | 0.20   | 2.15   | -0.24  | 1.01   | -10.49 | -11.83 | -9.70  | -19.04 | -10.91 | -11.72 | -11.43 | -9.69  | 2.90   | 9.27   |
| 20.00  | -5.64  | -6.99  | -6.46  | -5.83  | -3.61  | -5.65  | -22.85 | -4.73  | -7.44  | -20.03 | -8.29  | -24.72 | -8.98  | -14.56 | -22.71 | -24.17 | -28.26 | -55.62 | -19.78 |
| 30.00  | -4.97  | -4.82  | -10.56 | -9.24  | -10.21 | -8.61  | -16.15 | -11.83 | -16.61 | -7.70  | -8.31  | -9.33  | -15.04 | -22.01 | -32.80 | -37.16 | -43.66 | -20.66 | -2.48  |
| 40.00  | -10.10 | -3.42  | -16.07 | -12.41 | -15.84 | -10.03 | -3.91  | -10.31 | -13.95 | -21.19 | -8.60  | -9.38  | -16.69 | -32.52 | -22.77 | -32.67 | -34.56 | -26.25 | -4.58  |
| 50.00  | -9.48  | -11.84 | -11.15 | -13.63 | -17.62 | -11.24 | -15.13 | -17.75 | -20.93 | -6.96  | -11.61 | -20.07 | -16.12 | -21.79 | -25.87 | -33.26 | -30.03 | -32.17 | -11.67 |
| 60.00  | -12.87 | -22.07 | -14.61 | -29.58 | -7.72  | -24.78 | -17.61 | -20.11 | -14.13 | -19.84 | -7.03  | -20.10 | -17.22 | -33.09 | -39.00 | -30.41 | -40.56 | -26.02 | -3.54  |
| 70.00  | -7.37  | -11.59 | -13.76 | -19.66 | -23.48 | -15.87 | -16.19 | -23.09 | -26.73 | -16.39 | -18.59 | -15.38 | -33.47 | -31.36 | -32.20 | -37.25 | -30.60 | -40.38 | -4.15  |
| 80.00  | -9.83  | -18.96 | -25.45 | -20.46 | -26.49 | -30.15 | -33.30 | -46.96 | -25.43 | -29.93 | -21.40 | -25.48 | -43.36 | -35.06 | -33.81 | -39.45 | -45.89 | -36.05 | -16.47 |
| 90.00  | -12.63 | -22.68 | -26.74 | -22.43 | -22.71 | -29.94 | -29.69 | -31.76 | -26.96 | -28.14 | -22.53 | -25.61 | -34.26 | -37.60 | -38.64 | -37.45 | -50.09 | -37.18 | -15.38 |

## LHCP, Co-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -13.03 | -38.20 | -43.10 | -34.14 | -26.80 | -23.72 | -20.07 | -21.14 | -26.57 | -21.43 | -24.38 | -20.86 | -15.01 | -18.27 | -20.24 | -22.49 | -16.05 | -22.02 | -10.12 |
| -80.00 | -14.11 | -37.16 | -47.02 | -25.31 | -26.95 | -26.83 | -22.08 | -28.18 | -24.70 | -15.97 | -29.93 | -18.26 | -16.46 | -16.06 | -18.59 | -19.13 | -12.02 | -16.11 | -11.68 |
| -70.00 | -1.79  | -38.32 | -22.38 | -17.50 | -24.76 | -11.03 | -25.29 | -13.09 | -17.75 | -22.02 | -16.84 | -16.27 | -17.14 | -25.65 | -16.41 | -25.12 | -15.41 | -7.44  | 0.01   |
| -60.00 | -0.48  | -41.23 | -23.60 | -27.04 | -14.17 | -10.44 | -9.63  | -9.10  | -7.11  | -20.77 | -17.64 | -9.97  | -6.71  | -9.44  | -20.63 | -11.49 | -25.62 | -6.65  | -16.34 |
| -50.00 | -8.88  | -31.02 | -22.63 | -15.17 | -16.79 | -21.56 | -10.36 | -9.58  | -14.96 | -14.38 | -14.39 | -7.74  | -23.34 | -17.17 | -9.36  | -15.13 | -11.47 | -11.49 | -2.97  |
| -40.00 | -2.73  | -21.27 | -15.60 | -12.13 | -8.28  | -4.73  | -6.32  | -5.21  | -12.23 | -8.95  | -10.97 | -13.17 | -1.82  | -19.82 | -6.20  | -7.10  | -13.74 | -1.74  | -5.55  |
| -30.00 | 0.81   | -23.55 | -28.48 | -22.97 | -14.94 | -17.34 | -14.82 | -2.08  | -15.66 | -1.00  | -5.98  | -6.74  | -8.45  | -11.71 | -11.96 | -3.77  | -9.35  | -1.51  | -2.32  |
| -20.00 | -18.37 | -17.67 | -12.65 | -6.06  | -13.80 | -22.02 | -8.24  | -5.76  | 1.48   | -4.14  | -9.12  | 0.04   | -5.38  | -16.31 | -0.04  | -8.72  | -4.70  | -1.60  | -0.56  |
| -10.00 | 12.36  | 5.88   | 1.28   | 0.09   | -6.63  | -1.13  | -9.33  | -3.21  | -1.72  | -0.22  | 2.53   | 5.31   | 8.56   | 2.41   | 0.57   | -5.15  | 2.00   | 3.36   | 2.62   |
| -9.00  | 11.07  | 6.73   | -1.87  | -9.84  | -42.47 | -6.45  | -1.01  | -1.38  | -2.09  | -0.21  | 1.90   | 5.05   | 5.11   | 0.73   | 5.66   | 3.82   | 7.92   | 9.32   | 8.33   |
| -8.00  | -8.42  | -7.06  | -38.74 | -14.49 | -18.87 | 0.87   | -1.46  | -3.63  | 5.20   | 6.53   | -3.82  | 4.79   | 3.05   | 6.39   | 8.86   | 1.73   | 1.09   | 2.31   | -0.48  |
| -7.00  | 11.48  | 9.44   | -2.58  | 4.88   | -1.01  | -0.63  | 10.34  | 0.86   | 3.34   | 4.06   | 8.28   | 2.27   | 2.93   | 3.52   | 3.28   | -0.32  | 0.67   | 1.98   | 2.16   |
| -6.00  | 16.02  | 15.90  | 13.14  | 8.75   | 4.80   | 2.82   | 8.11   | 10.43  | 4.22   | 5.43   | -10.08 | 3.49   | 10.79  | 8.49   | 14.52  | 11.44  | 10.21  | 11.06  | 9.58   |
| -5.00  | 15.55  | 16.10  | 17.90  | 3.57   | 7.44   | -0.78  | 1.89   | 0.19   | 13.04  | 15.76  | 14.07  | 8.62   | 5.46   | 7.58   | 11.99  | 9.00   | 11.52  | 12.28  | 11.81  |
| -4.00  | -14.58 | -1.89  | 7.21   | 7.87   | 11.31  | 14.22  | 9.69   | 5.13   | -7.59  | 7.42   | 14.82  | 18.88  | 17.97  | 20.27  | 19.06  | 13.71  | 14.63  | 12.34  | 10.94  |
| -3.00  | 20.07  | 20.64  | 25.64  | 26.75  | 19.85  | 14.39  | 25.03  | 25.64  | 21.54  | 18.76  | 13.08  | 14.55  | 21.81  | 13.56  | 18.32  | 3.08   | 1.56   | -0.94  | 0.29   |
| -2.00  | 26.77  | 27.98  | 34.57  | 38.47  | 38.55  | 38.03  | 33.58  | 27.56  | 7.61   | 22.29  | 27.48  | 28.87  | 30.10  | 28.11  | 27.70  | 26.55  | 24.95  | 24.75  | 23.10  |
| -1.00  | 29.83  | 31.31  | 38.62  | 43.82  | 45.88  | 48.23  | 48.33  | 49.35  | 46.51  | 46.56  | 44.57  | 43.22  | 43.12  | 40.11  | 39.44  | 37.28  | 36.30  | 35.80  | 34.36  |
| 0.00   | 30.76  | 32.31  | 39.83  | 45.42  | 48.01  | 50.98  | 51.88  | 53.66  | 51.51  | 52.53  | 51.59  | 51.28  | 52.17  | 50.36  | 50.58  | 49.48  | 48.86  | 48.69  | 47.13  |
| 1.00   | 29.83  | 31.29  | 38.55  | 43.82  | 45.91  | 48.26  | 48.37  | 49.25  | 46.48  | 46.51  | 44.52  | 43.14  | 43.11  | 39.88  | 39.31  | 37.19  | 36.24  | 35.65  | 34.32  |
| 2.00   | 26.77  | 27.96  | 34.48  | 38.45  | 38.57  | 38.05  | 33.59  | 28.73  | 10.42  | 20.06  | 26.31  | 27.79  | 29.09  | 27.26  | 26.98  | 25.24  | 24.08  | 23.19  | 21.67  |
| 3.00   | 20.00  | 20.65  | 25.91  | 27.00  | 20.72  | 12.66  | 24.30  | 24.56  | 19.97  | 16.86  | 19.53  | 22.81  | 25.02  | 19.34  | 19.22  | 15.70  | 15.07  | 15.69  | 14.23  |
| 4.00   | -4.06  | -5.85  | 3.33   | 8.01   | 7.93   | 11.52  | 9.58   | 3.29   | 14.19  | 16.40  | 13.35  | 14.05  | 17.99  | 16.14  | 15.50  | 9.03   | 6.04   | 4.56   | 3.65   |
| 5.00   | 15.68  | 15.90  | 15.21  | 4.02   | 9.67   | -3.20  | 5.07   | 10.42  | -6.93  | 4.73   | 5.27   | -2.70  | 9.70   | 14.96  | 13.97  | 3.32   | -4.36  | -22.51 | -13.15 |
| 6.00   | 15.91  | 15.74  | 9.34   | 10.90  | 4.42   | 9.68   | 1.31   | 5.91   | -7.84  | 0.63   | -5.53  | -2.23  | 11.23  | 10.32  | 12.98  | 2.01   | 2.32   | 3.85   | 1.81   |
| 7.00   | 11.95  | 9.31   | -8.14  | 5.90   | 3.67   | -1.60  | 7.00   | -2.17  | 7.50   | -3.67  | 1.81   | 0.71   | 5.22   | -12.27 | 5.00   | 2.92   | 0.85   | 1.87   | 0.44   |
| 8.00   | -16.67 | -8.19  | -24.08 | -12.26 | -12.82 | -0.52  | -9.46  | 2.89   | 4.34   | 10.43  | -2.38  | 0.19   | -13.64 | -4.42  | 4.73   | 5.84   | 8.65   | 9.92   | 9.17   |
| 9.00   | 10.74  | 6.53   | -1.02  | -4.16  | -2.46  | -0.38  | -8.84  | 2.22   | 5.09   | -6.07  | -3.38  | 3.86   | 2.94   | -0.13  | 5.28   | 5.35   | 6.59   | 6.23   | 4.78   |
| 10.00  | 12.27  | 5.93   | -0.10  | 2.07   | 1.88   | 2.16   | -10.42 | -4.05  | -8.50  | -5.39  | 5.39   | 4.04   | 7.27   | 3.34   | 2.33   | 8.46   | 11.05  | 10.93  | 10.71  |
| 20.00  | -16.78 | -52.60 | -18.67 | -10.67 | -9.11  | -1.49  | -0.36  | -19.07 | -4.96  | -14.93 | -3.05  | -0.45  | -17.73 | -2.51  | -0.89  | -3.68  | -4.68  | -4.19  | -2.64  |
| 30.00  | 0.52   | -17.63 | -34.06 | -23.66 | -19.21 | -8.94  | -6.43  | -3.68  | -4.99  | -2.60  | -12.22 | -7.55  | -11.03 | -5.47  | -7.49  | -7.09  | -8.78  | -2.02  | -1.97  |
| 40.00  | -1.58  | -23.23 | -24.96 | -19.18 | -9.17  | -19.44 | -8.07  | -3.73  | -5.27  | -16.09 | -9.56  | -6.03  | 1.22   | -6.89  | -13.12 | -10.27 | -14.28 | -0.62  | -7.10  |
| 50.00  | -8.67  | -29.14 | -20.43 | -19.76 | -12.27 | -8.72  | -7.51  | -14.43 | -8.29  | -1.86  | -16.54 | -13.47 | -10.01 | -8.10  | -14.90 | -11.48 | -9.36  | -9.04  | -6.48  |
| 60.00  | -0.54  | -23.00 | -30.97 | -16.91 | -25.40 | -20.02 | -8.60  | -14.45 | -3.70  | -14.74 | -9.74  | -15.83 | -12.49 | -21.64 | -5.00  | -27.43 | -12.83 | -19.27 | -9.87  |
| 70.00  | -1.15  | -37.36 | -21.00 | -23.75 | -18.61 | -18.29 | -24.85 | -9.73  | -15.26 | -11.29 | -22.34 | -18.80 | -11.07 | -12.73 | -20.76 | -17.52 | -11.98 | -8.79  | -4.37  |
| 80.00  | -13.47 | -33.02 | -36.30 | -25.96 | -20.21 | -21.99 | -34.74 | -19.84 | -18.07 | -24.82 | -21.04 | -42.68 | -28.18 | -27.01 | -23.76 | -18.31 | -23.67 | -16.16 | -6.83  |
| 90.00  | -12.38 | -34.16 | -40.50 | -23.95 | -25.05 | -24.53 | -25.64 | -19.96 | -19.21 | -23.04 | -22.57 | -27.47 | -24.57 | -26.80 | -19.99 | -20.28 | -24.96 | -19.89 | -9.63  |

## LHCP, Cross-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -30.90 | -27.76 | -25.83 | -28.20 | -31.21 | -30.43 | -33.85 | -38.32 | -37.54 | -37.08 | -31.14 | -32.56 | -44.30 | -38.56 | -40.94 | -47.05 | -52.06 | -51.78 | -24.37 |
| -80.00 | -26.30 | -26.01 | -23.28 | -28.58 | -28.57 | -28.81 | -34.44 | -41.81 | -43.28 | -31.52 | -32.19 | -31.06 | -44.74 | -40.64 | -42.14 | -51.71 | -49.62 | -52.33 | -23.03 |
| -70.00 | -15.22 | -23.68 | -24.49 | -34.77 | -23.78 | -36.85 | -27.16 | -35.45 | -32.38 | -28.13 | -25.28 | -26.71 | -42.29 | -39.08 | -42.65 | -49.84 | -40.13 | -44.10 | -20.96 |
| -60.00 | -21.30 | -24.29 | -23.95 | -31.73 | -26.95 | -22.40 | -34.91 | -29.98 | -23.68 | -30.72 | -20.55 | -22.00 | -22.16 | -35.15 | -30.57 | -40.42 | -39.25 | -40.41 | -21.71 |
| -50.00 | -24.29 | -20.35 | -21.87 | -21.41 | -18.72 | -24.47 | -23.29 | -22.80 | -26.08 | -23.95 | -30.64 | -24.53 | -30.16 | -30.36 | -35.93 | -48.22 | -42.41 | -43.25 | -14.82 |
| -40.00 | -17.06 | -24.99 | -19.86 | -27.78 | -29.04 | -25.74 | -13.70 | -26.71 | -28.16 | -21.85 | -20.48 | -21.00 | -22.65 | -30.25 | -38.47 | -37.53 | -34.44 | -38.16 | -19.28 |
| -30.00 | -17.34 | -18.28 | -18.31 | -21.46 | -24.53 | -14.72 | -17.25 | -23.69 | -19.55 | -16.02 | -18.51 | -12.96 | -26.25 | -27.98 | -31.27 | -27.35 | -34.44 | -32.33 | -19.34 |
| -20.00 | -13.78 | -14.68 | -18.44 | -14.22 | -13.39 | -24.19 | -21.87 | -21.47 | -31.90 | -17.50 | -11.76 | -14.03 | -20.80 | -35.67 | -38.64 | -32.27 | -33.02 | -31.89 | -17.00 |
| -10.00 | -14.68 | -10.85 | -10.00 | -16.12 | -20.53 | -15.66 | -17.12 | -13.00 | -14.56 | -26.17 | -21.33 | -20.72 | -23.67 | -32.09 | -22.12 | -25.00 | -28.77 | -19.20 | -11.16 |
| -9.00  | -11.83 | -11.27 | -10.82 | -9.76  | -12.13 | -18.59 | -16.41 | -18.91 | -21.55 | -22.88 | -19.74 | -18.15 | -23.55 | -24.63 | -20.10 | -30.53 | -32.03 | -19.32 | -15.41 |
| -8.00  | -16.97 | -14.47 | -9.71  | -9.00  | -10.98 | -9.58  | -17.96 | -18.26 | -19.15 | -10.87 | -8.94  | -11.38 | -18.44 | -22.80 | -25.03 | -27.70 | -32.32 | -15.96 | -15.08 |
| -7.00  | -10.68 | -8.18  | -7.39  | -10.02 | -13.23 | -20.04 | -23.59 | -16.13 | -8.58  | -8.35  | -9.94  | -11.43 | -22.22 | -23.21 | -23.78 | -24.04 | -23.77 | -11.46 | -9.32  |
| -6.00  | -14.31 | -12.07 | -9.49  | -7.59  | -6.82  | -10.80 | -17.84 | -13.10 | -14.53 | -13.87 | -13.83 | -23.68 | -13.11 | -14.19 | -20.44 | -19.17 | -16.60 | -8.64  | -7.61  |
| -5.00  | -4.00  | -3.34  | -4.47  | -6.70  | -7.37  | -7.69  | -9.16  | -7.43  | -4.42  | -6.24  | -6.11  | -5.03  | -8.81  | -16.67 | -14.05 | -17.53 | -14.19 | -9.99  | -10.18 |
| -4.00  | -4.66  | -4.36  | -3.99  | -3.18  | -2.01  | -1.85  | 0.39   | 2.76   | -0.18  | -4.52  | -8.94  | -11.99 | -13.98 | -14.19 | -14.24 | -16.14 | -24.30 | -20.90 | -16.79 |
| -3.00  | -0.89  | 0.75   | 1.72   | 1.72   | 1.59   | -0.04  | -2.07  | -5.70  | -9.12  | -8.32  | -4.09  | -2.39  | -5.95  | -7.76  | -6.11  | -8.18  | -6.89  | -5.56  | -5.73  |
| -2.00  | -0.42  | 1.14   | 2.34   | 2.58   | 3.53   | 3.04   | 2.90   | 3.04   | 3.59   | 4.09   | 5.28   | 10.21  | 5.74   | 2.56   | 1.84   | 1.57   | 1.42   | 1.45   | 0.45   |
| -1.00  | 9.63   | 11.34  | 12.96  | 13.26  | 13.21  | 13.47  | 13.70  | 14.84  | 16.09  | 17.39  | 19.15  | 19.99  | 16.08  | 11.54  | 8.67   | 6.69   | 5.37   | 4.66   | 3.28   |
| 0.00   | 20.35  | 22.11  | 23.30  | 23.56  | 24.09  | 23.46  | 23.29  | 23.25  | 23.47  | 23.71  | 24.48  | 24.31  | 19.57  | 14.23  | 10.74  | 8.26   | 6.58   | 5.63   | 4.10   |
| 1.00   | 11.06  | 12.32  | 13.61  | 14.17  | 14.51  | 14.83  | 14.45  | 14.79  | 15.89  | 17.21  | 19.00  | 19.82  | 16.03  | 11.47  | 8.66   | 6.71   | 5.42   | 4.69   | 3.18   |
| 2.00   | -0.83  | 1.19   | 2.45   | 3.08   | 4.21   | 4.39   | 4.95   | 5.80   | 7.01   | 6.59   | 5.47   | 7.69   | 4.95   | 2.29   | 1.84   | 1.68   | 1.61   | 1.56   | 0.16   |
| 3.00   | -8.77  | -6.43  | -3.37  | -1.28  | 0.28   | 0.09   | -0.61  | -1.49  | -1.70  | -3.06  | -3.27  | -0.24  | -0.84  | -7.81  | -7.76  | -7.61  | -6.04  | -5.04  | -6.51  |
| 4.00   | -15.43 | -13.96 | -14.03 | -9.70  | -7.64  | -8.64  | -8.64  | -8.88  | -4.11  | 1.43   | 4.12   | 0.80   | -10.18 | -17.58 | -14.67 | -16.27 | -16.83 | -17.23 | -23.79 |
| 5.00   | -8.51  | -8.27  | -10.20 | -12.55 | -10.81 | -10.97 | -12.01 | -17.10 | -15.74 | -18.98 | -11.09 | -6.12  | -10.72 | -18.11 | -24.67 | -22.05 | -14.11 | -10.50 | -9.91  |
| 6.00   | -3.11  | -1.14  | 0.31   | 0.66   | 0.29   | -4.24  | -11.25 | -11.71 | -11.54 | -9.46  | -16.22 | -15.28 | -15.49 | -17.00 | -25.06 | -22.75 | -18.23 | -9.57  | -7.96  |
| 7.00   | -15.28 | -15.69 | -18.51 | -16.89 | -11.55 | -8.82  | -11.27 | -15.33 | -16.40 | -13.05 | -11.90 | -15.05 | -17.83 | -18.41 | -23.31 | -26.53 | -26.57 | -12.76 | -9.99  |
| 8.00   | -5.56  | -3.74  | -2.41  | -2.54  | -4.97  | -12.52 | -14.44 | -16.13 | -17.39 | -9.50  | -13.94 | -15.74 | -28.71 | -23.22 | -23.87 | -33.89 | -37.23 | -18.68 | -15.62 |
| 9.00   | -6.21  | -5.00  | -6.03  | -9.83  | -14.36 | -16.13 | -20.30 | -15.22 | -11.47 | -20.36 | -10.79 | -19.99 | -24.16 | -28.76 | -26.90 | -28.57 | -32.12 | -21.54 | -15.87 |
| 10.00  | -10.57 | -8.62  | -8.83  | -13.05 | -16.71 | -21.67 | -13.83 | -15.57 | -14.85 | -13.82 | -17.74 | -18.94 | -21.15 | -30.89 | -33.07 | -26.56 | -28.76 | -20.78 | -12.45 |
| 20.00  | -13.73 | -16.22 | -20.00 | -17.01 | -20.09 | -31.32 | -19.63 | -15.94 | -21.84 | -21.91 | -14.25 | -18.64 | -20.34 | -31.32 | -37.66 | -35.65 | -35.71 | -34.20 | -16.53 |
| 30.00  | -11.39 | -22.17 | -17.85 | -13.40 | -19.13 | -20.91 | -17.83 | -16.11 | -14.44 | -18.68 | -17.96 | -13.13 | -30.20 | -31.64 | -37.16 | -35.27 | -37.35 | -34.91 | -15.14 |
| 40.00  | -16.21 | -17.18 | -18.86 | -23.85 | -15.09 | -18.89 | -17.97 | -19.23 | -14.39 | -31.40 | -19.77 | -21.89 | -21.34 | -25.55 | -27.93 | -38.84 | -38.59 | -35.57 | -20.40 |
| 50.00  | -20.33 | -20.18 | -17.28 | -21.03 | -26.62 | -25.96 | -27.00 | -24.44 | -26.92 | -22.38 | -27.40 | -28.00 | -26.21 | -32.77 | -36.18 | -37.47 | -38.54 | -39.80 | -14.68 |
| 60.00  | -26.95 | -17.15 | -30.43 | -27.57 | -24.62 | -24.54 | -23.37 | -34.13 | -27.22 | -22.39 | -20.20 | -25.73 | -28.88 | -34.39 | -44.21 | -38.33 | -42.51 | -47.82 | -22.79 |
| 70.00  | -23.26 | -20.36 | -27.39 | -32.09 | -28.86 | -28.65 | -22.17 | -24.92 | -27.12 | -28.84 | -24.58 | -29.12 | -28.19 | -32.11 | -42.86 | -38.10 | -47.97 | -34.86 | -23.31 |
| 80.00  | -28.53 | -24.96 | -29.11 | -30.41 | -33.52 | -28.17 | -36.38 | -36.28 | -34.21 | -32.64 | -33.50 | -32.49 | -38.96 | -37.91 | -43.34 | -45.15 | -55.73 | -50.18 | -24.69 |
| 90.00  | -24.99 | -28.94 | -34.79 | -28.94 | -33.57 | -32.36 | -35.10 | -36.02 | -35.13 | -31.71 | -32.26 | -33.49 | -44.15 | -39.72 | -44.71 | -46.28 | -52.37 | -51.38 | -26.54 |



## LHCP, Cross-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -21.37 | -48.75 | -42.47 | -33.55 | -27.34 | -25.48 | -35.68 | -26.91 | -27.81 | -31.98 | -33.15 | -34.04 | -28.73 | -27.29 | -28.49 | -26.05 | -24.05 | -24.96 | -27.90 |
| -80.00 | -20.03 | -49.30 | -40.02 | -38.21 | -28.55 | -27.57 | -36.12 | -25.41 | -28.87 | -26.42 | -38.89 | -37.52 | -29.32 | -25.67 | -25.85 | -26.43 | -21.50 | -23.21 | -23.30 |
| -70.00 | -17.96 | -41.07 | -30.54 | -36.34 | -29.06 | -26.01 | -33.67 | -21.07 | -21.95 | -23.02 | -27.99 | -31.17 | -22.04 | -33.71 | -21.06 | -32.62 | -22.70 | -20.88 | -12.22 |
| -60.00 | -18.71 | -37.38 | -29.65 | -26.92 | -16.97 | -22.08 | -13.55 | -16.35 | -17.22 | -25.61 | -19.29 | -25.70 | -29.79 | -19.26 | -24.23 | -29.58 | -22.17 | -21.50 | -18.30 |
| -50.00 | -11.82 | -40.22 | -32.81 | -34.72 | -22.33 | -17.29 | -21.54 | -18.88 | -27.31 | -18.85 | -21.69 | -18.52 | -18.17 | -21.33 | -16.00 | -19.26 | -20.09 | -17.55 | -21.29 |
| -40.00 | -16.28 | -35.13 | -24.85 | -24.04 | -24.87 | -17.18 | -14.03 | -15.36 | -17.16 | -16.75 | -23.77 | -22.42 | -8.58  | -22.60 | -26.32 | -25.63 | -18.07 | -22.20 | -14.06 |
| -30.00 | -16.34 | -29.30 | -24.84 | -13.85 | -17.68 | -14.91 | -17.63 | -7.31  | -15.18 | -10.92 | -15.16 | -19.40 | -12.13 | -11.58 | -21.81 | -19.31 | -16.53 | -15.49 | -14.34 |
| -20.00 | -14.00 | -28.86 | -23.42 | -18.77 | -25.05 | -22.60 | -12.18 | -8.38  | -8.44  | -12.40 | -27.51 | -17.19 | -16.75 | -21.04 | -10.66 | -12.08 | -16.66 | -11.89 | -10.78 |
| -10.00 | -8.16  | -16.17 | -19.18 | -11.50 | -8.53  | -19.02 | -15.05 | -15.07 | -18.00 | -21.07 | -10.17 | -8.72  | -12.00 | -12.52 | -17.81 | -13.97 | -8.22  | -8.06  | -11.68 |
| -9.00  | -12.41 | -16.29 | -22.43 | -17.03 | -6.50  | -11.56 | -14.93 | -12.50 | -16.42 | -17.77 | -17.16 | -14.62 | -11.29 | -15.45 | -9.41  | -7.61  | -9.04  | -8.47  | -8.83  |
| -8.00  | -12.08 | -12.94 | -22.73 | -14.20 | -11.44 | -9.72  | -9.83  | -5.73  | -5.62  | -5.77  | -14.76 | -13.97 | -12.84 | -6.44  | -8.25  | -6.85  | -7.93  | -11.67 | -13.97 |
| -7.00  | -6.32  | -8.43  | -14.17 | -10.54 | -10.18 | -10.14 | -13.60 | -5.78  | -6.62  | -3.24  | -4.19  | -11.84 | -18.46 | -16.90 | -10.51 | -7.88  | -5.61  | -5.38  | -7.68  |
| -6.00  | -4.61  | -5.61  | -7.00  | -5.67  | -6.85  | -1.12  | -4.49  | -18.03 | -10.50 | -8.77  | -10.14 | -8.81  | -12.71 | -7.66  | -4.10  | -5.44  | -7.71  | -9.27  | -11.31 |
| -5.00  | -7.18  | -6.96  | -4.60  | -4.03  | -0.46  | -3.60  | -0.19  | 0.62   | -2.78  | -1.14  | -0.03  | -3.15  | -4.04  | -4.55  | -4.65  | -4.55  | -2.69  | -0.54  | -1.00  |
| -4.00  | -13.79 | -17.87 | -14.71 | -2.64  | -0.65  | -1.11  | -5.36  | -6.35  | -5.62  | 0.59   | 4.21   | 7.05   | 5.51   | 1.29   | 0.72   | -1.03  | -2.21  | -1.56  | -1.66  |
| -3.00  | -2.73  | -2.53  | 2.71   | 5.32   | 7.49   | 5.31   | 2.67   | 3.26   | -0.77  | -3.22  | -4.73  | -1.41  | 3.05   | 3.10   | 4.31   | 3.87   | 3.50   | 3.55   | 2.11   |
| -2.00  | 3.45   | 4.48   | 11.01  | 15.06  | 15.43  | 15.63  | 14.35  | 15.86  | 8.61   | 9.20   | 7.98   | 7.32   | 8.03   | 6.18   | 6.25   | 4.73   | 4.12   | 3.94   | 2.58   |
| -1.00  | 6.28   | 7.69   | 14.96  | 20.19  | 22.26  | 24.61  | 24.70  | 25.63  | 22.48  | 22.50  | 20.47  | 19.13  | 18.82  | 16.61  | 15.93  | 15.41  | 14.74  | 14.13  | 12.63  |
| 0.00   | 7.10   | 8.66   | 16.17  | 21.76  | 24.34  | 27.30  | 28.19  | 29.96  | 27.80  | 28.81  | 27.85  | 27.53  | 28.41  | 26.60  | 26.81  | 25.71  | 25.08  | 24.91  | 23.35  |
| 1.00   | 6.18   | 7.72   | 15.01  | 20.21  | 22.26  | 24.54  | 24.64  | 25.47  | 22.32  | 22.31  | 20.28  | 19.08  | 19.57  | 17.97  | 17.23  | 16.32  | 15.39  | 15.12  | 14.06  |
| 2.00   | 3.16   | 4.59   | 11.20  | 15.18  | 15.44  | 15.36  | 13.57  | 13.34  | 8.80   | 11.69  | 11.40  | 10.08  | 10.07  | 7.53   | 6.93   | 5.23   | 4.23   | 3.99   | 2.17   |
| 3.00   | -3.51  | -2.01  | 3.55   | 5.89   | 5.84   | 5.26   | 7.77   | 5.41   | 0.06   | 2.04   | 2.69   | 2.79   | 4.51   | 3.23   | 3.00   | 0.87   | -1.59  | -3.64  | -5.77  |
| 4.00   | -20.79 | -14.20 | -7.23  | -2.77  | -1.07  | -4.51  | -1.56  | 6.45   | 7.45   | 6.53   | 0.28   | -4.60  | -3.52  | -5.50  | -4.92  | -7.55  | -12.25 | -11.16 | -12.43 |
| 5.00   | -6.91  | -7.47  | -4.52  | -8.55  | -11.07 | -5.04  | -2.10  | -0.47  | -7.77  | -13.87 | -11.35 | -12.82 | -6.89  | -7.83  | -8.09  | -10.40 | -8.42  | -5.47  | -5.51  |
| 6.00   | -4.96  | -6.54  | -8.64  | -9.25  | -11.47 | -3.93  | -6.88  | -9.63  | -12.89 | -4.36  | -7.15  | -7.43  | -6.13  | -1.10  | 3.01   | 2.81   | 2.09   | 1.66   | -0.11  |
| 7.00   | -6.99  | -9.73  | -16.98 | -13.03 | -9.71  | -5.34  | -9.21  | -9.41  | -8.57  | -7.94  | -12.01 | -11.05 | -6.14  | -5.68  | -8.83  | -14.74 | -16.73 | -12.89 | -12.28 |
| 8.00   | -12.62 | -15.65 | -27.63 | -20.39 | -10.27 | -10.14 | -20.09 | -10.10 | -10.61 | -4.39  | -13.00 | -11.85 | -9.32  | -9.38  | -2.25  | -0.39  | -0.63  | -0.94  | -2.56  |
| 9.00   | -12.87 | -18.51 | -22.53 | -15.07 | -13.30 | -15.69 | -15.54 | -14.34 | -7.46  | -15.26 | -7.08  | -10.94 | -15.18 | -12.99 | -11.63 | -7.68  | -4.24  | -2.20  | -3.21  |
| 10.00  | -9.45  | -17.75 | -19.16 | -13.07 | -19.48 | -17.82 | -12.53 | -13.30 | -14.41 | -8.72  | -10.46 | -11.29 | -8.71  | -18.53 | -13.99 | -10.90 | -7.05  | -5.82  | -7.57  |
| 20.00  | -13.53 | -31.17 | -26.11 | -22.15 | -24.06 | -18.25 | -11.72 | -12.99 | -10.93 | -16.81 | -17.45 | -11.65 | -14.50 | -28.18 | -17.37 | -14.86 | -18.22 | -13.42 | -10.73 |
| 30.00  | -12.14 | -31.88 | -27.76 | -21.77 | -23.57 | -18.57 | -21.58 | -7.48  | -14.63 | -13.58 | -10.05 | -11.82 | -12.71 | -17.77 | -16.41 | -11.25 | -16.07 | -19.37 | -8.39  |
| 40.00  | -17.40 | -32.54 | -29.00 | -25.34 | -14.34 | -12.48 | -12.72 | -16.24 | -16.45 | -26.30 | -10.00 | -14.95 | -12.85 | -15.75 | -12.36 | -21.70 | -17.08 | -14.38 | -13.21 |
| 50.00  | -11.68 | -36.77 | -28.94 | -23.97 | -22.58 | -19.70 | -17.59 | -22.35 | -24.08 | -17.28 | -22.53 | -20.15 | -21.88 | -22.82 | -23.89 | -18.88 | -15.49 | -17.38 | -17.33 |
| 60.00  | -19.79 | -44.79 | -32.92 | -24.83 | -30.62 | -21.32 | -20.27 | -20.08 | -16.88 | -17.29 | -22.83 | -29.85 | -18.24 | -21.39 | -21.90 | -25.42 | -28.65 | -14.35 | -23.95 |
| 70.00  | -20.31 | -31.83 | -38.38 | -24.60 | -29.26 | -19.04 | -19.57 | -23.47 | -21.25 | -23.73 | -22.73 | -20.63 | -17.05 | -25.51 | -26.14 | -29.94 | -25.61 | -17.57 | -20.26 |
| 80.00  | -21.69 | -47.16 | -46.13 | -31.65 | -29.74 | -24.84 | -30.34 | -26.84 | -30.18 | -27.54 | -29.82 | -32.00 | -31.26 | -25.03 | -30.80 | -28.26 | -27.33 | -22.16 | -25.53 |
| 90.00  | -23.54 | -48.35 | -42.78 | -32.79 | -31.11 | -26.65 | -35.53 | -27.84 | -28.93 | -26.61 | -30.74 | -31.74 | -29.98 | -29.22 | -30.84 | -26.79 | -33.01 | -26.14 | -21.99 |

