

Tab. 01 – SIEĆ WODOCIĄGOWA – raport kątów

| Nazwa węzła | Kąt poziomy [°] | Kąt poziomy - zaokrąglony | Kąt pionowy [°] | Kąt pionowy - zaokrąglony | 11.25° | 22.5° | 30° | 45° | 90° |
|-------------|-----------------|-------------------------------|-----------------|---------------------------|--------|-------|-----|-----|-----|
| W74 | 26.72 | 22.50 | 0.96 | | | 1 | | | |
| W70 | 25.80 | 22.50 | 0.00 | | | 1 | | | |
| W9.0 | 3.21 | | 0.26 | | | | | | |
| W13.7.1 | 0.50 | | 0.00 | | | | | | |
| W66 | 31.19 | 30.00 | 0.21 | | | | 1 | | |
| W18.6.1 | 47.08 | 45.00 | 0.00 | | | | | 1 | |
| W18.4.2 | 46.34 | 45.00 | 0.00 | | | | | 1 | |
| W82 | 31.14 | 30.00 | 27.38 | 30.00 | | | 2 | | |
| W18.10 | 19.31 | 22.50 | 0.76 | | | 1 | | | |
| W18.25.1 | 46.97 | 45.00 | 0.00 | | | | | 1 | |
| W18.19 | 20.48 | 22.50 | 0.02 | | | 1 | | | |
| W12.1 | 20.52 | 22.50 | 5.53 | 11.25 | 1 | 1 | | | |
| W41 | 34.95 | 30.00 | 0.61 | | | | 1 | | |
| W8.1 | 19.18 | 22.50 | 0.00 | | | 1 | | | |
| W18.1 | 41.89 | 45.00 | 0.33 | | | | | 1 | |
| W18.26 | 88.79 | 90.00 | 2.65 | | | | | | 1 |
| W18.29.3 | 84.71 | 86.25 (45.00 + 30.00 + 11.25) | 0.00 | | 1 | | 1 | 1 | |
| W62 | 35.57 | 30.00 | 0.00 | | | | 1 | | |
| W13.13.1 | 79.48 | 75.00 (45.00 + 30.00) | 0.00 | | | | 1 | 1 | |
| W61 | 32.57 | 30.00 | 0.00 | | | | 1 | | |
| W10a | 42.40 | 45.00 | 0.00 | | | | | 1 | |
| W26 | 90.82 | 90.00 | 1.81 | | | | | | 1 |
| W18.8 | 23.47 | 22.50 | 0.73 | | | 1 | | | |
| W18.15.1 | 14.90 | 11.25 | 0.00 | | 1 | | | | |
| W30 | 29.04 | 30.00 | 25.03 | 22.50 | | 1 | 1 | | |
| W25.3 | 91.17 | 90.00 | 2.43 | | | | | | 1 |
| W50 | 33.36 | 30.00 | 0.88 | | | | 1 | | |
| W18.7 | 21.53 | 22.50 | 0.88 | | | 1 | | | |
| W53 | 35.13 | 30.00 | 0.00 | | | | 1 | | |
| W45 | 38.60 | 41.25 (30.00 + 11.25) | 17.11 | 22.50 | 1 | 1 | 1 | | |
| W13.10 | 13.78 | 11.25 | 0.22 | | 1 | | | | |
| W11.1 | 57.30 | 56.25 (45.00 + 11.25) | 1.81 | | 1 | | | 1 | |
| W78 | 33.93 | 30.00 | 1.07 | | | | 1 | | |
| W22 | 78.17 | 75.00 (45.00 + 30.00) | 0.40 | | | | 1 | 1 | |
| W13.4 | 35.14 | 30.00 | 0.00 | | | | 1 | | |
| W33 | 40.70 | 45.00 | 1.34 | | | | | 1 | |
| W18.28.2 | 17.19 | 22.50 | 0.00 | | | 1 | | | |
| W18.25.2 | 36.61 | 41.25 (30.00 + 11.25) | 0.00 | | 1 | | 1 | | |
| W13.8.1 | 22.53 | 22.50 | 0.00 | | | 1 | | | |
| W18.23.1 | 18.90 | 22.50 | 0.98 | | | 1 | | | |
| W58 | 34.32 | 30.00 | 0.44 | | | | 1 | | |
| W18.24.2 | 10.49 | 11.25 | 1.71 | | 1 | | | | |
| W13.14 | 84.23 | 86.25 (45.00 + 30.00 + 11.25) | 1.21 | | 1 | | 1 | 1 | |
| W38 | 41.90 | 45.00 | 0.00 | | | | | 1 | |
| W6 | 33.27 | 30.00 | 0.47 | | | | 1 | | |
| W17 | 41.77 | 45.00 | 1.05 | | | | | 1 | |
| W54 | 36.77 | 41.25 (30.00 + 11.25) | 0.00 | | 1 | | 1 | | |
| W18.16 | 21.88 | 22.50 | 3.10 | | | 1 | | | |

