

STORAGE TANK INSPECTION

ID: 53
LOCATION: HAIFA
SURVEY: 24.07.2025

נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322



Storage tank definition:

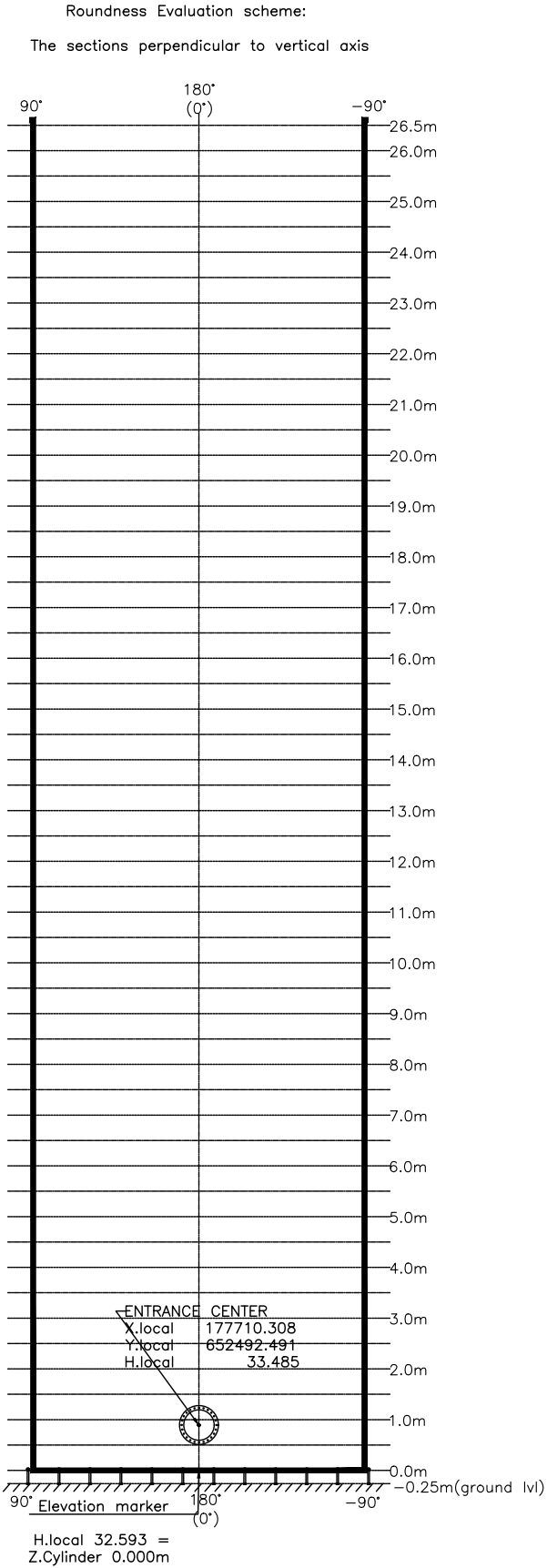
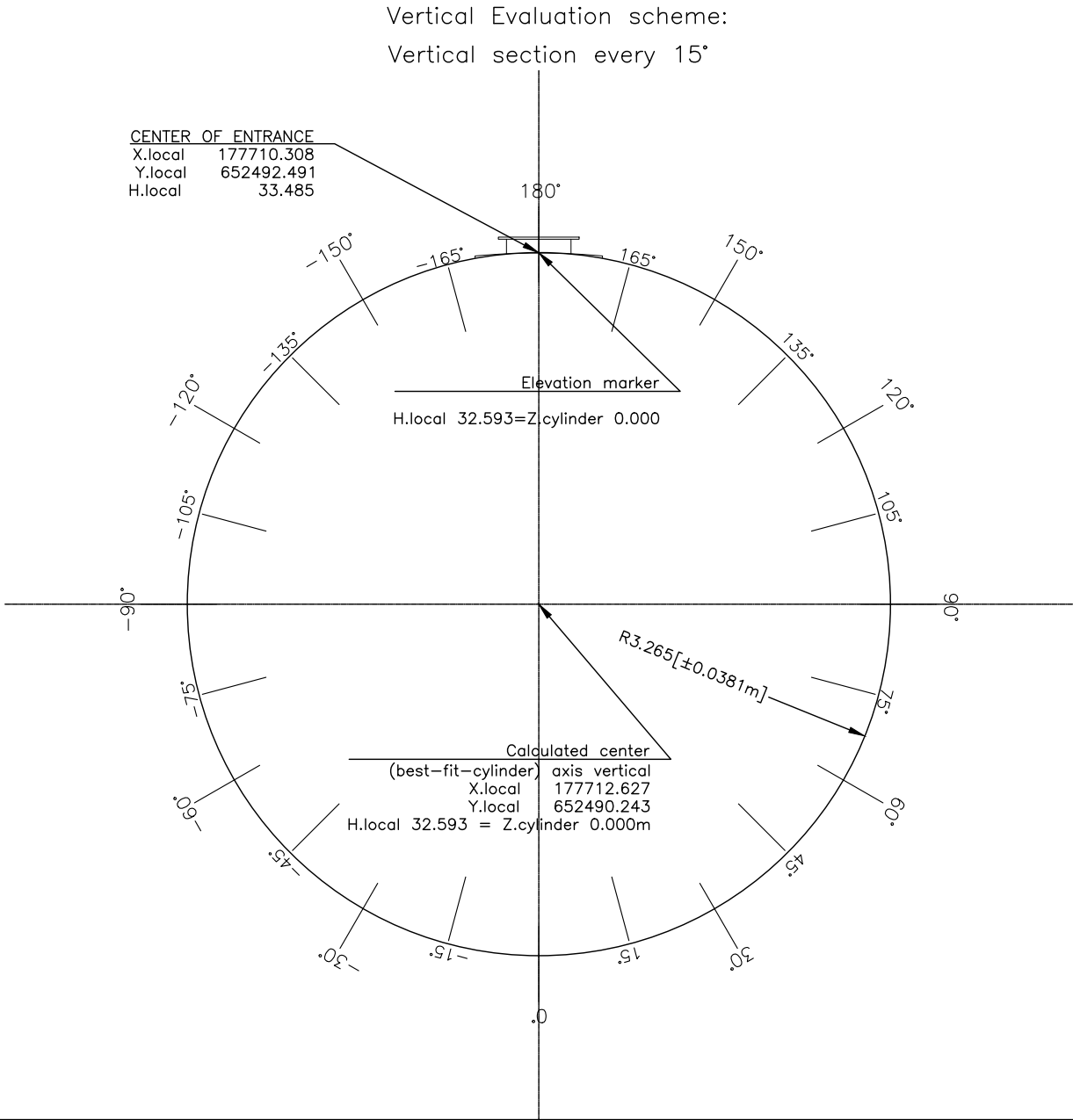
Reference cylinder, obtained by interpolation of average measurements:
radius 3.265m (standard deviation 0.013m, distance of worst point 0.064m)

Tolerances are computed according to API653. (Acceptable radius [3.227m:3.303m]
Acceptable tolerance less than [± 0.038 m])

Measured plumbness from vertical – 0.019m

Inspection height from zero marker –26.7m

Surface 544 m²

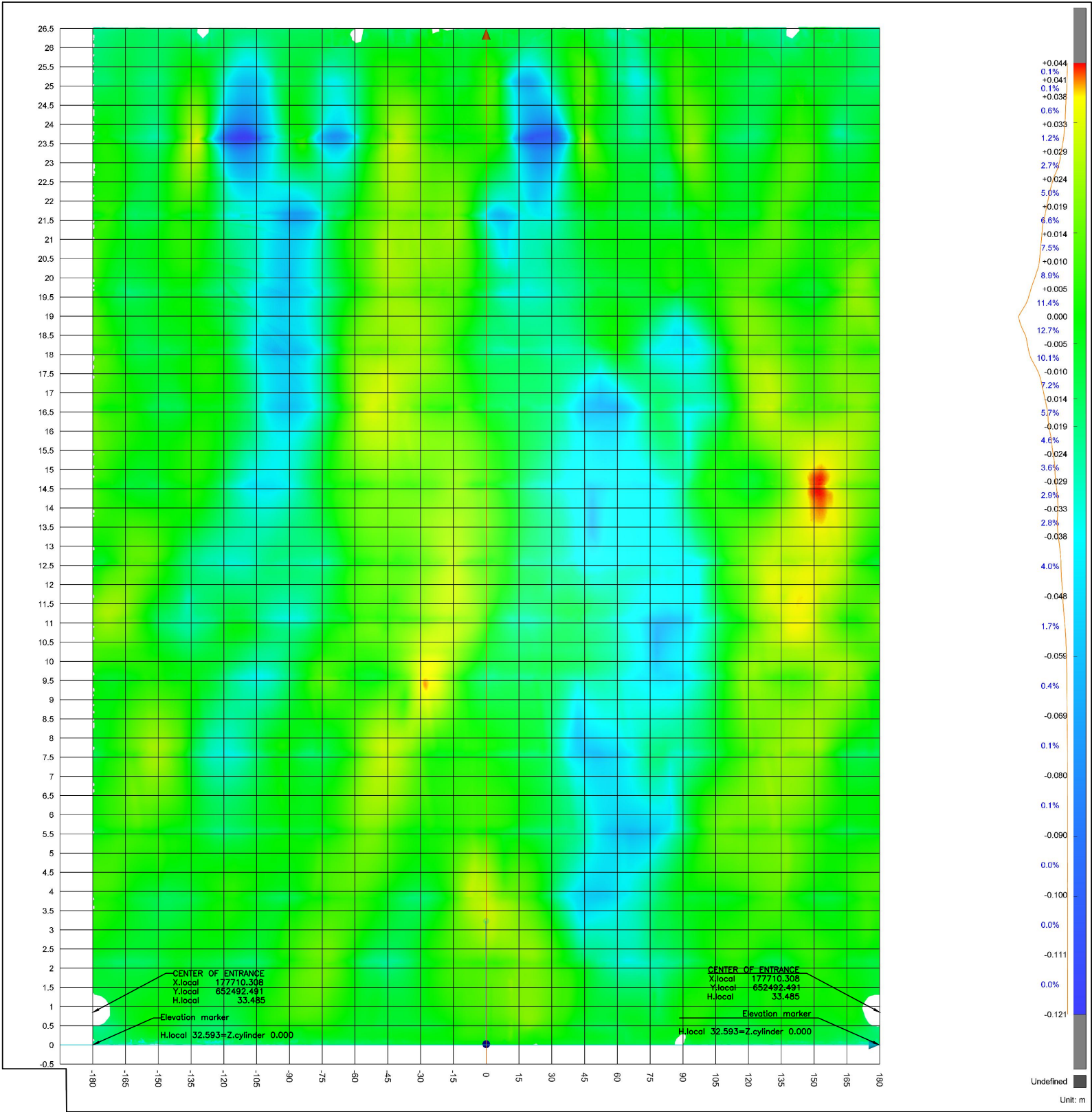


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Inspection schemes

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EVALUATION INSPECTION MAP COLORED SMOOTH – UNROLLED

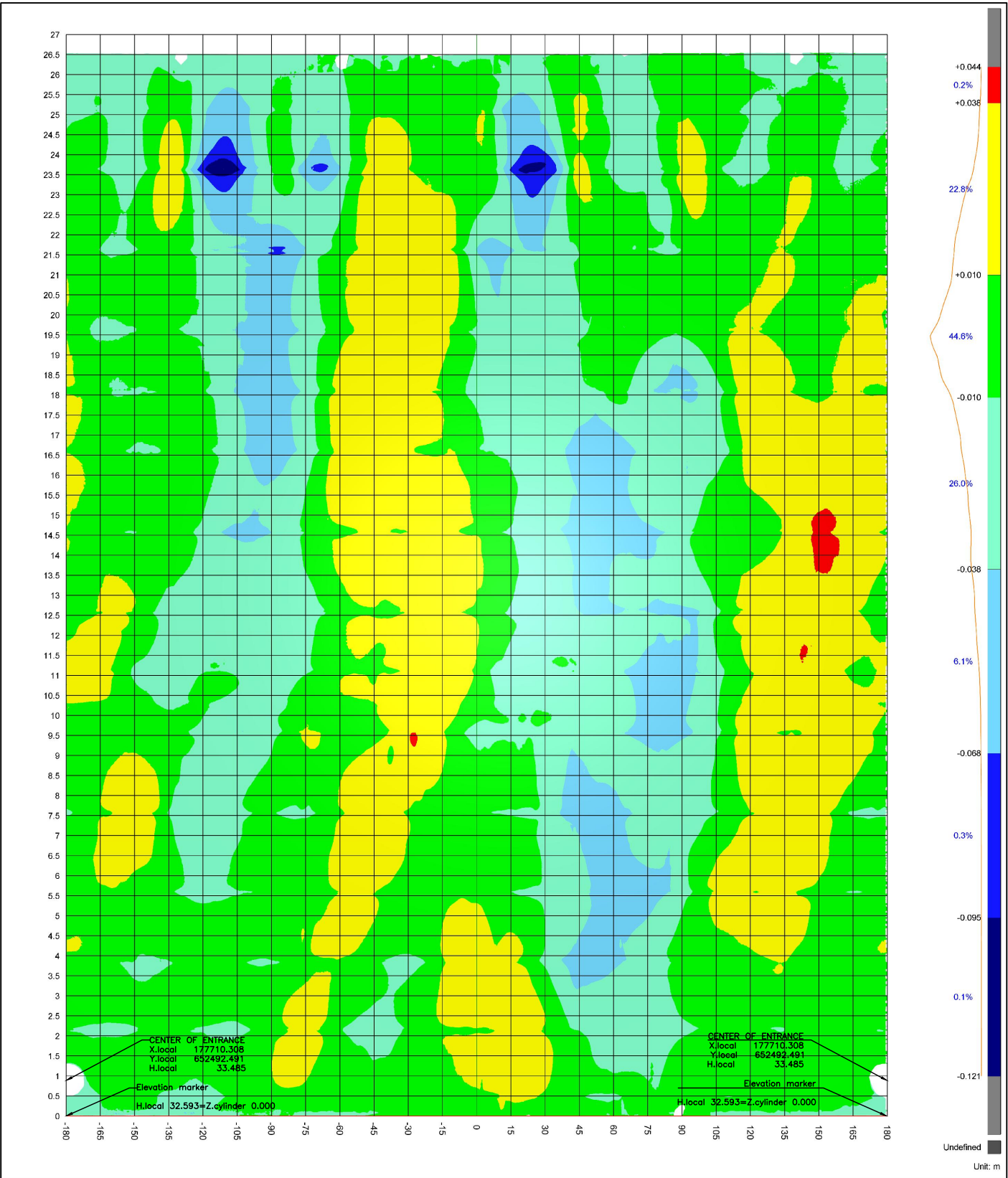


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EVALUATION MAP scheme smooth

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EVALUATION INSPECTION MAP COLORED CONTRAST – UNROLLED



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EVALUATION MAP scheme contrast

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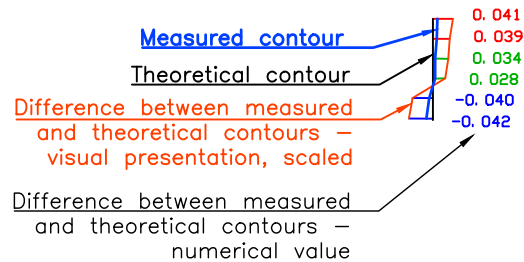
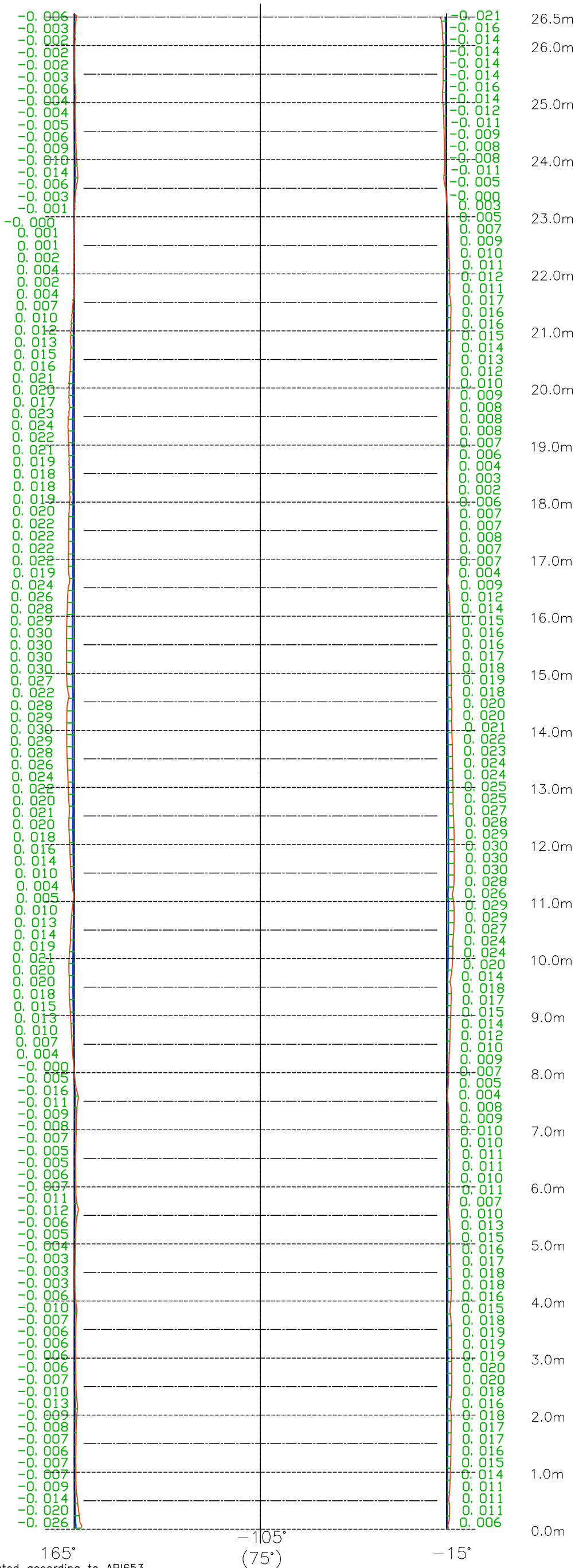
VISUAL INSPECTION MAP – UNROLLED



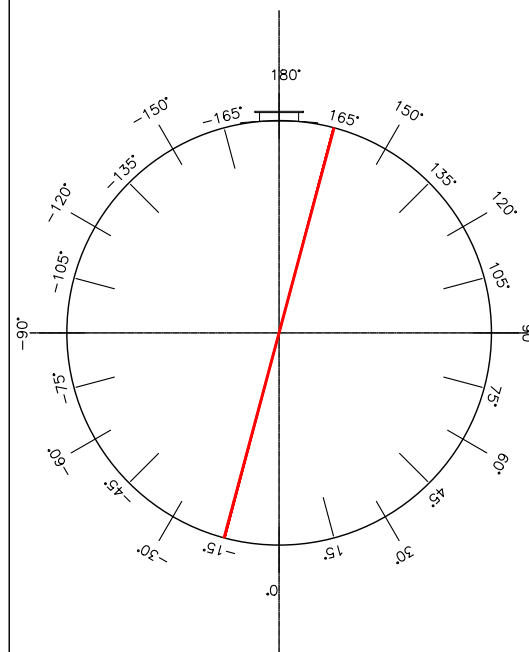
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Visual Inspection scheme

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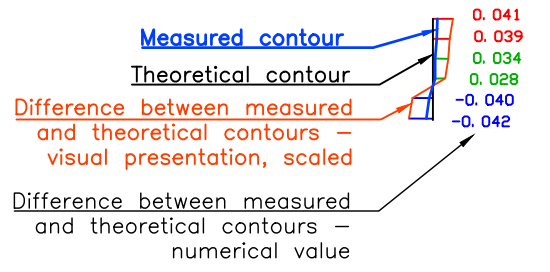
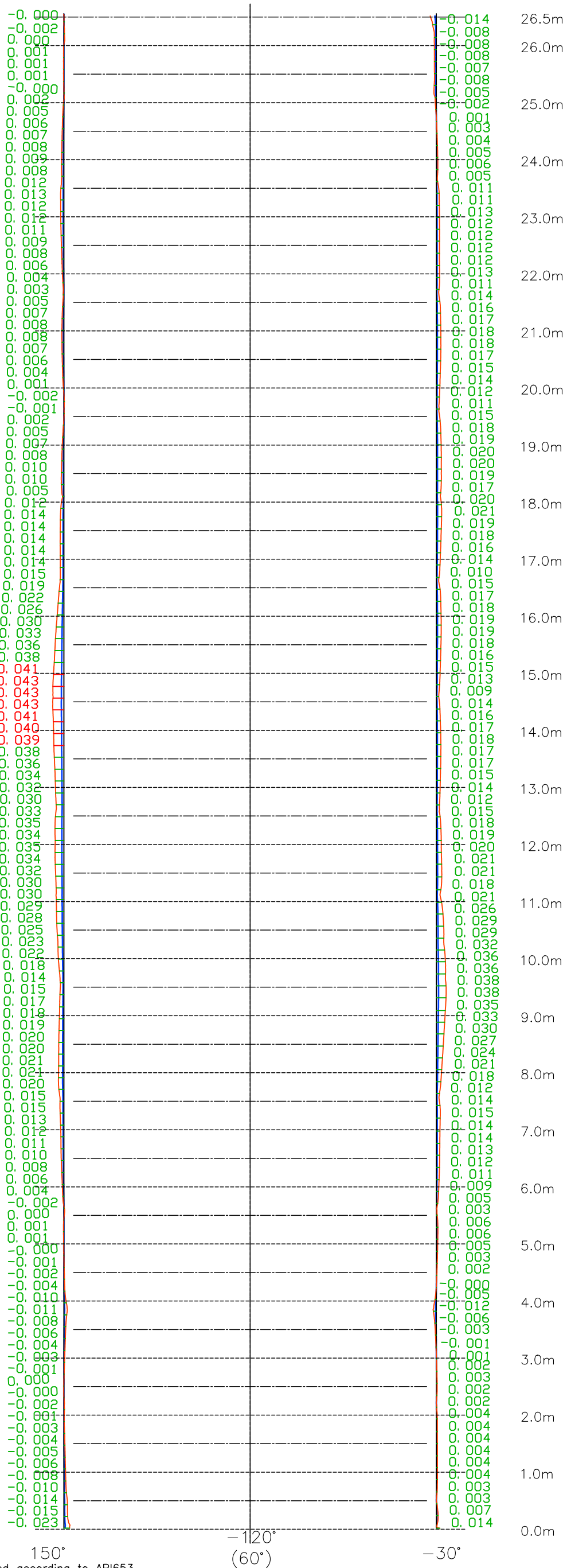