## RHCP, Co-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -13.83 | -24.19 | -15.10 | -24.13 | -21.19 | -20.00 | -27.87 | -18.54 | -20.49 | -23.82 | -20.08 | -13.20 | -22.36 | -32.60 | -37.44 | -40.61 | -51.46 | -40.11 | -10.24 |
| -80.00 | -25.34 | -15.67 | -14.22 | -22.40 | -17.26 | -24.33 | -35.00 | -21.97 | -22.03 | -34.42 | -23.48 | -10.63 | -24.93 | -39.87 | -36.74 | -45.08 | -43.36 | -35.46 | -14.29 |
| -70.00 | -2.48  | -21.41 | -26.04 | -20.39 | -21.46 | -18.47 | -21.88 | -15.04 | -23.35 | -19.43 | -19.43 | -14.16 | -20.49 | -25.42 | -30.96 | -31.29 | -46.39 | -43.95 | -5.05  |
| -60.00 | -6.77  | -12.36 | -16.76 | -16.83 | -9.74  | -17.29 | -22.12 | -39.98 | -17.58 | -13.54 | -13.19 | -14.65 | -21.22 | -28.74 | -29.82 | -33.84 | -35.07 | -27.65 | -4.42  |
| -50.00 | -13.43 | -10.79 | -10.39 | -21.41 | -15.23 | -7.36  | -22.56 | -21.46 | -23.81 | -13.32 | -23.70 | -44.03 | -28.14 | -23.74 | -30.55 | -32.96 | -30.35 | -33.87 | -5.20  |
| -40.00 | -2.66  | -12.75 | -14.54 | -10.11 | -8.79  | -20.92 | -19.90 | -22.27 | -11.01 | -15.49 | -15.92 | -51.22 | -14.23 | -21.00 | -34.60 | -22.67 | -30.70 | -38.64 | -3.00  |
| -30.00 | -2.84  | -1.92  | -10.89 | -3.66  | -1.44  | -18.84 | -11.47 | -20.02 | -8.92  | -30.74 | -18.08 | -28.80 | -9.28  | -20.36 | -19.43 | -22.03 | -26.71 | -24.86 | 0.44   |
| -20.00 | -2.67  | -2.17  | -4.37  | -9.43  | -8.22  | -14.18 | -12.23 | -6.42  | -7.17  | -20.85 | -22.21 | -8.17  | -16.62 | -12.34 | -29.96 | -22.96 | -27.94 | -21.03 | -7.43  |
| -10.00 | 6.19   | 5.85   | 4.29   | -2.51  | -3.45  | 3.22   | 3.12   | -1.43  | -4.36  | -5.56  | -6.25  | -1.79  | -14.81 | -9.60  | -18.76 | -14.90 | -11.91 | 1.46   | 8.71   |
| -9.00  | 4.51   | 5.05   | 3.80   | -1.71  | -11.56 | -4.36  | 1.24   | -0.44  | -1.06  | -5.11  | -4.46  | -3.40  | -13.71 | -15.47 | -27.18 | -15.52 | -9.40  | 3.63   | 9.04   |
| -8.00  | 5.10   | 5.44   | 2.17   | -16.83 | -1.98  | -6.43  | -0.04  | 1.64   | -4.01  | 0.10   | 3.20   | -7.99  | -10.77 | -10.99 | -24.21 | -21.60 | -15.48 | -3.52  | -0.42  |
| -7.00  | 8.09   | 8.37   | 6.51   | -0.57  | -5.42  | 0.11   | -3.49  | -3.34  | 3.97   | 1.59   | -7.96  | -8.15  | -1.82  | -13.70 | -14.47 | -9.99  | -17.43 | 3.61   | 6.40   |
| -6.00  | 7.11   | 8.07   | 8.49   | 8.15   | 7.02   | 11.89  | -0.47  | 1.40   | -4.92  | -0.12  | 0.69   | -8.80  | -16.02 | -4.13  | -11.97 | -4.35  | -1.14  | 12.04  | 12.94  |
| -5.00  | 10.92  | 10.38  | 8.72   | 4.18   | -0.13  | -0.79  | -0.83  | 4.95   | 9.79   | 10.78  | 10.27  | 10.76  | 0.94   | -13.65 | -5.00  | -19.75 | 5.35   | 13.23  | 13.20  |
| -4.00  | 4.98   | 6.58   | 8.05   | 10.29  | 12.81  | 8.49   | 13.23  | 14.59  | 11.00  | 5.57   | -1.37  | 2.27   | 4.34   | -2.07  | -7.60  | -6.10  | -4.64  | 0.40   | -0.64  |
| -3.00  | -1.24  | 2.30   | 2.63   | -3.50  | -8.29  | 14.02  | 9.59   | 10.34  | 9.06   | 13.47  | 17.83  | 19.34  | 17.25  | 1.67   | 5.93   | 12.46  | 15.57  | 16.93  | 15.98  |
| -2.00  | 19.32  | 20.73  | 22.55  | 23.80  | 24.97  | 24.97  | 24.97  | 24.56  | 23.13  | 18.23  | 6.28   | 24.49  | 24.72  | 24.91  | 24.97  | 24.92  | 24.87  | 24.96  | 23.43  |
| -1.00  | 31.39  | 32.59  | 34.40  | 35.43  | 36.31  | 36.36  | 37.19  | 38.95  | 40.21  | 41.58  | 43.35  | 44.99  | 40.42  | 35.64  | 32.64  | 30.61  | 29.23  | 28.54  | 26.72  |
| 0.00   | 45.59  | 46.89  | 48.39  | 48.88  | 48.89  | 47.76  | 46.55  | 46.93  | 47.16  | 47.51  | 48.32  | 49.30  | 44.11  | 38.51  | 34.87  | 32.33  | 30.58  | 29.62  | 27.72  |
| 1.00   | 31.47  | 32.75  | 34.43  | 35.36  | 36.32  | 36.43  | 36.78  | 38.77  | 39.99  | 41.30  | 43.09  | 44.90  | 40.46  | 35.68  | 32.70  | 30.69  | 29.32  | 28.55  | 26.72  |
| 2.00   | 17.93  | 19.44  | 21.69  | 23.14  | 23.22  | 23.33  | 22.82  | 23.05  | 21.59  | 15.53  | 5.33   | 24.63  | 24.97  | 24.97  | 24.97  | 24.97  | 24.97  | 24.97  | 23.42  |
| 3.00   | 11.24  | 11.86  | 12.53  | 13.28  | 14.97  | 14.36  | 18.57  | 17.97  | 15.61  | 13.61  | 17.08  | 20.12  | 15.80  | 2.25   | 5.03   | 12.20  | 15.15  | 17.05  | 15.90  |
| 4.00   | 0.85   | 0.09   | -7.15  | 0.30   | 7.38   | 9.97   | 12.43  | 10.13  | 8.12   | 11.10  | 12.51  | -5.54  | -1.16  | -4.04  | -4.63  | -1.33  | 2.41   | 1.23   | 0.79   |
| 5.00   | 9.49   | 10.48  | 9.92   | 4.79   | 6.60   | 9.49   | 7.26   | -2.33  | 1.03   | 0.81   | -5.17  | 5.96   | 3.59   | -24.77 | -5.32  | -11.38 | 8.58   | 13.39  | 13.35  |
| 6.00   | 1.21   | 2.51   | 2.65   | -5.42  | 6.75   | 4.36   | 4.04   | -9.49  | -4.63  | 2.09   | 1.58   | 5.02   | -3.23  | -2.44  | -14.54 | -5.25  | 2.31   | 12.21  | 13.03  |
| 7.00   | 6.59   | 6.70   | 5.60   | 1.90   | -0.57  | -12.06 | -4.19  | -14.37 | -4.26  | -8.27  | 7.09   | -2.17  | -1.81  | -9.43  | -8.22  | -12.10 | -17.87 | 4.18   | 7.11   |
| 8.00   | 10.68  | 10.56  | 9.18   | 3.53   | -9.31  | -6.34  | -5.37  | 0.02   | -6.99  | 4.43   | -3.16  | -2.58  | -13.33 | -20.47 | -14.40 | -26.03 | -24.31 | -6.31  | -2.10  |
| 9.00   | 3.82   | 6.73   | 6.06   | -0.62  | -2.94  | -7.75  | -5.27  | -2.30  | -7.95  | -5.54  | 1.06   | -7.15  | -21.73 | -11.26 | -12.41 | -15.94 | -12.35 | 2.15   | 8.74   |
| 10.00  | 9.85   | 10.19  | 8.59   | 4.73   | -2.88  | -2.31  | -1.99  | -1.36  | 1.37   | -11.01 | -8.76  | -12.54 | -13.57 | -10.11 | -11.39 | -10.85 | -11.94 | -0.83  | 8.48   |
| 20.00  | -2.32  | 1.92   | -1.67  | -9.60  | -5.48  | -9.99  | -14.87 | -2.16  | -14.71 | -11.53 | -6.22  | -5.83  | -13.77 | -27.22 | -40.03 | -28.12 | -26.61 | -27.42 | -5.40  |
| 30.00  | -6.58  | -7.71  | -12.53 | -14.58 | -7.80  | -34.17 | -10.84 | -15.42 | -9.51  | -16.17 | -18.45 | -7.75  | -16.56 | -25.32 | -30.42 | -25.35 | -30.65 | -26.49 | -0.73  |
| 40.00  | -29.95 | -11.07 | -13.13 | -17.22 | -22.43 | -12.61 | -4.03  | -14.49 | -14.69 | -9.22  | -13.49 | -10.75 | -15.82 | -27.15 | -38.51 | -30.38 | -36.28 | -24.57 | -1.66  |
| 50.00  | -4.97  | -10.32 | -16.02 | -10.86 | -24.46 | -14.91 | -17.72 | -17.41 | -22.15 | -15.28 | -14.02 | -10.02 | -16.32 | -20.34 | -32.91 | -36.02 | -24.45 | -34.05 | -5.37  |
| 60.00  | -12.96 | -6.73  | -16.91 | -10.36 | -19.36 | -20.28 | -14.43 | -17.19 | -21.00 | -16.34 | -5.58  | -11.11 | -13.34 | -27.26 | -30.71 | -31.63 | -32.66 | -28.18 | -5.06  |
| 70.00  | -7.64  | -23.54 | -16.42 | -26.86 | -26.29 | -20.82 | -13.91 | -15.29 | -18.55 | -17.94 | -17.22 | -12.73 | -30.86 | -30.32 | -32.61 | -60.00 | -31.54 | -30.22 | -5.01  |
| 80.00  | -9.13  | -23.61 | -14.59 | -14.03 | -22.95 | -23.00 | -24.17 | -40.58 | -28.28 | -23.53 | -22.93 | -15.86 | -30.50 | -33.61 | -39.42 | -45.63 | -41.48 | -55.07 | -16.93 |
| 90.00  | -15.22 | -18.85 | -15.50 | -17.53 | -25.22 | -19.50 | -19.40 | -25.27 | -27.99 | -24.71 | -22.89 | -15.64 | -32.36 | -28.89 | -34.69 | -48.27 | -36.41 | -43.50 | -11.62 |

## RHCP, Co-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -7.24  | -36.73 | -42.01 | -28.55 | -25.18 | -21.13 | -14.86 | -9.92  | -17.00 | -18.76 | -16.23 | -14.29 | -22.49 | -16.32 | -18.80 | -22.58 | -15.25 | -23.67 | -12.74 |
| -80.00 | -11.29 | -32.08 | -33.91 | -33.01 | -24.48 | -28.39 | -17.42 | -7.36  | -20.40 | -29.35 | -17.77 | -17.72 | -29.62 | -20.65 | -14.88 | -20.85 | -14.37 | -15.15 | -24.25 |
| -70.00 | -2.05  | -40.57 | -36.94 | -19.23 | -18.70 | -13.95 | -12.98 | -10.89 | -16.34 | -14.37 | -19.10 | -10.78 | -16.51 | -14.80 | -19.08 | -18.84 | -26.18 | -20.89 | -1.39  |
| -60.00 | -1.42  | -24.27 | -25.62 | -21.78 | -17.56 | -17.26 | -13.72 | -11.38 | -10.10 | -8.47  | -13.33 | -35.72 | -16.75 | -13.62 | -7.36  | -15.28 | -16.91 | -11.84 | -5.68  |
| -50.00 | -2.20  | -30.49 | -20.90 | -20.90 | -18.29 | -12.27 | -20.64 | -40.75 | -20.61 | -8.26  | -19.55 | -17.21 | -17.19 | -3.68  | -12.84 | -19.86 | -10.53 | -10.27 | -12.34 |
| -40.00 | 0.00   | -35.26 | -21.25 | -10.60 | -22.34 | -9.53  | -6.73  | -47.95 | -12.84 | -10.42 | -6.76  | -18.02 | -14.52 | -17.24 | -6.40  | -8.56  | -14.69 | -12.23 | -1.57  |
| -30.00 | 3.44   | -21.48 | -17.26 | -9.97  | -7.17  | -8.88  | -1.77  | -25.52 | -14.99 | -25.67 | -4.66  | -15.77 | -6.10  | -15.16 | 0.95   | -2.11  | -11.04 | -1.40  | -1.75  |
| -20.00 | -4.43  | -17.65 | -18.49 | -10.89 | -17.70 | -0.87  | -9.12  | -4.90  | -19.12 | -15.79 | -2.91  | -2.17  | -6.86  | -10.50 | -5.83  | -7.88  | -4.52  | -1.65  | -1.58  |
| -10.00 | 11.71  | 4.84   | -2.46  | -2.83  | -6.50  | 1.87   | -7.31  | 1.49   | -3.16  | -0.49  | -0.10  | 2.82   | 8.50   | 6.90   | -1.07  | -0.97  | 4.14   | 6.37   | 7.28   |
| -9.00  | 12.04  | 7.01   | 0.05   | -3.46  | -14.92 | -4.00  | -6.21  | -0.12  | -1.38  | -0.04  | 3.19   | 3.81   | 6.61   | -0.69  | -9.17  | -0.16  | 3.65   | 5.57   | 5.60   |
| -8.00  | 2.58   | -0.14  | -6.03  | -9.54  | -11.95 | 0.49   | -3.26  | -4.71  | 6.29   | 5.17   | 0.25   | 5.89   | 5.34   | -2.75  | 0.41   | -15.28 | 2.03   | 5.96   | 6.19   |
| -7.00  | 9.40   | 6.99   | -7.98  | 2.07   | -2.21  | -2.23  | 5.68   | -4.87  | -4.88  | 6.66   | 8.23   | 0.91   | 1.88   | 3.79   | -3.03  | 0.98   | 6.36   | 8.89   | 9.18   |
| -6.00  | 15.94  | 15.42  | 8.31   | 7.72   | 0.29   | 7.34   | -8.51  | -5.52  | 3.78   | 4.95   | -0.66  | 5.65   | 4.90   | 15.57  | 9.41   | 9.70   | 8.35   | 8.59   | 8.20   |
| -5.00  | 16.20  | 16.61  | 14.80  | -7.68  | 7.26   | -2.17  | 8.45   | 14.04  | 13.36  | 15.85  | 14.04  | 9.20   | 4.54   | 2.89   | 2.25   | 5.73   | 8.57   | 10.90  | 12.01  |
| -4.00  | 2.36   | 3.78   | 4.81   | 5.97   | 4.66   | 9.40   | 11.85  | 5.55   | 1.71   | 10.64  | 15.25  | 18.84  | 18.60  | 12.17  | 15.19  | 11.84  | 7.90   | 7.10   | 6.07   |
| -3.00  | 18.98  | 20.31  | 25.02  | 24.53  | 18.19  | 13.14  | 24.75  | 22.62  | 20.91  | 18.54  | 13.31  | 14.59  | 14.96  | 17.69  | -5.90  | -1.95  | 2.48   | 2.82   | -0.15  |
| -2.00  | 26.43  | 28.34  | 34.32  | 36.98  | 37.23  | 36.39  | 32.23  | 27.77  | 9.36   | 23.30  | 27.38  | 28.81  | 30.35  | 28.65  | 27.36  | 25.35  | 22.41  | 21.25  | 20.41  |
| -1.00  | 29.72  | 31.92  | 38.68  | 42.68  | 44.90  | 47.11  | 47.92  | 48.26  | 46.43  | 46.65  | 44.47  | 43.20  | 42.56  | 40.03  | 38.69  | 36.98  | 34.25  | 33.12  | 32.48  |
| 0.00   | 30.72  | 33.00  | 40.03  | 44.40  | 47.13  | 49.98  | 51.61  | 52.57  | 51.41  | 52.57  | 51.42  | 51.18  | 51.92  | 51.44  | 51.27  | 50.43  | 48.25  | 47.41  | 46.68  |
| 1.00   | 29.72  | 31.93  | 38.77  | 42.75  | 44.96  | 47.15  | 47.97  | 48.17  | 46.17  | 46.36  | 44.24  | 43.03  | 42.15  | 40.11  | 38.71  | 36.91  | 34.28  | 33.27  | 32.56  |
| 2.00   | 26.42  | 28.35  | 34.42  | 37.04  | 37.23  | 36.45  | 32.48  | 27.90  | 8.42   | 20.60  | 25.85  | 27.30  | 28.19  | 27.01  | 25.61  | 24.68  | 21.54  | 19.96  | 19.02  |
| 3.00   | 18.90  | 20.43  | 24.60  | 24.27  | 17.29  | 13.72  | 23.30  | 23.40  | 20.17  | 18.68  | 19.87  | 22.23  | 23.94  | 18.03  | 17.35  | 14.82  | 12.39  | 12.38  | 12.33  |
| 4.00   | 3.79   | 4.61   | 11.86  | 10.73  | 7.63   | 7.43   | 6.34   | -2.27  | 15.59  | 16.17  | 12.38  | 14.38  | 17.80  | 13.65  | 9.76   | 1.85   | -7.30  | 0.61   | 1.94   |
| 5.00   | 16.35  | 16.77  | 18.03  | 0.68   | 6.94   | -13.30 | 11.10  | 9.23   | -2.08  | 5.88   | 5.29   | 1.92   | 12.63  | 13.17  | 8.98   | 6.34   | 9.78   | 11.00  | 10.58  |
| 6.00   | 16.03  | 15.59  | 11.76  | 6.82   | -2.28  | 9.03   | 4.28   | 8.29   | 4.67   | 7.16   | -0.37  | -5.24  | 9.41   | 8.04   | 9.14   | -3.87  | 2.51   | 3.03   | 2.30   |
| 7.00   | 10.11  | 7.56   | -8.42  | -0.03  | 4.04   | 2.04   | 5.70   | 1.11   | 10.18  | -3.20  | 0.00   | -10.11 | 1.19   | -8.39  | 1.82   | 3.45   | 5.45   | 7.22   | 7.68   |
| 8.00   | 0.90   | -2.93  | -14.86 | -13.96 | -2.14  | -9.00  | -5.83  | 0.69   | -0.07  | 9.49   | -2.73  | 4.27   | 0.01   | -2.66  | -6.93  | 5.08   | 9.04   | 11.08  | 11.77  |
| 9.00   | 11.74  | 5.53   | -2.90  | -3.87  | -0.15  | 0.21   | -14.23 | -3.88  | 4.15   | -0.47  | -3.69  | 1.95   | 0.10   | -4.07  | -0.56  | 0.93   | 5.91   | 7.26   | 4.91   |
| 10.00  | 11.48  | 2.55   | -2.49  | 1.21   | 0.87   | 1.36   | -6.07  | -9.26  | -5.67  | -5.94  | 5.62   | 2.90   | 3.38   | 1.36   | -0.49  | 6.27   | 8.45   | 10.71  | 10.94  |
| 20.00  | -2.40  | -24.04 | -17.16 | -16.06 | -27.77 | -15.74 | -6.26  | -2.56  | -3.13  | -6.46  | -10.46 | 2.09   | -9.50  | -6.31  | -3.09  | -8.06  | -1.82  | 2.44   | -1.23  |
| 30.00  | 2.27   | -23.11 | -21.20 | -13.28 | -18.16 | -13.85 | -9.06  | -4.48  | -15.37 | -11.10 | -5.26  | -11.16 | -5.47  | -30.49 | -5.42  | -13.03 | -12.68 | -7.19  | -5.49  |
| 40.00  | 1.34   | -21.19 | -26.83 | -18.32 | -26.25 | -15.68 | -8.32  | -7.48  | -10.40 | -4.15  | -10.43 | -10.23 | 1.35   | -8.93  | -20.05 | -15.67 | -13.27 | -10.55 | -28.86 |
| 50.00  | -2.37  | -30.67 | -15.00 | -23.95 | -20.65 | -8.86  | -8.82  | -6.75  | -10.93 | -10.21 | -17.89 | -13.16 | -12.35 | -11.23 | -22.08 | -9.31  | -16.17 | -9.80  | -3.88  |
| 60.00  | -2.06  | -24.80 | -23.21 | -19.57 | -18.45 | -15.78 | -5.84  | -7.84  | -2.50  | -11.28 | -16.74 | -12.94 | -9.06  | -16.60 | -16.98 | -8.81  | -17.05 | -6.21  | -11.87 |
| 70.00  | -2.01  | -26.84 | -22.09 | -47.94 | -20.35 | -18.85 | -23.35 | -9.46  | -14.14 | -12.87 | -14.29 | -11.04 | -8.54  | -17.14 | -23.90 | -25.31 | -16.57 | -23.02 | -6.55  |
| 80.00  | -13.93 | -51.69 | -32.03 | -33.56 | -27.16 | -22.14 | -22.99 | -12.58 | -19.85 | -18.46 | -24.02 | -36.33 | -18.79 | -19.33 | -20.56 | -12.48 | -14.74 | -23.09 | -8.05  |
| 90.00  | -8.62  | -40.12 | -26.96 | -36.20 | -22.43 | -17.41 | -24.85 | -12.37 | -19.80 | -19.64 | -23.74 | -21.02 | -14.03 | -15.82 | -22.84 | -15.98 | -15.65 | -18.33 | -14.13 |

## RHCP, Cross-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -22.05 | -24.13 | -24.02 | -29.45 | -28.79 | -27.51 | -28.00 | -29.34 | -30.32 | -32.26 | -29.67 | -25.75 | -30.93 | -37.84 | -47.41 | -46.07 | -49.89 | -50.43 | -19.49 |
| -80.00 | -28.44 | -25.32 | -20.91 | -34.28 | -26.01 | -27.49 | -31.81 | -33.08 | -32.13 | -40.55 | -34.07 | -26.05 | -31.29 | -40.43 | -49.67 | -49.95 | -53.29 | -46.71 | -22.27 |
| -70.00 | -20.45 | -18.57 | -27.56 | -26.14 | -30.24 | -26.87 | -25.82 | -24.21 | -31.65 | -29.29 | -24.66 | -22.47 | -28.71 | -32.13 | -41.25 | -45.66 | -46.96 | -46.44 | -15.52 |
| -60.00 | -13.07 | -24.02 | -20.26 | -24.90 | -18.31 | -25.50 | -29.24 | -29.07 | -32.74 | -21.71 | -24.15 | -20.79 | -28.74 | -37.58 | -37.71 | -40.02 | -45.63 | -45.23 | -15.01 |
| -50.00 | -17.33 | -24.18 | -25.09 | -23.22 | -26.29 | -19.41 | -25.76 | -27.00 | -23.76 | -23.97 | -25.66 | -17.83 | -22.73 | -25.81 | -38.74 | -39.26 | -40.21 | -43.64 | -15.53 |
| -40.00 | -16.75 | -18.25 | -21.36 | -17.49 | -20.85 | -20.69 | -28.38 | -29.80 | -21.54 | -22.59 | -19.98 | -21.93 | -23.03 | -28.27 | -35.61 | -38.18 | -44.52 | -49.68 | -19.58 |
| -30.00 | -14.76 | -15.79 | -23.55 | -15.87 | -18.66 | -18.89 | -25.97 | -17.39 | -19.44 | -21.78 | -15.29 | -20.91 | -17.83 | -24.40 | -37.78 | -32.34 | -35.53 | -36.03 | -17.83 |
| -20.00 | -8.86  | -10.78 | -18.70 | -19.89 | -17.15 | -21.77 | -21.99 | -18.48 | -16.97 | -23.59 | -14.89 | -8.53  | -30.73 | -22.86 | -36.22 | -31.73 | -35.81 | -30.02 | -13.12 |
| -10.00 | -6.47  | -5.64  | -5.95  | -11.87 | -11.71 | -11.32 | -11.62 | -9.46  | -11.30 | -19.72 | -16.39 | -9.01  | -17.58 | -18.64 | -32.00 | -32.13 | -27.87 | -17.09 | -9.65  |
| -9.00  | -10.08 | -6.94  | -5.13  | -5.12  | -8.37  | -9.75  | -11.31 | -12.16 | -16.94 | -15.60 | -11.70 | -12.72 | -23.19 | -23.46 | -26.17 | -28.20 | -23.12 | -17.08 | -11.57 |
| -8.00  | -6.31  | -6.51  | -7.33  | -5.50  | -3.98  | -6.75  | -12.13 | -13.86 | -10.48 | -7.71  | -9.49  | -11.32 | -14.34 | -26.81 | -32.92 | -35.68 | -27.78 | -13.58 | -13.77 |
| -7.00  | -1.21  | 0.17   | 0.62   | -1.77  | -4.05  | -8.59  | -14.34 | -12.34 | -6.23  | -8.23  | -8.48  | -3.34  | -16.72 | -26.64 | -30.34 | -28.00 | -27.08 | -12.57 | -9.57  |
| -6.00  | -8.75  | -7.85  | -7.29  | -6.62  | -8.35  | -12.95 | -13.73 | -11.72 | -15.16 | -8.95  | -5.84  | -9.39  | -12.15 | -20.76 | -23.38 | -20.12 | -19.91 | -7.08  | -5.65  |
| -5.00  | -4.49  | -4.22  | -2.29  | -1.26  | -2.61  | -4.57  | -6.69  | -6.08  | -5.09  | -3.09  | -3.53  | -1.89  | -10.61 | -20.48 | -12.88 | -20.59 | -11.64 | -4.81  | -5.69  |
| -4.00  | 0.17   | 1.31   | 2.73   | 4.23   | 4.41   | 2.49   | -0.21  | 2.75   | 1.35   | -2.07  | -6.00  | -11.36 | -17.60 | -18.43 | -15.95 | -14.04 | -8.66  | -6.83  | -9.63  |
| -3.00  | -1.92  | -1.75  | -1.37  | 0.39   | 1.33   | 1.25   | -1.10  | -4.38  | -7.97  | -8.03  | -4.49  | -1.77  | -4.32  | -5.96  | -4.98  | -4.71  | -4.44  | -3.76  | -4.29  |
| -2.00  | 2.39   | 4.46   | 6.57   | 7.53   | 7.84   | 6.84   | 5.31   | 5.45   | 5.87   | 6.49   | 6.86   | 11.20  | 7.33   | 4.04   | 3.12   | 3.19   | 3.31   | 3.60   | 2.44   |
| -1.00  | 12.12  | 13.67  | 16.08  | 17.10  | 17.91  | 17.18  | 16.44  | 16.99  | 18.07  | 19.28  | 21.10  | 23.02  | 18.79  | 14.02  | 11.01  | 9.28   | 8.02   | 7.37   | 5.65   |
| 0.00   | 24.29  | 25.61  | 27.12  | 27.62  | 27.63  | 26.52  | 25.33  | 25.70  | 25.94  | 26.30  | 27.12  | 28.11  | 22.93  | 17.34  | 13.70  | 11.18  | 9.43   | 8.48   | 6.57   |
| 1.00   | 13.04  | 14.98  | 16.76  | 17.68  | 17.98  | 17.07  | 16.35  | 17.15  | 18.17  | 19.44  | 21.13  | 23.02  | 18.72  | 14.03  | 11.26  | 9.24   | 7.99   | 7.38   | 5.55   |
| 2.00   | 2.00   | 4.20   | 6.23   | 7.34   | 7.84   | 7.04   | 5.82   | 6.25   | 7.58   | 8.48   | 8.29   | 10.87  | 7.85   | 3.87   | 3.00   | 2.92   | 3.25   | 3.61   | 2.11   |
| 3.00   | 1.71   | 2.99   | 4.29   | 4.96   | 5.53   | 4.26   | 1.74   | 0.23   | -1.01  | -0.95  | -0.22  | 1.90   | 0.30   | -6.20  | -6.85  | -6.32  | -4.73  | -3.62  | -5.15  |
| 4.00   | -3.08  | -2.12  | -2.20  | -1.27  | -0.87  | -2.57  | -4.86  | -5.17  | -2.12  | 1.65   | 4.35   | 3.52   | -6.09  | -12.78 | -15.62 | -15.54 | -9.97  | -7.44  | -9.32  |
| 5.00   | -1.87  | -1.69  | -2.29  | -6.00  | -6.27  | -6.52  | -11.88 | -14.54 | -10.58 | -16.79 | -12.61 | -4.60  | -7.45  | -13.58 | -17.47 | -18.88 | -13.81 | -5.69  | -5.33  |
| 6.00   | -3.94  | -4.15  | -3.94  | -0.47  | 0.66   | -3.93  | -8.40  | -9.22  | -11.23 | -7.70  | -15.41 | -10.64 | -12.74 | -17.09 | -19.98 | -19.38 | -20.11 | -7.77  | -5.56  |
| 7.00   | -4.06  | -2.67  | -3.31  | -5.76  | -5.76  | -8.95  | -12.71 | -18.33 | -22.49 | -14.04 | -11.03 | -11.22 | -16.40 | -17.89 | -26.74 | -22.88 | -31.20 | -12.71 | -9.22  |
| 8.00   | -5.28  | -5.10  | -4.36  | -3.75  | -6.26  | -15.85 | -14.72 | -13.00 | -20.25 | -9.98  | -14.02 | -14.32 | -21.38 | -27.07 | -31.84 | -31.07 | -26.54 | -16.68 | -12.22 |
| 9.00   | -4.89  | -5.26  | -5.91  | -5.75  | -7.74  | -17.31 | -15.89 | -12.69 | -9.28  | -14.92 | -10.32 | -17.36 | -22.17 | -23.74 | -25.18 | -26.77 | -24.37 | -19.16 | -11.19 |
| 10.00  | -9.45  | -7.94  | -7.47  | -9.07  | -11.78 | -13.64 | -14.58 | -14.40 | -11.78 | -19.26 | -15.04 | -12.85 | -16.96 | -25.41 | -25.62 | -25.39 | -27.94 | -20.17 | -10.40 |
| 20.00  | -12.37 | -11.26 | -13.51 | -17.20 | -22.61 | -23.70 | -21.58 | -15.87 | -18.72 | -24.38 | -19.31 | -15.75 | -19.56 | -30.47 | -38.61 | -34.85 | -39.67 | -33.36 | -11.54 |
| 30.00  | -20.01 | -18.48 | -25.28 | -24.99 | -14.37 | -16.14 | -19.32 | -15.85 | -16.54 | -18.26 | -22.21 | -15.18 | -21.92 | -33.91 | -35.95 | -29.86 | -37.59 | -31.74 | -17.32 |
| 40.00  | -8.86  | -14.52 | -23.42 | -16.10 | -15.62 | -18.70 | -14.90 | -17.50 | -23.19 | -14.14 | -18.61 | -13.54 | -22.61 | -23.88 | -30.48 | -36.01 | -35.13 | -34.97 | -16.95 |
| 50.00  | -18.53 | -18.69 | -21.23 | -19.90 | -20.59 | -25.62 | -22.76 | -25.41 | -29.73 | -28.40 | -23.35 | -26.57 | -27.40 | -33.08 | -44.62 | -50.53 | -41.14 | -43.99 | -14.29 |
| 60.00  | -26.33 | -14.08 | -19.78 | -23.98 | -19.83 | -23.18 | -24.55 | -31.28 | -25.63 | -23.06 | -17.76 | -25.10 | -24.40 | -33.03 | -40.46 | -38.85 | -38.38 | -40.93 | -13.84 |
| 70.00  | -15.68 | -16.09 | -23.01 | -36.55 | -23.51 | -26.41 | -27.98 | -24.52 | -30.17 | -26.49 | -21.73 | -38.64 | -34.60 | -35.88 | -42.04 | -53.41 | -50.73 | -40.98 | -13.70 |
| 80.00  | -19.27 | -27.55 | -24.74 | -24.97 | -30.52 | -30.86 | -39.45 | -36.24 | -35.03 | -32.70 | -31.62 | -26.01 | -40.41 | -44.88 | -42.13 | -53.06 | -46.07 | -55.96 | -21.31 |
| 90.00  | -19.57 | -24.98 | -24.48 | -26.36 | -28.24 | -32.08 | -32.92 | -32.46 | -34.37 | -29.08 | -28.30 | -28.14 | -36.46 | -42.05 | -42.84 | -50.53 | -48.94 | -48.29 | -18.11 |