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|------------------|-------|-----------------------|-------|-------|---|---|---|---|---|
| W18.11.1 | 28.99 | 30.00 | 0.00 | | | | 1 | | |
| W18.29.2 | 85.41 | 90.00 | 0.00 | | | | | | 1 |
| W18.9 | 17.87 | 22.50 | 0.76 | | | 1 | | | |
| W18.28.1 | 23.30 | 22.50 | 0.00 | | | 1 | | | |
| W18.18 | 19.08 | 22.50 | 1.87 | | | 1 | | | |
| W37 | 50.42 | 52.50 (30.00 + 22.50) | 0.00 | | | 1 | 1 | | |
| W18.17 | 23.39 | 22.50 | 1.82 | | | 1 | | | |
| W49 | 41.76 | 45.00 | 0.21 | | | | | 1 | |
| W9a | 8.74 | 11.25 | 0.00 | | 1 | | | | |
| W65 | 29.98 | 30.00 | 0.64 | | | | 1 | | |
| W13.5 | 26.95 | 22.50 | 0.00 | | | 1 | | | |
| W20 | 91.02 | 90.00 | 2.37 | | | | | | 1 |
| W69 | 33.66 | 30.00 | 0.00 | | | | 1 | | |
| W18.2 | 89.81 | 90.00 | 0.10 | | | | | | 1 |
| W42 | 39.31 | 41.25 (30.00 + 11.25) | 1.39 | | 1 | | 1 | | |
| W13.6 | 26.83 | 22.50 | 0.17 | | | 1 | | | |
| W25.2 | 90.12 | 90.00 | 0.00 | | | | | | 1 |
| W18.23.2 | 33.53 | 30.00 | 2.22 | | | | 1 | | |
| W73 | 42.75 | 45.00 | 0.64 | | | | | 1 | |
| W10.1 | 0.54 | | 1.02 | | | | | | |
| W34 | 36.79 | 41.25 (30.00 + 11.25) | 0.34 | | 1 | | 1 | | |
| W9.1 | 2.78 | | 0.08 | | | | | | |
| W46 | 34.59 | 30.00 | 22.84 | 22.50 | | 1 | 1 | | |
| W77 | 35.67 | 30.00 | 0.47 | | | | 1 | | |
| W15.1 | 34.53 | 30.00 | 2.46 | | | | 1 | | |
| W57 | 40.77 | 45.00 | 0.33 | | | | | 1 | |
| W4 | 90.10 | 90.00 | 0.00 | | | | | | 1 |
| W29 | 25.88 | 22.50 | 25.75 | 22.50 | | 2 | | | |
| W13.3 | 34.65 | 30.00 | 0.00 | | | | 1 | | |
| W18.29.1 | 19.24 | 22.50 | 0.00 | | | 1 | | | |
| W13.11 | 9.54 | 11.25 | 0.42 | | 1 | | | | |
| W18.22 | 88.79 | 90.00 | 1.31 | | | | | | 1 |
| W13.7.2 | 17.16 | 22.50 | 0.00 | | | 1 | | | |
| W18.4.1 | 46.34 | 45.00 | 0.00 | | | | | 1 | |
| W18.24.1 | 18.44 | 22.50 | 0.00 | | | 1 | | | |
| W5 | 33.59 | 30.00 | 0.00 | | | | 1 | | |
| W81 | 37.21 | 41.25 (30.00 + 11.25) | 17.74 | 22.50 | 1 | 1 | 1 | | |
| W9 | | | | | | | | | |
| ===== | | | | | | | | | |
| Całość - Poziomo | | | | | | | | | |
| 11.25 | 14 | | | | | | | | |
| 22.50 | 23 | | | | | | | | |
| 30.00 | 32 | | | | | | | | |
| 45.00 | 17 | | | | | | | | |
| 90.00 | 9 | | | | | | | | |
| ===== | | | | | | | | | |
| Całość - Pionowo | | | | | | | | | |
| 11.25 | 1 | | | | | | | | |
| 22.50 | 5 | | | | | | | | |
| 30.00 | 1 | | | | | | | | |