Vertical evaluation
Crossection angle 165°-15°

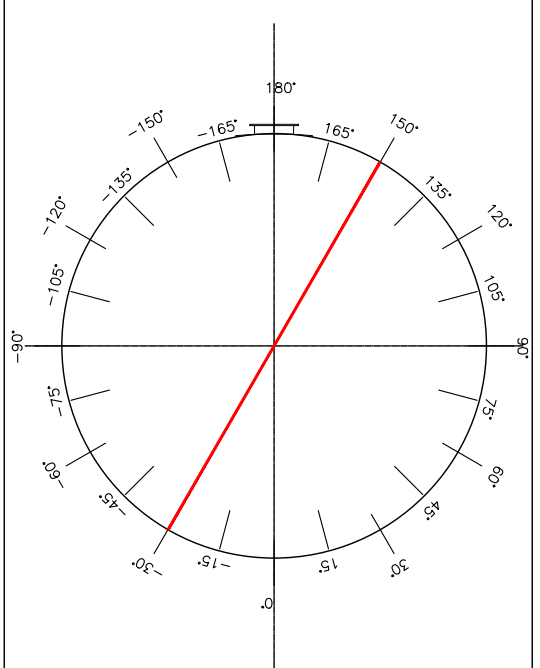
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Tolerances are computed according to API653,
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [$\pm 0.0381\text{m}$]

Internal file:
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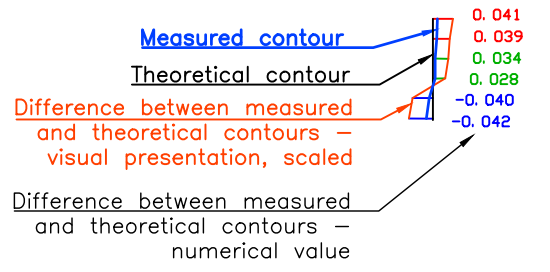
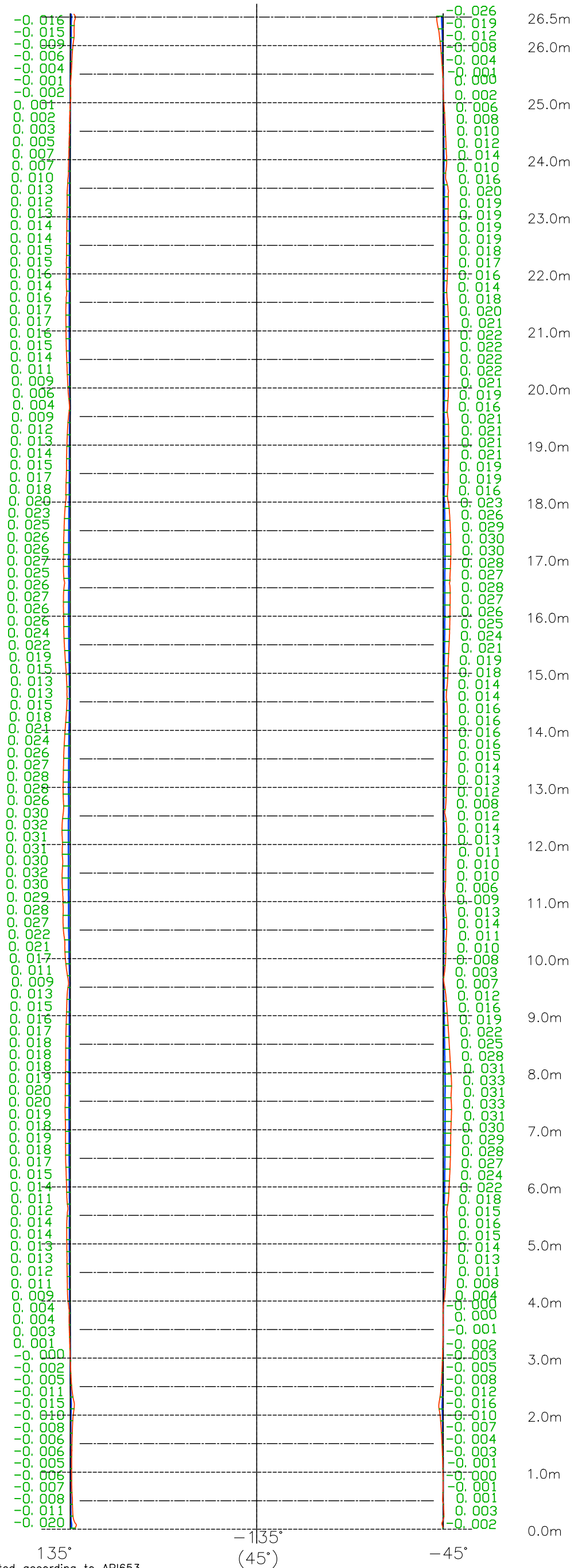
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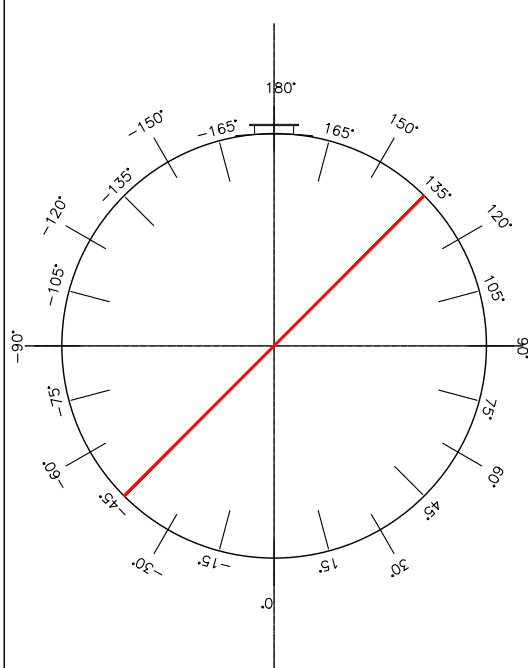
Vertical evaluation
Crossection angle 150°-30°

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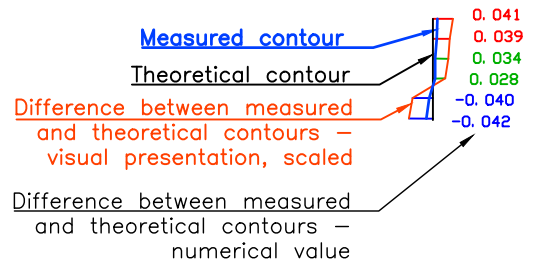
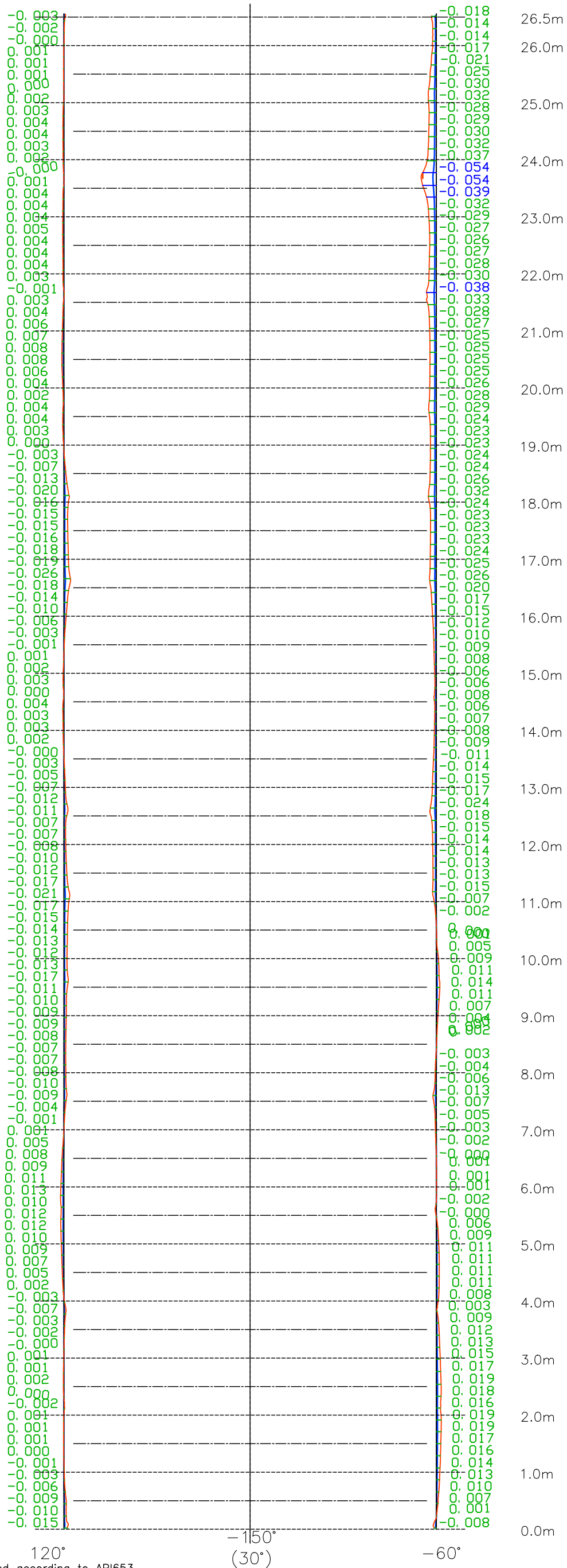
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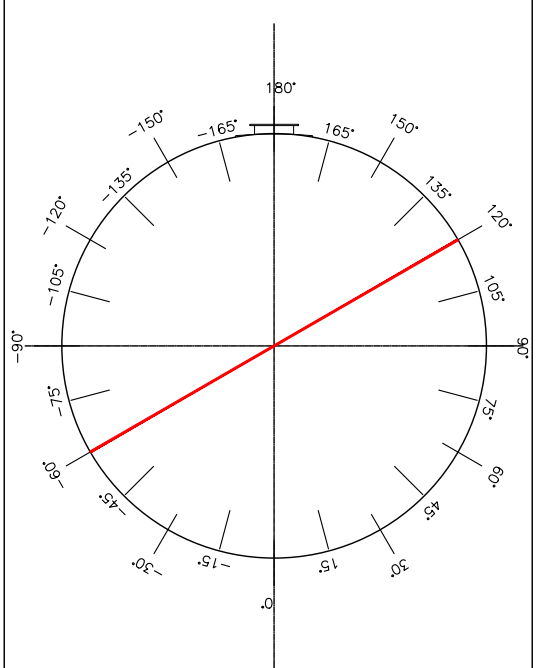
Vertical evaluation
Crossection angle 135°-45°

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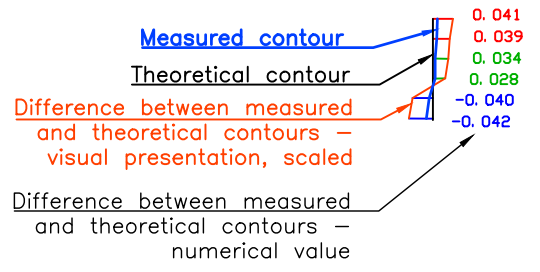
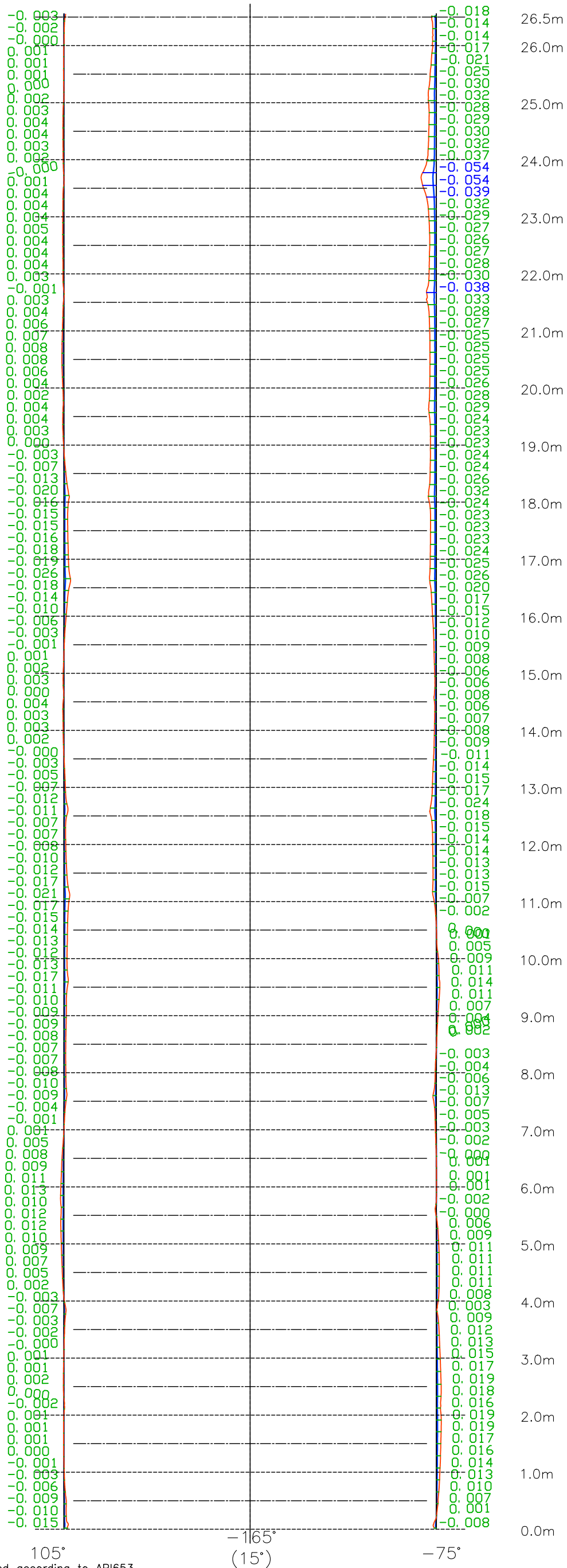
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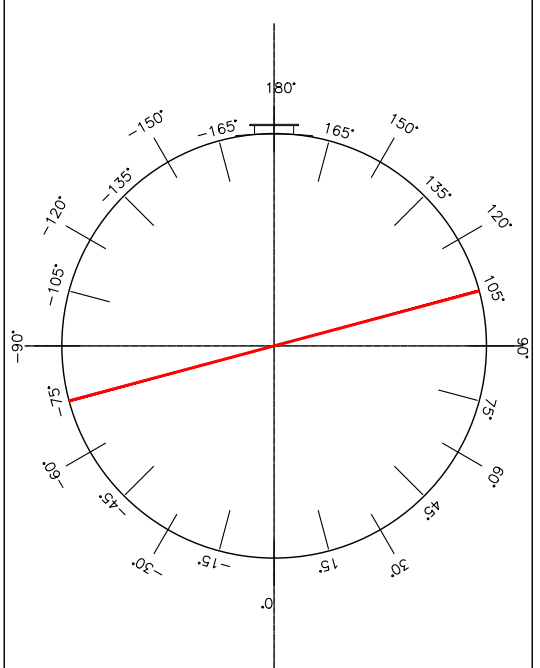
Vertical evaluation
Crossection angle 120°-60°

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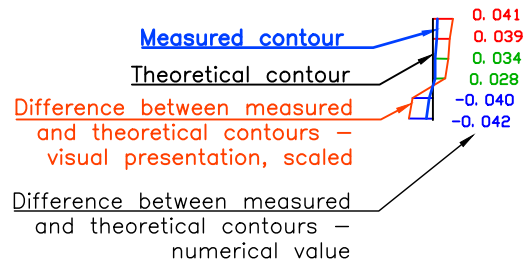
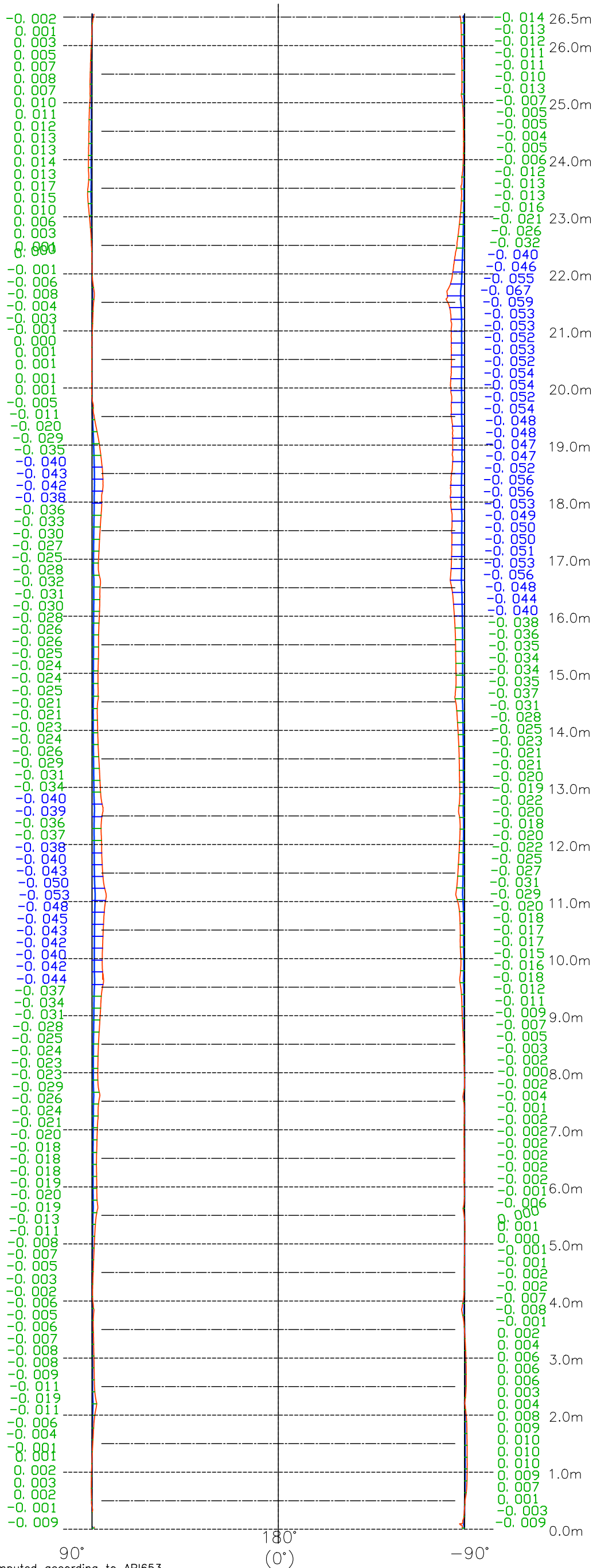
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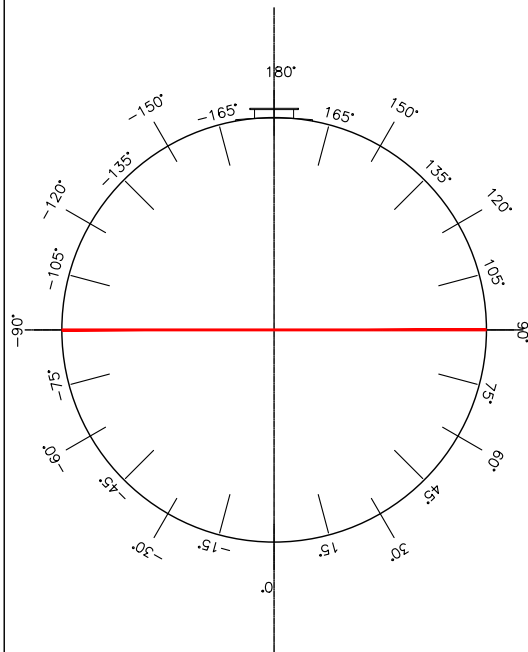
Vertical evaluation
Crossection angle 105°-75°

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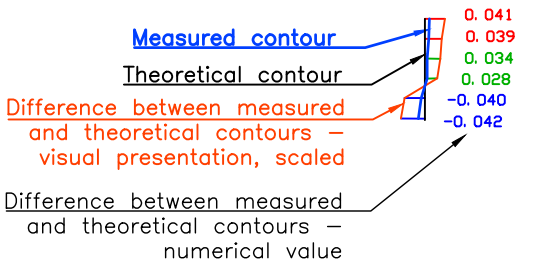
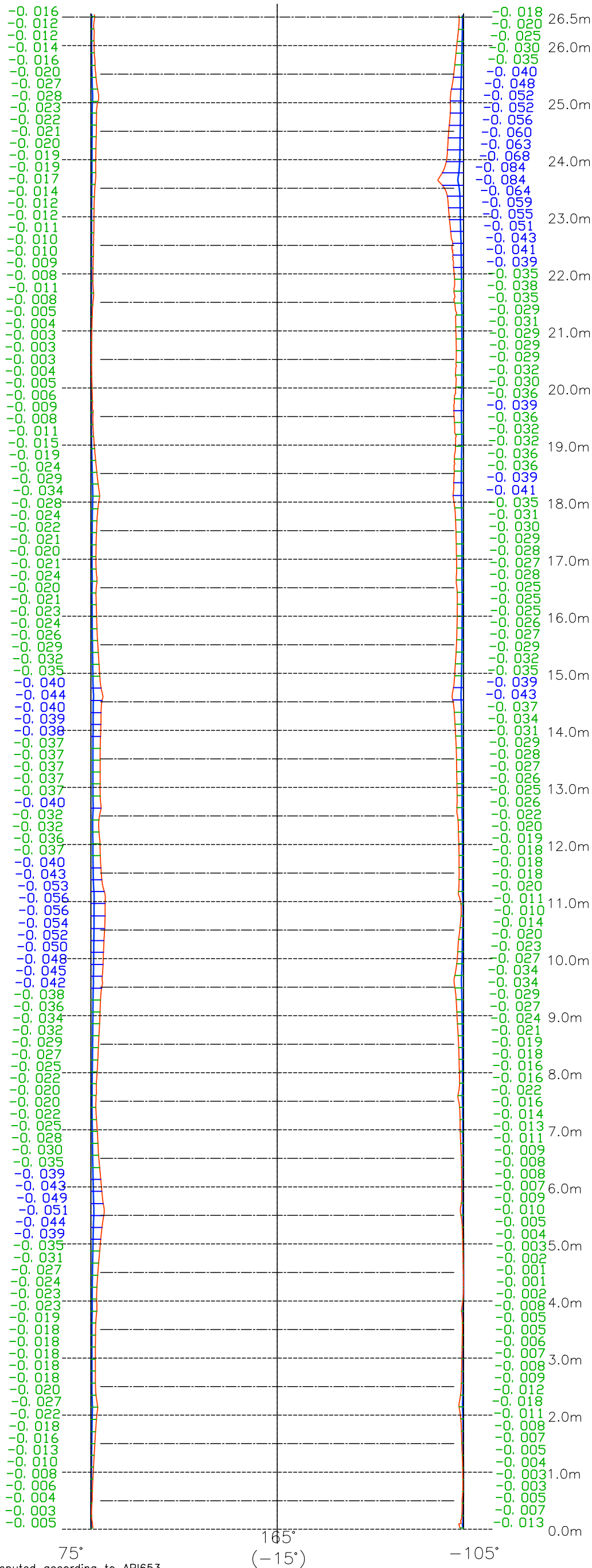
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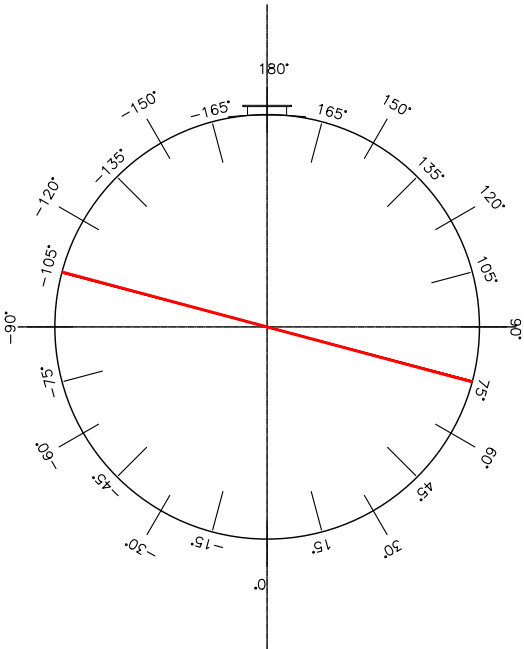
Vertical evaluation
Crossection angle 90°–90°