## RHCP, Cross-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -16.49 | -47.05 | -40.44 | -34.01 | -35.15 | -26.37 | -23.42 | -22.47 | -26.59 | -27.20 | -26.06 | -25.09 | -22.63 | -23.83 | -26.41 | -27.91 | -24.16 | -23.61 | -20.96 |
| -80.00 | -19.27 | -43.33 | -43.84 | -37.89 | -37.41 | -28.96 | -23.79 | -22.78 | -30.99 | -35.48 | -27.87 | -28.82 | -26.44 | -23.81 | -23.62 | -32.73 | -21.06 | -24.80 | -27.35 |
| -70.00 | -12.52 | -43.06 | -37.51 | -33.59 | -28.99 | -20.66 | -21.20 | -19.20 | -21.58 | -24.23 | -27.39 | -19.96 | -20.45 | -23.19 | -27.86 | -24.59 | -27.71 | -18.05 | -19.36 |
| -60.00 | -12.01 | -41.85 | -36.18 | -27.96 | -25.45 | -26.10 | -21.23 | -17.52 | -21.06 | -16.64 | -28.48 | -24.82 | -23.87 | -21.82 | -15.93 | -23.35 | -20.41 | -23.50 | -11.98 |
| -50.00 | -12.53 | -40.26 | -30.76 | -27.19 | -26.48 | -14.34 | -15.23 | -14.55 | -22.57 | -18.91 | -19.51 | -22.74 | -20.39 | -15.74 | -23.91 | -21.67 | -25.23 | -23.66 | -16.24 |
| -40.00 | -16.58 | -46.30 | -35.07 | -26.11 | -23.35 | -16.80 | -15.53 | -18.65 | -16.90 | -17.53 | -17.28 | -25.55 | -23.00 | -17.02 | -18.47 | -15.94 | -21.51 | -17.73 | -15.66 |
| -30.00 | -14.83 | -32.65 | -26.08 | -20.27 | -25.52 | -12.93 | -10.33 | -17.64 | -12.20 | -16.71 | -15.18 | -13.14 | -20.60 | -15.21 | -16.28 | -14.32 | -23.70 | -15.27 | -13.67 |
| -20.00 | -10.12 | -26.64 | -26.36 | -19.66 | -23.96 | -11.39 | -23.22 | -5.26  | -11.80 | -18.52 | -12.72 | -14.23 | -16.62 | -18.09 | -14.76 | -18.34 | -18.85 | -10.26 | -7.78  |
| -10.00 | -6.65  | -13.71 | -18.42 | -20.06 | -19.74 | -7.16  | -10.08 | -5.73  | -13.30 | -14.65 | -7.04  | -5.21  | -6.25  | -7.64  | -9.33  | -10.32 | -6.10  | -5.12  | -5.38  |
| -9.00  | -8.57  | -13.70 | -13.67 | -16.13 | -13.91 | -11.98 | -15.69 | -9.45  | -8.62  | -10.54 | -12.69 | -7.91  | -5.94  | -6.07  | -5.98  | -3.57  | -5.27  | -6.42  | -8.99  |
| -8.00  | -10.77 | -10.20 | -18.33 | -23.62 | -20.66 | -15.34 | -6.83  | -8.04  | -6.41  | -2.65  | -6.22  | -9.60  | -6.76  | -3.08  | -1.59  | -3.95  | -7.48  | -5.99  | -5.22  |
| -7.00  | -6.57  | -9.19  | -17.63 | -15.93 | -18.08 | -15.17 | -9.22  | -0.06  | -5.39  | -3.17  | -1.97  | -8.08  | -8.96  | -4.92  | -1.67  | -0.22  | 0.48   | 0.69   | -0.12  |
| -6.00  | -2.65  | -3.70  | -10.46 | -8.06  | -11.12 | -9.28  | -4.65  | -6.12  | -2.75  | -3.89  | -10.90 | -7.47  | -8.35  | -9.28  | -5.97  | -5.07  | -7.43  | -7.33  | -7.66  |
| -5.00  | -2.69  | -1.43  | -2.19  | -8.52  | -0.62  | -9.01  | -3.11  | 1.38   | -0.44  | 1.97   | -0.83  | -1.83  | -1.32  | -0.89  | -0.23  | 0.29   | -2.43  | -3.70  | -3.40  |
| -4.00  | -6.63  | -3.45  | 0.79   | -1.97  | -3.69  | -6.96  | -10.10 | -8.08  | -2.91  | 2.99   | 5.61   | 7.00   | 5.17   | 6.17   | 6.79   | 5.78   | 2.58   | 1.83   | 1.26   |
| -3.00  | -1.29  | -0.38  | 5.01   | 7.35   | 7.28   | 5.51   | 3.18   | 1.50   | -1.41  | -2.97  | -3.71  | -0.13  | 4.28   | 4.93   | 3.71   | 1.94   | -1.52  | -1.23  | -0.83  |
| -2.00  | 5.44   | 6.98   | 12.76  | 15.26  | 15.38  | 15.51  | 14.83  | 14.47  | 9.94   | 11.55  | 10.12  | 9.70   | 10.69  | 10.52  | 10.22  | 9.08   | 6.42   | 4.98   | 3.48   |
| -1.00  | 8.65   | 10.74  | 17.47  | 21.35  | 23.27  | 25.49  | 26.29  | 26.29  | 24.19  | 24.35  | 22.33  | 21.24  | 21.81  | 20.86  | 20.29  | 18.65  | 15.93  | 14.19  | 13.21  |
| 0.00   | 9.57   | 11.86  | 18.88  | 23.24  | 25.96  | 28.81  | 30.43  | 31.38  | 30.21  | 31.36  | 30.20  | 29.95  | 30.70  | 30.20  | 30.01  | 29.17  | 26.97  | 26.13  | 25.38  |
| 1.00   | 8.55   | 10.75  | 17.44  | 21.30  | 23.52  | 25.51  | 26.23  | 26.29  | 24.22  | 24.50  | 22.43  | 21.40  | 21.72  | 20.74  | 20.36  | 19.23  | 16.61  | 15.50  | 14.13  |
| 2.00   | 5.11   | 6.99   | 12.70  | 14.99  | 15.26  | 15.35  | 15.36  | 14.14  | 11.38  | 13.54  | 11.84  | 10.50  | 11.19  | 10.72  | 10.22  | 8.89   | 6.08   | 4.72   | 3.09   |
| 3.00   | -2.15  | -0.24  | 4.72   | 5.74   | 5.41   | 5.28   | 7.81   | 5.18   | 2.87   | 4.12   | 3.25   | 4.49   | 7.12   | 7.93   | 7.92   | 6.51   | 4.15   | 3.51   | 2.80   |
| 4.00   | -6.32  | -4.06  | -0.52  | -3.48  | -3.36  | -1.31  | 1.41   | 6.80   | 7.44   | 6.72   | 2.13   | -0.92  | 0.51   | 1.11   | 1.52   | 0.28   | -2.35  | -1.60  | -1.99  |
| 5.00   | -2.33  | -2.31  | -4.36  | -6.81  | -5.21  | -2.11  | 0.06   | -1.33  | -9.52  | -11.73 | -6.32  | -10.29 | -6.51  | -2.84  | -3.88  | -4.45  | -2.44  | -1.17  | -0.78  |
| 6.00   | -2.56  | -4.39  | -10.66 | -7.32  | -7.72  | -5.61  | -5.24  | -7.36  | -12.32 | -2.63  | -6.97  | -4.97  | -3.03  | -0.25  | 3.05   | 1.08   | -4.09  | -3.63  | -2.85  |
| 7.00   | -6.22  | -9.33  | -21.75 | -10.81 | -14.48 | -6.41  | -8.89  | -7.94  | -7.95  | -8.97  | -18.23 | -14.08 | -7.33  | -5.27  | -3.38  | -4.21  | -3.46  | -2.15  | -2.97  |
| 8.00   | -9.22  | -13.30 | -17.09 | -19.01 | -19.58 | -15.60 | -13.88 | -11.04 | -10.93 | -4.92  | -15.99 | -8.75  | -9.35  | -12.18 | -3.88  | -2.20  | -4.51  | -4.58  | -4.19  |
| 9.00   | -8.19  | -15.78 | -14.92 | -14.70 | -12.92 | -12.27 | -14.66 | -14.09 | -7.24  | -9.85  | -5.03  | -8.44  | -10.51 | -13.63 | -5.36  | -4.20  | -6.06  | -4.74  | -3.80  |
| 10.00  | -7.40  | -16.79 | -18.49 | -13.33 | -13.36 | -13.93 | -9.45  | -9.58  | -11.95 | -14.19 | -7.52  | -10.14 | -9.21  | -9.96  | -9.40  | -7.52  | -7.62  | -7.42  | -8.36  |
| 20.00  | -8.54  | -29.98 | -30.22 | -22.79 | -26.35 | -18.99 | -12.05 | -12.47 | -16.22 | -19.32 | -14.47 | -11.62 | -16.21 | -20.02 | -20.23 | -15.65 | -13.66 | -10.74 | -11.28 |
| 30.00  | -14.32 | -28.36 | -28.14 | -17.80 | -23.69 | -22.44 | -14.42 | -11.91 | -19.13 | -13.19 | -12.28 | -11.60 | -13.94 | -12.47 | -11.99 | -23.44 | -25.43 | -17.96 | -18.92 |
| 40.00  | -13.95 | -31.59 | -25.68 | -23.94 | -18.22 | -12.41 | -15.11 | -10.27 | -15.52 | -9.08  | -18.94 | -13.25 | -9.53  | -15.02 | -13.24 | -14.55 | -23.57 | -14.00 | -7.77  |
| 50.00  | -11.29 | -40.61 | -31.69 | -38.47 | -32.36 | -21.61 | -19.90 | -23.30 | -20.26 | -23.33 | -25.48 | -21.15 | -17.39 | -21.94 | -18.21 | -18.35 | -21.37 | -18.17 | -17.44 |
| 60.00  | -10.84 | -37.55 | -28.93 | -26.79 | -28.20 | -21.56 | -16.89 | -21.82 | -14.68 | -17.99 | -21.37 | -27.03 | -19.18 | -19.50 | -17.45 | -22.43 | -19.93 | -13.56 | -25.24 |
| 70.00  | -10.70 | -37.60 | -41.28 | -41.35 | -29.78 | -24.41 | -27.10 | -35.36 | -18.65 | -21.43 | -25.92 | -20.26 | -22.61 | -22.74 | -21.12 | -35.00 | -23.16 | -15.56 | -14.60 |
| 80.00  | -18.31 | -52.58 | -36.62 | -41.00 | -29.87 | -33.40 | -32.91 | -22.73 | -28.53 | -27.63 | -30.77 | -31.98 | -34.08 | -27.18 | -28.14 | -23.42 | -24.89 | -27.03 | -18.18 |
| 90.00  | -15.11 | -44.91 | -39.49 | -38.46 | -30.58 | -30.58 | -28.95 | -24.87 | -25.21 | -24.02 | -30.12 | -28.21 | -27.55 | -28.41 | -25.86 | -24.81 | -24.63 | -24.46 | -18.48 |

## **29.5 GHz Raw Data**

## **LHCP, Co-Pol, Azimuth**

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| -90.00 | -8.24  | -27.74 | -27.50 | -23.57 | -14.52 | -24.68 | -31.89 | -22.48 | -29.60 | -28.05 | -25.22 | -27.83 | -32.79 | -33.85 | -38.76 | -39.30 | -48.34 | -33.46 | -6.39 |
| -80.00 | -6.93  | -29.12 | -23.86 | -21.33 | -13.61 | -29.11 | -33.31 | -21.69 | -36.42 | -28.08 | -29.09 | -20.68 | -38.34 | -33.12 | -33.93 | -35.88 | -55.17 | -31.09 | -4.91 |
| -70.00 | -15.61 | -23.03 | -12.40 | -16.31 | -23.56 | -16.38 | -18.99 | -18.39 | -24.50 | -22.40 | -20.58 | -20.78 | -24.23 | -35.12 | -44.26 | -35.25 | -44.11 | -33.20 | -4.72 |
| -60.00 | -16.28 | -21.20 | -24.25 | -19.03 | -18.44 | -15.81 | -22.31 | -16.84 | -20.72 | -15.16 | -13.79 | -30.32 | -23.30 | -30.65 | -35.98 | -49.26 | -34.91 | -34.47 | -7.18 |
| -50.00 | -7.32  | -20.28 | -40.53 | -26.61 | -17.01 | -14.57 | -7.75  | -34.01 | -21.96 | -19.76 | -25.71 | -24.81 | -24.09 | -37.39 | -43.98 | -50.01 | -27.88 | -30.91 | -4.63 |
| -40.00 | -2.13  | -11.64 | -21.28 | -16.88 | -22.37 | -15.30 | -7.42  | -14.43 | -34.59 | -16.73 | -19.80 | -14.24 | -28.50 | -21.50 | -36.53 | -24.26 | -34.18 | -30.33 | -7.33 |
| -30.00 | -7.03  | -12.11 | -13.59 | -11.73 | -18.55 | -24.33 | -6.57  | -11.86 | -15.56 | -20.15 | -22.20 | -12.98 | -28.84 | -27.07 | -27.64 | -26.92 | -27.42 | -25.56 | -1.83 |
| -20.00 | -3.40  | -2.97  | -6.20  | -13.74 | -20.48 | -23.81 | -11.16 | -9.02  | -13.15 | -16.89 | -17.53 | -20.01 | -18.53 | -33.83 | -20.22 | -21.74 | -31.25 | -19.58 | -1.78 |
| -10.00 | 2.76   | 1.76   | -0.93  | -7.78  | -11.73 | -8.65  | -0.83  | -9.91  | -11.54 | -7.28  | -12.02 | -10.32 | -1.47  | -15.17 | -10.63 | -14.52 | -11.39 | 1.40   | 7.46  |
| -9.00  | 6.46   | 6.31   | 4.85   | 1.35   | -9.20  | -8.09  | -6.98  | 0.15   | 3.54   | -6.65  | -3.06  | -3.39  | -18.09 | -13.23 | -15.51 | -15.41 | -9.70  | 4.51   | 9.32  |
| -8.00  | 3.12   | 3.68   | 3.29   | 1.17   | -0.58  | -1.05  | 1.73   | 1.14   | 0.39   | 1.70   | 6.37   | -4.21  | -9.46  | -18.05 | -22.47 | -25.37 | -20.84 | -0.55  | 3.46  |
| -7.00  | 8.44   | 7.79   | 6.02   | 2.23   | -10.89 | 1.03   | 0.33   | -2.55  | 4.07   | 7.46   | -2.69  | 1.84   | -3.48  | -19.76 | -10.17 | -13.78 | -21.26 | 2.54   | 3.06  |
| -6.00  | 5.82   | 6.67   | 6.64   | 6.28   | 5.42   | 5.66   | 3.08   | -6.00  | -2.26  | -2.97  | -2.28  | 4.06   | -18.21 | -1.93  | -12.97 | -4.81  | -0.45  | 12.22  | 12.48 |
| -5.00  | 14.44  | 14.27  | 13.71  | 12.09  | 7.68   | 0.93   | 4.56   | 3.66   | -6.19  | -13.67 | -13.77 | -11.41 | 1.83   | -5.45  | -5.69  | -10.62 | 6.43   | 13.92  | 13.32 |
| -4.00  | 5.56   | 6.69   | 7.52   | 7.87   | 8.35   | 9.24   | 11.82  | 12.02  | 9.86   | 6.87   | 8.49   | 9.19   | 4.86   | 1.73   | -4.71  | -10.10 | -2.68  | 4.13   | 1.56  |
| -3.00  | 5.82   | 7.51   | 9.48   | 11.50  | 13.86  | 15.57  | 17.38  | 17.49  | 16.66  | 14.70  | 15.47  | 19.20  | 17.32  | 3.69   | 6.34   | 13.20  | 15.41  | 16.53  | 15.22 |
| -2.00  | 14.02  | 15.13  | 16.77  | 19.25  | 21.97  | 23.67  | 24.97  | 24.97  | 24.59  | 22.29  | 7.97   | 23.65  | 24.97  | 24.97  | 24.95  | 24.97  | 24.93  | 24.97  | 23.12 |
| -1.00  | 27.39  | 28.43  | 29.88  | 32.13  | 34.76  | 36.47  | 38.04  | 38.82  | 40.16  | 41.62  | 43.37  | 45.79  | 40.47  | 35.71  | 32.67  | 30.68  | 29.44  | 28.74  | 26.63 |
| 0.00   | 43.01  | 43.66  | 44.77  | 46.25  | 47.79  | 48.43  | 48.84  | 48.44  | 48.48  | 48.73  | 49.36  | 50.59  | 44.41  | 38.77  | 35.03  | 32.43  | 30.83  | 29.87  | 27.70 |
| 1.00   | 27.46  | 28.33  | 29.79  | 32.23  | 34.83  | 36.38  | 37.97  | 38.82  | 40.21  | 41.68  | 43.42  | 45.77  | 40.57  | 35.81  | 32.76  | 30.69  | 29.48  | 28.73  | 26.64 |
| 2.00   | -0.49  | 1.93   | 5.75   | 13.44  | 18.67  | 21.46  | 23.59  | 23.81  | 23.89  | 21.87  | 12.26  | 22.54  | 24.59  | 24.90  | 24.97  | 24.97  | 24.97  | 24.96  | 23.13 |
| 3.00   | 8.76   | 9.06   | 10.20  | 12.64  | 16.54  | 18.35  | 19.64  | 19.30  | 17.67  | 12.93  | 11.59  | 17.07  | 18.10  | 8.56   | 5.36   | 12.88  | 15.27  | 16.50  | 15.12 |
| 4.00   | -0.51  | 1.28   | 1.99   | -0.01  | 2.16   | 7.14   | 10.54  | 9.47   | 5.40   | 3.50   | 8.74   | 12.81  | -1.52  | 0.88   | -1.59  | -7.41  | 0.07   | 3.52   | 2.84  |
| 5.00   | 7.70   | 7.36   | 6.42   | 3.74   | -6.99  | 0.35   | 4.51   | 0.57   | -19.05 | -4.25  | -8.20  | 9.57   | 2.12   | -10.86 | -4.34  | -18.33 | 7.57   | 13.78  | 13.56 |
| 6.00   | 7.28   | 7.62   | 7.14   | 4.84   | -0.60  | -3.39  | 0.62   | -3.90  | -7.47  | 0.50   | -0.77  | -5.90  | -1.23  | 2.58   | -25.09 | -3.20  | 0.84   | 12.17  | 12.81 |
| 7.00   | 5.66   | 6.19   | 5.38   | 3.58   | -2.22  | -3.13  | -9.16  | -5.16  | -16.43 | -6.73  | -0.75  | 5.06   | -3.65  | -6.34  | -5.41  | -9.46  | -23.17 | 3.16   | 4.55  |
| 8.00   | -0.43  | 0.20   | -0.66  | -1.19  | 1.66   | 1.07   | -9.73  | -4.20  | -1.44  | -4.73  | -3.95  | -0.52  | -7.74  | -18.89 | -17.77 | -22.37 | -21.55 | -3.50  | 2.04  |
| 9.00   | 8.53   | 7.85   | 6.59   | 3.73   | -2.93  | -7.62  | -1.31  | -11.75 | 1.73   | -13.44 | -12.46 | -10.03 | -9.03  | -15.74 | -33.93 | -13.29 | -9.07  | 2.38   | 8.92  |
| 10.00  | 6.56   | 5.82   | 3.81   | 0.04   | -2.19  | -16.06 | -4.66  | -7.80  | -14.11 | -4.00  | -13.81 | -11.89 | -12.88 | -13.77 | -16.47 | -12.53 | -9.23  | -1.74  | 7.20  |
| 20.00  | -7.64  | -8.72  | -12.50 | -25.05 | -7.83  | -17.52 | -21.00 | -18.70 | -15.54 | -10.28 | -12.55 | -14.94 | -14.22 | -23.03 | -44.18 | -32.23 | -36.59 | -24.95 | -1.71 |
| 30.00  | -6.82  | -17.29 | -12.66 | -12.27 | -7.54  | -16.70 | -11.99 | -24.87 | -22.55 | -10.24 | -12.66 | -9.55  | -19.44 | -20.50 | -23.44 | -29.58 | -27.76 | -24.05 | -3.64 |
| 40.00  | -6.26  | -11.18 | -20.19 | -18.56 | -21.43 | -15.32 | -25.69 | -9.65  | -15.59 | -10.73 | -15.07 | -6.66  | -13.68 | -24.81 | -25.74 | -33.07 | -36.30 | -26.68 | -6.40 |
| 50.00  | -17.40 | -25.74 | -19.29 | -27.48 | -18.93 | -16.36 | -15.16 | -20.69 | -25.12 | -17.44 | -20.41 | -10.69 | -14.88 | -42.59 | -25.98 | -40.99 | -29.81 | -50.55 | -4.87 |
| 60.00  | -10.21 | -24.34 | -29.75 | -19.33 | -17.52 | -13.99 | -13.72 | -21.55 | -20.43 | -14.85 | -26.17 | -19.41 | -29.56 | -30.11 | -29.97 | -49.39 | -33.96 | -32.86 | -8.12 |
| 70.00  | -18.84 | -23.48 | -19.23 | -14.53 | -21.80 | -18.02 | -22.68 | -17.84 | -23.99 | -28.97 | -19.33 | -24.09 | -32.73 | -25.93 | -31.19 | -30.66 | -37.38 | -31.26 | -7.75 |
| 80.00  | -11.99 | -16.56 | -24.68 | -23.49 | -14.28 | -23.06 | -30.97 | -27.65 | -22.66 | -24.03 | -21.45 | -24.86 | -31.69 | -35.85 | -32.59 | -32.25 | -37.63 | -37.17 | -6.61 |
| 90.00  | -7.08  | -21.26 | -22.28 | -23.93 | -14.38 | -29.10 | -29.07 | -27.33 | -30.03 | -22.76 | -25.21 | -21.88 | -41.43 | -35.63 | -33.96 | -33.98 | -37.58 | -41.09 | -8.12 |



## LHCP, Co-Pol, Elevation

|        | 0     | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -3.39 | -30.31 | -37.88 | -20.20 | -19.04 | -22.52 | -26.18 | -26.22 | -21.12 | -25.22 | -27.67 | -20.73 | -30.16 | -22.02 | -10.97 | -20.57 | -24.60 | -24.75 | -5.24  |
| -80.00 | -1.91 | -27.94 | -44.71 | -16.78 | -14.21 | -21.78 | -31.73 | -19.07 | -24.99 | -25.25 | -34.49 | -19.94 | -31.58 | -26.45 | -10.06 | -18.33 | -20.96 | -26.12 | -3.93  |
| -70.00 | -1.72 | -30.05 | -33.65 | -16.14 | -24.54 | -23.79 | -17.62 | -19.17 | -16.48 | -19.57 | -22.57 | -16.64 | -17.26 | -13.72 | -20.01 | -13.32 | -9.49  | -20.03 | -12.62 |
| -60.00 | -4.18 | -31.33 | -24.46 | -30.15 | -16.26 | -19.32 | -16.70 | -28.71 | -9.69  | -12.33 | -18.79 | -15.09 | -20.57 | -13.15 | -14.89 | -16.04 | -21.35 | -18.20 | -13.28 |
| -50.00 | -1.63 | -27.77 | -17.42 | -30.91 | -24.26 | -26.06 | -17.48 | -23.20 | -21.61 | -16.93 | -20.03 | -32.26 | -6.01  | -11.91 | -13.46 | -23.62 | -37.63 | -17.28 | -4.32  |
| -40.00 | -4.33 | -27.18 | -23.72 | -5.15  | -16.81 | -10.17 | -21.90 | -12.63 | -15.70 | -13.90 | -32.66 | -12.68 | -5.68  | -12.64 | -18.82 | -13.89 | -18.38 | -8.64  | 0.87   |
| -30.00 | 1.17  | -22.41 | -16.96 | -7.82  | -7.92  | -15.73 | -22.23 | -11.37 | -18.10 | -17.32 | -13.63 | -10.11 | -4.84  | -21.67 | -15.00 | -8.74  | -10.69 | -9.11  | -4.03  |
| -20.00 | 1.22  | -16.43 | -20.80 | -2.63  | -0.50  | -22.49 | -11.92 | -18.41 | -13.43 | -14.06 | -11.22 | -7.27  | -9.42  | -21.15 | -16.93 | -10.74 | -3.30  | 0.03   | -0.40  |
| -10.00 | 10.46 | 4.55   | -0.93  | 4.58   | 9.09   | -3.83  | 5.14   | -8.71  | -7.91  | -4.45  | -9.61  | -8.17  | 0.90   | -5.98  | -8.18  | -4.79  | 1.97   | 4.76   | 5.76   |
| -9.00  | 12.32 | 7.66   | 0.76   | 3.70   | 4.21   | -1.90  | -11.48 | -1.79  | 1.04   | -3.83  | 5.47   | 1.90   | -5.24  | -5.42  | -5.65  | 4.35   | 7.75   | 9.31   | 9.45   |
| -8.00  | 6.46  | 2.60   | -10.38 | -6.26  | -2.75  | -6.72  | -2.85  | -2.60  | 10.47  | 4.53   | 2.32   | 2.89   | 3.46   | 1.62   | 2.97   | 4.16   | 6.20   | 6.68   | 6.12   |
| -7.00  | 6.06  | 5.69   | -10.80 | 5.33   | 9.55   | -8.43  | 3.13   | 3.44   | 1.42   | 10.28  | 6.00   | -0.80  | 2.06   | 3.70   | -7.34  | 5.23   | 8.92   | 10.79  | 11.44  |
| -6.00  | 15.48 | 15.36  | 10.00  | 14.30  | 6.75   | 9.40   | -11.61 | 5.67   | 1.82   | -0.14  | -0.33  | -4.25  | 4.81   | 8.32   | 8.97   | 9.27   | 9.55   | 9.66   | 8.81   |
| -5.00  | 16.32 | 17.07  | 16.89  | 8.49   | 14.03  | 5.89   | 8.44   | -9.80  | -9.67  | -10.84 | -4.26  | 5.41   | 6.29   | 3.59   | 11.23  | 15.09  | 16.61  | 17.27  | 17.44  |
| -4.00  | 4.56  | 7.27   | 7.78   | 9.01   | 15.01  | 13.06  | 11.47  | 10.80  | 12.59  | 9.69   | 11.79  | 13.77  | 13.55  | 11.90  | 11.90  | 10.87  | 10.43  | 9.69   | 8.56   |
| -3.00  | 18.22 | 19.67  | 25.87  | 32.30  | 26.06  | 15.03  | 23.93  | 20.81  | 19.57  | 17.52  | 18.59  | 19.24  | 19.12  | 18.23  | 17.41  | 14.50  | 12.38  | 10.51  | 8.82   |
| -2.00  | 26.12 | 28.12  | 35.38  | 44.08  | 44.66  | 36.31  | 31.58  | 25.26  | 12.07  | 25.12  | 26.52  | 26.72  | 26.71  | 26.34  | 25.52  | 22.24  | 19.67  | 18.13  | 17.02  |
| -1.00  | 29.63 | 31.89  | 39.90  | 49.79  | 52.39  | 47.05  | 47.08  | 47.40  | 47.48  | 44.44  | 42.09  | 40.56  | 39.77  | 39.13  | 38.31  | 35.13  | 32.78  | 31.43  | 30.38  |
| 0.00   | 30.70 | 33.02  | 41.29  | 51.53  | 54.75  | 50.11  | 51.02  | 52.20  | 53.46  | 51.55  | 50.41  | 50.19  | 50.57  | 51.09  | 51.34  | 49.25  | 47.67  | 46.66  | 46.00  |
| 1.00   | 29.64 | 31.87  | 39.93  | 49.79  | 52.48  | 47.15  | 47.18  | 47.38  | 47.53  | 44.51  | 42.14  | 40.56  | 39.71  | 39.04  | 38.38  | 35.22  | 32.69  | 31.33  | 30.46  |
| 2.00   | 26.13 | 28.11  | 35.43  | 44.08  | 44.69  | 36.23  | 31.20  | 24.15  | 16.36  | 24.69  | 25.81  | 25.56  | 25.33  | 24.12  | 22.22  | 16.44  | 8.65   | 4.93   | 2.51   |
| 3.00   | 18.12 | 19.65  | 25.73  | 31.99  | 25.08  | 19.89  | 24.71  | 18.68  | 15.69  | 15.76  | 19.60  | 21.04  | 21.37  | 21.01  | 20.09  | 15.64  | 13.10  | 12.06  | 11.76  |
| 4.00   | 5.84  | 6.67   | 10.53  | 11.69  | 18.12  | 12.22  | 5.08   | 14.41  | 12.84  | 6.33   | 7.33   | 11.22  | 12.27  | 9.81   | 5.71   | 2.99   | 4.89   | 4.28   | 2.49   |
| 5.00   | 16.56 | 16.93  | 18.03  | 0.78   | 15.37  | 0.48   | 8.73   | 11.18  | -4.09  | -1.42  | -17.12 | 2.32   | 6.24   | 3.01   | -3.44  | 6.74   | 9.33   | 10.35  | 10.70  |
| 6.00   | 15.81 | 15.32  | 11.29  | 15.90  | -5.38  | 13.92  | 5.38   | -4.29  | 3.33   | 3.33   | -5.55  | -2.15  | 2.36   | -0.73  | 2.95   | 7.83   | 10.04  | 10.62  | 10.28  |
| 7.00   | 7.55  | 6.30   | -12.71 | 9.65   | 14.31  | 5.00   | 2.96   | 6.67   | 3.35   | -3.91  | -14.50 | -3.41  | -7.43  | -0.47  | 1.33   | 6.58   | 8.28   | 9.19   | 8.66   |
| 8.00   | 5.04  | -0.35  | -11.09 | -3.27  | 1.95   | -7.56  | -1.14  | 1.09   | 0.15   | -1.90  | 0.49   | -2.45  | -8.00  | 3.74   | 5.21   | 1.81   | 2.24   | 3.20   | 2.57   |
| 9.00   | 11.92 | 5.53   | 1.38   | 5.82   | -14.21 | -4.41  | -2.43  | -8.42  | -8.36  | -10.61 | 3.66   | -10.00 | 0.43   | -4.96  | 0.62   | 6.73   | 9.49   | 10.85  | 11.53  |
| 10.00  | 10.20 | 1.40   | 1.23   | 6.58   | 3.24   | -2.44  | -6.27  | -10.28 | -9.71  | -1.17  | -12.18 | -6.06  | -2.93  | -13.40 | 1.36   | 3.04   | 6.71   | 8.82   | 9.56   |
| 20.00  | 1.29  | -21.80 | -26.14 | -13.12 | -24.46 | -11.69 | -7.61  | -13.33 | -8.45  | -7.45  | -13.61 | -16.95 | -19.26 | -14.86 | -4.28  | -22.06 | -9.59  | -5.72  | -4.64  |
| 30.00  | -0.64 | -20.90 | -17.30 | -10.47 | -3.72  | -9.16  | -12.83 | -7.94  | -8.55  | -7.41  | -20.62 | -23.12 | -10.26 | -14.03 | -3.99  | -9.28  | -9.75  | -14.29 | -3.82  |
| 40.00  | -3.40 | -23.53 | -25.84 | -13.96 | -6.02  | -13.47 | -7.07  | -5.05  | -10.96 | -7.90  | -13.66 | -7.90  | -23.95 | -12.66 | -17.88 | -15.56 | -17.29 | -8.18  | -3.26  |
| 50.00  | -1.87 | -47.40 | -19.35 | -21.88 | -6.26  | -31.25 | -8.27  | -9.08  | -16.31 | -14.62 | -23.19 | -18.94 | -13.43 | -13.70 | -15.38 | -24.49 | -16.39 | -22.74 | -14.40 |
| 60.00  | -5.12 | -29.72 | -23.50 | -30.28 | -10.25 | -18.78 | -22.95 | -17.80 | -22.06 | -12.02 | -18.50 | -19.80 | -11.99 | -11.32 | -13.97 | -16.34 | -26.84 | -21.34 | -7.21  |
| 70.00  | -4.75 | -28.11 | -26.92 | -11.56 | -11.47 | -14.59 | -26.12 | -22.48 | -15.23 | -26.14 | -22.06 | -16.10 | -20.95 | -15.36 | -18.25 | -11.53 | -16.33 | -20.48 | -15.84 |
| 80.00  | -3.61 | -34.03 | -27.17 | -13.14 | -12.87 | -24.52 | -25.09 | -23.25 | -17.35 | -21.20 | -20.73 | -25.90 | -29.24 | -20.39 | -10.73 | -20.49 | -21.78 | -13.56 | -8.99  |
| 90.00  | -5.12 | -37.95 | -27.12 | -14.87 | -14.24 | -24.30 | -34.82 | -20.27 | -21.11 | -19.93 | -28.10 | -25.58 | -27.34 | -26.44 | -10.83 | -20.93 | -19.38 | -18.27 | -4.08  |

## LHCP, Cross-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -18.15 | -29.14 | -35.83 | -29.30 | -29.40 | -32.12 | -34.99 | -29.98 | -37.61 | -32.91 | -30.60 | -28.63 | -35.79 | -39.24 | -40.63 | -45.27 | -45.76 | -39.04 | -17.61 |
| -80.00 | -14.79 | -35.79 | -29.06 | -27.73 | -30.40 | -29.62 | -32.88 | -28.90 | -37.81 | -32.42 | -28.44 | -27.86 | -36.15 | -41.15 | -39.54 | -47.49 | -46.11 | -38.07 | -16.17 |
| -70.00 | -16.54 | -26.62 | -20.05 | -29.65 | -32.32 | -25.37 | -37.70 | -32.41 | -30.05 | -22.73 | -29.20 | -18.42 | -35.71 | -33.38 | -39.38 | -50.91 | -43.63 | -39.33 | -16.37 |
| -60.00 | -15.05 | -34.81 | -32.89 | -24.84 | -23.98 | -30.25 | -31.90 | -26.63 | -22.03 | -25.89 | -22.65 | -32.73 | -24.58 | -42.71 | -35.50 | -43.83 | -43.46 | -38.83 | -18.12 |
| -50.00 | -20.64 | -30.53 | -32.68 | -27.46 | -18.53 | -26.03 | -14.53 | -26.83 | -25.81 | -27.35 | -28.92 | -22.32 | -23.09 | -35.87 | -29.89 | -37.42 | -36.95 | -41.57 | -21.41 |
| -40.00 | -8.13  | -18.91 | -32.54 | -23.93 | -30.36 | -23.03 | -19.98 | -21.19 | -26.08 | -31.64 | -28.63 | -30.67 | -28.62 | -26.45 | -40.70 | -42.36 | -41.59 | -39.17 | -27.91 |
| -30.00 | -13.42 | -17.26 | -24.10 | -29.82 | -27.30 | -27.05 | -17.22 | -24.63 | -17.62 | -31.72 | -25.45 | -25.79 | -25.41 | -35.43 | -41.75 | -29.53 | -48.99 | -36.88 | -28.29 |
| -20.00 | -8.36  | -12.48 | -29.96 | -17.92 | -16.47 | -19.21 | -21.25 | -26.42 | -21.53 | -23.71 | -20.10 | -22.08 | -19.09 | -30.47 | -36.38 | -36.51 | -32.73 | -32.20 | -15.91 |
| -10.00 | -16.38 | -15.74 | -14.66 | -12.44 | -12.77 | -12.25 | -20.70 | -21.39 | -14.57 | -17.25 | -19.13 | -17.77 | -24.53 | -27.83 | -30.15 | -22.94 | -31.63 | -15.73 | -14.37 |
| -9.00  | -16.24 | -18.22 | -16.62 | -12.71 | -12.78 | -22.45 | -18.70 | -14.67 | -14.29 | -10.05 | -13.54 | -23.09 | -25.29 | -28.27 | -29.08 | -25.85 | -33.88 | -22.32 | -27.72 |
| -8.00  | -10.34 | -11.57 | -15.11 | -11.76 | -6.00  | -8.46  | -13.02 | -8.99  | -6.51  | -13.11 | -18.24 | -15.20 | -24.31 | -23.56 | -35.96 | -36.12 | -31.41 | -17.27 | -13.74 |
| -7.00  | -4.30  | -3.15  | -3.81  | -7.03  | -8.58  | -10.08 | -9.48  | -11.25 | -15.03 | -19.09 | -9.38  | -13.40 | -14.99 | -20.41 | -27.54 | -25.19 | -28.87 | -11.82 | -9.90  |
| -6.00  | -3.99  | -3.31  | -3.56  | -5.23  | -3.17  | -3.88  | -8.51  | -9.28  | -7.00  | -8.53  | -12.18 | -13.22 | -11.33 | -17.95 | -23.39 | -28.71 | -17.63 | -10.87 | -11.31 |
| -5.00  | -4.45  | -4.15  | -2.83  | -2.04  | -3.48  | -8.19  | -9.34  | -8.14  | -10.20 | -11.89 | -15.15 | -15.76 | -16.70 | -22.05 | -22.67 | -22.92 | -17.29 | -14.54 | -16.22 |
| -4.00  | -9.95  | -10.46 | -11.43 | -10.92 | -7.63  | -5.18  | -2.68  | -1.68  | -2.25  | -2.81  | -3.47  | -5.45  | -18.84 | -15.30 | -15.28 | -21.16 | -21.98 | -12.94 | -14.21 |
| -3.00  | -1.71  | -0.38  | 0.69   | 2.32   | 4.37   | 4.87   | 4.28   | 1.75   | -1.42  | -5.14  | -8.41  | -1.35  | -3.55  | -10.33 | -12.29 | -22.58 | -20.05 | -16.44 | -15.62 |
| -2.00  | -8.71  | -8.41  | -8.29  | -7.66  | -7.22  | -7.47  | -6.08  | -3.58  | -0.26  | 2.11   | 3.12   | 2.38   | -2.49  | -11.15 | -14.56 | -14.04 | -13.78 | -13.58 | -14.37 |
| -1.00  | 7.05   | 7.61   | 7.46   | 9.01   | 9.67   | 10.38  | 9.50   | 8.21   | 6.79   | 5.97   | 5.67   | 6.63   | 0.73   | -4.57  | -7.16  | -9.17  | -10.41 | -11.01 | -13.07 |
| 0.00   | 3.37   | 4.14   | 5.04   | 6.77   | 8.19   | 8.73   | 9.02   | 8.88   | 8.84   | 9.04   | 9.61   | 10.87  | 4.84   | -0.91  | -4.47  | -7.17  | -8.84  | -9.64  | -12.02 |
| 1.00   | 10.26  | 10.18  | 10.25  | 9.87   | 11.04  | 11.06  | 9.52   | 8.32   | 6.80   | 6.01   | 5.92   | 6.39   | 0.82   | -4.69  | -7.39  | -9.17  | -10.51 | -10.97 | -13.16 |
| 2.00   | -0.94  | -0.01  | 0.69   | 1.18   | 3.45   | 4.80   | 5.48   | 5.03   | 5.41   | 8.08   | 10.07  | 9.13   | 1.25   | -5.45  | -9.86  | -12.00 | -13.26 | -13.41 | -15.92 |
| 3.00   | 1.24   | 2.19   | 4.18   | 6.89   | 6.79   | 7.52   | 7.67   | 6.59   | 4.67   | 0.52   | -1.93  | 3.36   | 2.39   | -2.49  | -11.57 | -12.85 | -14.13 | -14.84 | -17.94 |
| 4.00   | -2.78  | -2.29  | -1.81  | -0.75  | 0.38   | -0.64  | -1.94  | -2.37  | 1.20   | 3.74   | 3.31   | 0.61   | -11.95 | -11.62 | -14.35 | -13.79 | -12.73 | -12.07 | -13.81 |
| 5.00   | -5.34  | -5.04  | -6.02  | -8.62  | -9.16  | -7.57  | -5.89  | -5.51  | -8.58  | -11.07 | -11.40 | -11.46 | -18.18 | -21.85 | -22.25 | -19.97 | -13.63 | -14.13 | -16.42 |
| 6.00   | -7.36  | -7.47  | -7.63  | -7.58  | -5.13  | -5.09  | -8.04  | -11.61 | -14.25 | -13.85 | -17.10 | -14.89 | -12.98 | -17.90 | -28.24 | -26.19 | -16.73 | -11.11 | -11.60 |
| 7.00   | -5.69  | -5.04  | -4.91  | -6.03  | -6.64  | -11.14 | -20.81 | -24.31 | -13.06 | -16.00 | -12.51 | -12.33 | -19.14 | -17.54 | -26.49 | -26.51 | -31.11 | -11.08 | -9.47  |
| 8.00   | -17.38 | -16.39 | -10.97 | -7.25  | -6.30  | -8.43  | -13.56 | -10.27 | -15.37 | -13.81 | -16.46 | -13.87 | -19.43 | -22.61 | -32.70 | -29.40 | -23.41 | -18.78 | -12.11 |
| 9.00   | -8.60  | -7.00  | -7.20  | -8.65  | -6.31  | -9.80  | -11.31 | -11.12 | -8.83  | -13.60 | -26.42 | -15.33 | -17.94 | -21.32 | -30.07 | -29.11 | -23.67 | -30.46 | -24.18 |
| 10.00  | -12.53 | -14.11 | -14.95 | -14.14 | -12.04 | -17.20 | -17.01 | -15.15 | -13.17 | -13.47 | -18.15 | -12.15 | -20.61 | -21.42 | -34.07 | -27.92 | -25.12 | -23.02 | -15.78 |
| 20.00  | -8.64  | -9.25  | -13.98 | -25.58 | -20.26 | -25.02 | -13.84 | -22.75 | -19.77 | -17.74 | -24.96 | -24.87 | -28.10 | -27.30 | -41.29 | -35.96 | -37.55 | -28.76 | -13.43 |
| 30.00  | -13.46 | -24.98 | -17.71 | -29.18 | -18.86 | -18.59 | -15.41 | -21.93 | -21.87 | -18.16 | -15.29 | -16.84 | -24.05 | -26.71 | -30.62 | -33.79 | -37.89 | -31.91 | -25.00 |
| 40.00  | -11.71 | -26.34 | -21.99 | -26.79 | -23.14 | -16.03 | -18.78 | -16.57 | -22.15 | -16.94 | -19.60 | -23.23 | -25.82 | -24.16 | -30.69 | -31.71 | -39.95 | -36.74 | -28.72 |
| 50.00  | -24.55 | -24.62 | -28.34 | -29.68 | -26.09 | -26.12 | -18.26 | -22.93 | -33.24 | -27.98 | -32.39 | -20.22 | -27.86 | -35.74 | -28.12 | -47.75 | -33.57 | -49.30 | -21.11 |
| 60.00  | -19.73 | -26.98 | -32.39 | -30.46 | -21.86 | -28.35 | -21.79 | -26.74 | -18.06 | -26.60 | -27.09 | -23.87 | -36.00 | -29.73 | -36.45 | -38.66 | -46.97 | -42.23 | -16.86 |
| 70.00  | -22.71 | -26.24 | -21.06 | -22.54 | -26.02 | -29.73 | -29.91 | -40.88 | -27.62 | -34.93 | -33.61 | -24.17 | -33.05 | -33.44 | -38.68 | -38.58 | -42.27 | -37.82 | -15.13 |
| 80.00  | -16.73 | -31.31 | -32.10 | -29.53 | -38.05 | -35.95 | -38.58 | -26.59 | -34.98 | -32.09 | -33.65 | -34.43 | -39.45 | -40.16 | -39.76 | -48.26 | -53.76 | -42.51 | -14.62 |
| 90.00  | -18.44 | -30.22 | -32.42 | -31.72 | -31.46 | -33.34 | -35.15 | -30.04 | -39.37 | -35.07 | -29.75 | -34.63 | -41.87 | -39.92 | -42.04 | -45.13 | -52.71 | -45.50 | -16.05 |

## LHCP, Cross-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -14.61 | -35.90 | -35.30 | -26.16 | -20.91 | -27.90 | -29.18 | -27.02 | -26.50 | -30.09 | -35.68 | -28.24 | -33.26 | -29.46 | -25.85 | -26.31 | -32.93 | -26.14 | -15.15 |
| -80.00 | -13.17 | -34.93 | -35.65 | -28.38 | -19.82 | -29.82 | -29.54 | -26.25 | -24.34 | -29.59 | -35.88 | -27.15 | -31.15 | -26.96 | -26.85 | -24.73 | -26.16 | -32.79 | -11.80 |
| -70.00 | -13.37 | -36.18 | -33.17 | -31.80 | -19.67 | -22.04 | -29.11 | -16.81 | -25.10 | -19.90 | -28.13 | -30.67 | -35.96 | -22.71 | -28.77 | -26.66 | -17.15 | -23.62 | -13.54 |
| -60.00 | -15.12 | -35.68 | -33.00 | -24.72 | -15.78 | -31.37 | -17.97 | -31.12 | -18.55 | -23.06 | -20.10 | -24.88 | -30.17 | -27.59 | -20.43 | -21.84 | -29.99 | -31.81 | -12.06 |
| -50.00 | -18.41 | -38.42 | -26.49 | -18.31 | -10.17 | -24.54 | -16.48 | -20.72 | -24.82 | -24.52 | -23.88 | -25.08 | -12.80 | -23.36 | -14.98 | -24.46 | -29.78 | -27.53 | -17.64 |
| -40.00 | -24.91 | -36.02 | -31.13 | -23.25 | -20.98 | -15.12 | -22.01 | -29.06 | -24.53 | -28.81 | -24.15 | -19.44 | -18.25 | -20.36 | -26.81 | -20.93 | -29.64 | -15.91 | -5.13  |
| -30.00 | -25.29 | -33.73 | -38.53 | -10.42 | -22.03 | -24.10 | -18.81 | -24.18 | -21.34 | -28.89 | -15.69 | -22.89 | -15.48 | -24.39 | -23.75 | -26.83 | -21.20 | -14.26 | -10.42 |
| -20.00 | -12.91 | -29.05 | -22.27 | -17.41 | -16.66 | -19.14 | -12.48 | -20.47 | -16.00 | -20.88 | -19.60 | -24.68 | -19.51 | -16.55 | -12.92 | -14.93 | -27.06 | -9.48  | -5.36  |
| -10.00 | -11.37 | -12.58 | -21.17 | -3.83  | -10.43 | -16.50 | -17.92 | -16.16 | -15.03 | -14.42 | -12.64 | -19.65 | -18.97 | -9.59  | -9.22  | -9.44  | -11.76 | -12.74 | -13.38 |
| -9.00  | -24.72 | -19.17 | -23.43 | -6.74  | -9.36  | -16.93 | -18.68 | -21.48 | -9.44  | -7.22  | -12.36 | -12.92 | -16.97 | -19.79 | -9.24  | -9.71  | -13.72 | -15.23 | -13.24 |
| -8.00  | -10.74 | -14.12 | -20.95 | -17.01 | -16.24 | -12.23 | -17.70 | -13.59 | -14.14 | -10.29 | -4.58  | -7.24  | -11.28 | -5.80  | -2.45  | -8.77  | -12.21 | -8.57  | -7.34  |
| -7.00  | -6.90  | -8.67  | -18.41 | -6.08  | -7.82  | -9.08  | -8.38  | -11.79 | -5.28  | -16.27 | -13.11 | -9.51  | -7.75  | -7.41  | -5.03  | -4.03  | -0.91  | -0.15  | -1.30  |
| -6.00  | -8.31  | -7.72  | -7.18  | -9.61  | -3.67  | -6.61  | -4.73  | -11.61 | -8.08  | -5.71  | -5.07  | -7.53  | -6.78  | -1.22  | 0.38   | -2.24  | -0.65  | -0.31  | -1.00  |
| -5.00  | -13.22 | -11.39 | -6.83  | -3.81  | -2.96  | -10.72 | -10.09 | -14.15 | -11.05 | -9.06  | -8.27  | -6.39  | -7.60  | -5.53  | 0.07   | 0.96   | 0.08   | -1.15  | -1.45  |
| -4.00  | -11.21 | -9.79  | -11.53 | -2.06  | 4.44   | -3.97  | -12.23 | -3.84  | 0.63   | 0.01   | -0.32  | 0.07   | -0.95  | -2.51  | -4.08  | -7.93  | -8.53  | -7.46  | -6.95  |
| -3.00  | -12.62 | -13.30 | -9.59  | -3.47  | 7.42   | 1.00   | 3.06   | 0.26   | -4.31  | -2.32  | 0.51   | 3.49   | 6.01   | 7.53   | 7.92   | 5.32   | 3.59   | 2.62   | 1.29   |
| -2.00  | -11.37 | -10.43 | -3.32  | 5.07   | 5.16   | 0.18   | 4.12   | 3.99   | 7.22   | 4.94   | 1.67   | -1.83  | -4.34  | -4.81  | -3.67  | -4.66  | -5.39  | -5.41  | -5.71  |
| -1.00  | -10.07 | -7.86  | 0.04   | 9.94   | 12.56  | 6.76   | 7.34   | 8.24   | 9.77   | 8.80   | 8.72   | 9.96   | 11.23  | 13.04  | 13.22  | 12.01  | 10.36  | 10.61  | 10.05  |
| 0.00   | -9.02  | -6.49  | 1.62   | 11.94  | 15.25  | 10.43  | 11.44  | 12.48  | 13.71  | 11.86  | 10.76  | 10.62  | 10.76  | 11.39  | 11.74  | 9.77   | 7.95   | 7.14   | 6.36   |
| 1.00   | -10.16 | -7.82  | -0.06  | 9.94   | 12.32  | 6.65   | 7.43   | 8.00   | 10.03  | 8.84   | 8.73   | 10.07  | 11.25  | 13.72  | 14.59  | 12.87  | 13.16  | 13.18  | 13.26  |
| 2.00   | -12.92 | -10.26 | -2.81  | 7.10   | 9.86   | 5.88   | 7.86   | 10.74  | 14.18  | 10.91  | 7.34   | 6.78   | 7.21   | 7.46   | 7.00   | 4.18   | 3.60   | 2.99   | 2.06   |
| 3.00   | -14.94 | -11.69 | -3.67  | 6.26   | 8.15   | 8.84   | 9.00   | 4.97   | 2.17   | 3.35   | 6.60   | 8.34   | 9.41   | 10.18  | 10.34  | 9.89   | 7.08   | 5.19   | 4.24   |
| 4.00   | -10.81 | -8.92  | -2.27  | 5.31   | 5.37   | -0.29  | -5.34  | 2.22   | 7.41   | 6.57   | 3.13   | -0.62  | -0.21  | 2.03   | 3.93   | 2.24   | 1.10   | 0.71   | 0.22   |
| 5.00   | -13.42 | -10.98 | -3.17  | -0.86  | -2.53  | -10.52 | -11.57 | -9.85  | -7.30  | -8.24  | -6.65  | -3.76  | -4.16  | -4.91  | -5.61  | -5.62  | -3.12  | -2.04  | -2.34  |
| 6.00   | -8.60  | -7.96  | -6.27  | -7.09  | -8.52  | -6.57  | -6.37  | -13.28 | -13.00 | -11.02 | -12.32 | -9.86  | -6.31  | -2.43  | -1.58  | -4.58  | -4.73  | -4.47  | -4.37  |
| 7.00   | -6.47  | -7.93  | -20.66 | -7.40  | -6.77  | -6.21  | -12.53 | -10.72 | -8.40  | -13.17 | -11.13 | -22.56 | -19.08 | -8.48  | -3.09  | -3.04  | -2.01  | -2.04  | -2.69  |
| 8.00   | -9.11  | -15.63 | -12.95 | -10.30 | -12.98 | -11.28 | -12.83 | -12.26 | -12.36 | -10.98 | -13.44 | -8.52  | -11.83 | -5.77  | -2.75  | -4.25  | -8.07  | -13.39 | -14.38 |
| 9.00   | -21.18 | -27.32 | -13.21 | -10.00 | -10.35 | -9.99  | -11.33 | -13.73 | -22.32 | -10.77 | -6.90  | -9.37  | -9.57  | -7.14  | -2.76  | -5.65  | -4.29  | -4.00  | -5.60  |
| 10.00  | -12.78 | -19.87 | -14.67 | -8.82  | -14.35 | -10.09 | -14.00 | -10.54 | -14.05 | -10.65 | -11.24 | -13.40 | -15.27 | -14.54 | -8.49  | -11.14 | -12.05 | -11.11 | -9.53  |
| 20.00  | -10.43 | -25.61 | -27.09 | -16.85 | -21.57 | -15.96 | -21.49 | -23.26 | -20.86 | -14.92 | -17.84 | -21.01 | -12.10 | -22.36 | -16.71 | -22.58 | -11.08 | -6.26  | -5.64  |
| 30.00  | -22.00 | -28.76 | -27.43 | -14.68 | -10.90 | -15.37 | -17.45 | -15.23 | -11.18 | -15.33 | -19.94 | -20.18 | -13.67 | -15.92 | -15.31 | -26.18 | -14.81 | -21.98 | -10.47 |
| 40.00  | -25.72 | -33.59 | -29.50 | -12.60 | -10.97 | -12.82 | -19.21 | -21.62 | -15.50 | -14.11 | -20.22 | -14.82 | -17.05 | -13.37 | -19.59 | -23.80 | -19.09 | -23.34 | -8.71  |
| 50.00  | -18.11 | -46.15 | -23.12 | -28.64 | -8.41  | -24.40 | -21.26 | -18.61 | -28.29 | -25.15 | -31.31 | -21.18 | -16.53 | -23.45 | -22.54 | -26.68 | -25.44 | -21.62 | -21.56 |
| 60.00  | -13.86 | -39.09 | -36.51 | -19.56 | -16.74 | -18.40 | -29.39 | -22.26 | -22.99 | -23.78 | -16.14 | -24.99 | -20.06 | -25.69 | -18.31 | -27.47 | -29.49 | -23.98 | -16.73 |
| 70.00  | -12.13 | -34.67 | -31.81 | -19.47 | -18.96 | -22.10 | -26.44 | -22.56 | -29.50 | -32.10 | -25.69 | -39.14 | -28.18 | -27.06 | -22.47 | -19.54 | -18.16 | -23.24 | -19.71 |
| 80.00  | -11.62 | -39.36 | -43.30 | -29.15 | -20.04 | -28.82 | -32.84 | -32.82 | -29.55 | -29.27 | -33.05 | -24.84 | -36.85 | -33.28 | -34.50 | -26.53 | -29.20 | -28.31 | -13.74 |
| 90.00  | -13.05 | -42.36 | -42.25 | -26.02 | -22.32 | -28.58 | -35.26 | -33.02 | -25.65 | -32.24 | -37.44 | -28.30 | -33.41 | -30.68 | -27.91 | -28.72 | -29.52 | -27.22 | -15.44 |