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90° 180° (0°) -90°
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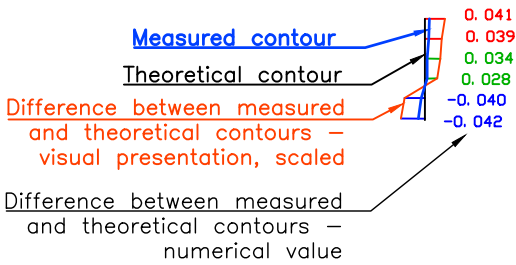
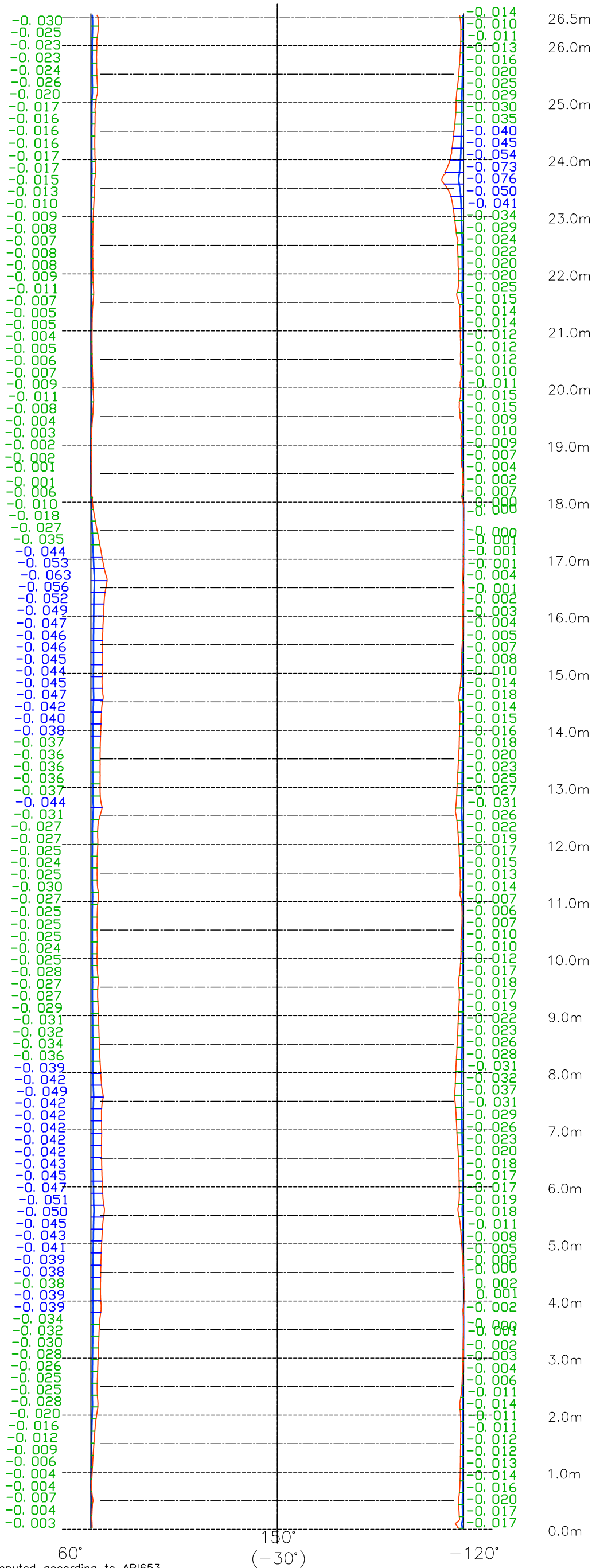
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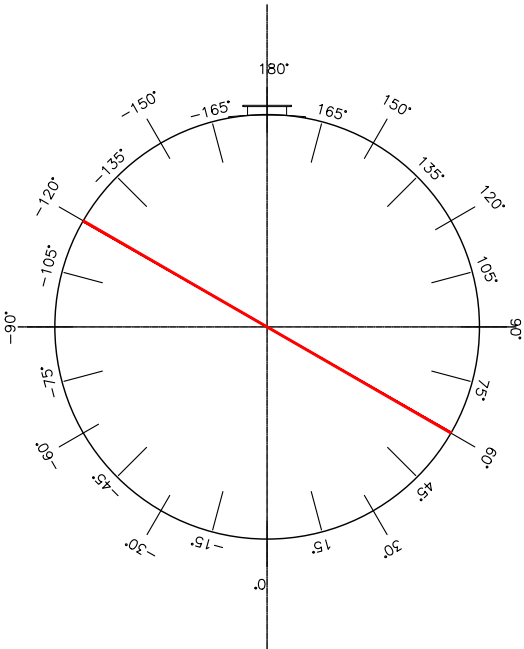
Vertical evaluation
Crossection angle 75°–105°

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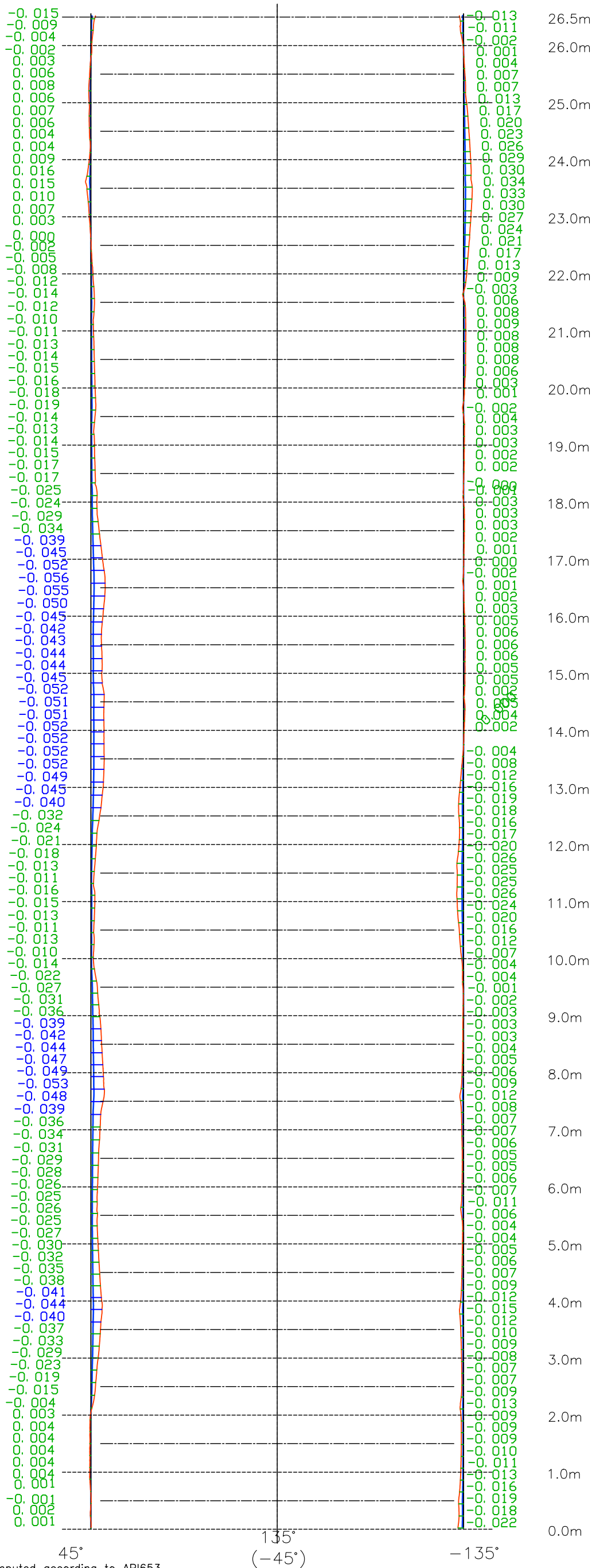
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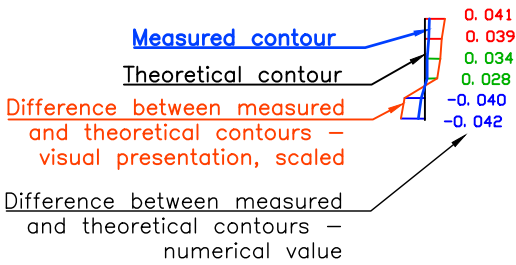
Vertical evaluation
Crossection angle 60°–120°

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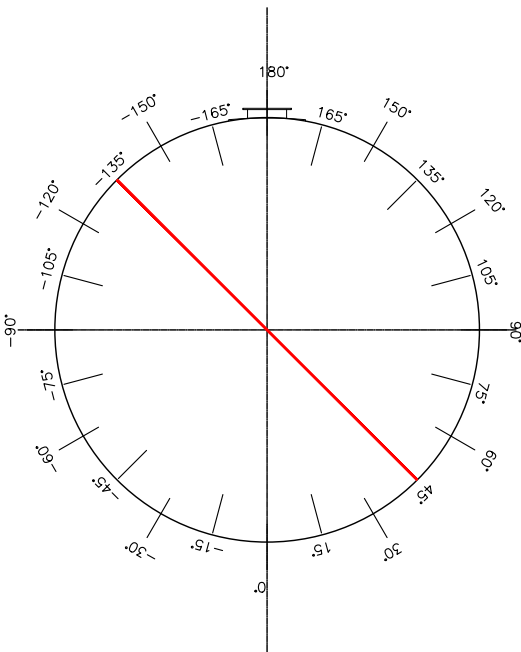
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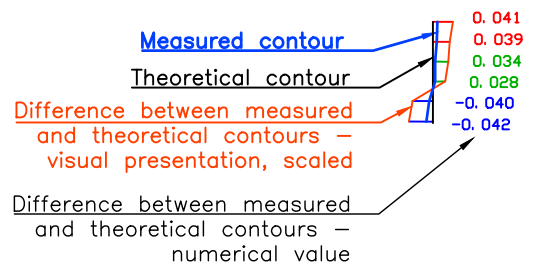
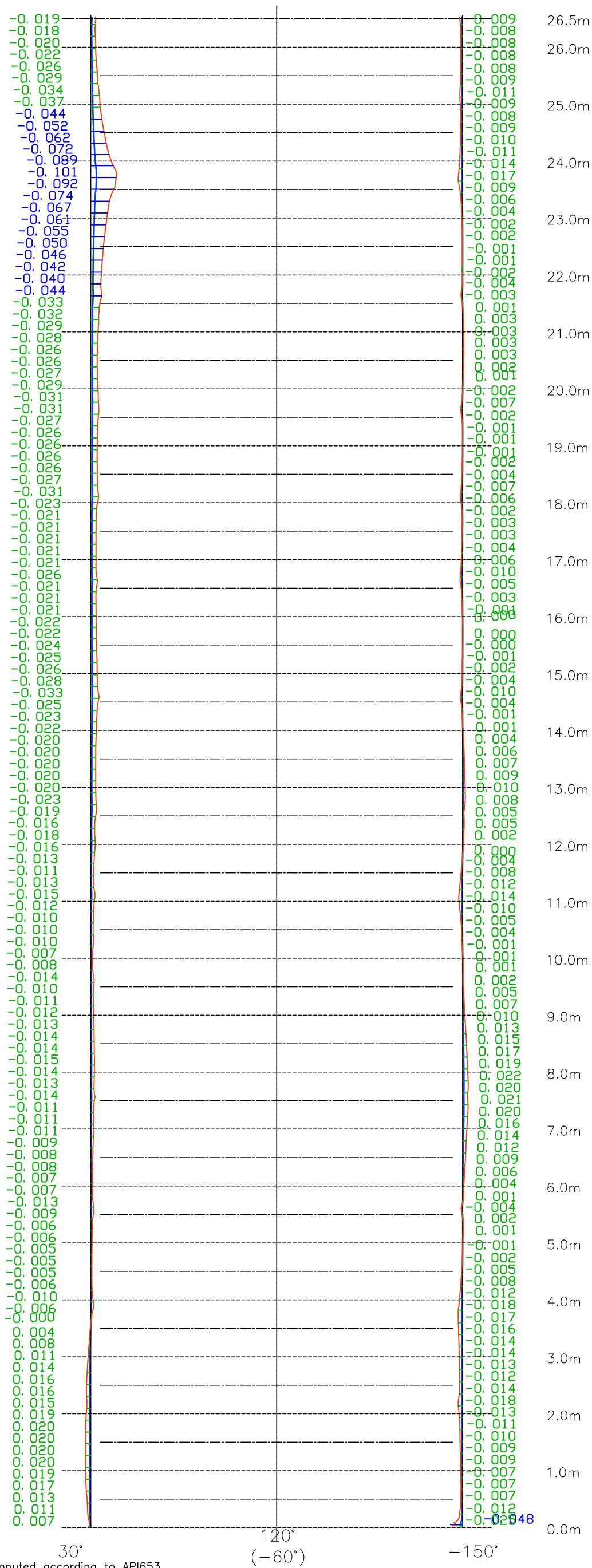


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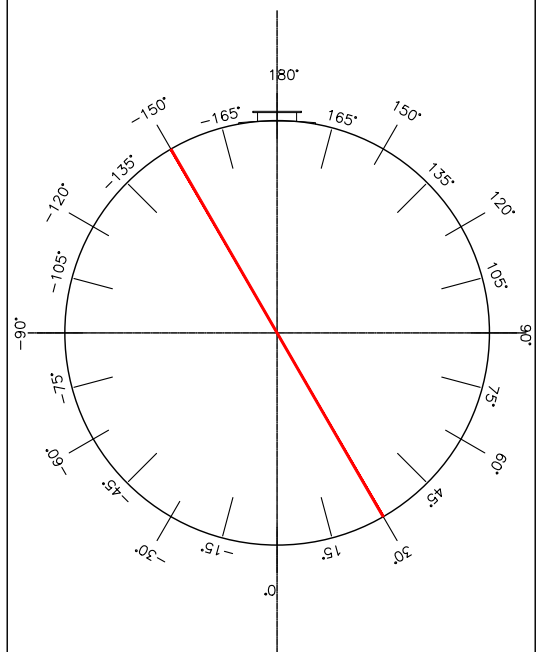


Vertical evaluation
Crossection angle 45°–135°

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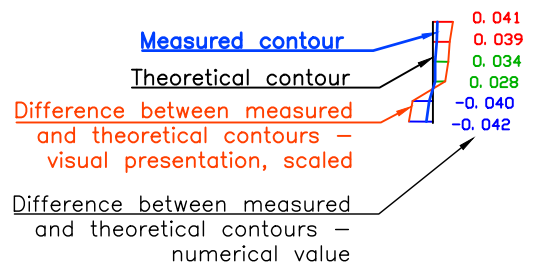
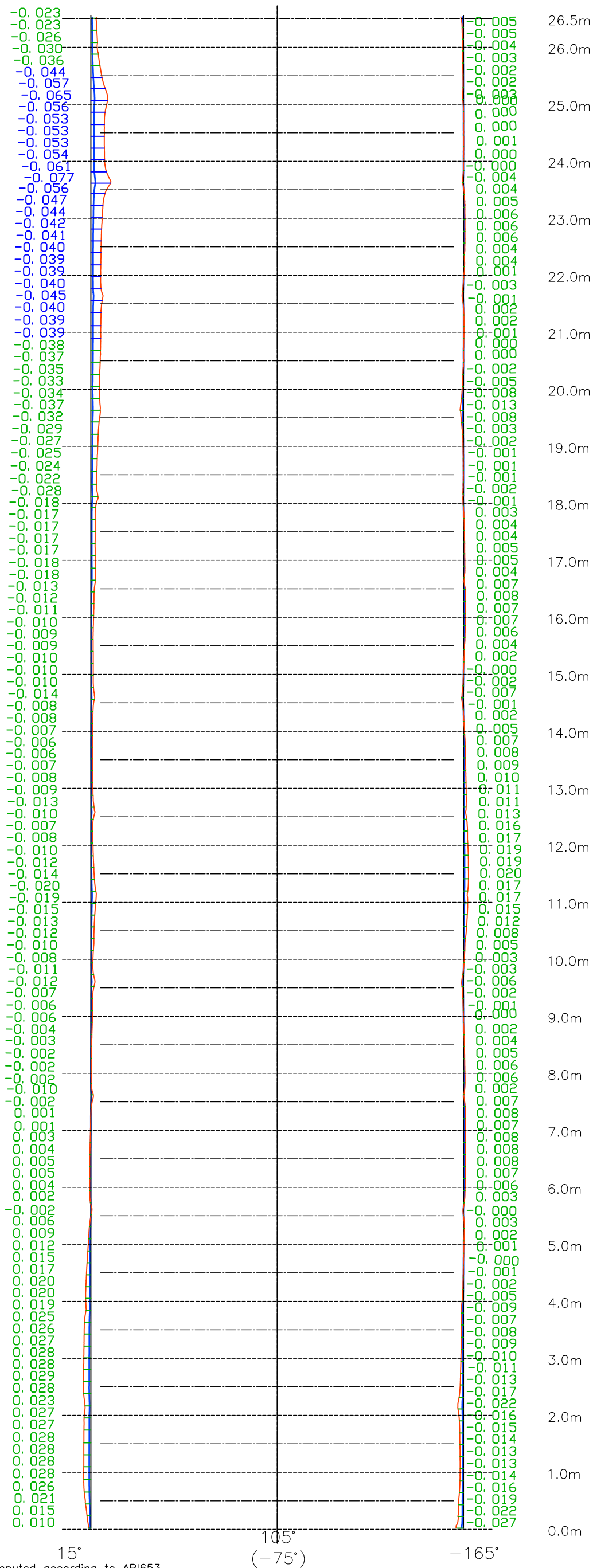
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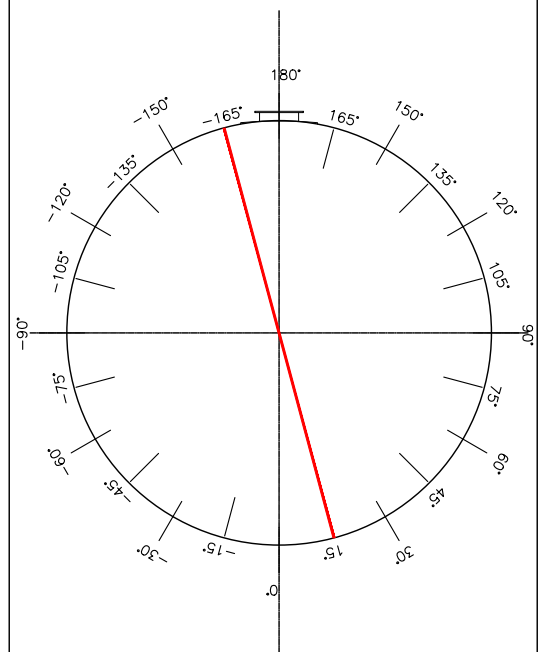
Vertical evaluation
Crossection angle 30°–150°

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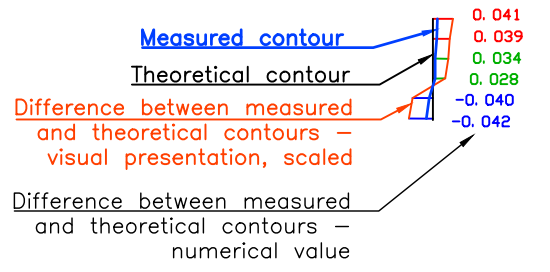
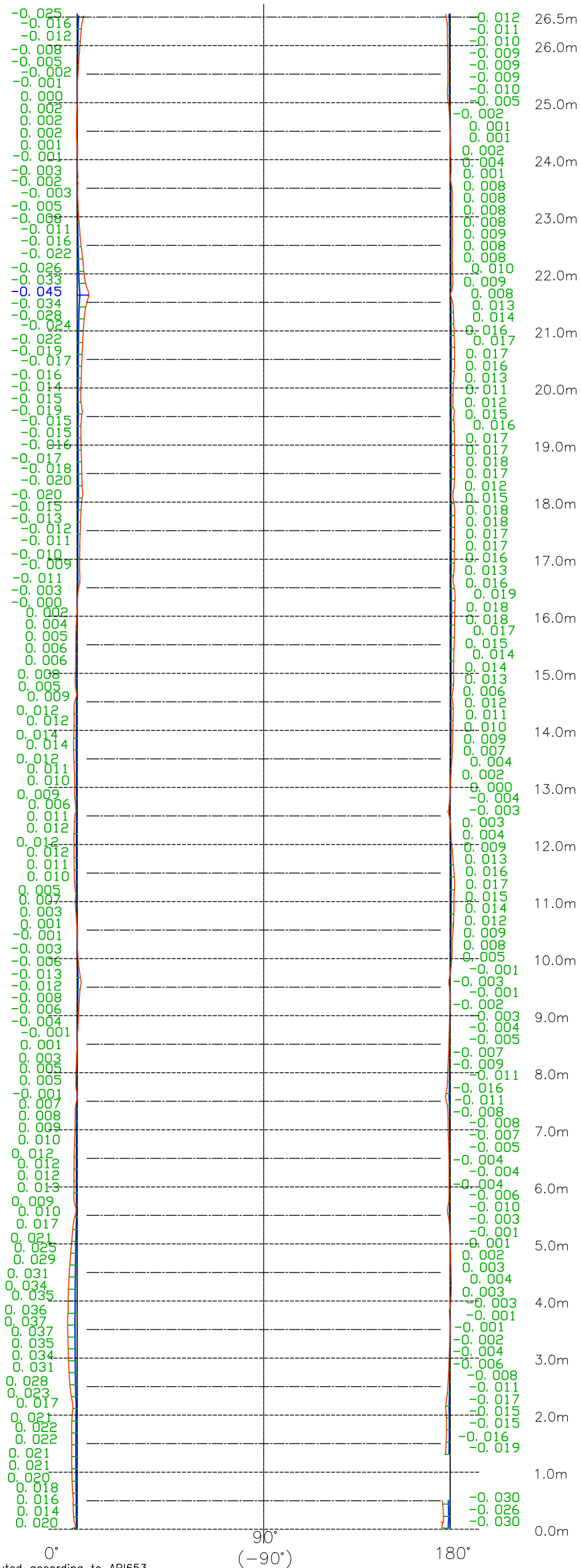