# **RHCP, Co-Pol, Azimuth**

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| -90.00 | -9.21  | -25.60 | -25.92 | -24.28 | -15.41 | -26.60 | -24.56 | -19.96 | -26.31 | -25.07 | -21.47 | -27.48 | -30.33 | -37.41 | -41.92 | -32.60 | -50.95 | -37.67 | -8.54 |
| -80.00 | -7.13  | -28.21 | -26.95 | -26.24 | -14.30 | -32.09 | -25.04 | -18.37 | -30.49 | -33.29 | -22.31 | -26.15 | -23.46 | -39.18 | -39.87 | -31.10 | -40.87 | -34.62 | -6.66 |
| -70.00 | -11.02 | -15.24 | -17.78 | -19.63 | -18.95 | -20.52 | -17.85 | -27.09 | -26.47 | -17.70 | -23.89 | -13.75 | -35.03 | -32.58 | -29.21 | -48.48 | -44.84 | -30.93 | -6.26 |
| -60.00 | -11.06 | -22.79 | -19.41 | -19.75 | -21.76 | -17.50 | -13.88 | -18.85 | -31.06 | -22.75 | -28.20 | -17.63 | -25.97 | -37.36 | -34.06 | -27.58 | -31.06 | -36.09 | -8.23 |
| -50.00 | -9.77  | -21.22 | -30.37 | -27.99 | -14.50 | -20.13 | -12.97 | -24.19 | -23.37 | -11.44 | -19.86 | -13.47 | -38.18 | -26.52 | -26.02 | -39.04 | -38.92 | -31.25 | -5.31 |
| -40.00 | -3.23  | -10.23 | -16.93 | -12.95 | -20.07 | -31.51 | -15.70 | -19.68 | -34.60 | -23.81 | -13.12 | -13.29 | -17.55 | -29.80 | -24.88 | -31.39 | -36.44 | -35.19 | -8.18 |
| -30.00 | -13.88 | -7.86  | -25.98 | -13.40 | -9.97  | -11.95 | -15.38 | -20.60 | -11.11 | -39.54 | -12.66 | -27.37 | -16.25 | -16.77 | -24.18 | -32.90 | -28.91 | -23.09 | -2.34 |
| -20.00 | -5.76  | -11.13 | -12.46 | -7.62  | -9.40  | -14.17 | -9.36  | -8.76  | -6.50  | -19.55 | -13.54 | -6.31  | -14.47 | -23.58 | -25.17 | -29.17 | -27.42 | -18.41 | -1.71 |
| -10.00 | 1.97   | 0.46   | -2.10  | -6.17  | -15.45 | -3.17  | -0.22  | -4.48  | -14.73 | -14.75 | -10.53 | -1.76  | -2.32  | -11.07 | -13.25 | -18.53 | -11.38 | -1.59  | 7.04  |
| -9.00  | 6.62   | 5.65   | 3.18   | -3.97  | -5.33  | -4.79  | -7.80  | -9.29  | -6.70  | -1.46  | -5.70  | -16.11 | -8.17  | -16.95 | -18.43 | -16.74 | -8.16  | 2.66   | 9.18  |
| -8.00  | 2.83   | 3.06   | 1.07   | -3.27  | -12.63 | -10.55 | -29.42 | -9.17  | 0.56   | -7.11  | 6.09   | -3.37  | -12.47 | -20.89 | -23.17 | -22.96 | -14.73 | -1.52  | 3.62  |
| -7.00  | 7.56   | 7.24   | 6.37   | 3.66   | -5.14  | -4.92  | -7.84  | -21.19 | 3.47   | 8.20   | 2.28   | -5.42  | -5.19  | -10.53 | -10.37 | -13.15 | -15.29 | 1.45   | 2.75  |
| -6.00  | 5.06   | 4.84   | 3.24   | 0.81   | 0.88   | 4.46   | 7.48   | 5.85   | 5.55   | 1.72   | -0.38  | 7.33   | -2.89  | -4.08  | -8.55  | -2.40  | -0.01  | 11.48  | 12.44 |
| -5.00  | 14.18  | 14.09  | 13.87  | 12.58  | 9.25   | -3.75  | 1.67   | 3.57   | 0.90   | -1.18  | -2.25  | -12.84 | -5.24  | -11.66 | -3.11  | -7.50  | 7.06   | 13.43  | 13.41 |
| -4.00  | 4.13   | 5.30   | 5.57   | 4.91   | 4.02   | 3.23   | 7.69   | 6.37   | 0.74   | 0.93   | 7.75   | 11.14  | 1.32   | -3.52  | -8.06  | -13.26 | 0.88   | 3.59   | 1.83  |
| -3.00  | 5.79   | 7.57   | 8.84   | 10.94  | 13.22  | 14.47  | 15.65  | 16.85  | 16.53  | 15.46  | 16.75  | 19.67  | 16.51  | 4.73   | 6.37   | 13.08  | 14.97  | 16.43  | 15.26 |
| -2.00  | 14.17  | 15.21  | 17.07  | 19.48  | 21.97  | 23.32  | 24.15  | 24.97  | 24.49  | 22.04  | 10.13  | 22.82  | 24.97  | 24.97  | 24.97  | 24.85  | 24.96  | 24.97  | 23.23 |
| -1.00  | 27.42  | 27.99  | 29.34  | 31.50  | 34.01  | 35.56  | 37.20  | 38.80  | 40.10  | 41.58  | 43.27  | 45.56  | 40.71  | 35.78  | 32.82  | 30.74  | 29.55  | 28.80  | 26.76 |
| 0.00   | 42.72  | 43.19  | 44.21  | 45.65  | 47.28  | 47.58  | 48.05  | 48.39  | 48.44  | 48.69  | 49.23  | 50.45  | 44.62  | 38.84  | 35.20  | 32.59  | 30.97  | 29.96  | 27.84 |
| 1.00   | 27.45  | 27.92  | 29.24  | 31.65  | 34.12  | 35.65  | 37.13  | 38.81  | 40.23  | 41.73  | 43.46  | 45.73  | 40.76  | 35.86  | 32.90  | 30.86  | 29.58  | 28.80  | 26.77 |
| 2.00   | 6.51   | 6.44   | 8.56   | 12.89  | 16.99  | 20.07  | 21.91  | 23.47  | 23.51  | 21.36  | 7.00   | 22.19  | 24.74  | 24.92  | 24.96  | 24.97  | 24.97  | 24.95  | 23.24 |
| 3.00   | 9.22   | 9.08   | 10.38  | 13.15  | 15.68  | 17.97  | 19.51  | 20.31  | 19.15  | 15.45  | 11.43  | 17.34  | 18.36  | 8.28   | 5.01   | 11.90  | 14.93  | 16.23  | 15.13 |
| 4.00   | -3.38  | -0.03  | 1.30   | 1.96   | 3.71   | 7.28   | 9.16   | 9.03   | 2.86   | 4.72   | 10.36  | 10.47  | 1.08   | 1.71   | -1.21  | -1.14  | 1.80   | 5.23   | 3.47  |
| 5.00   | 6.95   | 6.49   | 5.00   | 2.11   | -4.53  | 2.24   | 4.40   | 2.82   | -13.03 | -8.94  | -12.56 | -8.12  | 3.86   | -6.29  | -6.11  | -16.96 | 7.26   | 14.05  | 13.68 |
| 6.00   | 6.95   | 7.59   | 7.46   | 5.86   | 1.29   | -2.51  | 0.08   | -3.17  | -6.13  | 0.05   | -2.53  | 1.17   | -1.08  | 3.65   | -12.18 | -3.86  | -0.39  | 12.08  | 12.76 |
| 7.00   | 6.00   | 6.25   | 4.95   | 4.33   | 1.86   | 1.09   | -6.16  | -4.56  | -10.39 | -10.31 | -0.76  | 2.72   | -1.99  | -5.64  | -3.68  | -12.18 | -17.26 | 2.11   | 3.99  |
| 8.00   | -2.22  | -3.09  | -5.96  | -5.73  | -2.42  | -4.66  | -8.42  | -3.70  | 0.07   | -1.87  | -5.39  | -11.59 | -16.21 | -22.15 | -18.58 | -23.14 | -17.11 | -1.88  | 2.88  |
| 9.00   | 8.82   | 8.47   | 7.56   | 5.53   | 1.46   | -3.53  | -3.94  | -8.43  | 2.14   | -3.57  | -6.85  | -10.29 | -17.05 | -18.21 | -23.73 | -13.00 | -7.03  | 2.52   | 9.16  |
| 10.00  | 6.91   | 6.18   | 3.96   | -3.77  | -15.50 | -8.99  | -3.90  | -15.93 | -18.73 | -6.02  | -7.30  | -8.17  | -10.67 | -16.02 | -16.21 | -10.00 | -8.78  | -2.42  | 7.10  |
| 20.00  | -7.82  | -10.07 | -19.46 | -15.39 | -26.91 | -14.92 | -16.56 | -19.93 | -12.64 | -10.54 | -35.53 | -7.10  | -20.00 | -34.97 | -23.33 | -29.87 | -31.72 | -24.36 | -0.80 |
| 30.00  | -5.53  | -7.06  | -23.01 | -22.64 | -15.95 | -12.69 | -14.54 | -11.29 | -11.59 | -10.77 | -9.20  | -6.75  | -20.19 | -21.85 | -24.14 | -21.04 | -30.54 | -23.49 | -3.70 |
| 40.00  | -7.42  | -13.61 | -38.71 | -19.93 | -30.03 | -40.58 | -15.12 | -13.94 | -15.83 | -14.78 | -22.18 | -10.49 | -18.60 | -19.05 | -27.56 | -33.96 | -26.71 | -27.98 | -7.63 |
| 50.00  | -18.58 | -21.39 | -19.02 | -18.10 | -17.92 | -11.95 | -11.01 | -18.68 | -18.60 | -16.13 | -31.20 | -20.01 | -17.79 | -34.82 | -33.16 | -45.39 | -38.37 | -34.95 | -5.64 |
| 60.00  | -12.92 | -16.78 | -20.53 | -23.16 | -23.61 | -27.10 | -18.73 | -23.32 | -18.66 | -14.00 | -20.64 | -20.53 | -25.50 | -27.74 | -37.63 | -34.55 | -55.41 | -31.52 | -8.59 |
| 70.00  | -18.84 | -22.18 | -17.45 | -19.27 | -22.00 | -28.29 | -40.58 | -24.81 | -28.64 | -21.49 | -22.49 | -22.90 | -28.76 | -37.97 | -37.37 | -42.78 | -40.26 | -38.49 | -8.41 |
| 80.00  | -11.82 | -22.12 | -19.83 | -21.85 | -23.23 | -26.12 | -33.76 | -26.28 | -27.51 | -32.36 | -22.38 | -25.21 | -23.60 | -41.19 | -35.91 | -32.91 | -39.62 | -40.79 | -7.84 |
| 90.00  | -6.18  | -23.79 | -22.17 | -22.70 | -24.98 | -28.80 | -29.49 | -23.23 | -31.00 | -27.61 | -23.78 | -22.77 | -33.37 | -34.05 | -39.39 | -36.87 | -37.99 | -44.32 | -9.73 |

## **RHCP, Co-Pol, Elevation**

|        | 0     | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -5.54 | -34.51 | -40.21 | -14.24 | -25.56 | -25.82 | -23.04 | -24.74 | -17.14 | -21.53 | -24.35 | -19.13 | -23.99 | -25.83 | -14.40 | -21.59 | -22.92 | -22.60 | -6.21  |
| -80.00 | -3.66 | -31.45 | -30.13 | -12.74 | -23.52 | -27.59 | -16.17 | -23.42 | -17.98 | -29.76 | -28.54 | -17.53 | -24.47 | -31.33 | -13.29 | -23.55 | -23.95 | -25.21 | -4.13  |
| -70.00 | -3.26 | -27.77 | -34.10 | -30.12 | -12.85 | -20.99 | -27.75 | -11.02 | -19.56 | -14.16 | -24.52 | -26.26 | -17.28 | -19.76 | -17.94 | -16.94 | -14.78 | -12.24 | -8.02  |
| -60.00 | -5.23 | -32.92 | -20.31 | -9.22  | -17.71 | -25.77 | -18.69 | -14.90 | -23.86 | -19.22 | -29.11 | -18.01 | -13.30 | -16.73 | -20.75 | -17.06 | -16.41 | -19.79 | -8.06  |
| -50.00 | -2.31 | -28.08 | -28.17 | -20.68 | -9.66  | -14.93 | -30.89 | -10.73 | -15.52 | -7.91  | -21.42 | -23.35 | -12.39 | -19.36 | -13.49 | -25.30 | -27.37 | -18.22 | -6.77  |
| -40.00 | -5.18 | -32.03 | -25.70 | -13.03 | -8.53  | -18.21 | -10.26 | -10.55 | -8.78  | -20.28 | -32.65 | -18.84 | -15.13 | -30.74 | -19.06 | -10.26 | -13.93 | -7.23  | -0.24  |
| -30.00 | 0.66  | -19.93 | -18.17 | -14.54 | -7.82  | -5.18  | -8.97  | -24.64 | -8.32  | -36.00 | -9.16  | -19.77 | -14.81 | -11.19 | -8.96  | -10.71 | -22.98 | -4.86  | -10.89 |
| -20.00 | 1.29  | -15.25 | -16.67 | -10.81 | -8.82  | -11.99 | -7.18  | -3.57  | -9.21  | -16.01 | -4.55  | -7.93  | -8.79  | -13.41 | -8.39  | -4.94  | -9.46  | -8.13  | -2.76  |
| -10.00 | 10.04 | 1.57   | -0.63  | -0.17  | 3.11   | 0.53   | 4.97   | 0.98   | -6.20  | -11.21 | -12.78 | -3.64  | 0.35   | -2.41  | -14.44 | -3.48  | 0.90   | 3.46   | 4.97   |
| -9.00  | 12.18 | 5.82   | 2.58   | 1.62   | -2.08  | -5.36  | -0.88  | -13.38 | -1.37  | 2.08   | -4.75  | -8.45  | -7.23  | -4.02  | -4.32  | -1.28  | 6.18   | 8.65   | 9.62   |
| -8.00  | 6.62  | 1.64   | -3.99  | -4.60  | -6.81  | -9.29  | -5.18  | -0.63  | 10.42  | -3.57  | 2.51   | -8.34  | -28.84 | -9.78  | -11.62 | -0.58  | 4.06   | 6.06   | 5.83   |
| -7.00  | 5.75  | 4.61   | -4.55  | 5.21   | 5.98   | 1.06   | 2.10   | -2.68  | 6.61   | 11.73  | 5.43   | -20.36 | -7.26  | -4.15  | -4.13  | 6.35   | 9.37   | 10.24  | 10.56  |
| -6.00  | 15.44 | 14.64  | 10.73  | 15.96  | 7.80   | 7.51   | 4.39   | 10.07  | 3.95   | 5.26   | 7.50   | 6.69   | 8.06   | 5.22   | 1.89   | 3.50   | 6.24   | 7.84   | 8.06   |
| -5.00  | 16.41 | 16.59  | 17.80  | 10.85  | 13.24  | -0.07  | 2.04   | -10.10 | 2.08   | 2.36   | 2.85   | 4.40   | 2.25   | -2.99  | 10.27  | 15.27  | 16.87  | 17.09  | 17.17  |
| -4.00  | 4.83  | 6.75   | 11.63  | 5.09   | 8.30   | 8.07   | 8.61   | 13.87  | 12.08  | 4.47   | 2.69   | 7.21   | 8.26   | 3.99   | 5.03   | 7.60   | 8.57   | 8.30   | 7.13   |
| -3.00  | 18.26 | 19.60  | 25.71  | 31.44  | 22.73  | 16.32  | 23.80  | 22.41  | 21.08  | 19.00  | 18.49  | 17.69  | 16.22  | 15.23  | 14.23  | 13.63  | 11.83  | 10.57  | 8.79   |
| -2.00  | 26.23 | 28.14  | 35.70  | 43.21  | 41.33  | 36.57  | 32.26  | 25.56  | 14.47  | 25.58  | 26.44  | 25.81  | 24.73  | 24.08  | 22.98  | 22.17  | 20.06  | 18.21  | 17.16  |
| -1.00  | 29.76 | 31.96  | 40.30  | 49.09  | 49.18  | 47.38  | 48.00  | 48.29  | 47.61  | 45.11  | 42.05  | 39.64  | 37.78  | 36.32  | 35.02  | 34.19  | 32.33  | 30.99  | 30.42  |
| 0.00   | 30.84 | 33.13  | 41.71  | 50.95  | 51.56  | 50.43  | 51.91  | 53.19  | 53.57  | 52.23  | 50.40  | 49.23  | 48.62  | 48.35  | 48.29  | 48.34  | 47.21  | 46.19  | 45.72  |
| 1.00   | 29.77 | 31.97  | 40.32  | 49.22  | 49.25  | 47.46  | 48.05  | 48.47  | 47.80  | 45.27  | 42.18  | 39.64  | 37.71  | 36.42  | 35.14  | 34.34  | 32.24  | 30.92  | 30.45  |
| 2.00   | 26.24 | 28.12  | 35.72  | 43.33  | 41.32  | 36.51  | 32.02  | 24.92  | 11.34  | 24.90  | 25.46  | 24.30  | 22.49  | 20.84  | 18.00  | 15.58  | 11.56  | 9.44   | 9.51   |
| 3.00   | 18.13 | 19.39  | 25.67  | 30.25  | 21.36  | 19.87  | 25.64  | 20.08  | 15.76  | 18.99  | 21.10  | 21.15  | 20.09  | 18.73  | 16.69  | 15.84  | 13.38  | 12.07  | 12.22  |
| 4.00   | 6.47  | 8.39   | 12.54  | 17.22  | 15.15  | 13.30  | 8.37   | 13.20  | 14.70  | 8.26   | 4.82   | 9.86   | 9.73   | 8.05   | 4.73   | 4.65   | 4.30   | 2.97   | -0.38  |
| 5.00   | 16.68 | 17.21  | 18.01  | 1.40   | 10.24  | 5.30   | 11.15  | -5.39  | -8.23  | -5.40  | -11.07 | 3.66   | 4.97   | 3.00   | -3.51  | 4.80   | 8.00   | 9.49   | 9.95   |
| 6.00   | 15.76 | 15.24  | 10.35  | 14.50  | 4.17   | 15.25  | 6.21   | 3.91   | 1.81   | 3.58   | -4.18  | -2.34  | 0.65   | -1.75  | 2.30   | 8.55   | 10.46  | 10.59  | 9.94   |
| 7.00   | 6.99  | 5.28   | -6.52  | 6.18   | 12.67  | 5.95   | 5.30   | 5.46   | 3.58   | -6.78  | -8.44  | -3.72  | -5.58  | 1.85   | 2.87   | 7.02   | 7.95   | 9.25   | 9.00   |
| 8.00   | 5.88  | 1.28   | -6.37  | -4.79  | -2.23  | -10.56 | -8.92  | -8.86  | -1.06  | 1.67   | 2.03   | -2.87  | -7.85  | -3.90  | -1.40  | -3.04  | -2.96  | -0.09  | 0.78   |
| 9.00   | 12.16 | 5.68   | 3.71   | 5.35   | -7.37  | -6.62  | -9.77  | -7.55  | -2.52  | -0.03  | 4.09   | -7.60  | -3.37  | -2.77  | 2.47   | 8.22   | 10.56  | 11.47  | 11.82  |
| 10.00  | 10.10 | 0.74   | 1.96   | 8.36   | 0.14   | -4.43  | -3.39  | -5.43  | -2.97  | -2.49  | -16.77 | -15.09 | -3.32  | -8.23  | -14.49 | -1.08  | 6.96   | 9.18   | 9.90   |
| 20.00  | 2.20  | -21.20 | -20.97 | -11.51 | -6.97  | -23.38 | -12.72 | -4.37  | -31.19 | -7.00  | -10.69 | -19.09 | -15.99 | -14.15 | -25.90 | -12.70 | -16.46 | -7.07  | -4.83  |
| 30.00  | -0.70 | -20.33 | -19.80 | -2.68  | -7.79  | -10.26 | -12.90 | -4.01  | -4.87  | -7.23  | -9.63  | -10.45 | -13.97 | -11.92 | -14.93 | -19.96 | -20.01 | -4.06  | -2.54  |
| 40.00  | -4.63 | -24.82 | -15.97 | -15.60 | -11.20 | -7.46  | -11.32 | -7.76  | -17.84 | -11.24 | -13.88 | -13.10 | -14.55 | -39.82 | -29.02 | -17.24 | -35.71 | -10.61 | -4.43  |
| 50.00  | -2.64 | -31.79 | -27.63 | -27.03 | -16.81 | -23.23 | -10.51 | -17.27 | -26.86 | -12.59 | -16.65 | -17.84 | -10.44 | -11.18 | -16.91 | -15.41 | -16.02 | -18.39 | -15.58 |
| 60.00  | -5.59 | -28.35 | -44.67 | -16.19 | -21.27 | -16.15 | -18.21 | -17.79 | -16.31 | -10.46 | -16.70 | -22.49 | -18.15 | -26.34 | -22.60 | -20.47 | -17.53 | -13.78 | -9.92  |
| 70.00  | -5.41 | -35.33 | -29.52 | -24.43 | -21.02 | -26.38 | -21.47 | -20.17 | -18.16 | -17.96 | -26.69 | -23.97 | -40.01 | -27.53 | -20.99 | -16.59 | -14.45 | -19.19 | -15.84 |
| 80.00  | -4.84 | -37.63 | -28.88 | -14.55 | -19.56 | -29.60 | -16.32 | -22.48 | -18.04 | -28.82 | -25.56 | -25.45 | -33.18 | -25.35 | -22.21 | -19.16 | -16.83 | -19.12 | -8.82  |
| 90.00  | -6.73 | -41.15 | -27.25 | -18.51 | -23.04 | -22.46 | -26.08 | -20.04 | -19.44 | -24.07 | -29.04 | -22.40 | -28.92 | -28.03 | -23.96 | -20.01 | -19.17 | -20.79 | -3.18  |

## RHCP, Cross-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -19.34 | -38.16 | -38.10 | -35.89 | -24.33 | -30.66 | -33.09 | -31.60 | -34.16 | -32.35 | -29.74 | -30.88 | -38.72 | -42.75 | -44.39 | -45.33 | -55.98 | -45.71 | -16.86 |
| -80.00 | -16.55 | -35.31 | -32.07 | -33.14 | -21.94 | -32.37 | -34.77 | -29.35 | -39.07 | -42.98 | -28.17 | -32.82 | -36.02 | -40.58 | -44.28 | -45.89 | -49.95 | -45.49 | -15.23 |
| -70.00 | -15.12 | -28.97 | -32.08 | -32.71 | -29.18 | -27.08 | -25.75 | -28.51 | -38.40 | -31.38 | -34.10 | -18.83 | -29.08 | -36.81 | -38.70 | -38.13 | -44.96 | -40.93 | -14.89 |
| -60.00 | -15.38 | -30.44 | -35.74 | -27.03 | -31.16 | -26.09 | -25.30 | -34.87 | -41.78 | -31.80 | -35.16 | -22.00 | -28.49 | -39.42 | -41.06 | -39.05 | -42.42 | -38.85 | -15.80 |
| -50.00 | -22.76 | -30.67 | -35.74 | -31.77 | -33.07 | -22.39 | -19.93 | -25.52 | -32.01 | -19.04 | -29.77 | -20.58 | -25.88 | -33.80 | -32.19 | -37.18 | -45.24 | -41.59 | -19.93 |
| -40.00 | -11.84 | -21.61 | -31.13 | -25.74 | -24.28 | -26.64 | -27.27 | -28.37 | -27.00 | -23.67 | -26.04 | -24.25 | -25.23 | -29.68 | -38.52 | -36.65 | -43.21 | -40.44 | -24.60 |
| -30.00 | -12.94 | -17.58 | -22.33 | -23.55 | -19.84 | -26.98 | -22.91 | -24.58 | -23.02 | -21.68 | -22.67 | -35.18 | -23.91 | -32.70 | -41.51 | -34.65 | -41.05 | -38.66 | -32.07 |
| -20.00 | -11.66 | -14.95 | -25.82 | -19.46 | -23.45 | -21.83 | -18.43 | -22.52 | -16.47 | -25.32 | -24.76 | -18.27 | -28.21 | -27.84 | -34.09 | -34.18 | -33.66 | -30.20 | -15.18 |
| -10.00 | -15.11 | -14.29 | -15.48 | -19.01 | -21.41 | -24.25 | -13.36 | -14.74 | -24.02 | -16.14 | -19.77 | -16.37 | -21.26 | -26.33 | -25.49 | -27.25 | -35.72 | -14.84 | -12.85 |
| -9.00  | -11.43 | -11.89 | -12.26 | -15.99 | -23.71 | -19.05 | -16.83 | -25.15 | -10.36 | -8.40  | -14.08 | -15.95 | -25.98 | -23.38 | -25.55 | -26.84 | -31.99 | -21.57 | -26.64 |
| -8.00  | -8.55  | -8.34  | -8.51  | -9.07  | -9.60  | -10.93 | -13.17 | -6.96  | -6.89  | -13.91 | -14.74 | -16.55 | -33.39 | -21.07 | -28.66 | -36.07 | -27.81 | -15.74 | -14.21 |
| -7.00  | -5.30  | -4.72  | -4.56  | -5.01  | -7.04  | -9.88  | -7.88  | -8.47  | -12.58 | -15.84 | -10.13 | -9.13  | -13.74 | -17.44 | -26.06 | -24.76 | -25.84 | -11.14 | -9.81  |
| -6.00  | -5.96  | -5.85  | -4.99  | -2.89  | -0.99  | -2.08  | -5.07  | -12.91 | -14.84 | -9.04  | -7.71  | -7.00  | -10.65 | -18.15 | -18.07 | -25.61 | -17.75 | -10.73 | -11.67 |
| -5.00  | -3.63  | -3.44  | -2.44  | -1.34  | -1.54  | -7.18  | -13.04 | -9.76  | -9.21  | -8.32  | -9.08  | -13.97 | -21.57 | -16.67 | -19.25 | -24.07 | -19.67 | -17.70 | -18.92 |
| -4.00  | -8.96  | -8.03  | -7.36  | -6.96  | -6.09  | -6.65  | -5.08  | -3.19  | -1.48  | -1.64  | -3.25  | -6.46  | -14.88 | -12.73 | -13.88 | -16.89 | -13.75 | -12.04 | -13.88 |
| -3.00  | 0.08   | 1.00   | 2.65   | 4.46   | 6.34   | 6.26   | 6.26   | 4.76   | 1.21   | -2.35  | -5.76  | -4.00  | -4.60  | -5.91  | -5.81  | -9.72  | -11.54 | -12.71 | -13.00 |
| -2.00  | -4.54  | -5.21  | -4.97  | -4.47  | -3.53  | -4.08  | -4.51  | -4.78  | -0.97  | 1.87   | 4.40   | 10.23  | 4.28   | -2.05  | -5.03  | -7.59  | -9.31  | -10.52 | -12.13 |
| -1.00  | -1.49  | -0.37  | 4.51   | 5.85   | 6.26   | 1.05   | 2.01   | 3.84   | 1.93   | 2.17   | 4.02   | 6.60   | 2.61   | -1.74  | -4.91  | -7.89  | -10.53 | -11.30 | -13.22 |
| 0.00   | -0.53  | 0.42   | 1.31   | 2.66   | 4.41   | 4.47   | 4.94   | 5.27   | 5.59   | 5.97   | 6.03   | 7.62   | 1.55   | -3.97  | -7.67  | -10.24 | -12.23 | -12.76 | -14.92 |
| 1.00   | 9.29   | 8.62   | 9.56   | 8.90   | 10.75  | 11.19  | 11.10  | 10.39  | 9.53   | 8.44   | 7.11   | 6.74   | -0.73  | -6.92  | -10.93 | -13.02 | -13.61 | -13.16 | -14.98 |
| 2.00   | -11.15 | -11.73 | -6.26  | -3.04  | 0.75   | 4.79   | 7.85   | 8.32   | 8.54   | 9.62   | 9.92   | 9.11   | 1.36   | -8.52  | -15.93 | -15.51 | -13.88 | -12.73 | -14.97 |
| 3.00   | 1.45   | 2.49   | 4.59   | 6.84   | 9.19   | 9.81   | 9.41   | 7.57   | 4.71   | -0.47  | 0.00   | 3.85   | 1.15   | -2.77  | -17.06 | -22.92 | -17.01 | -14.02 | -16.68 |
| 4.00   | -6.41  | -5.32  | -3.46  | -2.01  | -1.08  | -2.62  | -3.92  | -2.43  | 1.07   | 3.37   | 1.30   | -5.02  | -21.05 | -10.40 | -14.55 | -18.32 | -14.22 | -12.77 | -15.33 |
| 5.00   | -4.37  | -4.17  | -4.04  | -4.27  | -6.75  | -12.49 | -13.23 | -9.52  | -8.90  | -9.48  | -8.12  | -8.58  | -12.91 | -20.31 | -25.42 | -20.22 | -13.70 | -15.65 | -19.95 |
| 6.00   | -7.09  | -6.38  | -4.58  | -3.09  | -2.79  | -4.30  | -8.47  | -15.15 | -17.47 | -15.59 | -17.84 | -10.45 | -11.65 | -16.67 | -18.60 | -24.16 | -16.22 | -11.23 | -11.04 |
| 7.00   | -5.46  | -4.93  | -3.58  | -3.51  | -4.18  | -8.96  | -15.08 | -18.67 | -14.69 | -20.60 | -11.41 | -15.54 | -19.00 | -18.48 | -27.85 | -26.76 | -29.35 | -11.48 | -8.44  |
| 8.00   | -21.35 | -19.92 | -20.06 | -17.81 | -17.73 | -12.84 | -17.25 | -12.71 | -17.68 | -10.08 | -17.60 | -9.26  | -17.21 | -26.66 | -26.93 | -33.15 | -24.10 | -19.44 | -11.17 |
| 9.00   | -9.48  | -9.29  | -10.20 | -10.25 | -8.10  | -12.12 | -10.81 | -12.62 | -11.46 | -15.37 | -21.03 | -16.18 | -18.92 | -24.35 | -23.96 | -27.65 | -23.96 | -28.21 | -27.74 |
| 10.00  | -13.33 | -13.51 | -11.97 | -11.60 | -15.10 | -22.40 | -24.54 | -22.90 | -13.90 | -22.14 | -18.86 | -19.50 | -24.81 | -32.49 | -27.32 | -28.13 | -23.49 | -21.31 | -14.64 |
| 20.00  | -7.34  | -10.06 | -20.43 | -29.12 | -25.11 | -18.25 | -18.53 | -19.42 | -13.87 | -24.36 | -20.50 | -23.02 | -21.49 | -35.84 | -31.89 | -32.51 | -32.23 | -31.27 | -14.74 |
| 30.00  | -15.01 | -19.20 | -19.82 | -20.72 | -20.66 | -19.65 | -16.62 | -16.88 | -17.39 | -18.12 | -15.15 | -17.36 | -22.80 | -26.71 | -33.81 | -28.30 | -40.43 | -38.01 | -23.33 |
| 40.00  | -14.20 | -26.35 | -27.39 | -25.31 | -30.41 | -25.89 | -23.36 | -22.06 | -23.10 | -19.31 | -25.77 | -21.21 | -25.66 | -27.28 | -32.28 | -37.86 | -42.57 | -39.79 | -24.10 |
| 50.00  | -20.68 | -29.87 | -29.40 | -22.75 | -29.97 | -25.20 | -30.47 | -29.23 | -31.13 | -21.41 | -26.94 | -25.55 | -26.99 | -37.36 | -33.30 | -45.68 | -37.07 | -48.29 | -19.26 |
| 60.00  | -18.62 | -30.31 | -31.62 | -28.82 | -31.69 | -24.43 | -28.06 | -28.08 | -27.49 | -36.79 | -26.99 | -29.00 | -23.41 | -36.03 | -40.45 | -41.45 | -45.15 | -44.09 | -14.61 |
| 70.00  | -25.61 | -25.50 | -24.49 | -24.51 | -28.85 | -23.03 | -31.10 | -33.57 | -40.10 | -37.70 | -35.51 | -19.27 | -36.47 | -33.02 | -44.56 | -51.12 | -47.91 | -43.09 | -12.52 |
| 80.00  | -16.98 | -29.59 | -27.89 | -28.64 | -27.12 | -33.57 | -37.65 | -24.51 | -38.87 | -36.80 | -33.20 | -30.06 | -35.64 | -39.71 | -39.15 | -41.58 | -49.07 | -58.39 | -13.62 |
| 90.00  | -19.18 | -29.35 | -32.15 | -29.76 | -29.15 | -34.64 | -36.27 | -25.42 | -36.21 | -36.89 | -33.12 | -29.76 | -41.20 | -40.14 | -39.80 | -41.53 | -46.90 | -53.71 | -15.35 |