Vertical evaluation
Crossection angle 15°–165°

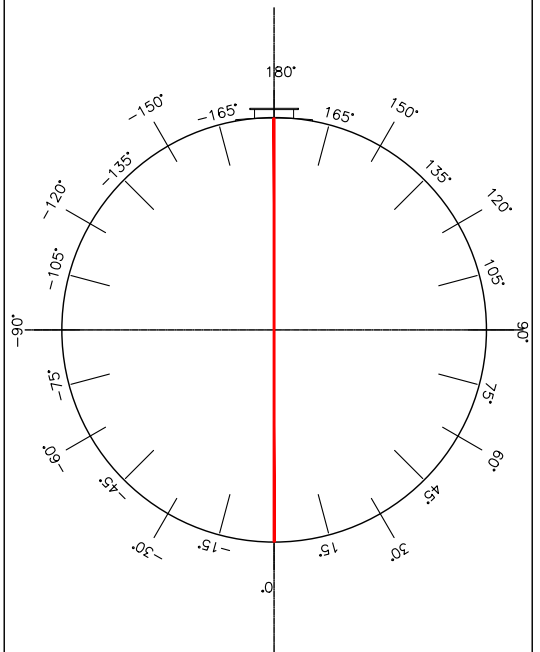
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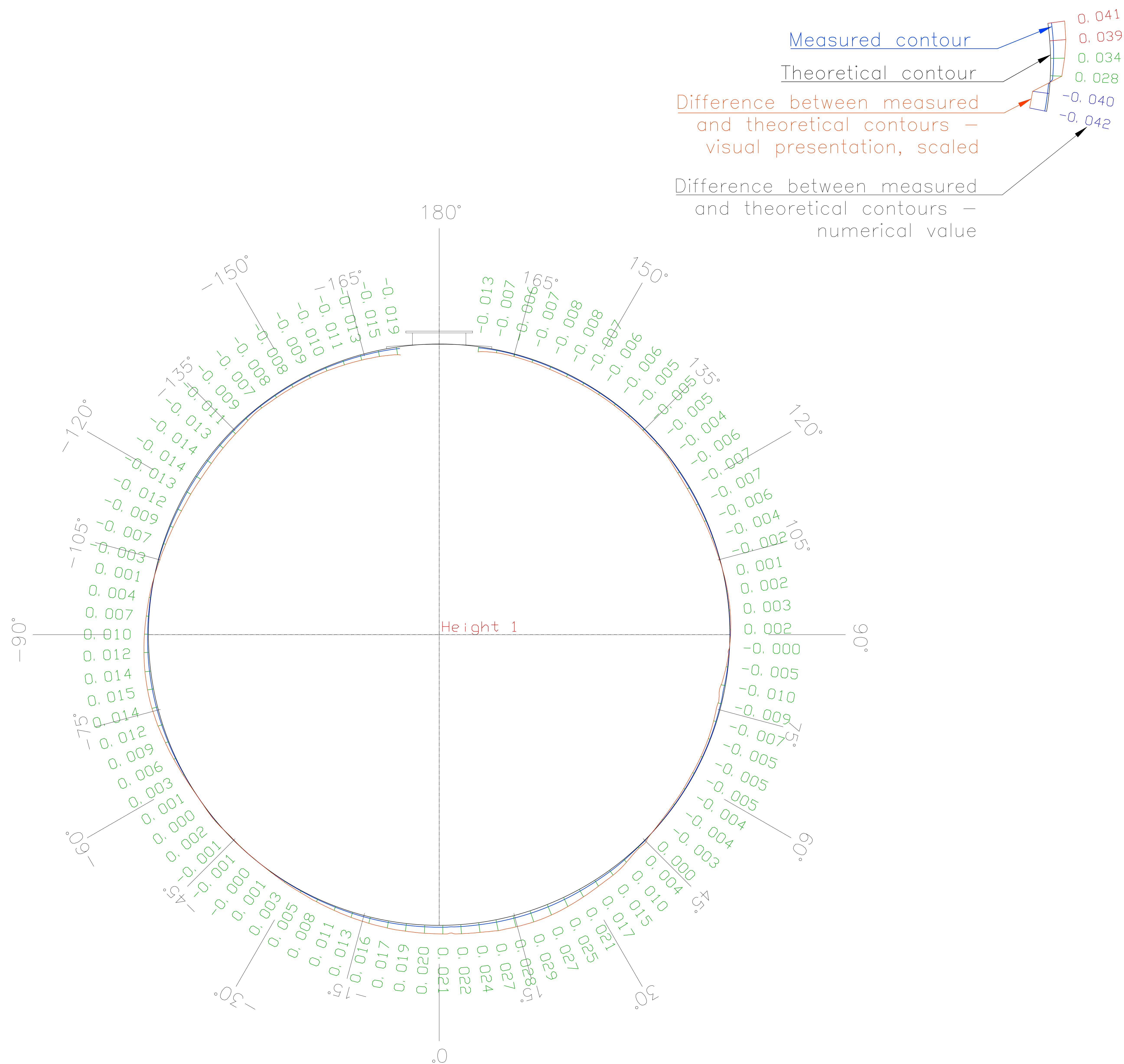
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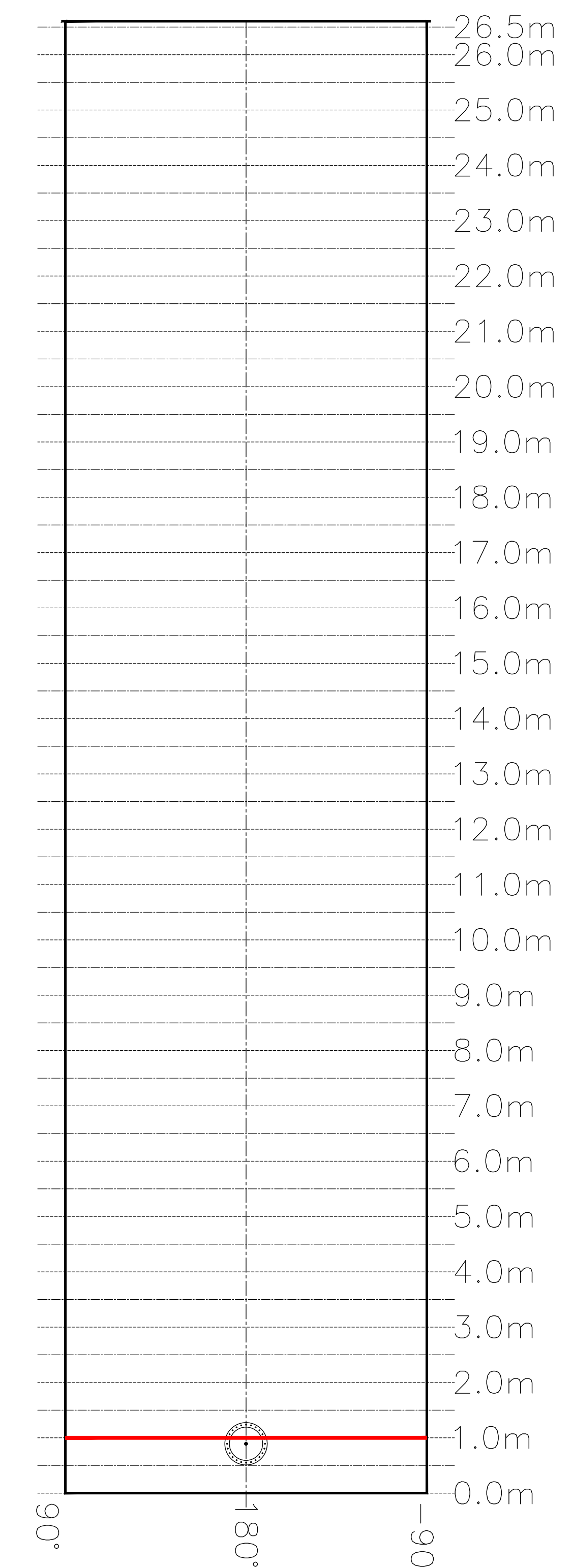
Vertical evaluation
Crossection angle 0° 180°

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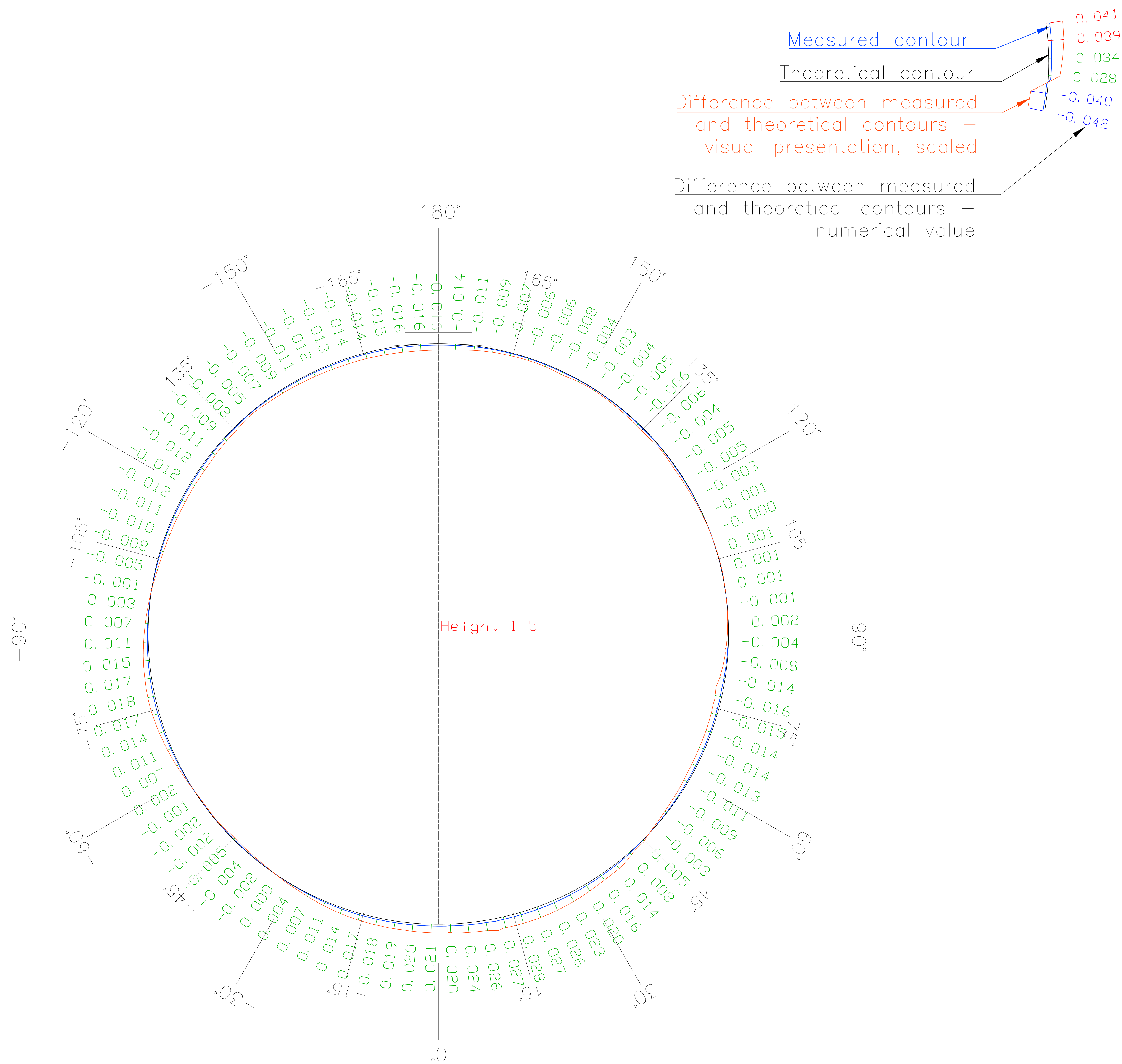
Roundness evaluation

Crossection height 1

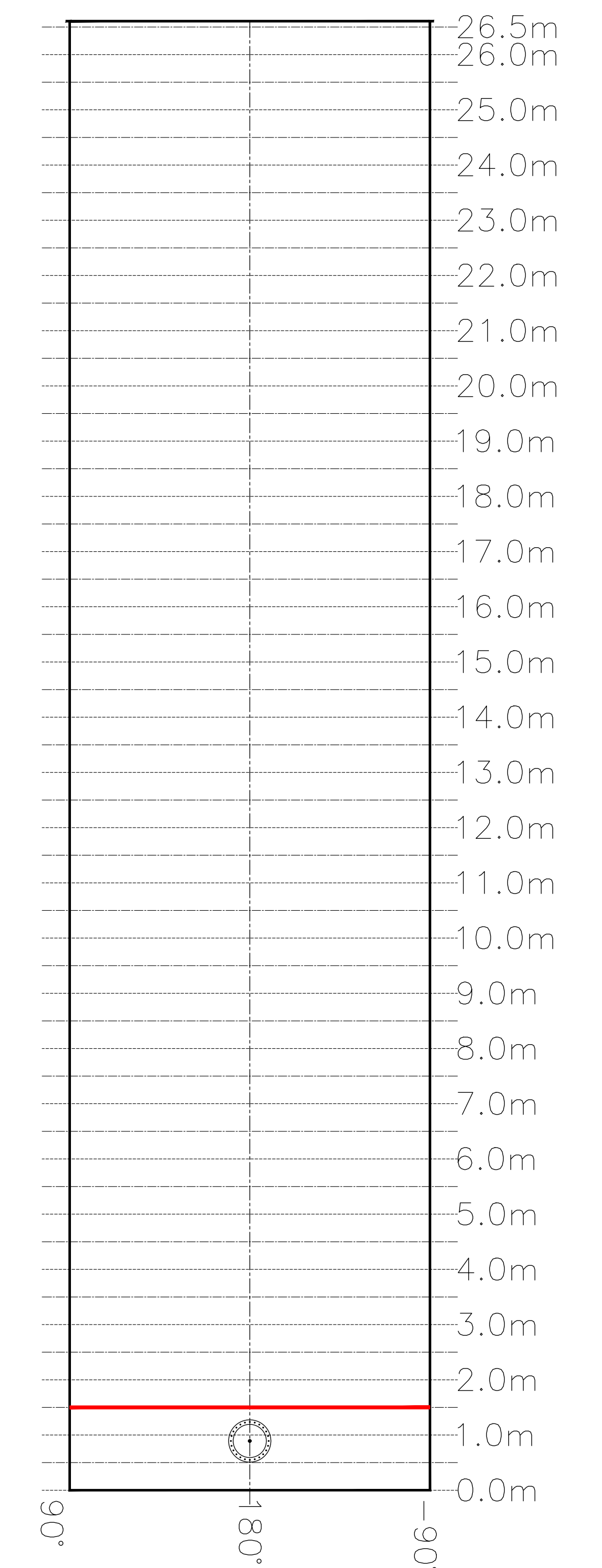
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Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

Internal file:
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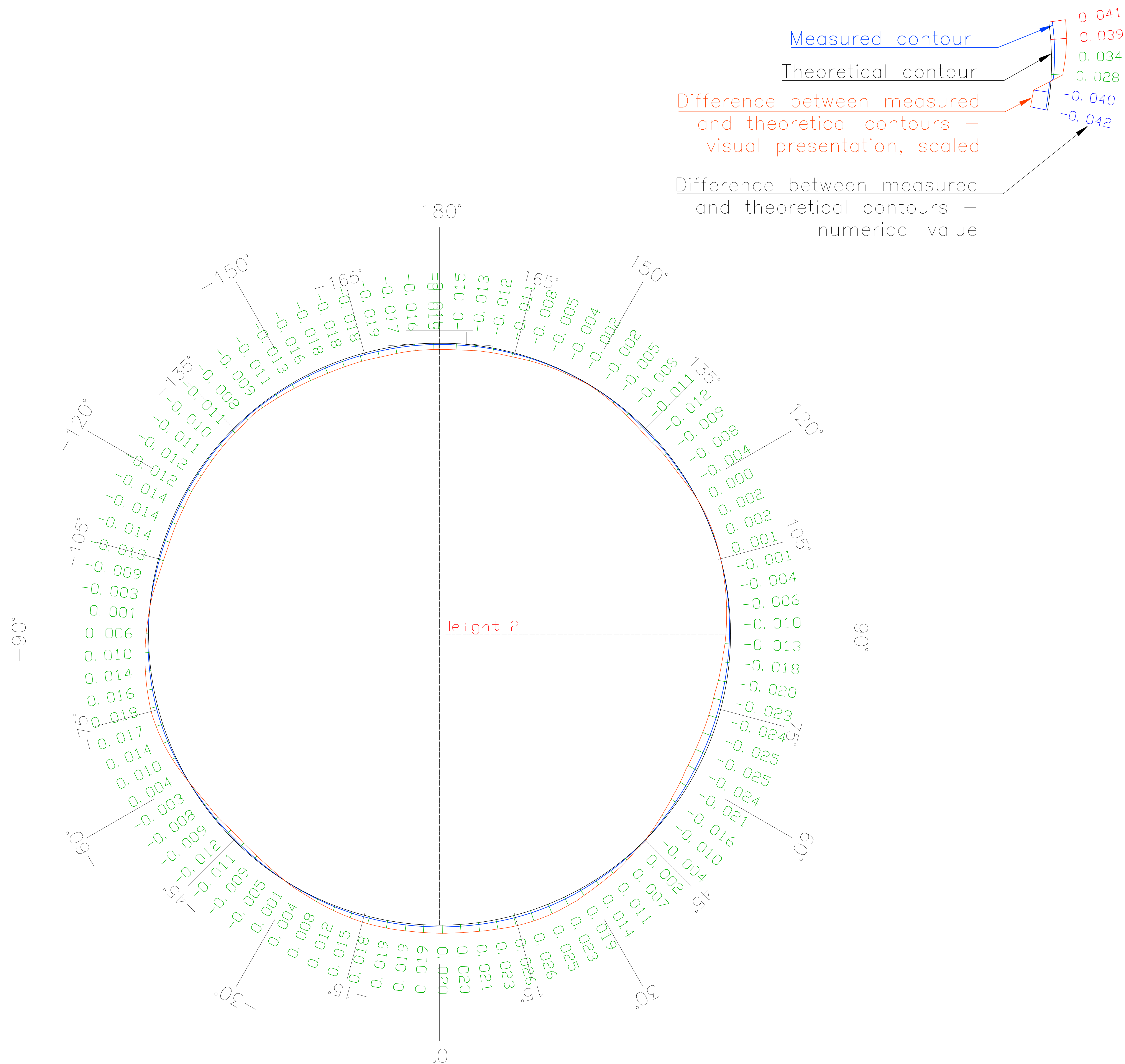
Roundness evaluation

Crossection height 1.5

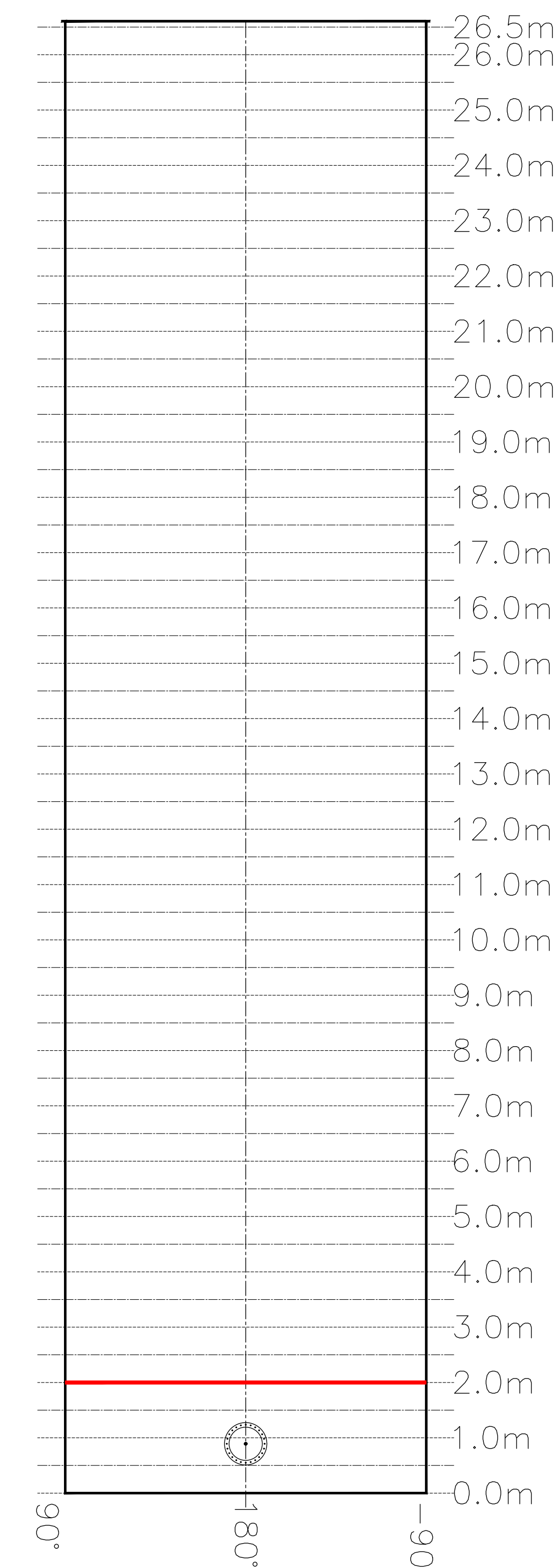
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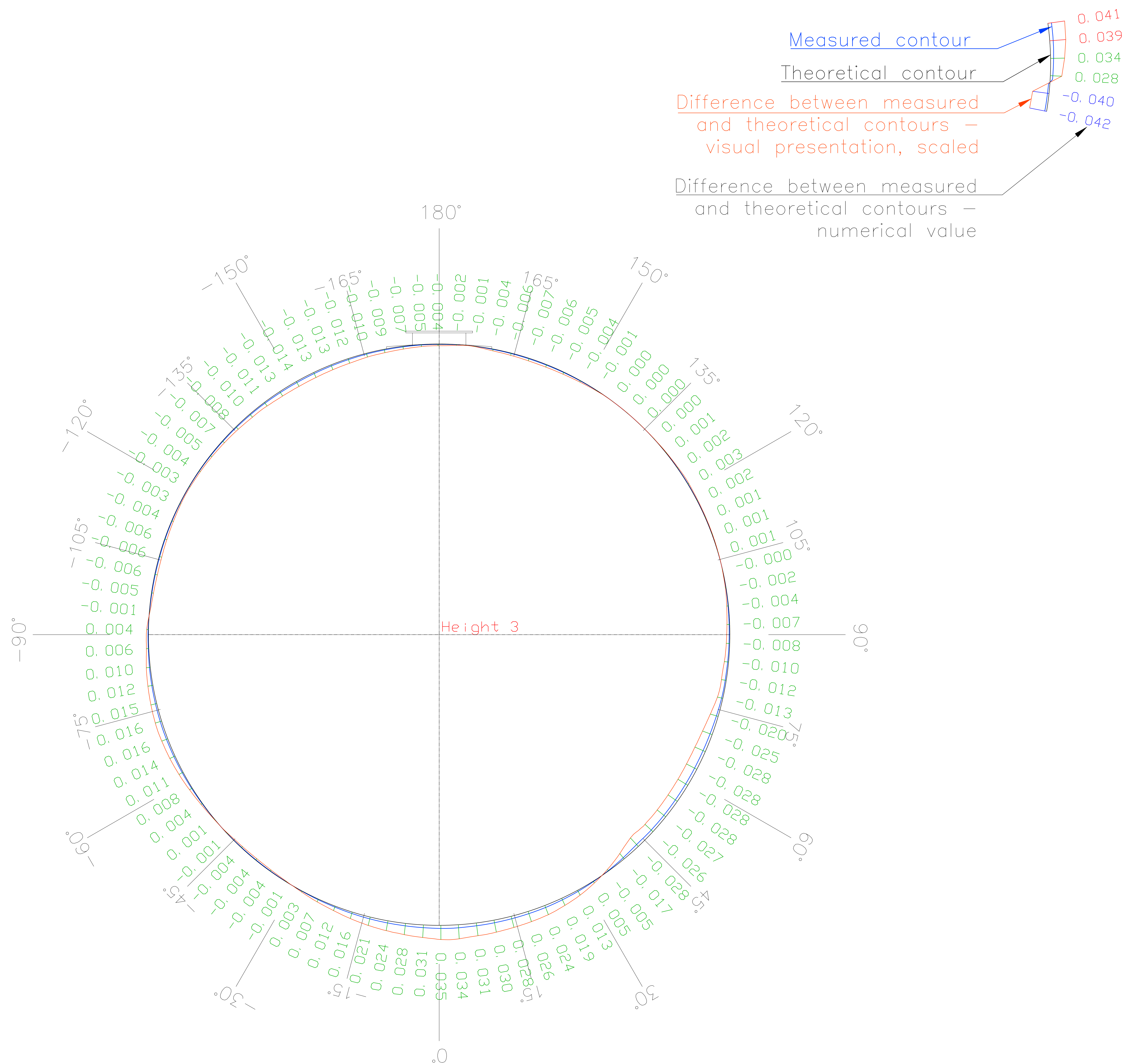
Roundness evaluation

Crossection height 2

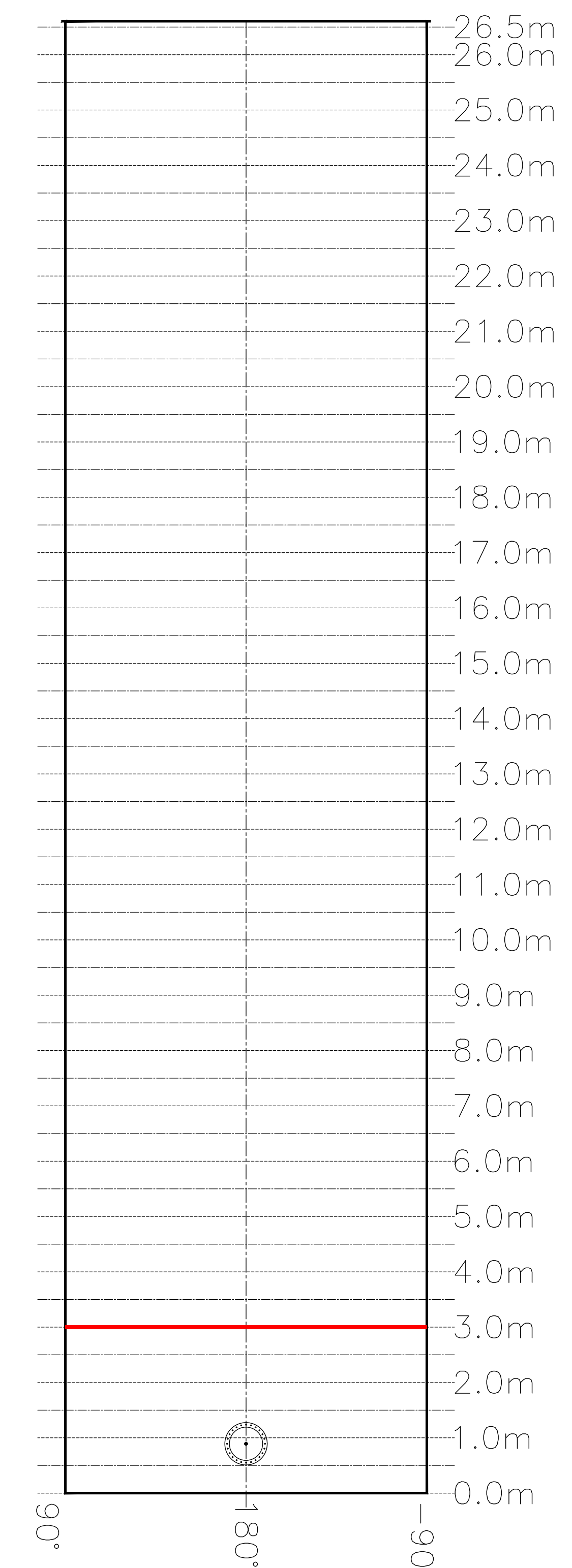
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Roundness evaluation

Crossection height 3

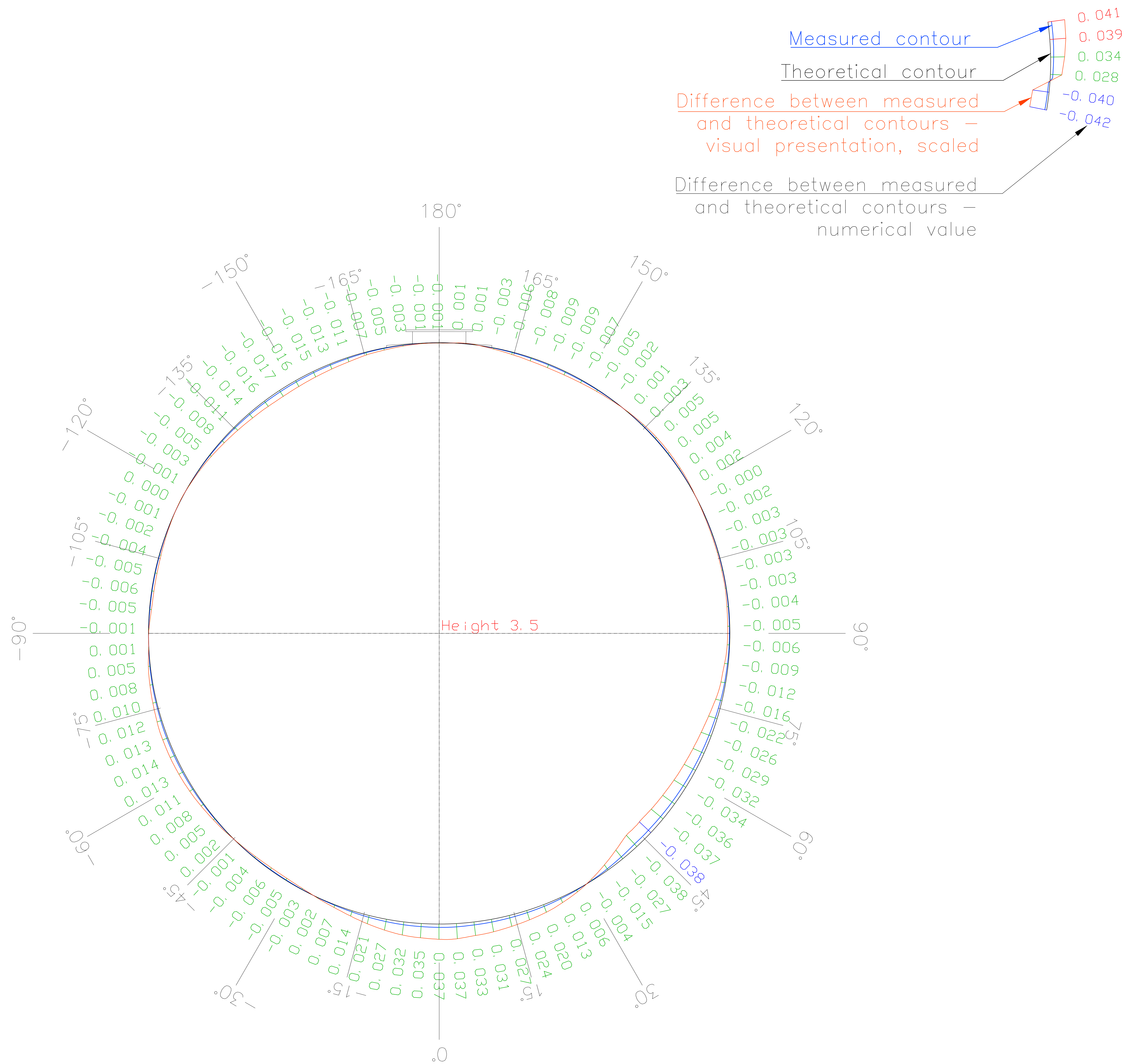
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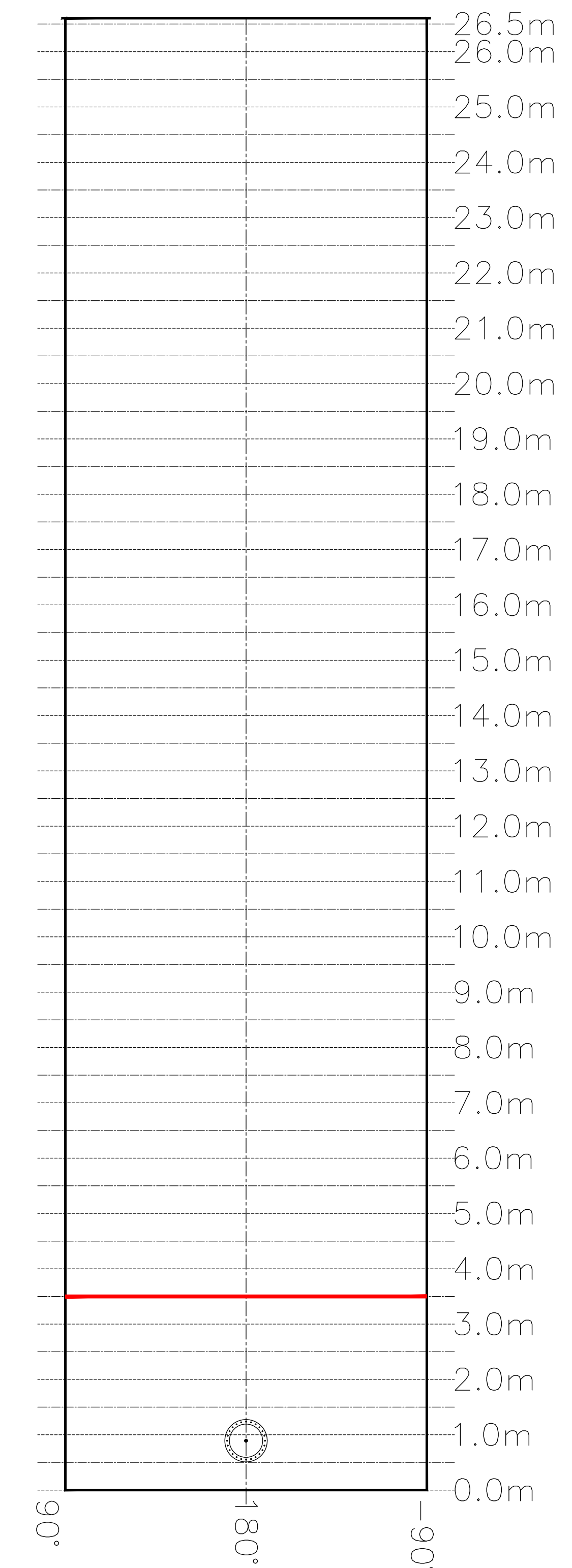
טל : 03-9 103322

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Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

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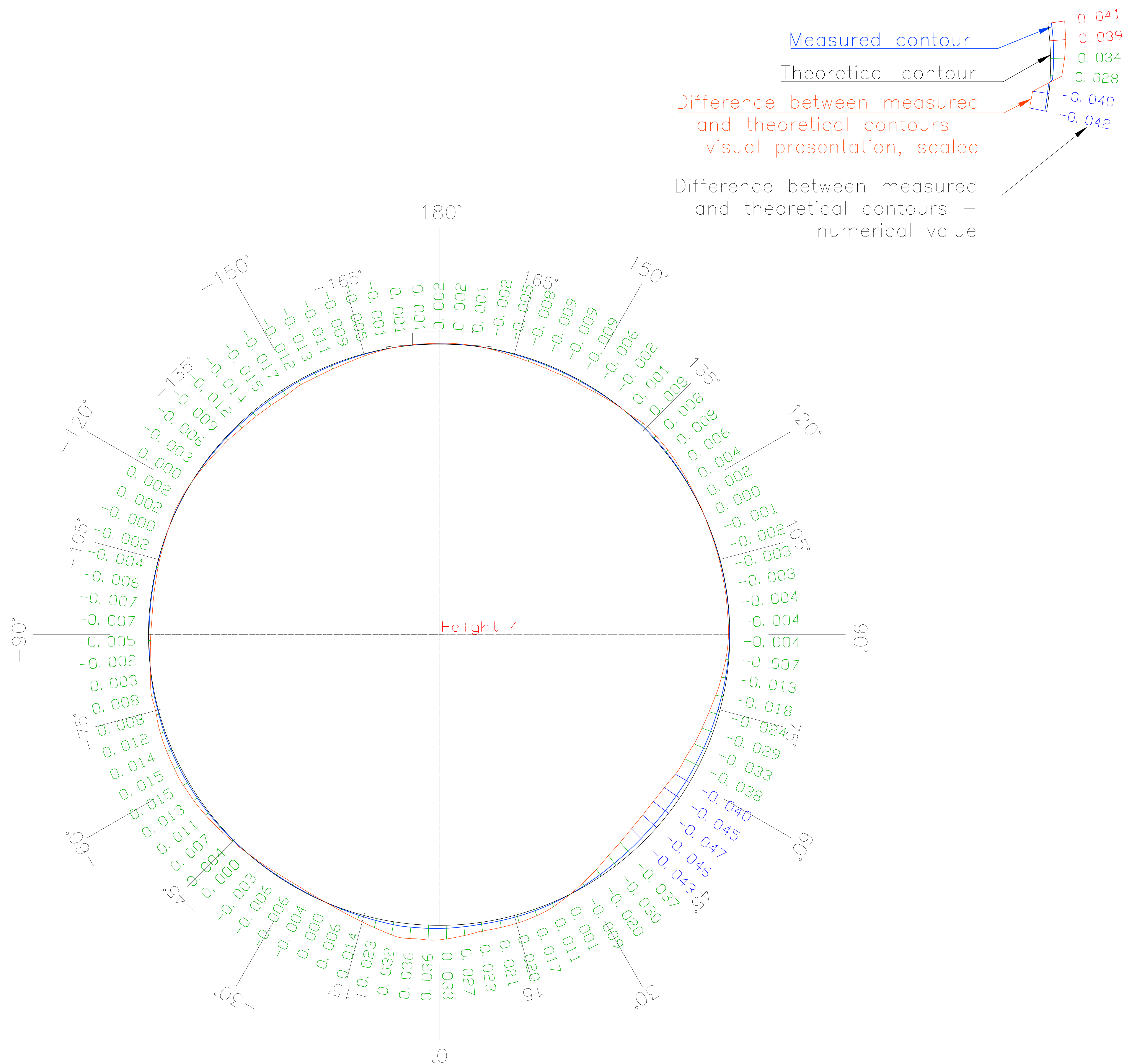
Roundness evaluation

Crossection height 3.5

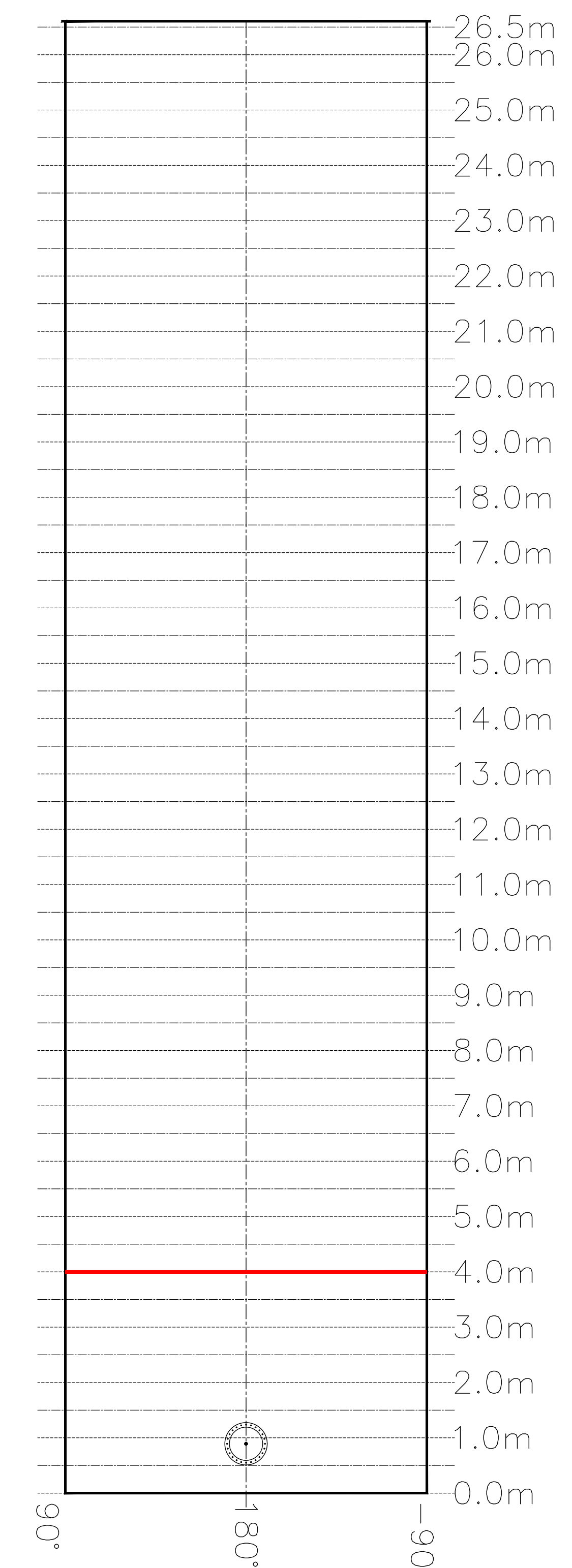
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Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

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Roundness evaluation

Crossection height 4

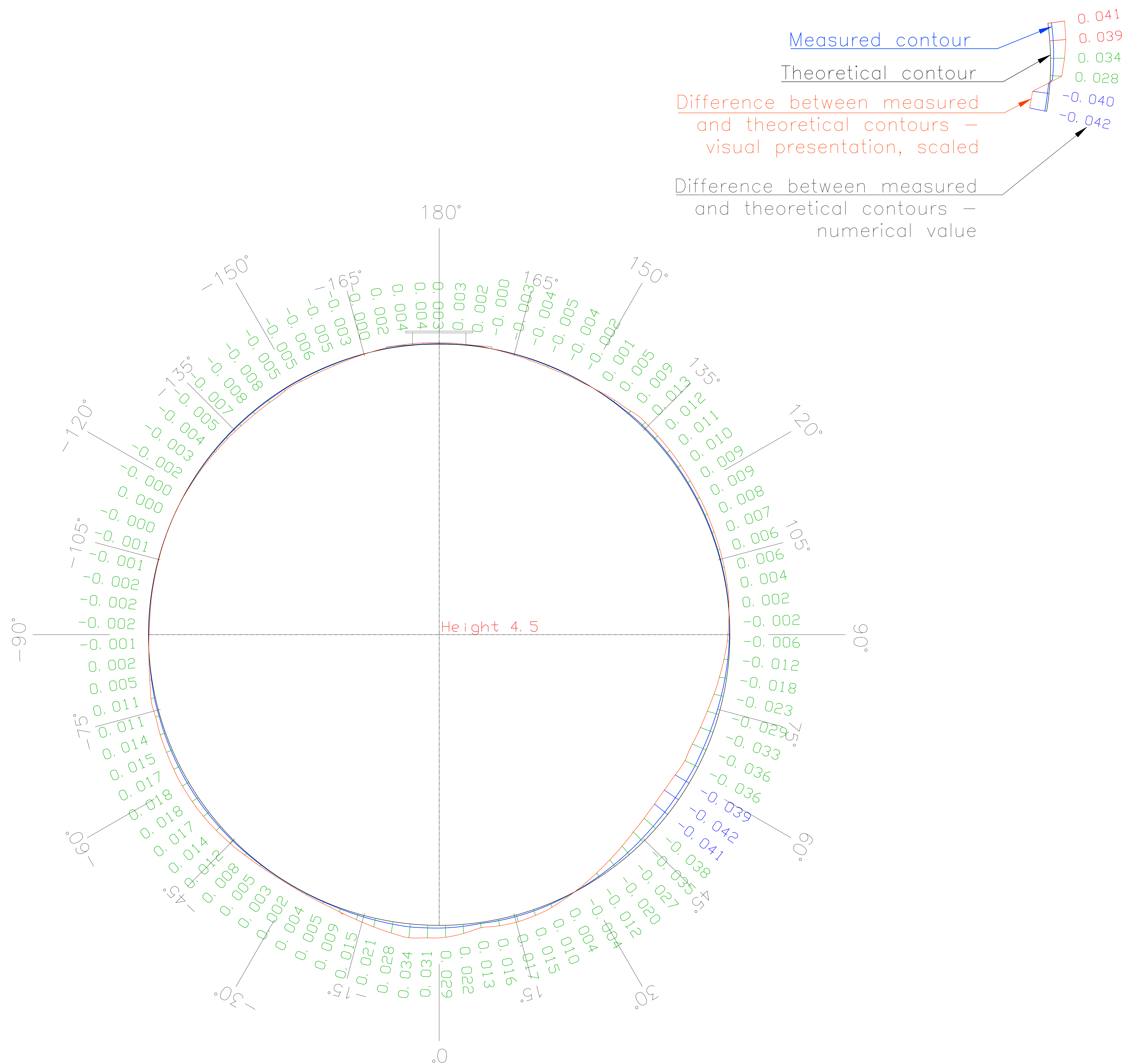
נורד ג.ש.