## RHCP, Cross-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -13.86 | -42.54 | -45.24 | -26.97 | -28.03 | -31.16 | -31.43 | -28.14 | -25.40 | -28.81 | -32.21 | -30.76 | -32.51 | -29.90 | -23.31 | -33.20 | -35.10 | -35.16 | -16.34 |
| -80.00 | -12.23 | -42.32 | -39.20 | -27.54 | -27.92 | -28.98 | -28.73 | -30.08 | -23.84 | -39.44 | -37.11 | -28.51 | -34.20 | -31.61 | -20.93 | -30.45 | -29.07 | -32.31 | -13.55 |
| -70.00 | -11.89 | -37.76 | -34.21 | -19.77 | -22.34 | -25.22 | -21.79 | -16.09 | -29.76 | -27.84 | -36.45 | -27.68 | -25.18 | -26.31 | -28.16 | -30.02 | -29.08 | -25.97 | -12.13 |
| -60.00 | -12.80 | -35.68 | -31.68 | -20.70 | -24.71 | -27.83 | -21.20 | -19.26 | -30.82 | -28.26 | -39.83 | -34.03 | -24.73 | -25.32 | -30.15 | -24.34 | -32.74 | -27.44 | -12.38 |
| -50.00 | -16.93 | -38.42 | -34.50 | -18.82 | -15.83 | -22.21 | -18.60 | -17.85 | -25.43 | -15.50 | -30.05 | -24.68 | -19.36 | -21.63 | -32.06 | -29.08 | -32.74 | -27.67 | -19.76 |
| -40.00 | -21.60 | -37.28 | -32.47 | -18.30 | -22.17 | -18.09 | -17.95 | -21.51 | -21.71 | -20.13 | -25.05 | -27.53 | -26.69 | -25.87 | -23.27 | -23.05 | -28.13 | -18.61 | -8.84  |
| -30.00 | -29.07 | -35.50 | -30.31 | -16.30 | -25.16 | -21.11 | -16.62 | -32.45 | -18.33 | -18.14 | -21.07 | -23.74 | -22.34 | -26.21 | -18.83 | -20.86 | -19.33 | -14.58 | -9.95  |
| -20.00 | -12.18 | -27.03 | -22.92 | -15.82 | -17.73 | -16.25 | -20.92 | -15.53 | -20.43 | -21.78 | -14.51 | -21.69 | -17.86 | -21.07 | -22.43 | -16.77 | -22.82 | -11.95 | -8.66  |
| -10.00 | -9.85  | -11.68 | -24.98 | -8.89  | -9.13  | -14.74 | -13.98 | -13.64 | -15.44 | -12.60 | -22.07 | -13.90 | -12.79 | -23.48 | -20.40 | -16.32 | -12.48 | -11.29 | -12.11 |
| -9.00  | -23.64 | -18.41 | -21.25 | -8.48  | -9.19  | -11.79 | -18.70 | -13.22 | -9.75  | -4.86  | -8.41  | -24.32 | -16.25 | -18.29 | -22.70 | -13.30 | -9.26  | -8.89  | -8.43  |
| -8.00  | -11.21 | -12.58 | -17.07 | -17.72 | -12.31 | -9.48  | -26.10 | -13.81 | -10.41 | -10.37 | -4.94  | -6.12  | -12.59 | -10.17 | -8.59  | -6.38  | -5.51  | -5.34  | -5.56  |
| -7.00  | -6.81  | -7.98  | -15.10 | -6.40  | -9.70  | -5.85  | -6.45  | -6.39  | -5.79  | -12.30 | -10.63 | -7.63  | -7.31  | -9.11  | -6.02  | -2.32  | -1.56  | -1.72  | -2.30  |
| -6.00  | -8.67  | -7.56  | -7.01  | -7.25  | -1.72  | -6.56  | -3.37  | -4.27  | -3.37  | -5.51  | -12.89 | -12.07 | -4.50  | -1.32  | 0.02   | -0.21  | -1.99  | -2.85  | -2.96  |
| -5.00  | -15.92 | -14.54 | -8.93  | -5.72  | -2.90  | -5.08  | -14.29 | -11.24 | -4.74  | -4.78  | -7.26  | -8.93  | -12.46 | -6.41  | -0.53  | 1.34   | 0.56   | -0.44  | -0.64  |
| -4.00  | -10.88 | -8.88  | -3.01  | 1.47   | 2.47   | -1.13  | -7.60  | -3.72  | 1.09   | 1.90   | 0.48   | -2.35  | -4.50  | -5.89  | -5.07  | -4.27  | -4.36  | -5.03  | -5.97  |
| -3.00  | -10.00 | -9.55  | -0.80  | 8.64   | 10.55  | 5.69   | 2.69   | -1.27  | -1.42  | 1.19   | 3.16   | 5.60   | 6.84   | 7.03   | 7.35   | 7.14   | 5.65   | 4.00   | 3.08   |
| -2.00  | -9.13  | -7.35  | 1.43   | 10.77  | 11.33  | 9.54   | 11.57  | 12.97  | 8.74   | 5.41   | 0.99   | -3.94  | -3.93  | -3.32  | -2.52  | -1.78  | -1.97  | -2.21  | -1.54  |
| -1.00  | -10.22 | -8.13  | 0.22   | 10.46  | 11.44  | 9.85   | 9.90   | 9.33   | 8.36   | 5.71   | 3.88   | 4.68   | 2.58   | 1.82   | 7.27   | 8.54   | 7.51   | 2.62   | 1.50   |
| 0.00   | -11.92 | -9.60  | -1.49  | 8.12   | 8.69   | 7.63   | 8.84   | 10.36  | 10.36  | 9.51   | 7.54   | 6.11   | 5.51   | 5.23   | 5.42   | 5.35   | 4.31   | 3.42   | 2.46   |
| 1.00   | -11.98 | -10.00 | -2.87  | 5.33   | 5.42   | 4.68   | 6.55   | 9.47   | 11.44  | 11.97  | 11.48  | 11.23  | 11.67  | 11.96  | 11.77  | 11.59  | 12.56  | 11.62  | 12.29  |
| 2.00   | -11.97 | -9.57  | -3.14  | 2.85   | 0.43   | 3.07   | 8.64   | 11.84  | 14.26  | 13.16  | 10.49  | 9.16   | 8.42   | 5.55   | 1.76   | -0.36  | -3.26  | -8.73  | -8.15  |
| 3.00   | -13.68 | -10.86 | -6.27  | -4.56  | -0.70  | 8.82   | 8.43   | 6.59   | 4.33   | 3.07   | 6.66   | 8.41   | 9.99   | 10.57  | 10.20  | 9.53   | 7.59   | 5.49   | 4.45   |
| 4.00   | -12.33 | -9.61  | -3.48  | 0.03   | 1.80   | 1.19   | -13.76 | -2.28  | 5.63   | 6.90   | 3.02   | -1.59  | -3.35  | -1.86  | -0.06  | 0.68   | -0.46  | -2.32  | -3.41  |
| 5.00   | -16.95 | -12.48 | -2.95  | -1.86  | -9.07  | -8.71  | -5.62  | -5.85  | -3.79  | -5.94  | -6.95  | -8.68  | -12.65 | -11.73 | -5.74  | -1.58  | -1.04  | -1.18  | -1.37  |
| 6.00   | -8.04  | -8.07  | -5.48  | -5.80  | -2.25  | -5.07  | -4.37  | -7.71  | -13.51 | -12.05 | -15.51 | -14.31 | -7.90  | -3.54  | -1.78  | -0.40  | -1.58  | -3.38  | -4.10  |
| 7.00   | -5.44  | -8.31  | -18.61 | -8.41  | -11.50 | -6.89  | -11.71 | -12.81 | -7.07  | -17.06 | -12.73 | -17.83 | -14.50 | -8.19  | -3.17  | -0.82  | -0.58  | -1.93  | -2.46  |
| 8.00   | -8.17  | -16.28 | -13.36 | -14.79 | -10.58 | -15.07 | -9.92  | -6.52  | -13.27 | -6.54  | -15.73 | -11.88 | -16.68 | -12.08 | -16.72 | -15.13 | -17.06 | -16.93 | -18.35 |
| 9.00   | -24.74 | -25.05 | -13.22 | -9.30  | -7.61  | -12.76 | -11.64 | -13.44 | -16.69 | -11.83 | -9.50  | -11.78 | -10.23 | -11.36 | -7.09  | -7.56  | -7.20  | -6.30  | -6.49  |
| 10.00  | -11.64 | -18.15 | -12.75 | -9.78  | -10.96 | -20.90 | -17.52 | -16.77 | -14.52 | -18.60 | -11.95 | -22.07 | -23.97 | -21.63 | -14.09 | -8.91  | -8.97  | -10.51 | -10.33 |
| 20.00  | -11.74 | -28.11 | -21.49 | -14.15 | -15.53 | -24.25 | -14.21 | -20.28 | -16.16 | -20.82 | -11.92 | -18.58 | -17.96 | -17.49 | -24.10 | -26.43 | -17.43 | -7.06  | -4.34  |
| 30.00  | -20.33 | -34.85 | -29.69 | -9.94  | -17.46 | -15.12 | -15.52 | -14.63 | -10.82 | -14.58 | -15.43 | -16.04 | -16.05 | -18.89 | -19.65 | -18.03 | -16.82 | -16.20 | -12.01 |
| 40.00  | -21.10 | -36.63 | -31.83 | -19.50 | -15.92 | -15.69 | -18.38 | -18.47 | -21.44 | -15.77 | -21.15 | -21.23 | -22.79 | -25.13 | -29.40 | -22.62 | -24.39 | -23.35 | -11.21 |
| 50.00  | -16.26 | -45.13 | -26.33 | -27.32 | -16.95 | -25.77 | -19.71 | -22.82 | -22.61 | -17.87 | -29.18 | -28.39 | -29.90 | -24.43 | -28.95 | -20.07 | -26.40 | -26.87 | -17.68 |
| 60.00  | -11.61 | -40.93 | -34.40 | -23.10 | -24.09 | -24.44 | -16.13 | -26.27 | -22.66 | -33.26 | -25.53 | -27.25 | -27.48 | -23.67 | -30.67 | -26.13 | -28.62 | -27.31 | -15.62 |
| 70.00  | -9.52  | -39.93 | -37.17 | -32.76 | -28.20 | -21.43 | -29.19 | -16.54 | -31.18 | -34.16 | -38.15 | -32.74 | -30.52 | -22.26 | -27.83 | -21.82 | -21.49 | -22.50 | -22.61 |
| 80.00  | -10.62 | -55.22 | -38.33 | -23.22 | -22.79 | -28.11 | -28.35 | -27.32 | -28.87 | -33.26 | -36.91 | -23.67 | -37.07 | -32.80 | -26.11 | -25.95 | -24.89 | -26.59 | -13.98 |
| 90.00  | -12.35 | -50.55 | -36.16 | -23.17 | -23.45 | -28.55 | -33.91 | -27.02 | -28.79 | -33.35 | -34.25 | -24.58 | -35.70 | -33.87 | -28.14 | -27.07 | -29.15 | -26.35 | -16.19 |

# **30 GHz Raw Data**

## **LHCP, Co-Pol, Azimuth**

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -3.23  | -13.19 | -23.83 | -30.31 | -33.44 | -27.75 | -30.42 | -31.06 | -33.87 | -21.51 | -26.08 | -19.48 | -35.98 | -37.13 | -47.45 | -27.69 | -37.07 | -41.68 | -23.12 |
| -80.00 | 0.01   | -18.54 | -18.39 | -22.79 | -17.39 | -34.03 | -23.99 | -31.72 | -38.16 | -27.20 | -35.48 | -19.97 | -27.94 | -28.51 | -35.81 | -26.55 | -34.66 | -29.64 | -14.74 |
| -70.00 | -3.53  | -16.04 | -10.05 | -18.79 | -18.87 | -22.66 | -22.04 | -24.16 | -23.53 | -12.40 | -22.46 | -30.39 | -38.08 | -24.13 | -27.54 | -33.54 | -42.53 | -31.01 | -3.88  |
| -60.00 | -3.60  | -13.64 | -19.23 | -11.93 | -19.05 | -14.31 | -18.53 | -36.78 | -12.50 | -24.17 | -23.99 | -28.85 | -36.88 | -36.92 | -42.23 | -31.08 | -36.05 | -42.00 | -6.27  |
| -50.00 | -11.69 | -15.81 | -17.06 | -14.20 | -15.65 | -18.41 | -11.29 | -36.43 | -19.68 | -16.16 | -23.28 | -15.77 | -19.93 | -34.49 | -24.05 | -30.85 | -27.85 | -32.37 | -13.71 |
| -40.00 | -4.88  | -21.72 | -21.11 | -20.75 | -9.95  | -17.80 | -14.40 | -6.83  | -21.67 | -38.50 | -16.57 | -22.59 | -19.26 | -14.79 | -27.64 | -45.55 | -25.55 | -29.46 | -41.39 |
| -30.00 | -7.22  | -12.99 | -10.91 | -21.36 | -13.53 | -17.58 | -11.73 | -22.00 | -8.72  | -18.50 | -17.96 | -27.02 | -17.90 | -24.50 | -25.42 | -23.35 | -31.11 | -34.91 | -7.02  |
| -20.00 | -2.34  | -7.10  | -11.16 | -12.09 | -9.59  | -7.01  | -20.21 | -14.93 | -19.01 | -16.14 | -19.16 | -13.46 | -17.42 | -20.01 | -21.31 | -29.20 | -24.96 | -19.60 | -0.88  |
| -10.00 | 3.27   | 1.62   | -1.68  | -4.15  | -15.07 | -10.19 | -7.58  | -7.97  | -7.46  | -11.92 | -11.48 | -7.72  | -8.23  | -14.39 | -19.21 | -10.30 | -11.71 | -1.79  | 7.51   |
| -9.00  | 8.39   | 7.95   | 6.27   | 2.52   | -7.74  | -22.21 | -12.22 | -4.63  | -6.21  | -4.57  | -5.95  | -13.25 | -14.53 | -53.61 | -20.48 | -12.27 | -7.70  | 2.94   | 9.60   |
| -8.00  | 3.71   | 3.16   | 0.19   | -6.96  | 0.92   | -0.62  | -17.36 | -9.45  | -2.99  | -13.63 | 0.84   | -5.59  | -16.46 | -24.86 | -29.54 | -31.03 | -14.35 | -0.98  | 4.26   |
| -7.00  | 10.70  | 9.95   | 7.37   | 0.69   | 0.01   | -18.18 | -15.08 | -4.63  | 2.61   | 3.19   | -6.16  | -1.00  | -2.22  | -8.95  | -9.74  | -11.72 | -20.00 | 1.04   | 2.34   |
| -6.00  | 9.72   | 9.87   | 9.57   | 8.07   | 0.24   | 5.30   | 4.12   | 4.09   | 2.19   | -9.73  | -8.57  | -2.33  | -2.69  | 0.68   | -10.05 | -2.99  | -0.62  | 11.58  | 12.47  |
| -5.00  | 13.77  | 12.54  | 11.27  | 9.38   | 9.90   | 10.49  | 8.21   | 6.13   | -2.48  | 1.59   | 3.45   | 6.02   | 1.69   | -5.22  | -2.83  | -13.88 | 6.53   | 13.62  | 13.59  |
| -4.00  | 10.65  | 10.45  | 8.65   | 4.62   | 9.27   | 9.53   | 8.30   | 10.97  | 7.08   | -1.36  | -6.54  | 2.53   | 4.94   | -1.78  | -9.71  | -12.27 | -0.39  | 4.20   | 3.50   |
| -3.00  | 2.98   | 6.48   | 8.37   | 9.37   | 13.81  | 17.30  | 17.56  | 12.03  | 9.78   | 10.33  | 16.30  | 19.81  | 17.17  | -0.69  | 6.70   | 12.88  | 15.15  | 16.39  | 15.01  |
| -2.00  | 18.04  | 19.27  | 20.32  | 21.85  | 22.51  | 24.55  | 24.97  | 24.97  | 24.39  | 21.80  | 13.55  | 23.43  | 24.97  | 24.97  | 24.97  | 24.92  | 24.90  | 24.97  | 23.15  |
| -1.00  | 30.98  | 31.33  | 31.96  | 33.04  | 34.54  | 36.59  | 37.18  | 38.13  | 39.45  | 40.83  | 42.54  | 44.84  | 40.43  | 35.62  | 32.63  | 30.65  | 29.41  | 28.76  | 26.68  |
| 0.00   | 46.07  | 46.24  | 46.46  | 46.81  | 47.44  | 48.35  | 47.77  | 47.41  | 47.55  | 47.73  | 48.29  | 49.53  | 44.24  | 38.59  | 34.93  | 32.40  | 30.80  | 29.89  | 27.74  |
| 1.00   | 30.89  | 31.28  | 31.76  | 32.91  | 34.47  | 36.64  | 37.23  | 38.16  | 39.55  | 40.87  | 42.58  | 44.86  | 40.45  | 35.61  | 32.66  | 30.68  | 29.47  | 28.77  | 26.68  |
| 2.00   | 15.70  | 17.25  | 19.26  | 21.46  | 22.13  | 24.94  | 23.68  | 23.92  | 23.67  | 21.31  | 11.06  | 22.79  | 24.89  | 24.92  | 24.97  | 24.97  | 24.97  | 24.97  | 23.13  |
| 3.00   | 13.59  | 14.02  | 13.97  | 13.96  | 13.00  | 15.80  | 18.11  | 17.76  | 15.02  | 0.67   | 11.36  | 18.56  | 16.65  | 3.09   | 6.11   | 12.40  | 14.95  | 16.28  | 14.83  |
| 4.00   | 2.84   | 4.64   | 8.67   | 10.74  | 13.52  | 16.24  | 16.70  | 13.93  | 6.58   | 1.90   | 4.45   | -9.10  | 3.21   | -2.79  | -4.15  | -3.84  | 2.28   | 5.00   | 4.60   |
| 5.00   | 12.46  | 11.84  | 10.46  | 7.73   | 6.01   | 2.49   | -0.64  | -5.36  | -1.79  | -4.26  | -6.42  | 5.03   | -4.04  | -11.15 | -4.78  | -15.22 | 7.98   | 14.09  | 13.80  |
| 6.00   | 5.23   | 4.46   | 1.09   | -4.92  | 6.45   | 9.88   | 6.87   | -6.90  | -17.42 | -11.53 | 4.28   | 3.27   | 0.68   | -4.25  | -16.92 | -4.37  | 0.87   | 12.07  | 12.72  |
| 7.00   | 9.53   | 9.09   | 7.37   | 3.02   | -30.09 | -2.82  | -6.27  | -11.01 | -0.99  | 1.77   | -13.11 | -6.71  | 2.51   | -10.25 | -11.76 | -10.47 | -18.88 | 1.77   | 3.67   |
| 8.00   | 6.61   | 6.49   | 4.51   | 0.66   | 0.68   | 1.35   | -7.28  | -3.57  | 0.19   | -10.89 | 2.09   | -5.50  | -9.77  | -15.76 | -22.41 | -17.92 | -19.56 | -0.85  | 3.55   |
| 9.00   | 10.19  | 9.92   | 8.11   | 4.11   | -1.86  | -4.92  | -10.22 | -6.95  | -7.00  | -2.63  | -19.35 | -12.49 | -12.71 | -15.40 | -15.45 | -15.77 | -9.45  | 3.35   | 9.44   |
| 10.00  | 2.00   | 2.39   | 0.72   | -1.50  | -2.64  | -9.71  | -32.13 | -7.85  | -12.19 | -9.93  | -19.93 | -22.60 | -9.59  | -18.39 | -8.73  | -14.19 | -10.58 | -1.30  | 7.42   |
| 20.00  | -1.63  | -4.85  | -14.32 | -19.55 | -9.29  | -18.70 | -9.55  | -19.15 | -6.81  | -14.85 | -22.99 | -22.86 | -14.17 | -29.75 | -44.02 | -28.13 | -30.06 | -17.90 | -0.09  |
| 30.00  | -6.99  | -10.91 | -7.60  | -12.74 | -15.60 | -7.41  | -12.67 | -14.04 | -7.77  | -38.40 | -17.29 | -11.26 | -16.45 | -18.67 | -28.46 | -25.80 | -35.70 | -27.74 | -7.50  |
| 40.00  | -4.00  | -20.67 | -15.71 | -12.92 | -8.21  | -13.73 | -10.20 | -14.39 | -16.22 | -10.67 | -8.78  | -4.82  | -21.36 | -25.71 | -23.84 | -31.37 | -31.90 | -30.82 | -22.33 |
| 50.00  | -18.89 | -25.01 | -26.86 | -19.99 | -20.14 | -17.16 | -14.89 | -15.63 | -18.29 | -15.55 | -35.17 | -17.30 | -21.78 | -30.28 | -25.18 | -35.82 | -24.85 | -42.71 | -14.72 |
| 60.00  | -7.35  | -21.03 | -26.18 | -24.04 | -17.07 | -10.86 | -16.74 | -17.13 | -19.81 | -18.32 | -22.43 | -19.20 | -25.04 | -36.77 | -35.92 | -25.99 | -32.81 | -29.01 | -4.94  |
| 70.00  | 0.50   | -13.53 | -15.21 | -21.90 | -18.08 | -20.26 | -23.04 | -20.50 | -30.26 | -15.54 | -21.17 | -18.05 | -25.58 | -25.28 | -34.22 | -32.22 | -34.87 | -35.65 | -3.08  |
| 80.00  | -6.64  | -17.83 | -18.33 | -22.46 | -17.29 | -30.05 | -28.98 | -37.23 | -28.22 | -23.88 | -26.57 | -24.87 | -32.67 | -25.25 | -28.08 | -34.54 | -34.28 | -34.70 | -12.48 |
| 90.00  | -8.91  | -18.74 | -32.96 | -29.40 | -33.34 | -27.25 | -26.87 | -36.08 | -35.18 | -28.39 | -22.37 | -24.57 | -32.82 | -35.64 | -35.48 | -35.56 | -35.42 | -36.54 | -18.43 |

## LHCP, Co-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -20.12 | -38.56 | -27.03 | -8.66  | -27.96 | -21.89 | -27.27 | -13.23 | -17.65 | -14.04 | -27.36 | -25.21 | -26.67 | -24.75 | -30.44 | -27.31 | -20.83 | -10.19 | -0.23  |
| -80.00 | -11.74 | -26.52 | -24.61 | -7.51  | -16.31 | -13.28 | -19.23 | -13.71 | -27.05 | -19.73 | -31.65 | -25.87 | -20.25 | -31.03 | -14.39 | -19.79 | -15.39 | -15.54 | 3.01   |
| -70.00 | -0.88  | -27.89 | -32.48 | -14.50 | -8.05  | -8.89  | -29.37 | -24.13 | -14.03 | -4.93  | -17.02 | -18.31 | -18.30 | -19.66 | -15.87 | -15.79 | -7.05  | -13.04 | -0.53  |
| -60.00 | -3.27  | -38.88 | -26.00 | -12.04 | -22.74 | -21.68 | -28.17 | -22.59 | -15.56 | -16.70 | -5.98  | -30.94 | -14.79 | -11.31 | -16.05 | -8.93  | -16.23 | -10.64 | -0.61  |
| -50.00 | -10.71 | -29.24 | -17.81 | -11.81 | -4.55  | -19.25 | -11.22 | -9.52  | -14.85 | -8.69  | -13.17 | -30.58 | -7.55  | -15.41 | -12.65 | -11.20 | -14.06 | -12.81 | -8.69  |
| -40.00 | -38.39 | -26.34 | -15.50 | -26.51 | -8.14  | 0.45   | -10.55 | -16.34 | -8.14  | -31.04 | -15.16 | -0.98  | -10.65 | -14.80 | -6.95  | -17.75 | -18.11 | -18.72 | -1.88  |
| -30.00 | -4.02  | -31.78 | -21.06 | -4.31  | -5.93  | -9.26  | -9.19  | -20.76 | -9.52  | -11.03 | -2.21  | -16.15 | -7.98  | -14.58 | -10.53 | -18.36 | -7.91  | -9.99  | -4.23  |
| -20.00 | 2.12   | -16.48 | -14.91 | -10.17 | -1.82  | -4.77  | -8.71  | -7.21  | -10.72 | -8.68  | -12.50 | -9.08  | -16.46 | -4.01  | -6.59  | -9.09  | -8.16  | -4.10  | 0.66   |
| -10.00 | 10.51  | 1.33   | -1.66  | 8.74   | 0.28   | 0.85   | 0.48   | -1.46  | -3.05  | -4.45  | -0.95  | -2.12  | -3.84  | -7.19  | -12.07 | -1.15  | 1.32   | 4.62   | 6.27   |
| -9.00  | 12.60  | 6.06   | 2.35   | 6.77   | -0.98  | -38.37 | -5.83  | -6.99  | 2.48   | 2.90   | 0.30   | 1.21   | -8.48  | -19.21 | -4.74  | 5.52   | 9.27   | 10.95  | 11.39  |
| -8.00  | 7.26   | 2.14   | -4.30  | -12.00 | -10.05 | -9.62  | -7.75  | 0.67   | 9.27   | -6.16  | 3.52   | -3.61  | -13.62 | 2.38   | 3.92   | -3.96  | 3.19   | 6.16   | 6.71   |
| -7.00  | 5.34   | 4.16   | -9.95  | 7.32   | 9.75   | 6.29   | 6.49   | 5.26   | 2.27   | 10.66  | 9.13   | 1.22   | -11.34 | -15.18 | 3.01   | 3.69   | 10.37  | 12.95  | 13.70  |
| -6.00  | 15.47  | 14.70  | 9.43   | 16.05  | 9.45   | 15.91  | 6.02   | 3.93   | -0.14  | -2.26  | 8.71   | 9.94   | 7.87   | 8.30   | 3.24   | 11.07  | 12.57  | 12.87  | 12.72  |
| -5.00  | 16.59  | 16.74  | 16.57  | 5.16   | 16.66  | 10.02  | 10.40  | 12.27  | 11.88  | 9.06   | 4.04   | 11.98  | 11.96  | 13.49  | 12.90  | 12.38  | 14.27  | 15.54  | 16.77  |
| -4.00  | 6.50   | 7.32   | 9.65   | 6.77   | 9.78   | 13.45  | 13.65  | 8.79   | 1.89   | 6.11   | 13.59  | 16.82  | 12.04  | 12.53  | 12.27  | 7.62   | 11.65  | 13.45  | 13.65  |
| -3.00  | 18.01  | 19.52  | 25.19  | 31.91  | 26.20  | 14.55  | 25.88  | 26.07  | 24.73  | 17.80  | 16.29  | 17.88  | 21.30  | 20.30  | 16.81  | 12.37  | 11.37  | 9.48   | 5.98   |
| -2.00  | 26.15  | 28.10  | 34.95  | 43.95  | 44.47  | 40.21  | 33.68  | 29.69  | 21.98  | 29.26  | 30.91  | 30.82  | 28.72  | 27.55  | 25.51  | 24.84  | 23.32  | 22.27  | 21.04  |
| -1.00  | 29.68  | 31.88  | 39.45  | 49.68  | 52.13  | 50.86  | 49.14  | 51.10  | 50.97  | 48.30  | 45.96  | 43.98  | 40.93  | 39.59  | 37.54  | 36.04  | 34.96  | 34.33  | 33.98  |
| 0.00   | 30.74  | 33.01  | 40.85  | 51.44  | 54.42  | 53.83  | 52.95  | 55.78  | 56.72  | 55.20  | 54.07  | 53.26  | 51.52  | 51.35  | 50.44  | 49.81  | 49.46  | 49.24  | 49.07  |
| 1.00   | 29.68  | 31.89  | 39.52  | 49.72  | 52.15  | 50.85  | 49.16  | 51.12  | 51.02  | 48.33  | 46.07  | 44.01  | 40.98  | 39.64  | 37.47  | 35.91  | 34.76  | 34.28  | 33.89  |
| 2.00   | 26.13  | 28.09  | 35.02  | 44.01  | 44.47  | 40.16  | 33.60  | 29.05  | 19.49  | 28.77  | 30.18  | 29.77  | 27.43  | 27.94  | 25.13  | 24.46  | 22.26  | 20.25  | 18.70  |
| 3.00   | 17.83  | 19.40  | 24.99  | 31.43  | 25.60  | 18.33  | 25.35  | 24.82  | 19.79  | 8.14   | 21.54  | 23.61  | 21.85  | 18.80  | 16.00  | 16.96  | 16.97  | 17.02  | 16.59  |
| 4.00   | 7.60   | 8.13   | 12.33  | 15.20  | 15.34  | 12.45  | 11.92  | -2.84  | 12.89  | 9.37   | 13.09  | 19.78  | 20.45  | 19.24  | 16.52  | 13.74  | 11.67  | 7.64   | 5.84   |
| 5.00   | 16.80  | 17.21  | 18.03  | 3.82   | 14.71  | 4.09   | 4.67   | 11.28  | 2.01   | 3.21   | 4.73   | 0.49   | 3.11   | 5.49   | 9.01   | 10.73  | 13.46  | 14.84  | 15.46  |
| 6.00   | 15.72  | 15.19  | 10.91  | 14.67  | 2.57   | 10.99  | 9.39   | 9.53   | 12.71  | -4.06  | -10.90 | -1.05  | 10.62  | 12.88  | 9.45   | -1.92  | 4.09   | 7.46   | 8.22   |
| 7.00   | 6.67   | 4.89   | -8.84  | 8.56   | 7.74   | 4.99   | 11.22  | -0.45  | -4.68  | 9.24   | 5.52   | -5.16  | -2.53  | 0.18   | -27.09 | 6.02   | 10.37  | 12.09  | 12.53  |
| 8.00   | 6.55   | 2.27   | -9.52  | 1.12   | -2.92  | -0.52  | -1.06  | 0.76   | 10.52  | -3.43  | 6.71   | 2.28   | -3.54  | 4.35   | 3.68   | 3.66   | 7.51   | 9.49   | 9.61   |
| 9.00   | 12.44  | 6.47   | 0.59   | 3.27   | 4.05   | -0.16  | -4.00  | -6.23  | -10.92 | 4.84   | -0.49  | -1.11  | -6.48  | -1.92  | 1.14   | 7.11   | 11.11  | 12.92  | 13.18  |
| 10.00  | 10.42  | 1.82   | -0.53  | 4.84   | 10.77  | -3.15  | -0.88  | -16.35 | -11.50 | -2.46  | -5.67  | -2.00  | -28.38 | -6.71  | 0.36   | 1.50   | 3.72   | 5.39   | 5.00   |
| 20.00  | 2.91   | -14.78 | -20.02 | -9.09  | -24.52 | -14.52 | -5.46  | -16.60 | -14.56 | -7.38  | -0.29  | -13.30 | -5.80  | -15.70 | -6.29  | -16.55 | -11.32 | -1.85  | 1.37   |
| 30.00  | -4.50  | -24.62 | -25.65 | -6.76  | -8.97  | -3.43  | -7.74  | -5.00  | -8.86  | -30.94 | -1.26  | -8.20  | -8.92  | -4.41  | -12.60 | -9.74  | -4.60  | -7.91  | -3.99  |
| 40.00  | -19.33 | -27.70 | -21.85 | -12.34 | -4.34  | -10.47 | -12.66 | 1.44   | -0.35  | -3.20  | -9.70  | -8.54  | -6.45  | -10.73 | -5.21  | -9.92  | -12.71 | -17.67 | -1.00  |
| 50.00  | -11.72 | -39.59 | -14.81 | -16.79 | -5.68  | -15.04 | -13.07 | -11.04 | -26.74 | -8.08  | -11.77 | -9.78  | -11.14 | -14.16 | -17.14 | -16.99 | -23.86 | -22.01 | -15.89 |
| 60.00  | -1.94  | -25.88 | -22.77 | -6.95  | -16.42 | -21.53 | -16.33 | -12.95 | -14.00 | -10.86 | -13.29 | -11.28 | -12.99 | -7.86  | -14.07 | -21.04 | -23.18 | -18.03 | -4.35  |
| 70.00  | -0.08  | -32.53 | -24.83 | -13.18 | -14.73 | -10.04 | -16.88 | -11.79 | -12.74 | -8.07  | -23.74 | -14.66 | -19.30 | -17.26 | -15.08 | -18.90 | -12.21 | -10.53 | 3.50   |
| 80.00  | -9.48  | -31.57 | -24.23 | -15.50 | -8.58  | -10.01 | -23.96 | -18.61 | -18.14 | -16.41 | -21.71 | -31.38 | -25.24 | -27.05 | -14.29 | -19.46 | -15.33 | -14.83 | -3.64  |
| 90.00  | -15.43 | -33.42 | -25.37 | -16.53 | -15.98 | -20.40 | -24.11 | -18.31 | -13.93 | -20.93 | -28.67 | -30.23 | -23.13 | -24.25 | -30.34 | -26.40 | -29.96 | -15.74 | -5.91  |

## LHCP, Cross-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -29.68 | -30.97 | -31.10 | -28.32 | -35.52 | -36.36 | -39.38 | -37.85 | -37.05 | -33.42 | -34.58 | -30.95 | -40.41 | -36.78 | -44.49 | -40.21 | -48.83 | -49.58 | -19.06 |
| -80.00 | -10.04 | -20.01 | -23.73 | -23.86 | -21.88 | -36.42 | -35.74 | -38.04 | -33.78 | -30.93 | -31.75 | -29.37 | -41.28 | -35.83 | -41.88 | -39.49 | -48.70 | -41.82 | -14.47 |
| -70.00 | -19.78 | -22.14 | -17.90 | -23.23 | -28.03 | -33.06 | -32.76 | -26.86 | -31.87 | -18.97 | -26.75 | -24.11 | -33.86 | -34.09 | -39.44 | -46.66 | -44.98 | -41.43 | -10.36 |
| -60.00 | -26.20 | -22.41 | -31.61 | -25.71 | -26.36 | -17.92 | -31.81 | -31.77 | -22.50 | -28.97 | -20.86 | -35.57 | -32.00 | -41.22 | -41.63 | -47.99 | -43.74 | -39.82 | -13.78 |
| -50.00 | -20.13 | -23.66 | -27.88 | -22.78 | -29.34 | -30.69 | -18.19 | -40.07 | -27.71 | -27.19 | -28.74 | -24.45 | -21.77 | -34.84 | -35.19 | -37.51 | -44.83 | -48.99 | -16.40 |
| -40.00 | -12.98 | -21.48 | -28.09 | -27.17 | -27.32 | -28.59 | -19.46 | -17.75 | -25.41 | -31.65 | -37.49 | -26.89 | -30.45 | -32.79 | -44.24 | -52.81 | -44.88 | -39.29 | -14.71 |
| -30.00 | -11.64 | -13.61 | -26.32 | -29.60 | -27.41 | -26.70 | -22.62 | -30.27 | -22.62 | -29.33 | -33.11 | -33.20 | -23.84 | -35.98 | -41.63 | -30.83 | -40.94 | -40.63 | -15.93 |
| -20.00 | -13.76 | -15.92 | -28.55 | -17.62 | -18.86 | -16.08 | -24.63 | -27.30 | -18.33 | -24.28 | -36.31 | -22.99 | -20.20 | -28.10 | -31.73 | -37.59 | -39.41 | -38.42 | -18.11 |
| -10.00 | -9.12  | -9.02  | -12.22 | -18.36 | -24.64 | -23.87 | -24.98 | -23.93 | -19.31 | -18.83 | -21.01 | -19.64 | -19.81 | -28.56 | -19.81 | -22.42 | -30.60 | -18.20 | -11.06 |
| -9.00  | -17.37 | -16.08 | -20.29 | -24.91 | -24.47 | -20.34 | -19.16 | -25.99 | -20.76 | -16.66 | -13.50 | -17.41 | -30.48 | -25.43 | -20.60 | -25.09 | -38.94 | -22.50 | -18.02 |
| -8.00  | -20.43 | -15.93 | -13.30 | -11.07 | -7.83  | -8.17  | -17.10 | -20.56 | -12.37 | -10.36 | -13.58 | -18.36 | -21.37 | -34.30 | -29.46 | -33.08 | -36.72 | -14.85 | -13.73 |
| -7.00  | -5.37  | -4.62  | -5.00  | -7.22  | -10.09 | -11.18 | -11.81 | -11.50 | -7.79  | -12.06 | -18.89 | -13.68 | -17.29 | -22.35 | -25.06 | -23.03 | -30.96 | -13.42 | -9.68  |
| -6.00  | -0.99  | -1.65  | -2.03  | -3.13  | -5.29  | -7.54  | -12.88 | -13.76 | -16.76 | -23.51 | -22.06 | -9.58  | -9.77  | -14.64 | -17.52 | -22.94 | -26.37 | -13.22 | -10.65 |
| -5.00  | -5.69  | -6.77  | -7.89  | -8.88  | -8.34  | -5.19  | -5.06  | -8.81  | -14.70 | -10.24 | -7.25  | -4.50  | -9.62  | -14.76 | -17.26 | -27.82 | -18.98 | -14.96 | -14.76 |
| -4.00  | -5.10  | -5.42  | -7.18  | -8.53  | -7.82  | -4.33  | -0.88  | 0.18   | -1.48  | -6.55  | -13.93 | -7.73  | -9.53  | -15.37 | -23.05 | -19.82 | -14.97 | -15.81 | -19.80 |
| -3.00  | 4.24   | 4.32   | 4.46   | 4.58   | 4.19   | 4.26   | 2.49   | 0.57   | -1.77  | -3.01  | -7.74  | -7.19  | -11.17 | -14.74 | -13.36 | -14.50 | -17.96 | -26.43 | -29.36 |
| -2.00  | 0.89   | 1.48   | 0.17   | -0.03  | -0.69  | -1.68  | -4.95  | -7.05  | -4.93  | -1.83  | 0.01   | 4.59   | -1.77  | -6.79  | -11.22 | -14.04 | -16.82 | -19.45 | -27.35 |
| -1.00  | -8.59  | -6.09  | -6.75  | -4.63  | -2.65  | -0.73  | 4.37   | 3.05   | 2.49   | 2.74   | 3.36   | 5.07   | -0.51  | -5.84  | -8.61  | -10.54 | -11.53 | -12.88 | -17.12 |
| 0.00   | 3.43   | 3.58   | 3.65   | 3.92   | 4.38   | 5.25   | 4.75   | 4.60   | 4.91   | 4.87   | 5.56   | 6.55   | 1.19   | -4.59  | -8.17  | -10.41 | -12.11 | -12.92 | -14.82 |
| 1.00   | 9.57   | 6.08   | 9.69   | 9.66   | 9.37   | 9.27   | 7.41   | 3.80   | 1.90   | -0.08  | 0.67   | -0.83  | -5.93  | -11.20 | -18.31 | -15.79 | -16.20 | -14.56 | -14.29 |
| 2.00   | 6.16   | 6.41   | 6.31   | 6.42   | 6.33   | 5.89   | 2.74   | 1.41   | 2.51   | 4.84   | 5.35   | 5.41   | -2.68  | -12.03 | -25.34 | -19.52 | -20.41 | -18.88 | -18.27 |
| 3.00   | -3.98  | -3.12  | -1.24  | -0.01  | 1.06   | 3.24   | 4.26   | 4.57   | 3.03   | 0.62   | 1.77   | 1.83   | -3.27  | -7.50  | -16.05 | -19.33 | -17.56 | -18.49 | -22.57 |
| 4.00   | 1.36   | 1.91   | 2.13   | 2.16   | 1.44   | -0.69  | -5.71  | -9.55  | -8.59  | -6.07  | -1.93  | -3.69  | -8.85  | -11.48 | -17.13 | -19.60 | -16.51 | -12.27 | -15.34 |
| 5.00   | -5.70  | -5.70  | -6.52  | -8.66  | -9.91  | -7.21  | -7.00  | -8.80  | -16.08 | -16.29 | -12.68 | -12.51 | -9.80  | -13.10 | -19.28 | -23.50 | -26.56 | -14.82 | -13.43 |
| 6.00   | -12.75 | -11.12 | -9.79  | -9.77  | -7.99  | -6.80  | -11.04 | -9.68  | -10.06 | -10.21 | -7.60  | -4.66  | -14.49 | -12.62 | -17.06 | -22.11 | -27.41 | -12.66 | -11.13 |
| 7.00   | -7.86  | -7.31  | -6.39  | -7.31  | -10.50 | -14.01 | -19.12 | -18.59 | -13.53 | -12.33 | -7.84  | -6.12  | -12.04 | -23.11 | -20.32 | -23.36 | -31.68 | -12.06 | -10.23 |
| 8.00   | -12.91 | -14.88 | -14.91 | -11.76 | -8.91  | -8.96  | -13.91 | -15.92 | -18.27 | -23.72 | -14.59 | -10.43 | -14.89 | -20.80 | -34.90 | -32.44 | -28.63 | -17.99 | -13.33 |
| 9.00   | -3.66  | -4.99  | -6.31  | -8.12  | -10.27 | -12.52 | -15.19 | -17.58 | -17.13 | -20.16 | -21.94 | -17.86 | -19.15 | -20.35 | -34.41 | -25.06 | -29.73 | -20.87 | -16.32 |
| 10.00  | -5.73  | -6.82  | -8.93  | -14.04 | -19.92 | -24.46 | -22.96 | -23.20 | -21.56 | -18.89 | -22.00 | -15.17 | -16.49 | -21.04 | -29.21 | -22.71 | -28.15 | -19.97 | -11.42 |
| 20.00  | -14.58 | -19.99 | -25.65 | -24.57 | -21.60 | -27.89 | -18.73 | -25.55 | -23.47 | -21.40 | -29.58 | -20.38 | -30.26 | -31.82 | -40.20 | -35.63 | -36.79 | -29.29 | -16.19 |
| 30.00  | -15.70 | -18.25 | -17.11 | -35.07 | -26.39 | -18.70 | -18.67 | -21.63 | -15.79 | -22.71 | -22.03 | -24.69 | -26.05 | -28.49 | -35.32 | -33.43 | -40.68 | -37.09 | -19.30 |
| 40.00  | -14.48 | -21.39 | -21.92 | -23.26 | -21.12 | -25.94 | -24.47 | -22.42 | -24.79 | -23.71 | -23.69 | -23.98 | -31.97 | -26.84 | -33.09 | -35.51 | -36.97 | -39.84 | -14.33 |
| 50.00  | -17.94 | -27.11 | -26.54 | -27.94 | -29.06 | -34.37 | -29.09 | -25.17 | -25.61 | -32.37 | -29.25 | -28.47 | -28.71 | -35.26 | -28.89 | -38.61 | -33.46 | -50.89 | -15.93 |
| 60.00  | -22.13 | -26.64 | -33.76 | -25.68 | -27.52 | -22.27 | -29.91 | -26.06 | -20.52 | -30.42 | -28.39 | -30.21 | -33.88 | -38.12 | -40.90 | -37.19 | -42.99 | -37.51 | -14.24 |
| 70.00  | -13.34 | -24.36 | -15.69 | -26.10 | -30.64 | -29.75 | -30.08 | -27.81 | -27.79 | -20.57 | -37.95 | -26.97 | -32.07 | -37.61 | -47.28 | -44.88 | -48.28 | -38.08 | -12.19 |
| 80.00  | -24.02 | -26.39 | -24.34 | -34.20 | -28.44 | -33.86 | -29.44 | -36.62 | -33.49 | -32.94 | -36.74 | -34.16 | -34.79 | -41.14 | -39.62 | -35.94 | -45.19 | -39.04 | -14.06 |
| 90.00  | -16.10 | -33.29 | -38.84 | -36.22 | -32.39 | -34.20 | -35.63 | -34.99 | -37.29 | -33.95 | -36.35 | -37.67 | -39.98 | -45.98 | -46.86 | -36.15 | -46.19 | -48.25 | -19.19 |

## LHCP, Cross-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -16.06 | -46.46 | -38.79 | -21.17 | -24.99 | -21.54 | -31.70 | -24.69 | -26.14 | -25.95 | -30.54 | -32.00 | -35.63 | -33.36 | -32.52 | -25.32 | -28.10 | -27.97 | -26.68 |
| -80.00 | -11.47 | -38.69 | -38.65 | -20.45 | -22.39 | -20.59 | -32.57 | -23.11 | -23.32 | -23.47 | -27.27 | -32.19 | -32.00 | -33.42 | -18.88 | -20.86 | -20.73 | -17.01 | -7.04  |
| -70.00 | -7.36  | -38.31 | -34.93 | -27.63 | -19.95 | -18.85 | -25.16 | -17.86 | -18.32 | -11.50 | -25.36 | -21.01 | -29.01 | -30.06 | -25.03 | -20.23 | -14.90 | -19.14 | -16.78 |
| -60.00 | -10.78 | -36.69 | -33.69 | -28.96 | -22.14 | -25.98 | -23.30 | -29.31 | -12.43 | -21.50 | -15.99 | -25.92 | -28.06 | -14.92 | -23.36 | -22.71 | -28.61 | -19.41 | -23.20 |
| -50.00 | -13.40 | -45.87 | -34.78 | -18.47 | -15.70 | -19.60 | -13.06 | -18.19 | -20.31 | -19.72 | -21.20 | -34.22 | -14.45 | -27.69 | -26.34 | -19.78 | -24.88 | -20.66 | -17.13 |
| -40.00 | -11.71 | -36.17 | -34.83 | -33.78 | -24.74 | -17.55 | -21.74 | -20.63 | -29.06 | -24.19 | -18.89 | -11.90 | -15.72 | -25.59 | -24.32 | -24.17 | -25.09 | -18.48 | -9.99  |
| -30.00 | -12.93 | -37.51 | -30.90 | -11.80 | -22.14 | -20.74 | -15.13 | -26.95 | -24.68 | -21.86 | -16.10 | -24.42 | -18.88 | -23.70 | -24.41 | -26.60 | -23.32 | -10.61 | -8.64  |
| -20.00 | -15.11 | -35.29 | -29.36 | -18.55 | -12.23 | -12.86 | -11.49 | -16.73 | -27.88 | -16.81 | -11.81 | -21.45 | -20.89 | -13.08 | -15.86 | -14.62 | -25.55 | -12.92 | -10.76 |
| -10.00 | -8.06  | -15.08 | -20.55 | -3.39  | -0.31  | -13.32 | -11.11 | -13.39 | -12.57 | -11.36 | -12.79 | -18.08 | -21.23 | -20.87 | -21.64 | -15.37 | -9.22  | -6.02  | -6.12  |
| -9.00  | -15.02 | -19.37 | -28.90 | -6.05  | -1.11  | -10.19 | -21.77 | -11.16 | -5.06  | -9.19  | -14.25 | -20.15 | -15.42 | -17.34 | -21.47 | -21.91 | -17.29 | -13.08 | -14.37 |
| -8.00  | -10.73 | -11.72 | -26.67 | -14.04 | -9.96  | -19.06 | -12.66 | -12.11 | -5.14  | -2.89  | -5.86  | -14.72 | -13.35 | -5.17  | -4.83  | -8.07  | -10.30 | -12.93 | -17.43 |
| -7.00  | -6.68  | -10.30 | -20.91 | -3.99  | -5.57  | -7.11  | -8.59  | -7.42  | -10.46 | -4.59  | -1.27  | -5.66  | -8.06  | -8.18  | -7.09  | -4.22  | -2.00  | -1.62  | -2.37  |
| -6.00  | -7.65  | -10.09 | -16.33 | -3.90  | 1.97   | 0.60   | -1.06  | -3.32  | -13.63 | -16.04 | -10.24 | -7.91  | -9.13  | -4.54  | -2.29  | -0.13  | 0.97   | 1.35   | 2.01   |
| -5.00  | -11.76 | -11.84 | -8.93  | -8.78  | 2.23   | 0.48   | -0.91  | 1.75   | 1.18   | -2.77  | -8.19  | -2.97  | -1.32  | -2.19  | -5.34  | -5.88  | -4.89  | -3.77  | -2.69  |
| -4.00  | -16.80 | -12.69 | -4.93  | -0.78  | -3.56  | -0.13  | -0.82  | -1.47  | -5.50  | 0.91   | 5.04   | 6.03   | 2.86   | -1.33  | -4.82  | -5.53  | -4.18  | -2.42  | -2.10  |
| -3.00  | -26.36 | -23.31 | -7.91  | 4.54   | 6.14   | 0.50   | -2.46  | -0.93  | 0.70   | 4.45   | 4.75   | 6.41   | 6.24   | 7.26   | 7.19   | 7.58   | 7.46   | 7.32   | 7.24   |
| -2.00  | -24.35 | -16.33 | -6.77  | 5.00   | 8.28   | 8.45   | 6.94   | 10.84  | 8.44   | 5.64   | 1.58   | -1.20  | -1.20  | 1.32   | 2.31   | 2.97   | 3.17   | 4.48   | 3.89   |
| -1.00  | -14.12 | -9.76  | -1.48  | 8.50   | 10.89  | 9.40   | 8.19   | 11.33  | 11.79  | 10.20  | 9.00   | 8.89   | 8.12   | 2.27   | 0.35   | -1.63  | -3.75  | -3.09  | -5.59  |
| 0.00   | -11.82 | -9.80  | -2.06  | 8.62   | 11.33  | 10.65  | 9.89   | 12.81  | 13.99  | 12.34  | 11.43  | 10.44  | 8.49   | 8.25   | 7.38   | 6.92   | 6.65   | 6.58   | 6.43   |
| 1.00   | -11.29 | -11.44 | -6.15  | 3.24   | 1.18   | 4.04   | 2.78   | 5.43   | 9.10   | 7.38   | 8.42   | 9.65   | 11.16  | 12.27  | 12.37  | 12.66  | 12.69  | 9.08   | 12.57  |
| 2.00   | -15.27 | -15.76 | -10.36 | -0.48  | -5.85  | 3.21   | 6.03   | 11.66  | 13.78  | 12.31  | 9.03   | 7.26   | 6.48   | 8.89   | 9.33   | 9.42   | 9.31   | 9.41   | 9.16   |
| 3.00   | -19.57 | -15.37 | -7.52  | -0.29  | 3.45   | 7.74   | 5.44   | 8.09   | 10.20  | 8.09   | 9.54   | 10.41  | 8.01   | 6.24   | 4.06   | 2.99   | 1.76   | -0.12  | -0.98  |
| 4.00   | -12.34 | -9.14  | -6.46  | -0.56  | 2.36   | 3.76   | -0.15  | 2.57   | 6.50   | 1.40   | -2.08  | -3.70  | -1.97  | 2.31   | 4.44   | 5.16   | 5.13   | 4.91   | 4.36   |
| 5.00   | -10.43 | -11.70 | -16.52 | -4.47  | 0.21   | 2.14   | -1.09  | -6.25  | -4.25  | -8.82  | -9.56  | -2.95  | -3.25  | -4.21  | -6.91  | -5.66  | -3.52  | -2.70  | -2.70  |
| 6.00   | -8.13  | -9.54  | -17.36 | -3.08  | 2.43   | 2.62   | -5.78  | 1.60   | 0.83   | -2.74  | -3.54  | -3.83  | -7.30  | -3.80  | -4.99  | -6.77  | -6.79  | -8.12  | -9.75  |
| 7.00   | -7.23  | -8.94  | -21.64 | -4.32  | -0.83  | -7.87  | -3.33  | 0.13   | 0.59   | -4.87  | -7.02  | -12.74 | -15.37 | -11.01 | -7.50  | -4.31  | -3.39  | -4.31  | -4.86  |
| 8.00   | -10.33 | -14.86 | -18.59 | -13.40 | -15.40 | -5.56  | -6.18  | -4.17  | -6.16  | -16.25 | -11.76 | -10.07 | -10.16 | -5.96  | -5.91  | -8.76  | -11.91 | -11.88 | -9.91  |
| 9.00   | -13.32 | -17.75 | -19.69 | -6.02  | -14.91 | -5.11  | -10.44 | -11.60 | -13.51 | -12.69 | -10.61 | -11.73 | -11.44 | -9.52  | -7.27  | -5.13  | -3.31  | -1.99  | -0.66  |
| 10.00  | -8.42  | -16.85 | -18.11 | -3.67  | -9.72  | -5.80  | -7.78  | -8.91  | -13.57 | -11.42 | -15.05 | -17.35 | -19.21 | -21.46 | -16.92 | -11.04 | -5.93  | -3.82  | -2.73  |
| 20.00  | -13.19 | -26.17 | -26.74 | -16.59 | -20.71 | -16.58 | -21.55 | -14.13 | -21.15 | -13.93 | -16.95 | -19.70 | -14.98 | -24.89 | -18.60 | -21.57 | -22.65 | -16.99 | -11.58 |
| 30.00  | -16.30 | -33.97 | -30.63 | -14.39 | -15.82 | -13.25 | -17.34 | -18.43 | -13.60 | -15.24 | -9.27  | -15.78 | -14.93 | -15.70 | -23.39 | -32.07 | -14.11 | -15.25 | -12.70 |
| 40.00  | -11.33 | -36.72 | -26.92 | -16.47 | -13.59 | -11.60 | -23.27 | -17.72 | -15.26 | -16.25 | -18.28 | -16.58 | -20.72 | -22.94 | -18.12 | -20.26 | -18.92 | -18.39 | -11.48 |
| 50.00  | -12.93 | -47.77 | -23.41 | -19.58 | -9.40  | -20.02 | -20.01 | -22.22 | -20.82 | -24.90 | -19.09 | -19.32 | -25.34 | -31.37 | -26.06 | -24.94 | -23.54 | -24.11 | -14.94 |
| 60.00  | -11.24 | -34.39 | -32.94 | -18.16 | -21.40 | -22.88 | -25.17 | -23.96 | -19.96 | -22.95 | -14.00 | -20.22 | -26.17 | -19.27 | -24.52 | -22.68 | -30.76 | -23.64 | -19.13 |
| 70.00  | -9.19  | -34.95 | -38.23 | -25.84 | -27.78 | -22.37 | -23.36 | -20.71 | -29.52 | -13.10 | -21.28 | -21.96 | -26.33 | -26.75 | -27.64 | -23.10 | -12.69 | -21.36 | -10.34 |
| 80.00  | -11.06 | -35.92 | -35.14 | -16.90 | -20.13 | -25.90 | -26.08 | -27.90 | -28.30 | -25.47 | -26.98 | -30.77 | -25.70 | -30.86 | -25.44 | -31.20 | -21.34 | -23.39 | -21.02 |
| 90.00  | -16.19 | -45.12 | -36.14 | -17.11 | -27.37 | -30.74 | -31.27 | -31.42 | -27.92 | -26.48 | -30.77 | -29.14 | -31.88 | -31.20 | -29.39 | -33.22 | -35.84 | -30.29 | -13.10 |

## RHCP, Co-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -6.83  | -18.30 | -26.92 | -27.83 | -25.46 | -31.65 | -25.10 | -29.95 | -24.99 | -22.85 | -35.39 | -25.11 | -35.66 | -38.45 | -38.24 | -36.26 | -41.77 | -31.67 | -14.28 |
| -80.00 | -8.00  | -32.06 | -16.26 | -23.64 | -16.27 | -21.37 | -21.22 | -22.83 | -26.47 | -24.85 | -29.19 | -27.38 | -32.94 | -53.05 | -35.58 | -29.95 | -38.71 | -28.10 | -8.97  |
| -70.00 | -15.13 | -21.00 | -13.05 | -15.50 | -23.07 | -26.42 | -17.37 | -26.80 | -17.77 | -20.08 | -23.22 | -16.48 | -35.25 | -22.44 | -29.09 | -38.34 | -34.93 | -26.63 | -2.23  |
| -60.00 | -2.89  | -13.47 | -22.52 | -22.52 | -19.13 | -11.50 | -18.70 | -20.53 | -20.26 | -19.87 | -24.74 | -13.75 | -29.03 | -39.75 | -39.14 | -28.41 | -38.62 | -35.30 | -5.23  |
| -50.00 | -17.17 | -23.56 | -19.02 | -18.84 | -19.93 | -20.75 | -10.94 | -22.46 | -21.34 | -21.00 | -22.22 | -11.48 | -15.52 | -30.20 | -27.48 | -28.73 | -28.49 | -41.00 | -8.55  |
| -40.00 | -5.78  | -10.09 | -13.37 | -13.35 | -6.70  | -15.27 | -21.70 | -8.92  | -27.38 | -23.51 | -15.96 | -11.71 | -23.85 | -28.25 | -27.85 | -31.51 | -30.40 | -27.79 | -14.73 |
| -30.00 | -5.59  | -11.09 | -6.21  | -11.73 | -12.37 | -8.78  | -16.21 | -17.70 | -21.15 | -15.61 | -13.63 | -22.97 | -17.06 | -25.88 | -23.97 | -33.23 | -34.74 | -25.90 | -5.21  |
| -20.00 | -1.01  | -7.50  | -21.92 | -25.06 | -13.55 | -31.43 | -14.67 | -16.37 | -8.88  | -24.52 | -10.55 | -3.89  | -21.06 | -26.72 | -22.65 | -22.72 | -32.20 | -24.52 | -1.61  |
| -10.00 | -0.66  | -0.84  | -1.81  | -5.54  | -9.60  | -6.30  | -4.73  | -11.12 | -14.04 | -14.04 | -13.26 | -2.55  | -5.64  | -19.86 | -17.79 | -17.07 | -9.33  | -0.82  | 7.89   |
| -9.00  | 7.28   | 6.75   | 4.74   | -0.49  | -4.86  | -11.03 | -8.37  | -0.55  | -7.51  | -6.69  | -11.46 | -21.16 | -27.38 | -25.68 | -23.21 | -21.47 | -8.78  | 2.96   | 9.58   |
| -8.00  | 1.54   | 2.31   | -1.12  | -9.11  | 0.40   | -0.51  | -18.23 | -12.92 | -3.24  | -4.94  | 2.28   | -1.34  | -16.76 | -21.13 | -29.15 | -21.36 | -21.92 | -2.77  | 3.62   |
| -7.00  | 11.12  | 10.61  | 9.41   | 5.59   | -0.51  | -8.60  | -3.80  | -3.14  | 2.84   | 3.26   | -3.93  | -2.32  | -3.13  | -11.10 | -11.44 | -8.01  | -18.11 | 3.18   | 3.35   |
| -6.00  | 10.27  | 9.67   | 8.01   | 4.53   | 3.15   | 7.08   | 5.06   | -0.71  | 0.98   | -7.31  | -13.46 | 0.19   | -2.95  | -2.08  | -12.73 | -2.24  | 1.73   | 12.31  | 12.68  |
| -5.00  | 14.26  | 14.07  | 12.51  | 10.93  | 8.82   | 8.44   | 8.38   | 4.40   | 0.25   | 2.63   | 4.10   | 7.54   | 0.73   | -6.06  | -5.02  | -19.13 | 8.13   | 14.02  | 13.57  |
| -4.00  | 11.34  | 10.89  | 10.35  | 8.35   | 10.38  | 11.31  | 10.66  | 6.33   | 8.07   | 0.70   | -3.50  | 4.25   | 4.24   | 1.35   | -4.81  | -9.11  | 1.71   | 4.52   | 2.48   |
| -3.00  | 7.66   | 8.38   | 9.08   | 8.16   | 12.96  | 17.18  | 18.16  | 16.96  | 10.27  | 10.71  | 16.52  | 19.88  | 17.03  | 4.06   | 5.90   | 12.82  | 15.12  | 16.52  | 15.34  |
| -2.00  | 16.59  | 17.19  | 18.45  | 20.03  | 21.27  | 23.95  | 24.93  | 24.97  | 24.38  | 21.55  | 13.80  | 24.96  | 24.97  | 24.94  | 24.97  | 24.97  | 24.97  | 24.97  | 23.29  |
| -1.00  | 30.84  | 31.21  | 31.85  | 33.15  | 34.66  | 36.58  | 37.67  | 38.52  | 39.79  | 41.33  | 43.13  | 45.52  | 40.35  | 35.58  | 32.64  | 30.68  | 29.41  | 28.69  | 26.77  |
| 0.00   | 46.11  | 46.34  | 46.68  | 47.08  | 47.62  | 48.43  | 48.25  | 47.69  | 47.83  | 48.07  | 48.74  | 50.14  | 44.12  | 38.53  | 34.92  | 32.43  | 30.73  | 29.81  | 27.81  |
| 1.00   | 30.58  | 31.23  | 31.96  | 33.12  | 34.50  | 36.48  | 37.69  | 38.39  | 39.93  | 41.39  | 43.16  | 45.55  | 40.40  | 35.61  | 32.65  | 30.72  | 29.37  | 28.70  | 26.78  |
| 2.00   | 13.60  | 15.56  | 17.45  | 19.92  | 22.12  | 24.51  | 24.50  | 24.43  | 23.83  | 20.67  | 7.83   | 24.64  | 24.97  | 24.97  | 24.93  | 24.97  | 24.94  | 24.97  | 23.30  |
| 3.00   | 14.61  | 14.28  | 13.60  | 12.28  | 11.79  | 13.51  | 14.27  | 13.35  | 9.00   | -6.72  | 13.03  | 18.14  | 17.24  | 4.61   | 5.67   | 12.52  | 15.28  | 16.49  | 15.17  |
| 4.00   | -4.92  | -2.71  | 6.20   | 8.72   | 11.92  | 15.15  | 17.14  | 15.58  | 11.95  | 4.48   | 0.71   | -12.17 | 4.82   | 2.04   | -4.31  | -4.68  | -1.00  | 4.68   | 3.67   |
| 5.00   | 13.97  | 12.99  | 11.22  | 8.67   | 5.01   | 5.06   | -1.54  | -7.64  | 2.52   | 4.29   | 2.71   | 6.71   | -0.25  | -6.03  | -6.24  | -21.20 | 7.04   | 13.99  | 13.71  |
| 6.00   | 6.20   | 5.61   | 3.92   | -1.47  | 1.22   | 4.75   | 5.51   | -4.92  | -5.16  | -2.12  | -10.51 | 2.62   | -4.50  | -0.99  | -30.95 | -4.29  | 0.57   | 12.13  | 12.82  |
| 7.00   | 10.14  | 10.01  | 8.94   | 3.94   | -5.88  | -6.43  | -4.81  | -2.62  | -11.61 | -3.45  | 1.66   | -0.63  | 1.88   | -18.07 | -9.65  | -13.02 | -14.52 | 1.89   | 4.41   |
| 8.00   | 7.66   | 6.99   | 4.88   | -0.94  | -10.55 | -6.29  | -3.03  | -0.80  | 1.58   | -12.73 | -2.26  | 0.68   | -11.78 | -17.30 | -23.53 | -26.06 | -13.49 | 0.14   | 3.04   |
| 9.00   | 9.92   | 10.15  | 8.92   | 4.80   | -3.52  | -9.30  | -5.56  | -0.66  | 0.37   | -1.39  | -6.60  | -5.69  | -11.73 | -12.67 | -13.29 | -17.10 | -8.03  | 4.66   | 9.51   |
| 10.00  | 3.92   | 4.68   | 3.71   | 0.30   | -2.89  | -16.50 | -7.31  | -10.36 | -5.84  | -4.05  | -11.17 | -7.53  | -12.38 | -23.42 | -8.29  | -13.19 | -11.80 | 1.17   | 7.77   |
| 20.00  | 0.34   | -5.12  | -13.75 | -18.79 | -16.52 | -13.02 | -13.26 | -17.33 | -17.53 | -20.67 | -11.85 | -16.75 | -17.89 | -34.23 | -30.92 | -33.04 | -27.86 | -21.30 | -0.02  |
| 30.00  | -13.78 | -9.71  | -11.36 | -14.99 | -12.66 | -12.23 | -6.77  | -8.78  | -9.97  | -10.01 | -8.27  | -8.14  | -22.37 | -24.87 | -36.15 | -23.45 | -24.89 | -29.37 | -5.18  |
| 40.00  | -10.28 | -16.69 | -15.07 | -12.36 | -9.34  | -29.62 | -12.12 | -24.63 | -12.75 | -8.67  | -7.97  | -3.29  | -13.55 | -12.52 | -26.17 | -44.53 | -24.66 | -24.41 | -14.19 |
| 50.00  | -3.94  | -26.52 | -16.11 | -14.56 | -16.27 | -15.49 | -8.26  | -19.03 | -16.80 | -35.55 | -31.80 | -19.54 | -16.98 | -28.19 | -34.21 | -34.64 | -29.13 | -34.22 | -9.02  |
| 60.00  | -5.09  | -39.21 | -32.36 | -12.32 | -29.39 | -19.09 | -21.49 | -19.34 | -15.89 | -16.28 | -24.96 | -27.22 | -24.31 | -30.98 | -35.24 | -33.54 | -46.49 | -35.31 | -5.06  |
| 70.00  | -3.33  | -15.42 | -13.47 | -15.01 | -25.18 | -24.77 | -28.56 | -20.35 | -30.50 | -12.06 | -29.25 | -25.91 | -30.22 | -23.32 | -32.17 | -43.25 | -29.77 | -31.00 | -2.43  |
| 80.00  | -9.40  | -23.05 | -22.31 | -22.13 | -15.72 | -26.20 | -36.76 | -29.90 | -29.79 | -24.64 | -24.07 | -22.78 | -31.73 | -36.46 | -38.36 | -32.36 | -38.64 | -29.57 | -9.23  |
| 90.00  | -7.52  | -18.87 | -23.88 | -33.40 | -28.60 | -25.42 | -31.39 | -33.60 | -30.33 | -29.87 | -28.43 | -40.43 | -29.32 | -39.78 | -48.39 | -38.01 | -53.47 | -37.35 | -15.44 |