מדידה והנדסה בע"מ

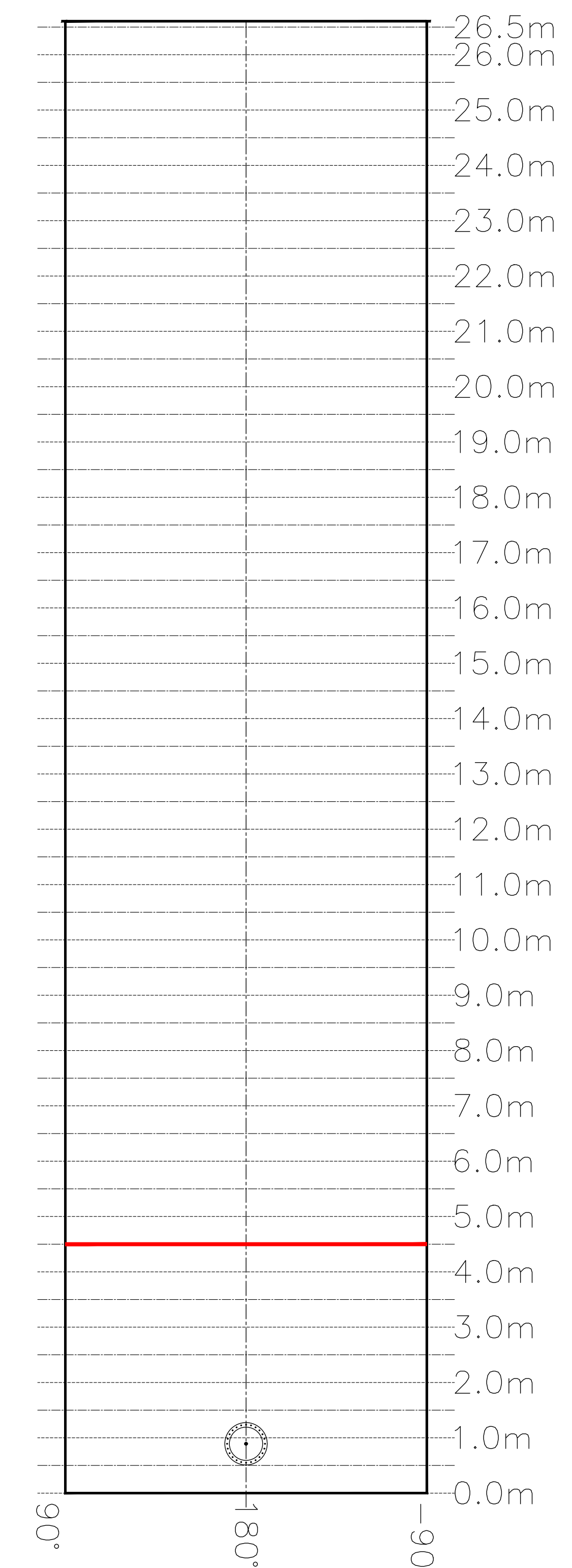
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Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

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Roundness evaluation

Crossection height 4.5

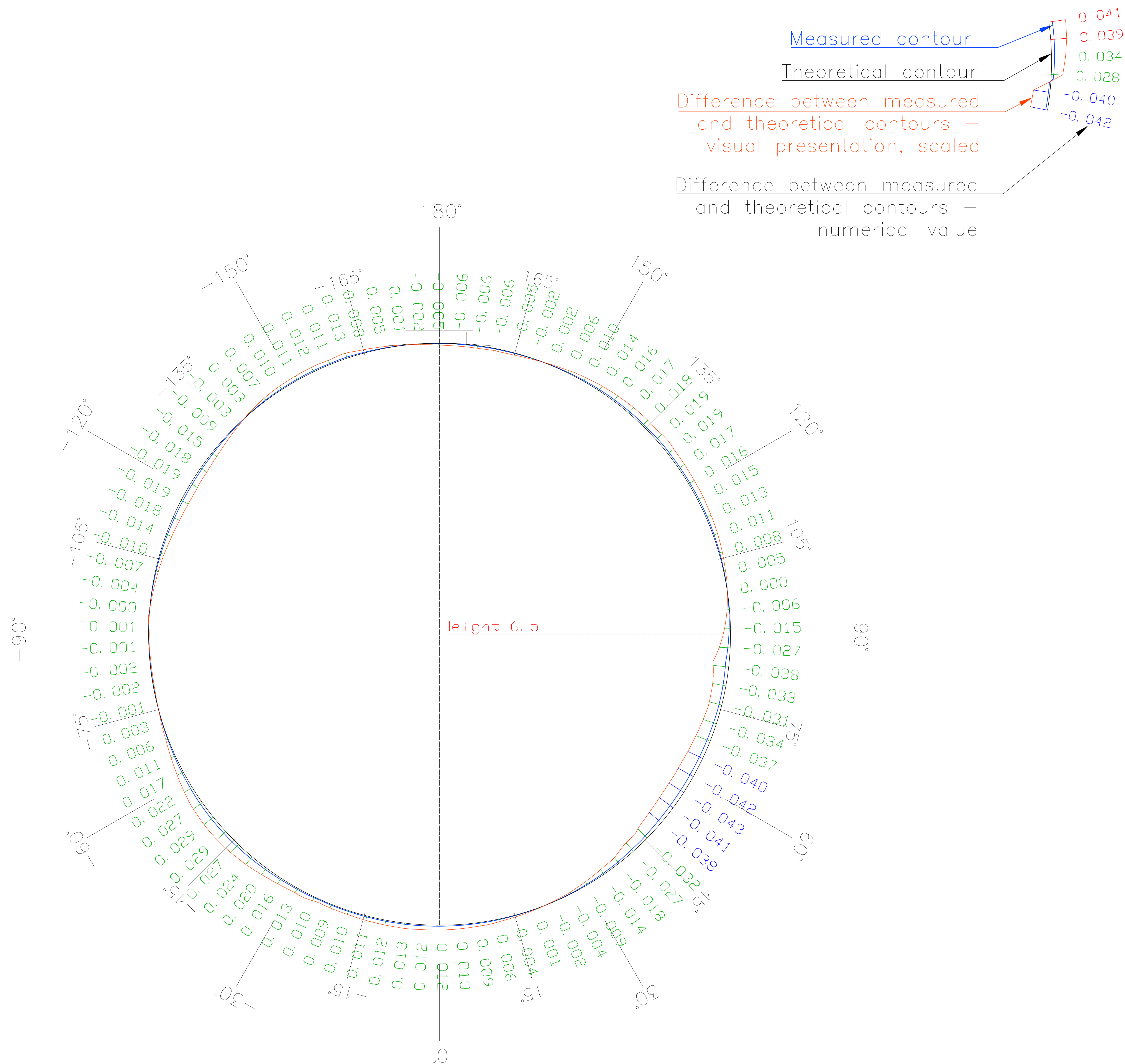
נורד ג.ש.

מדידה והנדסה בע"מ

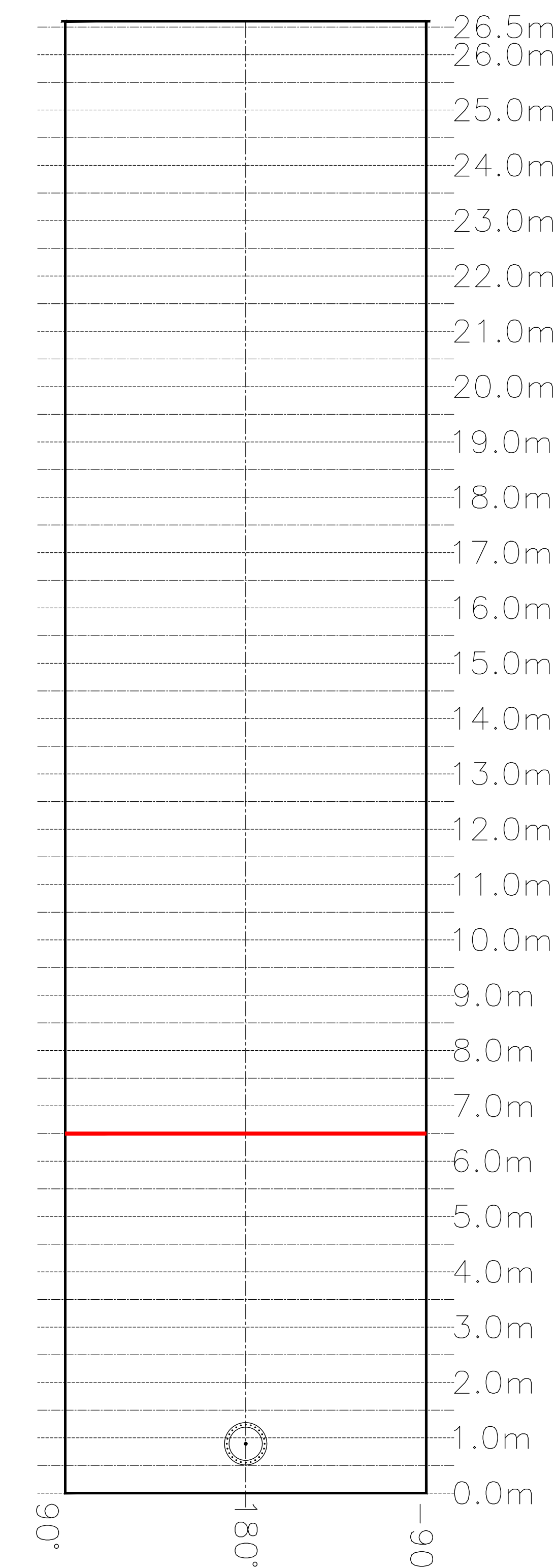
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



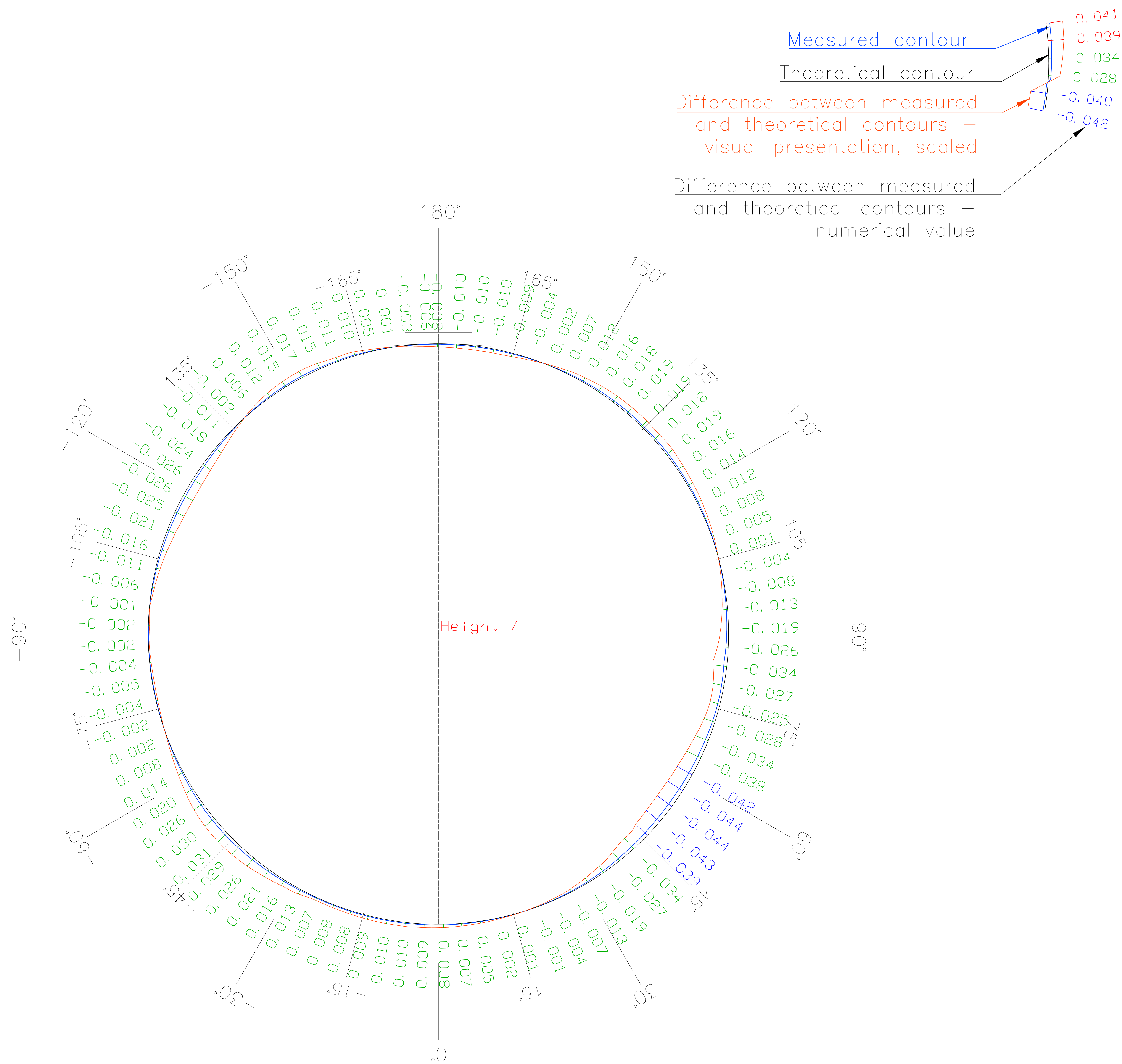
Roundness evaluation

Crossection height 6.5

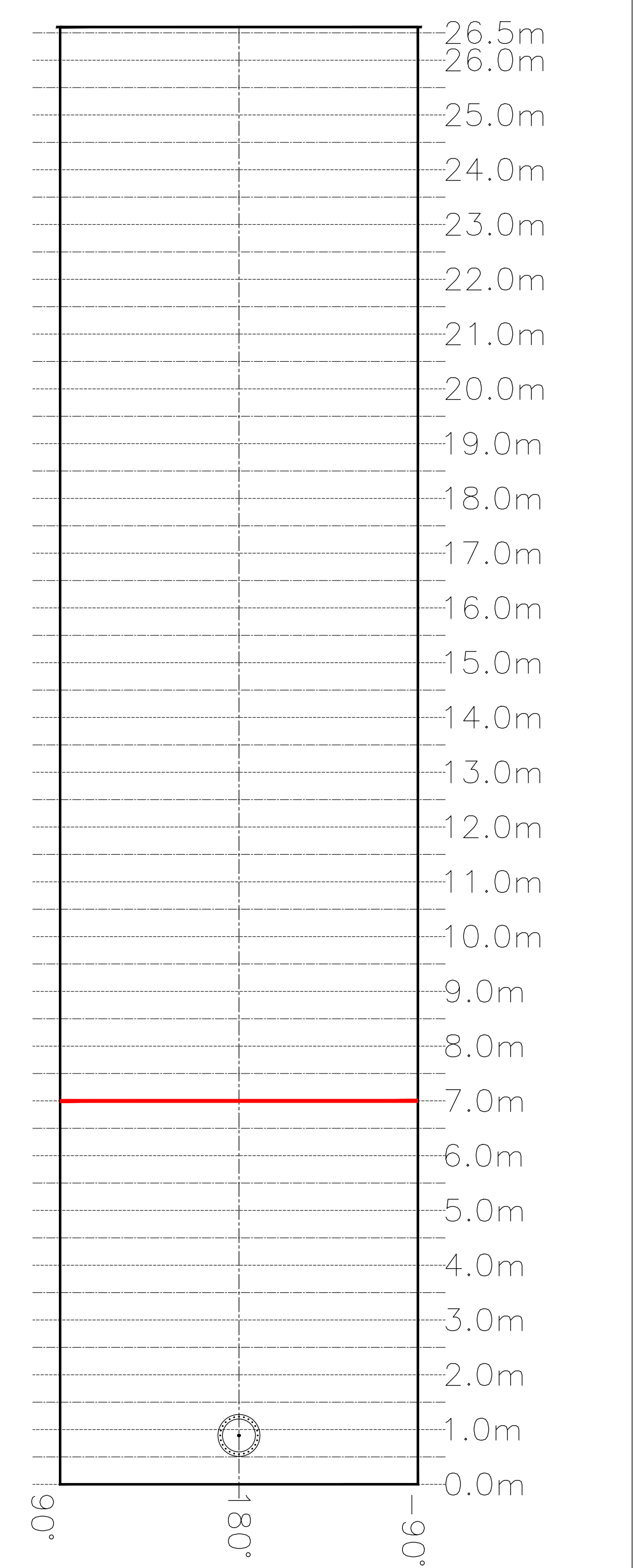
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

Internal file:
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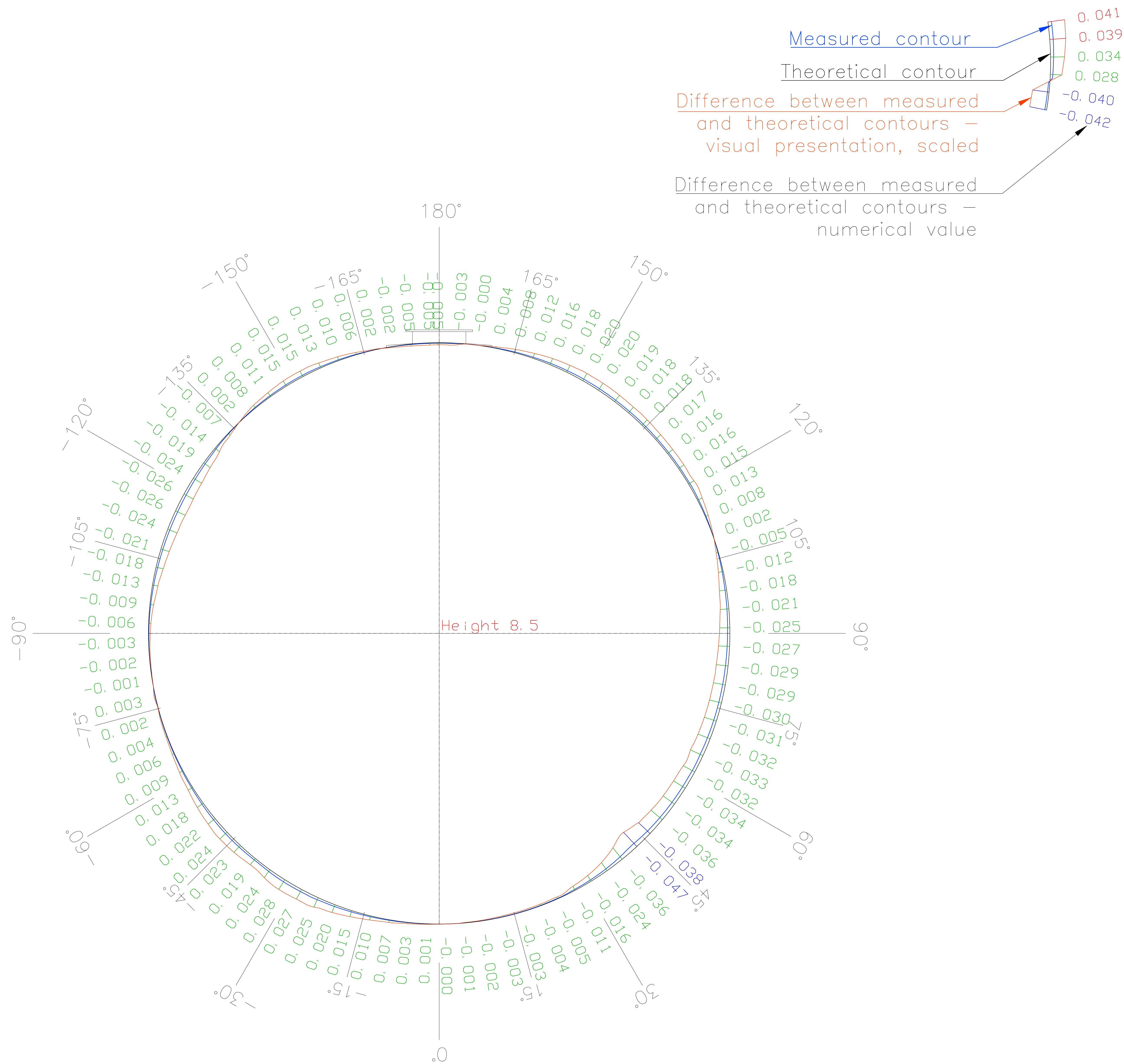
STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