## RHCP, Co-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -11.28 | -28.60 | -31.87 | -18.13 | -19.70 | -23.95 | -27.02 | -19.58 | -27.45 | -15.08 | -18.36 | -25.21 | -22.10 | -28.65 | -22.46 | -24.83 | -23.85 | -15.13 | -3.77  |
| -80.00 | -5.97  | -25.03 | -28.81 | -11.82 | -17.05 | -38.55 | -24.30 | -21.85 | -21.25 | -17.09 | -19.84 | -18.10 | -18.22 | -18.37 | -13.27 | -20.64 | -13.19 | -28.89 | -4.94  |
| -70.00 | 0.77   | -23.56 | -25.03 | -20.21 | -10.56 | -7.95  | -26.60 | -10.95 | -15.28 | -12.32 | -11.13 | -22.06 | -14.37 | -23.42 | -20.07 | -12.50 | -9.98  | -17.83 | -12.07 |
| -60.00 | -2.23  | -32.23 | -28.73 | -10.28 | -20.61 | -25.25 | -20.39 | -8.22  | -16.80 | -12.10 | -13.63 | -15.79 | -15.70 | -8.50  | -16.13 | -19.52 | -19.45 | -10.30 | 0.17   |
| -50.00 | -5.55  | -37.93 | -18.59 | -10.60 | -8.95  | -15.70 | -6.87  | -5.94  | -14.28 | -13.24 | -14.71 | -17.73 | -7.94  | -17.75 | -16.93 | -15.84 | -15.96 | -20.39 | -14.11 |
| -40.00 | -11.73 | -24.72 | -20.50 | -13.37 | -9.31  | -13.75 | -15.20 | -6.17  | -8.02  | -15.74 | -20.74 | -4.19  | -18.70 | -12.27 | -3.70  | -10.35 | -10.30 | -6.92  | -2.72  |
| -30.00 | -2.21  | -22.83 | -24.84 | -15.10 | -5.43  | -11.38 | -8.42  | -17.44 | -5.69  | -7.85  | -14.51 | -12.97 | -13.21 | -5.78  | -9.37  | -8.73  | -3.14  | -7.92  | -2.53  |
| -20.00 | 1.39   | -21.45 | -22.30 | -4.58  | -4.12  | -12.22 | -12.41 | 1.64   | -2.60  | -16.76 | -2.25  | -11.64 | -11.67 | -28.43 | -10.55 | -22.06 | -18.86 | -4.33  | 2.05   |
| -10.00 | 10.89  | 2.25   | 0.57   | 1.06   | 0.75   | -5.37  | 3.01   | 2.99   | -5.32  | -6.27  | -7.41  | -6.39  | -1.73  | -3.30  | -6.60  | -2.54  | 1.25   | 2.33   | 2.40   |
| -9.00  | 12.58  | 6.03   | 1.12   | -3.33  | -4.67  | -11.18 | -18.74 | -15.62 | -3.52  | 1.08   | -0.88  | 4.18   | -5.37  | -8.03  | -1.86  | 2.51   | 7.81   | 9.92   | 10.34  |
| -8.00  | 6.62   | 0.30   | -12.02 | -3.22  | -10.62 | -6.64  | -8.12  | 4.19   | 10.22  | 2.82   | 3.39   | -8.19  | -15.23 | 2.49   | 3.40   | -6.11  | 1.94   | 5.48   | 4.60   |
| -7.00  | 6.35   | 6.25   | -8.21  | 10.12  | 7.09   | 3.40   | 5.52   | 3.22   | 4.01   | 11.02  | 9.48   | 1.59   | -0.80  | -5.60  | 2.49   | 8.59   | 12.48  | 13.78  | 14.18  |
| -6.00  | 15.68  | 15.38  | 11.62  | 15.90  | 5.80   | 12.42  | 5.70   | 5.73   | -5.51  | 0.46   | 7.61   | 4.02   | 8.06   | 10.08  | 6.15   | 7.53   | 11.08  | 12.84  | 13.33  |
| -5.00  | 16.57  | 17.09  | 18.03  | -1.00  | 13.51  | 8.44   | 9.37   | 13.08  | 12.04  | 10.39  | 6.88   | 9.13   | 11.38  | 11.44  | 11.82  | 13.93  | 15.58  | 17.24  | 17.32  |
| -4.00  | 5.48   | 7.59   | 11.61  | 9.02   | 13.72  | 15.85  | 12.89  | 9.79   | 4.44   | 8.46   | 14.71  | 11.06  | 13.66  | 14.31  | 13.38  | 11.35  | 13.42  | 14.06  | 14.40  |
| -3.00  | 18.34  | 19.59  | 25.02  | 30.95  | 24.44  | 18.56  | 25.68  | 25.42  | 24.46  | 18.48  | 16.90  | 21.69  | 21.16  | 20.18  | 15.96  | 11.16  | 12.15  | 11.55  | 10.72  |
| -2.00  | 26.29  | 28.04  | 34.87  | 43.11  | 43.51  | 39.44  | 33.61  | 30.49  | 21.74  | 29.31  | 31.01  | 29.71  | 27.93  | 26.95  | 24.27  | 23.03  | 21.51  | 20.36  | 19.65  |
| -1.00  | 29.77  | 31.76  | 39.30  | 48.81  | 51.18  | 50.08  | 49.00  | 51.05  | 51.07  | 49.09  | 46.42  | 43.26  | 40.67  | 39.58  | 37.66  | 36.15  | 34.92  | 34.38  | 33.90  |
| 0.00   | 30.81  | 32.87  | 40.63  | 50.56  | 53.46  | 53.03  | 52.77  | 55.67  | 56.68  | 55.83  | 54.47  | 52.43  | 51.25  | 51.43  | 50.62  | 50.08  | 49.75  | 49.51  | 49.17  |
| 1.00   | 29.78  | 31.76  | 39.27  | 48.85  | 51.19  | 50.11  | 49.05  | 51.09  | 51.11  | 49.16  | 46.57  | 43.13  | 40.69  | 39.48  | 37.50  | 36.12  | 35.02  | 34.40  | 33.64  |
| 2.00   | 26.30  | 28.04  | 34.83  | 43.11  | 43.47  | 39.47  | 33.62  | 30.17  | 15.77  | 28.43  | 30.46  | 29.16  | 27.50  | 27.51  | 25.12  | 22.92  | 20.52  | 18.73  | 16.66  |
| 3.00   | 18.17  | 19.56  | 25.18  | 30.65  | 24.20  | 19.11  | 25.88  | 23.67  | 20.97  | 1.04   | 15.64  | 18.08  | 17.27  | 16.51  | 14.79  | 15.28  | 16.67  | 17.45  | 17.67  |
| 4.00   | 6.67   | 7.75   | 8.89   | 13.45  | 14.23  | 16.54  | 13.47  | -6.63  | 8.65   | 12.25  | 18.59  | 20.32  | 20.14  | 18.15  | 14.92  | 11.72  | 9.26   | 0.46   | -1.86  |
| 5.00   | 16.71  | 17.06  | 16.94  | -3.07  | 12.29  | 8.47   | 8.40   | 12.25  | 10.66  | 12.05  | 9.15   | -2.91  | 1.46   | 8.06   | 8.01   | 11.67  | 14.29  | 16.16  | 17.03  |
| 6.00   | 15.82  | 15.20  | 10.47  | 13.84  | -12.42 | 13.50  | 4.14   | 8.15   | -2.57  | 5.64   | 1.48   | -0.19  | 8.51   | 7.75   | 4.22   | 1.53   | 6.98   | 8.78   | 9.26   |
| 7.00   | 7.41   | 4.96   | -4.62  | 5.11   | 8.88   | -3.57  | 10.53  | 4.90   | 9.60   | 4.32   | -4.97  | 2.12   | -1.81  | -3.43  | -2.88  | 6.94   | 12.00  | 13.18  | 13.20  |
| 8.00   | 6.04   | 3.20   | -3.60  | -7.92  | -4.99  | -2.80  | -3.14  | 6.21   | 5.68   | -4.96  | 8.21   | 3.94   | -0.03  | -3.29  | -7.55  | 2.06   | 7.94   | 10.16  | 10.72  |
| 9.00   | 12.51  | 7.73   | 1.87   | 1.03   | 5.25   | 1.82   | -3.08  | -0.16  | 1.34   | 6.37   | 7.01   | 4.08   | -2.56  | -6.30  | -0.52  | 7.80   | 11.99  | 13.32  | 12.98  |
| 10.00  | 10.77  | 4.24   | -1.90  | 4.94   | 10.25  | -8.93  | -3.73  | -1.99  | -3.23  | 3.72   | 0.80   | -5.63  | -4.31  | -13.50 | 0.11   | 3.30   | 6.78   | 7.85   | 6.98   |
| 20.00  | 2.98   | -18.23 | -17.96 | -14.91 | -12.39 | -19.73 | -9.24  | -11.22 | -3.91  | -12.91 | -10.89 | -12.59 | -10.26 | -10.02 | -13.52 | -15.79 | -10.68 | -1.95  | 3.40   |
| 30.00  | -2.18  | -26.31 | -15.00 | -5.32  | -17.61 | -10.38 | -13.73 | -2.60  | -0.33  | -2.25  | -3.34  | -4.05  | -3.77  | -9.23  | -9.66  | -11.99 | -8.29  | -6.54  | -10.72 |
| 40.00  | -11.19 | -21.34 | -14.77 | -26.40 | -7.63  | 1.97   | -4.91  | 2.25   | -0.03  | -0.91  | -6.12  | -19.90 | -9.12  | -26.62 | -6.34  | -9.36  | -12.00 | -13.52 | -7.22  |
| 50.00  | -6.02  | -31.16 | -19.23 | -16.51 | -15.68 | -13.69 | -8.34  | -14.01 | -23.86 | -27.79 | -10.17 | -14.29 | -5.26  | -12.49 | -13.27 | -11.56 | -13.04 | -23.35 | -0.88  |
| 60.00  | -2.06  | -32.24 | -36.60 | -15.40 | -16.70 | -16.48 | -15.67 | -21.68 | -17.01 | -8.52  | -9.26  | -14.60 | -18.49 | -16.09 | -26.39 | -9.32  | -29.30 | -36.04 | -2.03  |
| 70.00  | 0.57   | -27.93 | -19.87 | -25.11 | -13.63 | -8.82  | -21.58 | -20.37 | -21.31 | -4.30  | -23.87 | -15.61 | -25.56 | -21.77 | -22.18 | -12.01 | -10.41 | -12.25 | -0.27  |
| 80.00  | -6.23  | -26.51 | -28.74 | -14.23 | -19.83 | -21.96 | -23.08 | -17.25 | -16.13 | -16.88 | -23.16 | -25.16 | -33.76 | -23.20 | -12.72 | -19.13 | -19.24 | -19.88 | -6.34  |
| 90.00  | -12.44 | -34.28 | -43.57 | -19.88 | -29.85 | -25.28 | -20.67 | -34.89 | -20.49 | -22.11 | -23.70 | -28.87 | -28.39 | -22.42 | -25.60 | -30.40 | -20.81 | -15.70 | -4.46  |

## RHCP, Cross-Pol, Azimuth

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -16.42 | -30.05 | -28.22 | -31.14 | -28.37 | -31.50 | -30.19 | -40.83 | -32.69 | -32.29 | -37.58 | -29.59 | -33.12 | -47.21 | -42.88 | -37.91 | -49.77 | -52.99 | -21.69 |
| -80.00 | -6.99  | -22.56 | -25.90 | -37.91 | -20.49 | -29.70 | -30.99 | -31.11 | -33.64 | -34.11 | -28.16 | -33.89 | -27.67 | -42.20 | -45.15 | -36.50 | -46.80 | -43.36 | -16.60 |
| -70.00 | -17.24 | -22.67 | -21.95 | -26.26 | -30.76 | -21.79 | -30.89 | -25.99 | -27.91 | -22.53 | -27.97 | -20.13 | -32.70 | -32.40 | -45.24 | -38.28 | -41.82 | -38.80 | -14.18 |
| -60.00 | -22.46 | -25.62 | -31.85 | -29.79 | -24.40 | -22.19 | -26.23 | -32.02 | -32.42 | -28.25 | -30.02 | -25.33 | -39.39 | -36.48 | -40.53 | -39.70 | -48.93 | -40.81 | -16.24 |
| -50.00 | -21.46 | -23.04 | -29.57 | -22.40 | -28.38 | -23.90 | -23.20 | -27.50 | -30.49 | -27.28 | -29.64 | -23.06 | -34.88 | -35.52 | -35.63 | -38.19 | -38.73 | -43.78 | -20.15 |
| -40.00 | -17.66 | -18.48 | -24.99 | -20.20 | -18.20 | -28.86 | -28.70 | -22.28 | -30.93 | -32.72 | -29.40 | -27.20 | -25.66 | -28.71 | -36.72 | -38.05 | -43.75 | -42.02 | -17.20 |
| -30.00 | -18.81 | -24.15 | -20.26 | -26.36 | -19.96 | -28.29 | -27.40 | -28.14 | -29.42 | -24.47 | -23.79 | -28.51 | -22.13 | -37.04 | -42.48 | -34.16 | -53.49 | -45.06 | -19.84 |
| -20.00 | -16.99 | -24.66 | -24.46 | -20.07 | -21.90 | -23.36 | -21.13 | -24.80 | -18.00 | -23.14 | -21.50 | -23.23 | -33.45 | -34.70 | -35.27 | -36.14 | -34.36 | -32.85 | -17.13 |
| -10.00 | -5.15  | -6.55  | -11.24 | -20.94 | -18.47 | -15.92 | -16.56 | -20.33 | -25.97 | -25.74 | -19.24 | -12.60 | -20.20 | -24.51 | -23.39 | -27.19 | -30.40 | -16.37 | -10.65 |
| -9.00  | -13.50 | -13.43 | -13.83 | -16.47 | -29.38 | -18.87 | -19.07 | -27.37 | -27.00 | -13.76 | -12.65 | -16.80 | -23.59 | -27.04 | -24.60 | -29.65 | -33.76 | -20.06 | -15.00 |
| -8.00  | -14.27 | -12.73 | -12.55 | -12.46 | -12.28 | -12.93 | -16.64 | -16.11 | -9.18  | -8.91  | -10.41 | -14.47 | -22.23 | -25.41 | -31.59 | -32.25 | -35.24 | -13.89 | -12.93 |
| -7.00  | -5.03  | -5.70  | -6.76  | -7.88  | -11.01 | -11.90 | -12.30 | -9.77  | -6.90  | -10.61 | -15.06 | -13.15 | -13.15 | -18.32 | -25.31 | -22.44 | -29.12 | -12.35 | -9.34  |
| -6.00  | -2.98  | -3.56  | -4.21  | -5.67  | -7.37  | -9.56  | -13.95 | -14.96 | -14.27 | -19.48 | -18.47 | -6.69  | -8.92  | -16.63 | -18.19 | -21.34 | -21.08 | -10.07 | -9.20  |
| -5.00  | -6.37  | -5.97  | -6.09  | -6.27  | -6.50  | -5.66  | -6.37  | -8.98  | -11.64 | -9.42  | -6.75  | -2.76  | -13.76 | -17.60 | -19.00 | -30.42 | -15.46 | -10.11 | -10.81 |
| -4.00  | -0.22  | -0.60  | -1.06  | -1.56  | -1.76  | 0.11   | 1.31   | 0.84   | -0.08  | -3.07  | -7.31  | -7.02  | -13.03 | -19.14 | -21.74 | -19.12 | -12.51 | -10.66 | -13.04 |
| -3.00  | 4.92   | 5.23   | 5.49   | 5.68   | 6.18   | 6.62   | 5.62   | 3.74   | 1.60   | -0.01  | -3.63  | -8.06  | -13.26 | -13.99 | -10.88 | -12.36 | -13.61 | -15.01 | -15.17 |
| -2.00  | 3.99   | 4.36   | 4.27   | 4.30   | 3.80   | 2.77   | 0.25   | -2.31  | -1.80  | -0.37  | 1.28   | 5.26   | -1.10  | -6.00  | -7.63  | -9.13  | -9.65  | -9.15  | -10.29 |
| -1.00  | -0.45  | -0.26  | 1.50   | 2.32   | 1.96   | 4.92   | 7.16   | 6.17   | 6.73   | 7.69   | 9.43   | 11.45  | 6.39   | 1.48   | -1.54  | -3.53  | -4.51  | -5.00  | -6.92  |
| 0.00   | 11.92  | 12.20  | 12.53  | 12.97  | 13.50  | 14.36  | 14.17  | 13.67  | 13.80  | 14.05  | 14.79  | 16.14  | 10.19  | 4.57   | 0.98   | -1.53  | -3.18  | -4.16  | -6.14  |
| 1.00   | 1.81   | 7.61   | 6.76   | 6.73   | 7.71   | 8.12   | 7.85   | 6.47   | 6.99   | 8.00   | 9.63   | 11.92  | 6.54   | 1.67   | -1.33  | -3.29  | -4.64  | -5.40  | -7.24  |
| 2.00   | 5.09   | 5.40   | 5.59   | 5.52   | 6.10   | 5.89   | 3.80   | 1.37   | 1.66   | 1.20   | 3.40   | 4.36   | -3.60  | -8.00  | -8.85  | -9.02  | -9.31  | -9.45  | -11.37 |
| 3.00   | -4.49  | -5.49  | -5.99  | -5.13  | -2.84  | 0.87   | 3.00   | 3.01   | 0.70   | -1.62  | 2.63   | 2.10   | -7.91  | -9.48  | -17.60 | -19.33 | -17.55 | -15.22 | -18.55 |
| 4.00   | -0.66  | 0.07   | 1.04   | 1.89   | 2.65   | 2.35   | -1.35  | -7.60  | -11.57 | -5.94  | -2.66  | -2.42  | -5.08  | -9.90  | -20.53 | -22.90 | -16.12 | -11.38 | -10.25 |
| 5.00   | -3.42  | -3.81  | -4.57  | -5.18  | -7.05  | -9.24  | -6.89  | -6.24  | -9.64  | -17.53 | -17.69 | -8.35  | -7.86  | -11.13 | -19.85 | -25.40 | -19.01 | -10.43 | -9.53  |
| 6.00   | -10.58 | -10.95 | -10.16 | -8.82  | -8.48  | -8.76  | -10.80 | -8.50  | -8.13  | -9.74  | -9.14  | -6.94  | -13.31 | -13.90 | -16.18 | -21.72 | -22.46 | -10.69 | -9.00  |
| 7.00   | -9.73  | -9.58  | -8.05  | -8.23  | -11.44 | -14.36 | -17.91 | -13.94 | -14.37 | -13.99 | -8.21  | -5.48  | -11.54 | -24.48 | -22.31 | -24.80 | -30.67 | -11.83 | -9.83  |
| 8.00   | -7.02  | -7.72  | -10.60 | -11.69 | -14.50 | -15.13 | -21.44 | -18.02 | -12.72 | -19.67 | -14.80 | -9.43  | -16.27 | -23.88 | -29.26 | -32.02 | -29.99 | -18.31 | -12.74 |
| 9.00   | -4.78  | -5.15  | -6.77  | -9.19  | -12.68 | -17.09 | -16.92 | -19.69 | -16.26 | -18.30 | -25.24 | -17.27 | -20.00 | -26.27 | -26.04 | -23.48 | -32.17 | -21.27 | -14.36 |
| 10.00  | -9.93  | -10.67 | -10.32 | -10.95 | -14.29 | -16.83 | -21.00 | -20.63 | -21.29 | -25.37 | -21.20 | -22.86 | -21.35 | -26.71 | -28.79 | -21.38 | -28.60 | -20.86 | -11.29 |
| 20.00  | -11.94 | -15.46 | -20.56 | -26.42 | -24.64 | -21.74 | -17.29 | -24.19 | -13.95 | -26.26 | -26.94 | -22.85 | -26.81 | -35.22 | -35.43 | -33.81 | -32.98 | -33.12 | -17.48 |
| 30.00  | -17.61 | -19.27 | -22.57 | -26.63 | -22.91 | -26.61 | -22.80 | -26.28 | -19.13 | -21.49 | -23.51 | -27.05 | -24.97 | -29.64 | -43.14 | -31.09 | -37.23 | -41.33 | -23.20 |
| 40.00  | -17.22 | -19.17 | -25.41 | -22.25 | -21.65 | -20.62 | -22.19 | -21.79 | -25.32 | -18.90 | -21.68 | -25.81 | -26.98 | -26.95 | -31.45 | -36.73 | -38.10 | -34.60 | -16.86 |
| 50.00  | -13.83 | -28.78 | -24.14 | -21.62 | -23.16 | -22.67 | -27.26 | -21.88 | -31.70 | -25.92 | -31.68 | -23.58 | -29.09 | -38.58 | -32.61 | -43.66 | -38.06 | -48.05 | -19.81 |
| 60.00  | -24.74 | -21.53 | -28.21 | -22.30 | -28.44 | -30.15 | -34.10 | -26.39 | -22.28 | -35.13 | -30.49 | -26.62 | -27.40 | -38.46 | -44.43 | -36.75 | -47.21 | -40.45 | -17.56 |
| 70.00  | -20.99 | -18.43 | -20.34 | -24.52 | -27.58 | -28.70 | -32.42 | -33.58 | -29.39 | -22.75 | -29.13 | -25.26 | -41.66 | -30.93 | -37.86 | -49.35 | -41.23 | -38.06 | -16.80 |
| 80.00  | -18.17 | -28.40 | -24.97 | -28.24 | -25.68 | -28.76 | -28.78 | -36.64 | -34.47 | -32.68 | -33.67 | -27.22 | -48.20 | -40.96 | -41.87 | -33.60 | -44.27 | -40.57 | -15.83 |
| 90.00  | -22.34 | -26.88 | -33.24 | -35.76 | -33.22 | -38.00 | -31.22 | -45.06 | -38.01 | -37.43 | -35.20 | -31.68 | -42.28 | -42.59 | -44.68 | -33.26 | -46.68 | -46.86 | -20.70 |

## RHCP, Cross-Pol, Elevation

|        | 0      | 5      | 10     | 15     | 20     | 25     | 30     | 35     | 40     | 45     | 50     | 55     | 60     | 65     | 70     | 75     | 80     | 85     | 90     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -90.00 | -18.69 | -49.92 | -39.87 | -19.78 | -24.35 | -32.72 | -24.47 | -24.05 | -29.64 | -24.53 | -26.06 | -36.10 | -27.19 | -28.50 | -25.37 | -28.14 | -25.16 | -26.88 | -13.36 |
| -80.00 | -13.60 | -40.29 | -36.91 | -18.36 | -26.61 | -27.71 | -19.02 | -28.35 | -20.22 | -26.35 | -27.01 | -26.38 | -27.99 | -26.70 | -17.49 | -34.91 | -22.83 | -19.39 | -3.93  |
| -70.00 | -11.18 | -35.73 | -31.92 | -20.15 | -26.71 | -17.90 | -24.05 | -14.60 | -20.03 | -14.76 | -21.28 | -21.25 | -27.89 | -18.79 | -27.76 | -23.26 | -18.89 | -19.50 | -14.18 |
| -60.00 | -13.24 | -37.74 | -39.04 | -21.56 | -22.00 | -21.98 | -30.75 | -19.79 | -22.08 | -20.49 | -25.79 | -27.29 | -23.23 | -19.19 | -21.40 | -26.79 | -28.78 | -22.45 | -19.40 |
| -50.00 | -17.15 | -40.71 | -28.84 | -20.06 | -17.10 | -21.03 | -26.24 | -17.52 | -21.70 | -19.52 | -23.86 | -22.77 | -20.20 | -20.90 | -25.38 | -19.40 | -26.51 | -19.87 | -18.40 |
| -40.00 | -14.20 | -38.95 | -33.86 | -19.91 | -18.18 | -14.22 | -17.01 | -21.66 | -21.46 | -24.96 | -24.29 | -17.55 | -25.70 | -25.86 | -15.20 | -17.20 | -21.93 | -15.31 | -14.60 |
| -30.00 | -16.84 | -41.99 | -43.60 | -16.03 | -23.94 | -22.54 | -13.48 | -22.98 | -15.85 | -16.71 | -22.78 | -23.40 | -24.40 | -25.29 | -16.96 | -23.36 | -17.19 | -20.98 | -15.75 |
| -20.00 | -14.13 | -29.78 | -24.47 | -18.00 | -16.74 | -20.20 | -24.80 | -17.70 | -13.55 | -15.38 | -11.36 | -20.07 | -18.13 | -20.36 | -18.90 | -17.07 | -21.39 | -21.49 | -13.93 |
| -10.00 | -7.65  | -13.31 | -20.50 | -9.06  | -4.86  | -10.01 | -11.56 | -7.06  | -11.30 | -17.98 | -19.34 | -15.60 | -13.56 | -12.92 | -15.47 | -17.94 | -8.18  | -3.38  | -2.09  |
| -9.00  | -12.00 | -16.99 | -23.87 | -11.51 | -6.07  | -12.54 | -14.95 | -11.27 | -4.71  | -6.00  | -20.37 | -22.64 | -16.07 | -15.87 | -26.38 | -13.47 | -10.76 | -10.26 | -10.44 |
| -8.00  | -9.93  | -10.82 | -25.35 | -14.12 | -13.05 | -10.92 | -13.58 | -8.93  | -2.47  | -1.14  | -2.55  | -11.37 | -13.64 | -9.93  | -9.28  | -9.46  | -9.49  | -9.56  | -11.21 |
| -7.00  | -6.34  | -9.28  | -19.22 | -4.31  | -6.78  | -3.83  | -4.50  | -7.61  | -7.12  | -2.85  | -0.27  | -5.04  | -9.30  | -8.90  | -8.01  | -4.88  | -3.69  | -2.53  | -1.97  |
| -6.00  | -6.20  | -7.01  | -11.18 | -3.21  | 0.35   | -2.13  | -0.27  | -1.15  | -10.53 | -11.72 | -7.63  | -10.22 | -10.95 | -6.56  | -4.37  | -2.67  | -1.14  | -0.39  | 0.08   |
| -5.00  | -7.81  | -7.04  | -5.57  | -12.28 | -0.47  | -3.10  | -5.11  | 2.78   | 1.19   | -1.66  | -5.01  | -4.25  | -3.37  | -2.66  | -3.50  | -3.27  | -3.02  | -2.80  | -3.31  |
| -4.00  | -10.04 | -7.59  | -2.61  | -0.99  | -3.20  | -4.64  | -4.39  | -1.48  | 0.63   | 4.69   | 6.55   | 5.57   | 4.31   | 3.11   | 1.24   | 1.44   | 2.01   | 2.57   | 2.84   |
| -3.00  | -12.17 | -11.94 | -3.71  | 5.77   | 7.66   | 0.51   | -4.61  | -2.52  | 4.31   | 7.75   | 8.23   | 8.47   | 8.62   | 9.62   | 9.18   | 8.67   | 8.56   | 8.40   | 7.98   |
| -2.00  | -7.29  | -6.08  | 0.24   | 9.00   | 10.91  | 8.50   | 7.55   | 10.80  | 9.22   | 7.39   | 4.84   | 2.43   | 3.25   | 5.77   | 6.80   | 7.30   | 7.33   | 7.53   | 7.05   |
| -1.00  | -3.92  | -1.94  | 5.39   | 14.61  | 17.00  | 15.97  | 15.04  | 16.99  | 17.37  | 15.46  | 13.37  | 10.91  | 10.16  | 7.92   | 4.96   | 5.32   | 4.56   | 2.91   | 2.61   |
| 0.00   | -3.14  | -1.09  | 6.72   | 16.61  | 19.51  | 19.07  | 18.83  | 21.68  | 22.73  | 21.81  | 20.43  | 18.40  | 17.17  | 17.36  | 16.50  | 15.97  | 15.60  | 15.37  | 14.98  |
| 1.00   | -4.24  | -2.33  | 5.26   | 14.85  | 17.21  | 16.17  | 15.18  | 17.45  | 17.57  | 15.76  | 13.63  | 11.21  | 10.85  | 11.12  | 10.71  | 9.73   | 9.82   | 10.78  | 4.87   |
| 2.00   | -8.37  | -6.38  | 0.58   | 9.12   | 9.69   | 6.50   | 5.05   | 9.89   | 11.35  | 8.96   | 8.29   | 6.11   | 6.80   | 8.89   | 9.10   | 8.52   | 8.66   | 8.57   | 8.15   |
| 3.00   | -15.55 | -12.15 | -7.66  | -1.20  | 0.93   | 5.02   | 0.73   | 7.63   | 10.57  | 6.15   | 7.34   | 7.75   | 6.00   | 3.87   | 0.16   | -2.13  | -2.92  | -2.32  | -1.43  |
| 4.00   | -7.25  | -8.31  | -6.22  | -4.77  | -1.99  | 4.59   | 3.57   | 3.12   | 5.28   | 1.83   | -4.93  | -2.87  | 1.65   | 5.35   | 5.65   | 4.89   | 4.11   | 3.24   | 2.40   |
| 5.00   | -6.53  | -7.36  | -9.11  | -7.27  | -1.31  | 3.37   | 0.79   | -2.81  | -9.75  | -9.77  | -3.01  | -1.50  | -3.89  | -6.24  | -4.05  | -2.18  | -1.51  | -0.64  | -0.36  |
| 6.00   | -6.00  | -7.62  | -12.56 | -3.58  | 2.36   | 0.59   | -4.67  | -1.41  | -1.20  | -1.98  | -1.49  | -3.77  | -7.80  | -5.76  | -5.48  | -5.82  | -7.09  | -7.78  | -7.52  |
| 7.00   | -6.83  | -8.76  | -20.77 | -6.67  | -3.77  | -9.98  | -2.89  | 0.06   | -0.27  | -6.23  | -7.74  | -9.20  | -14.91 | -11.36 | -8.44  | -5.23  | -4.98  | -6.41  | -6.67  |
| 8.00   | -9.74  | -15.24 | -20.09 | -13.89 | -10.73 | -9.39  | -7.62  | -3.90  | -6.86  | -11.91 | -6.08  | -13.28 | -18.44 | -12.13 | -11.50 | -8.69  | -7.54  | -4.55  | -3.96  |
| 9.00   | -11.36 | -18.20 | -22.28 | -5.34  | -7.50  | -11.77 | -11.35 | -11.73 | -17.30 | -10.53 | -9.63  | -14.96 | -13.92 | -14.09 | -9.68  | -6.19  | -3.71  | -1.98  | -1.72  |
| 10.00  | -8.29  | -17.79 | -18.70 | -3.25  | -10.26 | -12.22 | -12.71 | -17.33 | -13.26 | -17.60 | -14.66 | -15.90 | -18.00 | -13.83 | -11.29 | -7.95  | -7.26  | -7.50  | -6.87  |
| 20.00  | -14.48 | -30.05 | -23.08 | -15.68 | -16.90 | -20.72 | -18.17 | -17.32 | -19.00 | -18.50 | -7.32  | -19.45 | -14.29 | -18.74 | -21.64 | -23.42 | -17.49 | -12.29 | -8.88  |
| 30.00  | -20.20 | -38.26 | -27.33 | -12.95 | -24.61 | -15.14 | -16.33 | -21.51 | -15.57 | -13.72 | -12.50 | -21.55 | -19.80 | -23.61 | -19.91 | -23.63 | -19.51 | -16.10 | -14.55 |
| 40.00  | -13.86 | -31.53 | -28.20 | -18.60 | -12.92 | -12.45 | -18.33 | -20.27 | -13.74 | -11.14 | -18.69 | -17.06 | -19.19 | -17.62 | -18.65 | -19.25 | -22.34 | -16.00 | -14.16 |
| 50.00  | -16.81 | -44.98 | -28.16 | -25.53 | -14.08 | -24.08 | -20.45 | -18.05 | -23.74 | -18.15 | -25.07 | -17.15 | -24.26 | -19.67 | -20.16 | -18.62 | -21.08 | -25.61 | -10.77 |
| 60.00  | -14.56 | -37.38 | -37.31 | -18.62 | -25.89 | -23.97 | -18.76 | -21.08 | -22.55 | -27.37 | -15.65 | -21.65 | -31.10 | -27.15 | -25.44 | -19.30 | -25.15 | -18.36 | -21.68 |
| 70.00  | -13.80 | -35.00 | -31.34 | -31.22 | -19.33 | -16.43 | -33.01 | -19.72 | -21.19 | -14.99 | -22.76 | -28.84 | -29.42 | -25.70 | -24.58 | -21.52 | -17.28 | -15.26 | -17.93 |
| 80.00  | -12.83 | -37.50 | -34.38 | -15.47 | -23.33 | -26.46 | -39.55 | -21.68 | -25.73 | -24.92 | -27.83 | -31.91 | -25.78 | -25.76 | -22.68 | -25.24 | -21.90 | -25.23 | -15.11 |
| 90.00  | -17.70 | -43.79 | -36.79 | -15.13 | -26.14 | -28.09 | -33.63 | -26.14 | -27.26 | -29.66 | -31.38 | -40.32 | -28.22 | -35.00 | -30.22 | -32.76 | -30.17 | -23.71 | -19.28 |