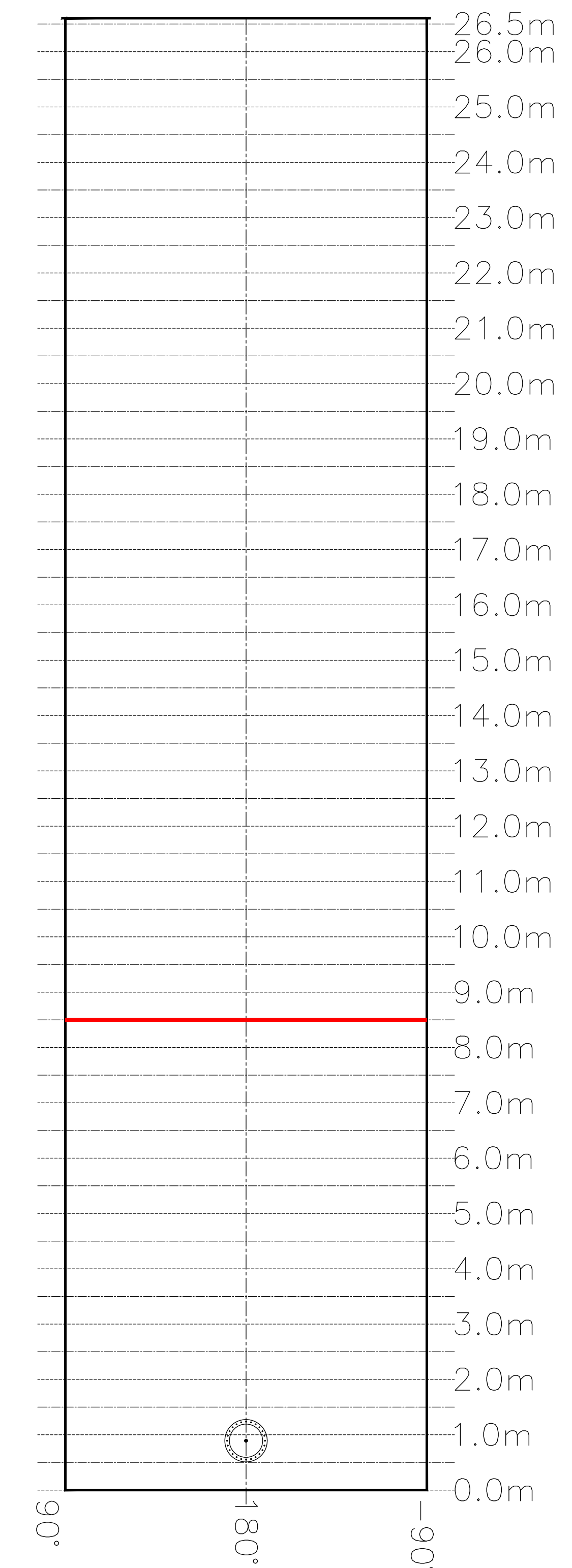
Roundness evaluation

Crossection height 7

נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322



STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



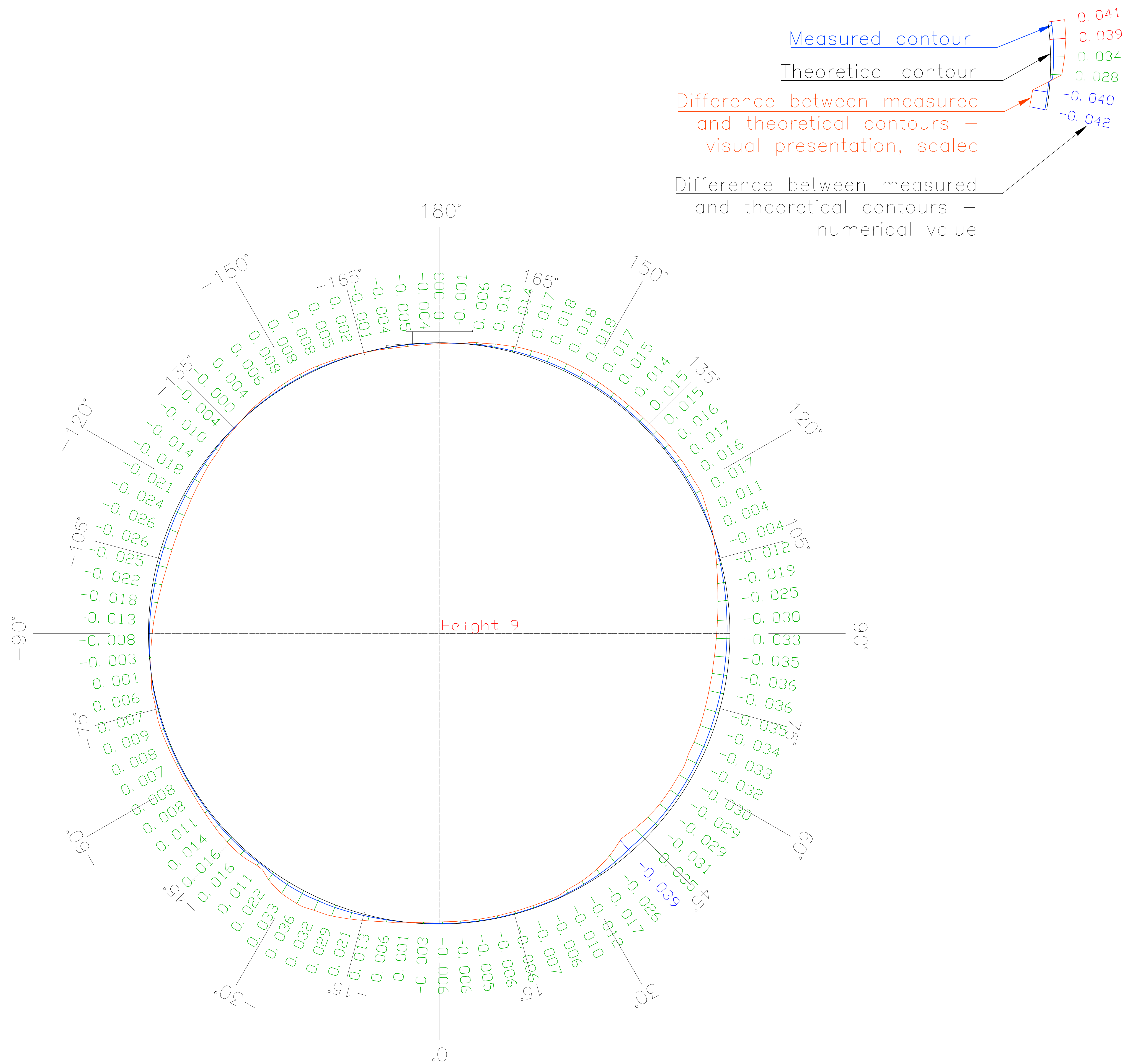
Roundness evaluation

Crossection height 8.5

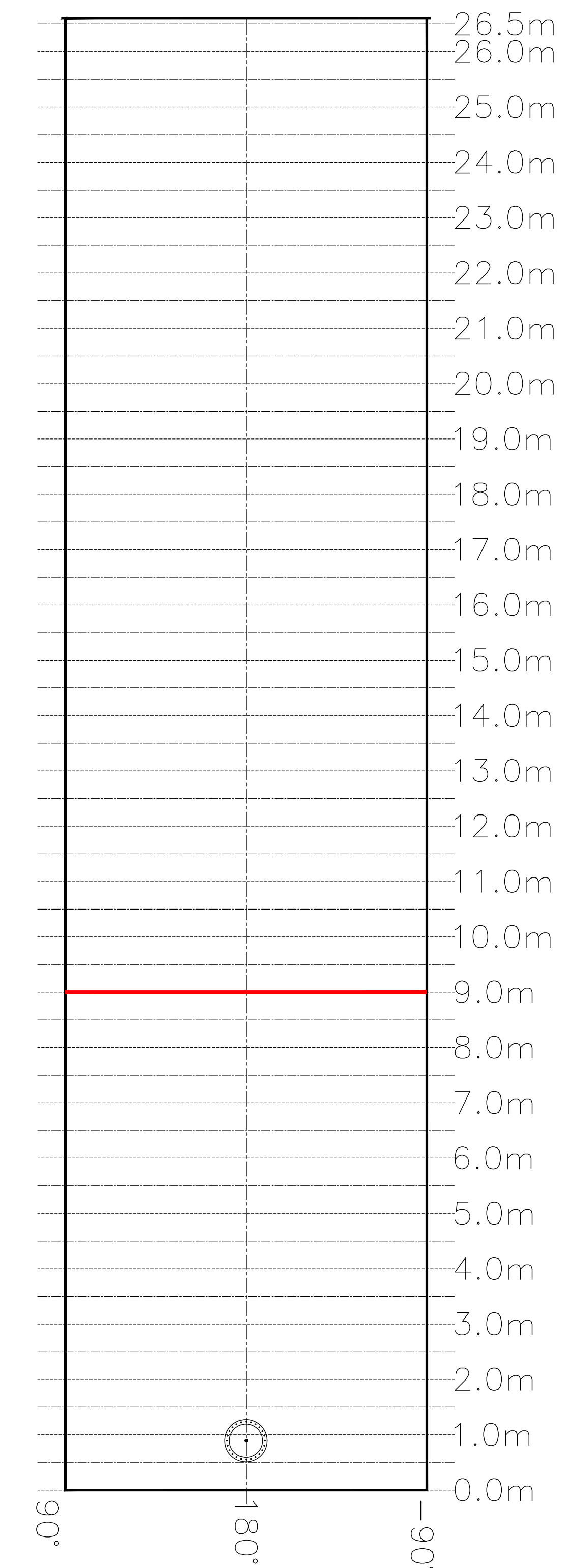
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



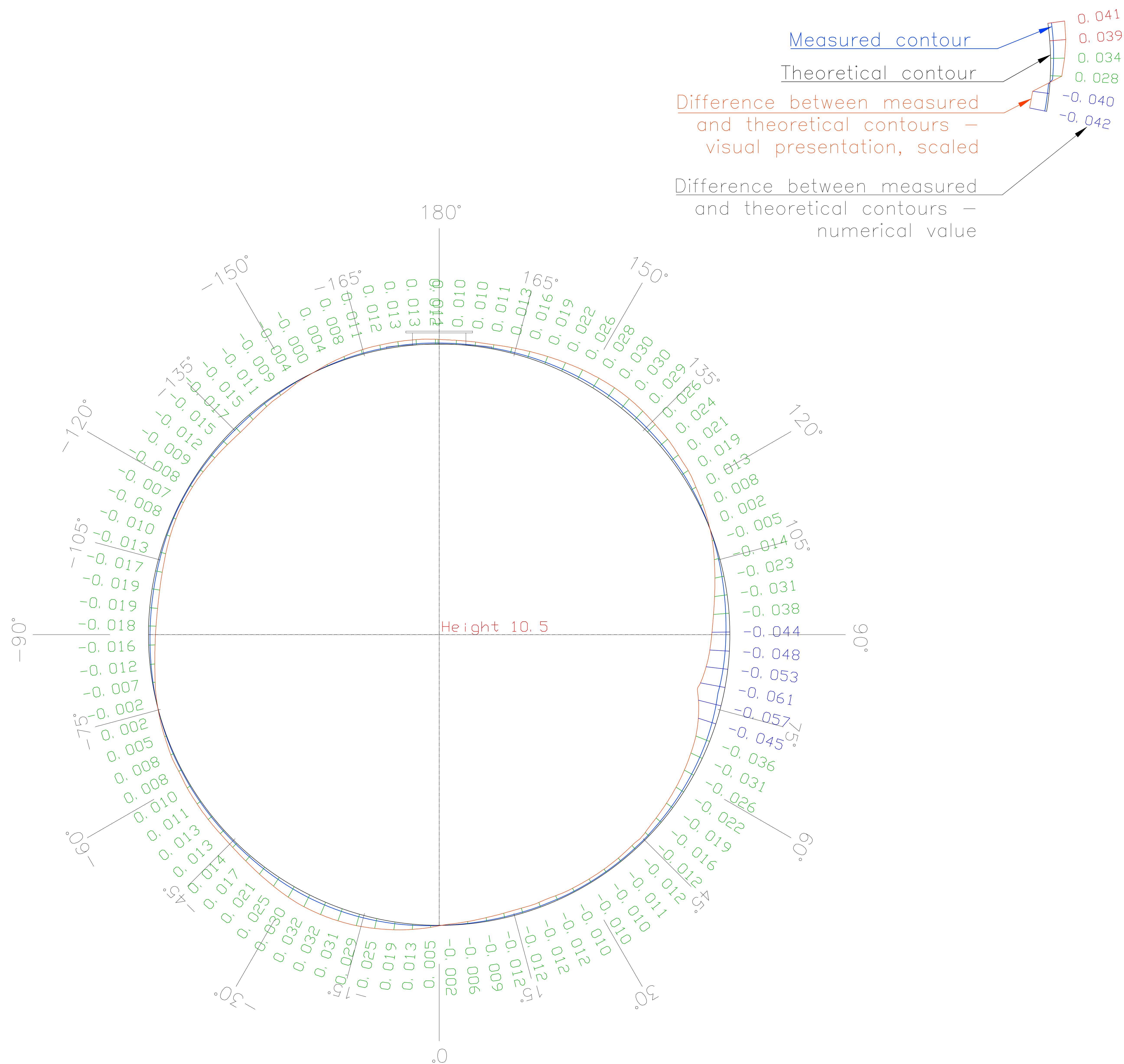
Roundness evaluation

Crossection height 9

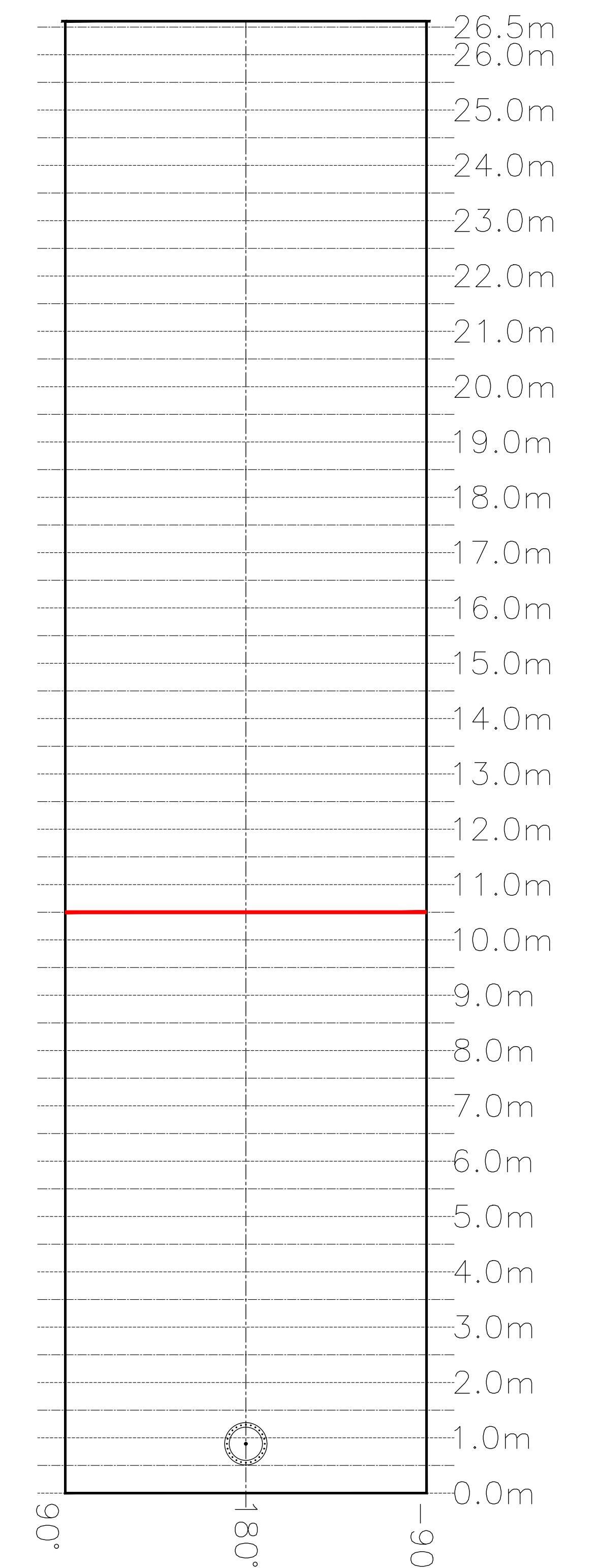
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



Roundness evaluation

Crossection height 10.5

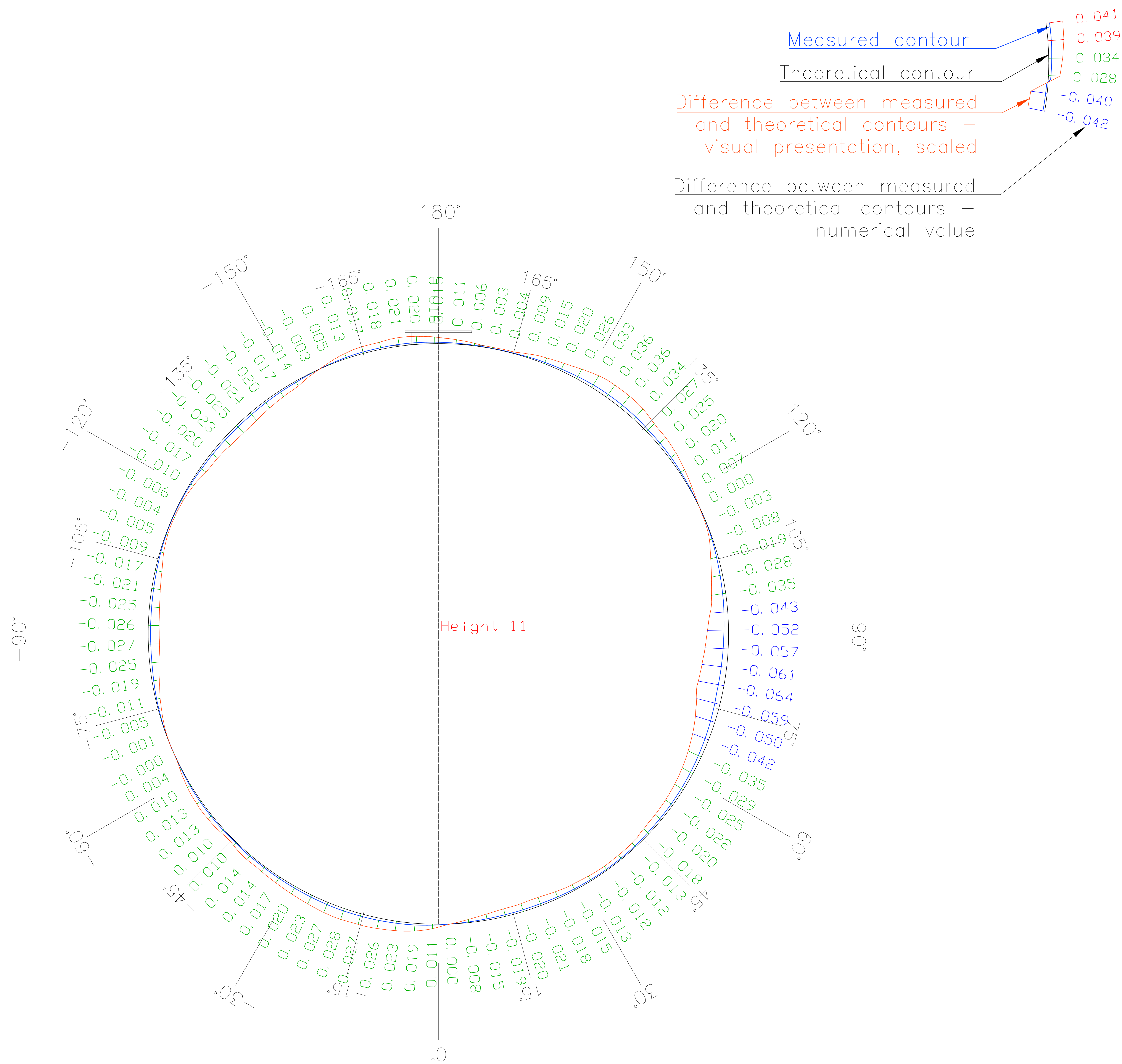
נורד ג.ש.

מדידה והנדסה בע"מ

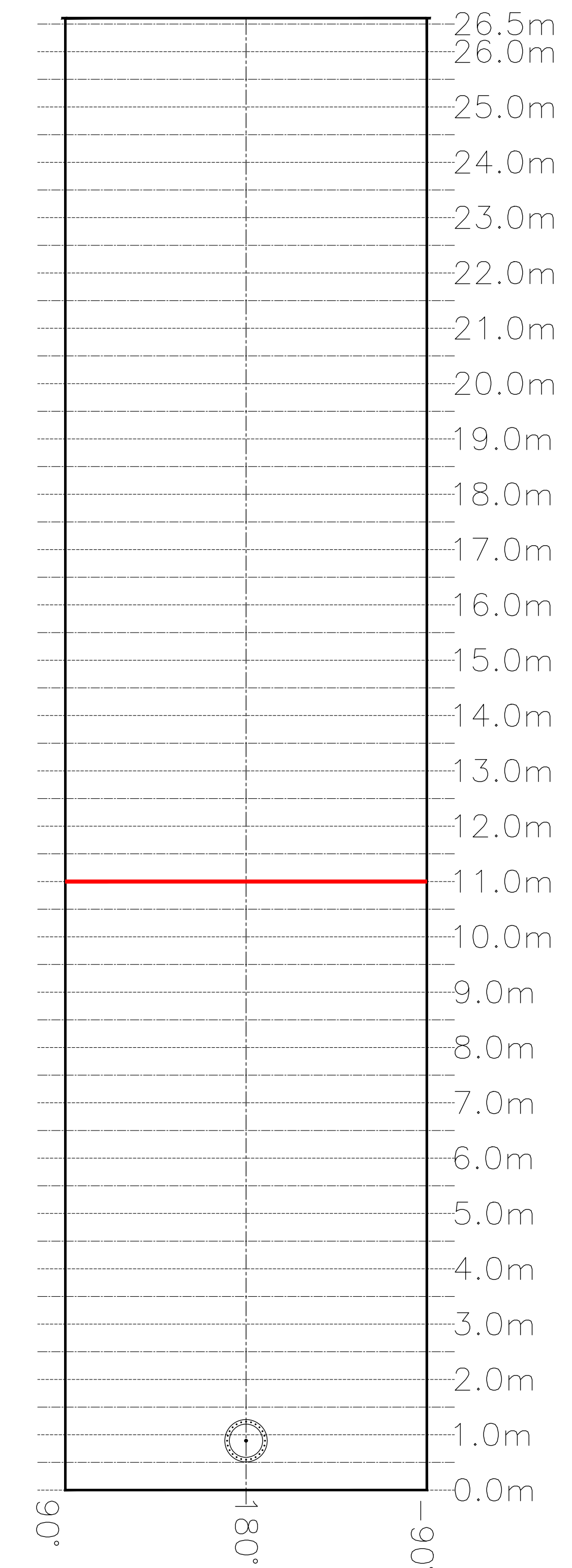
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



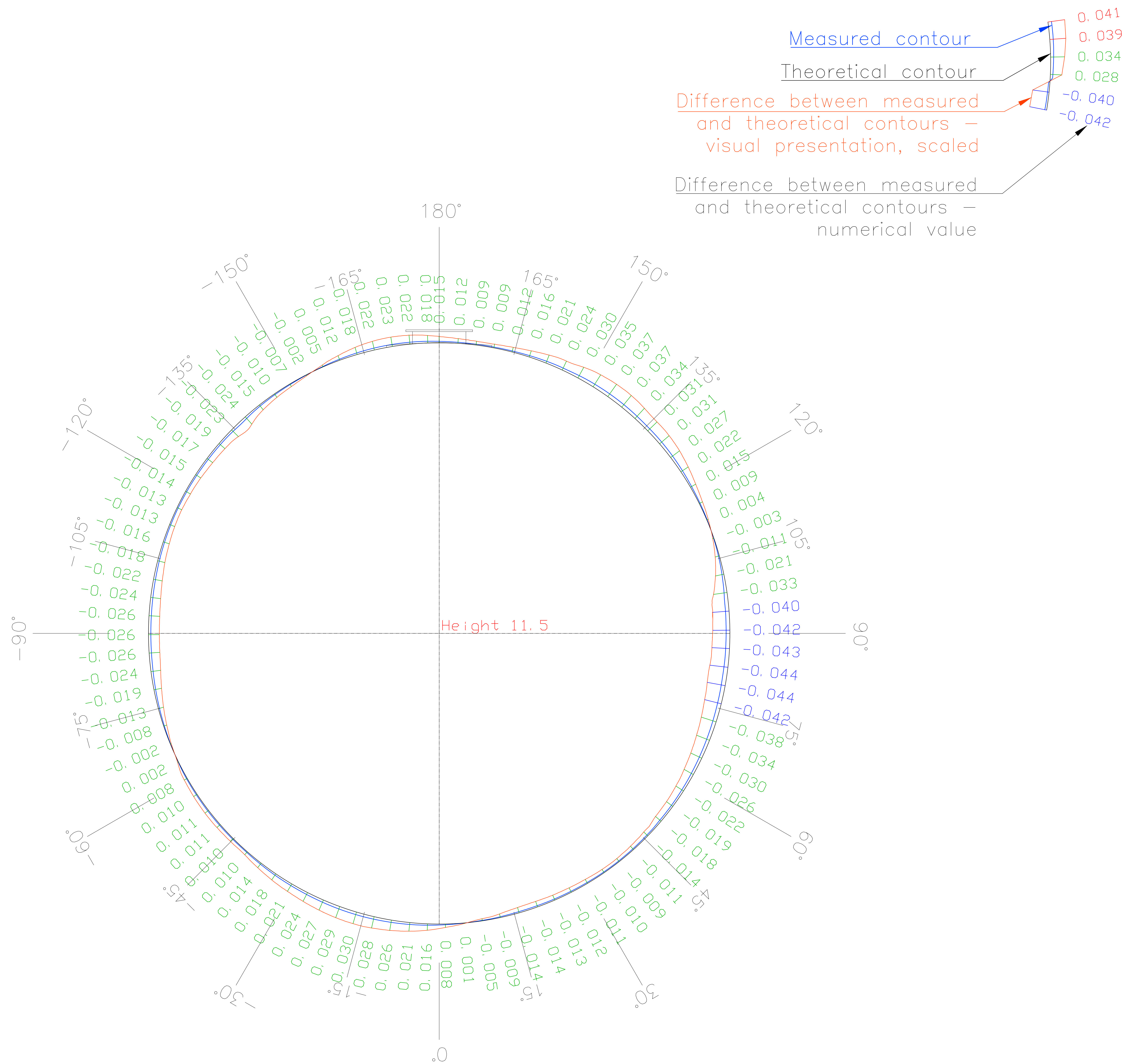
Roundness evaluation

Crossection height 11

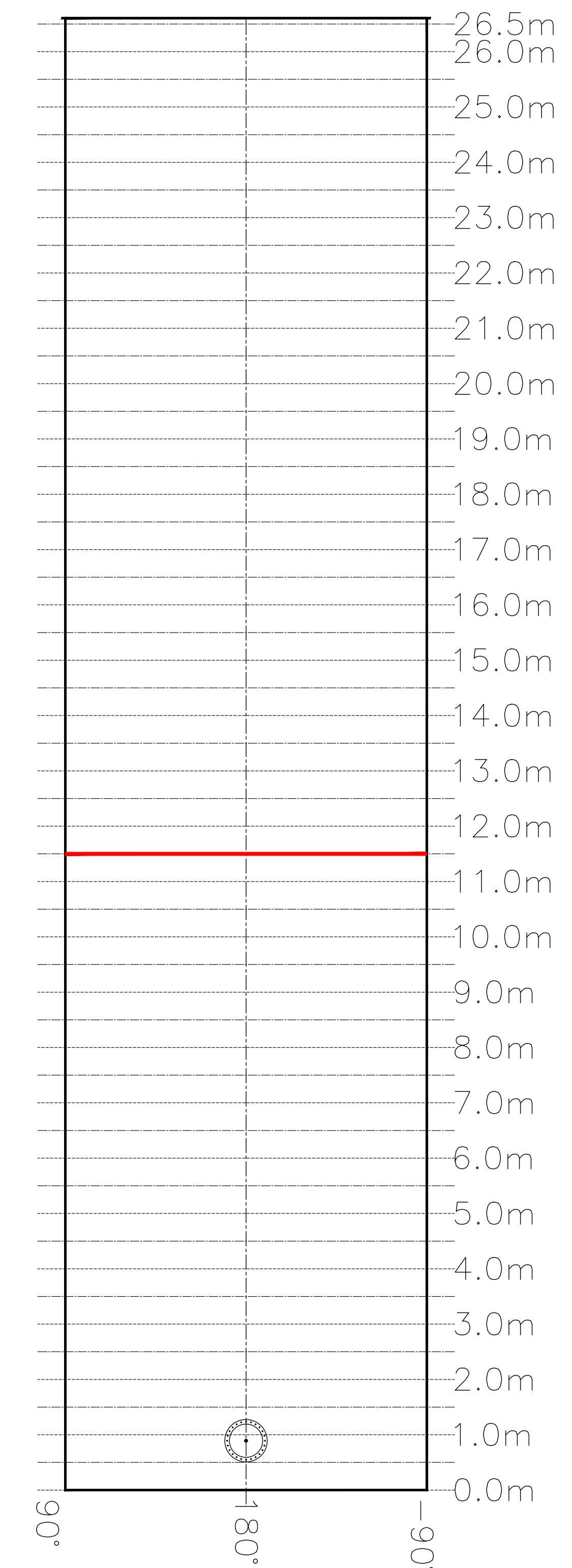
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



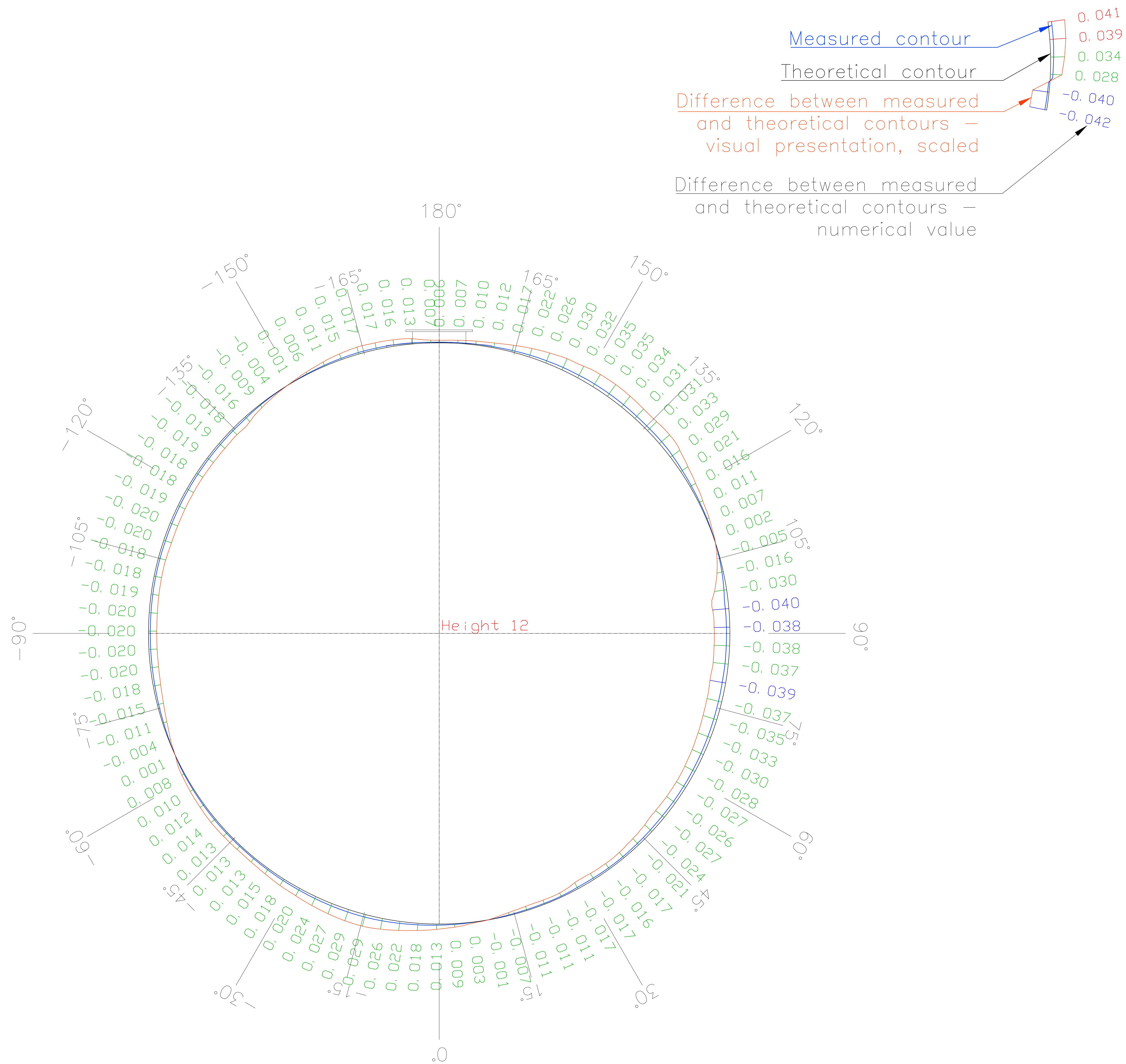
Roundness evaluation

Crossection height 11.5

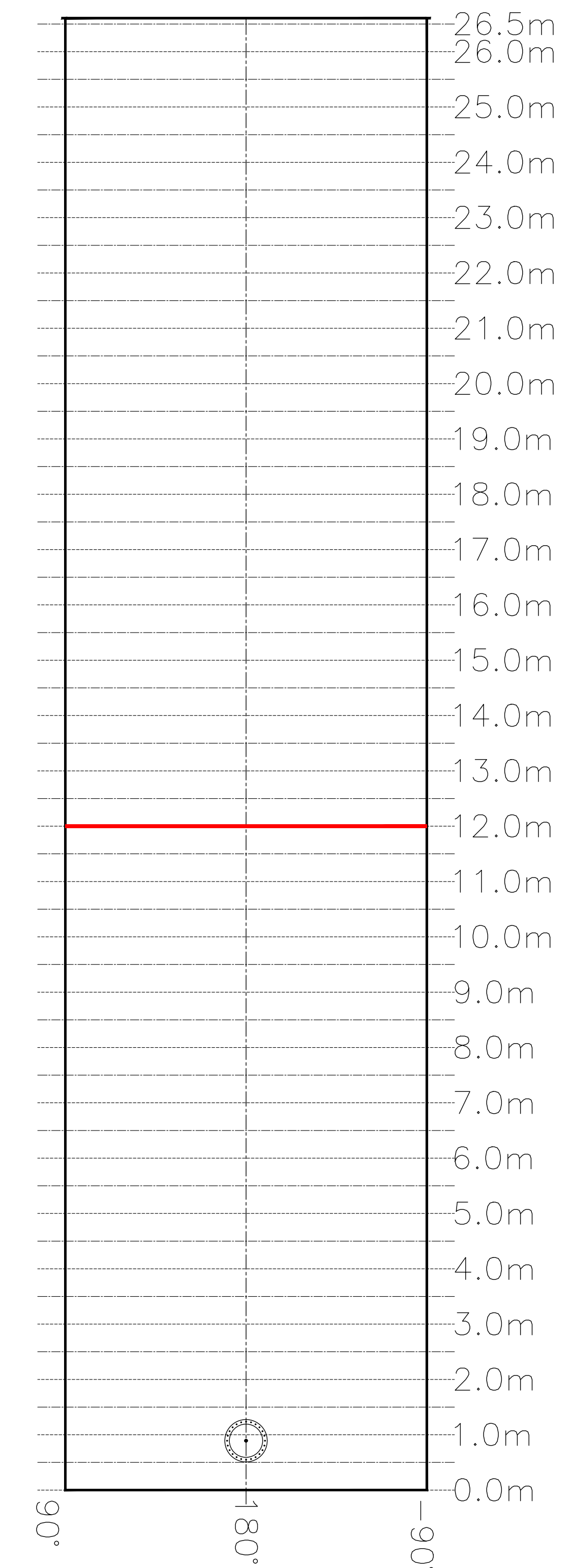
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



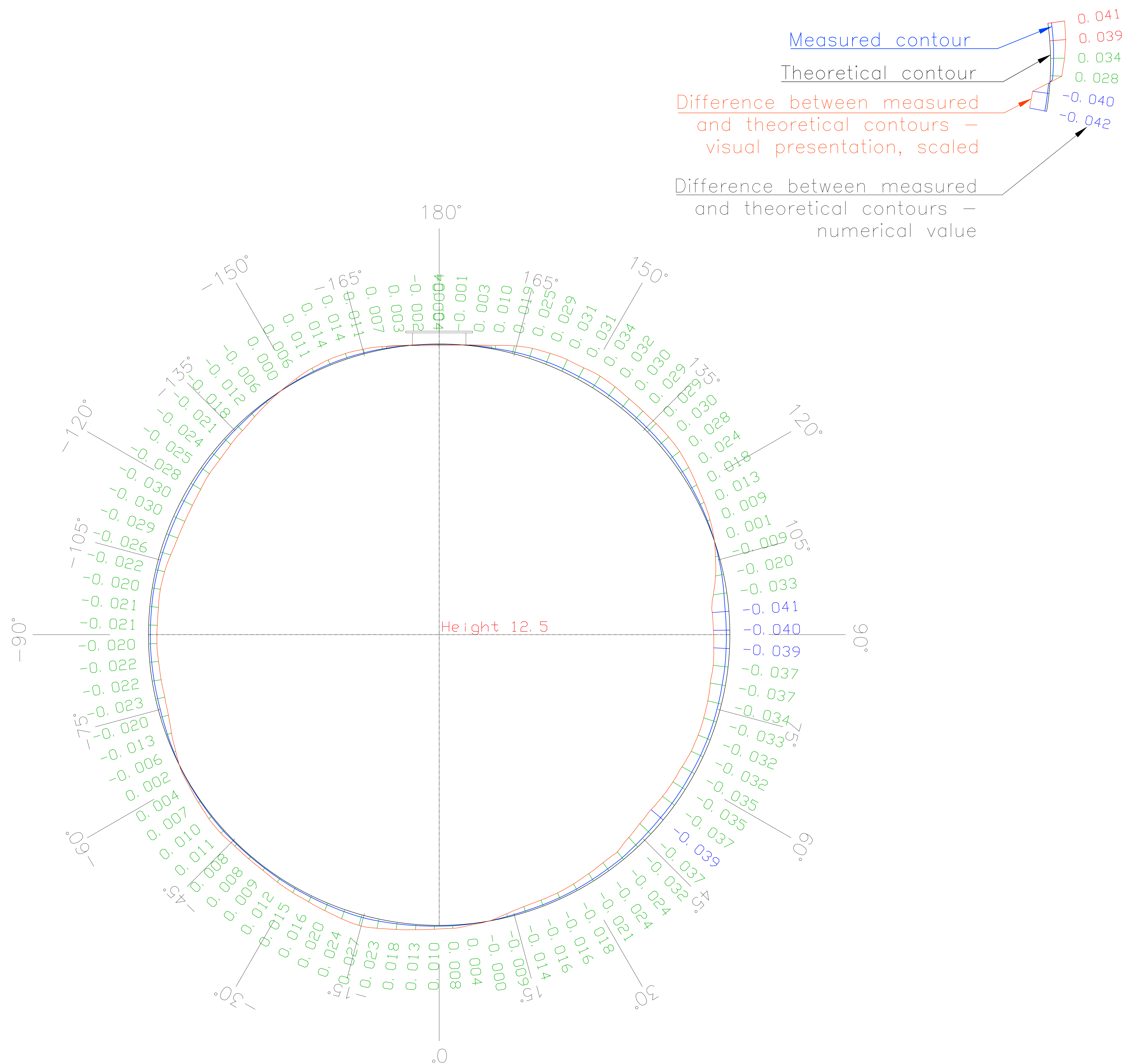
Roundness evaluation

Crosssection height 12

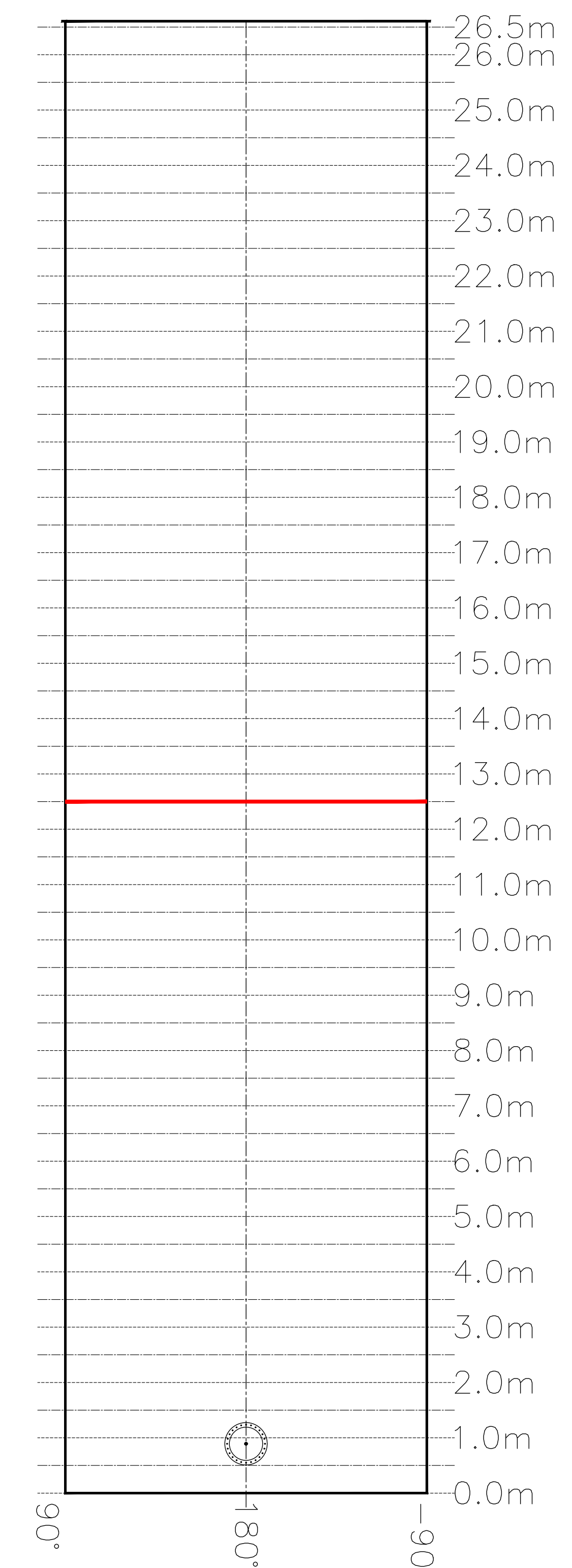
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



Roundness evaluation

Crossection height 12.5

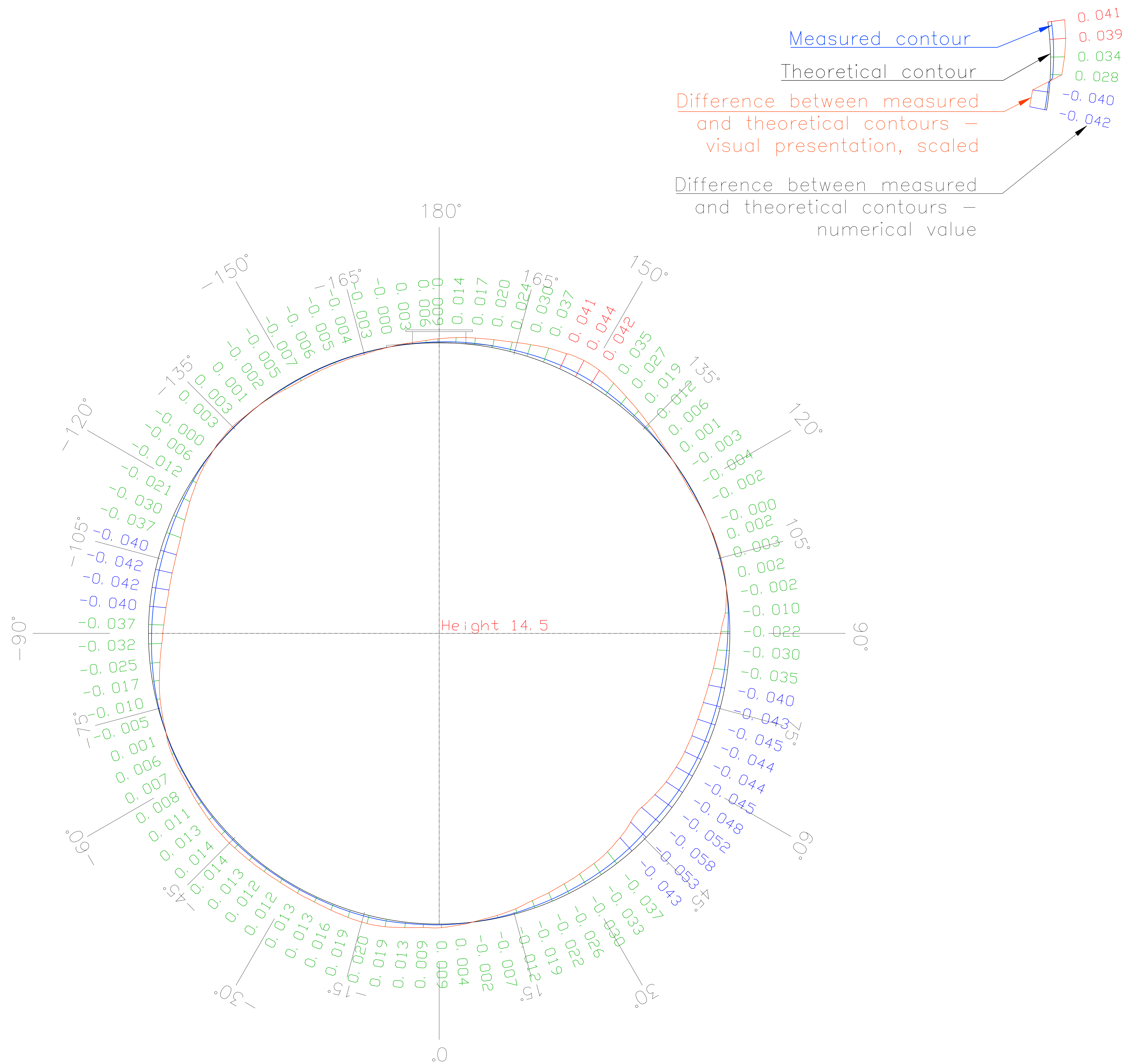
נורד ג.ש.

מדידה והנדסה בע"מ

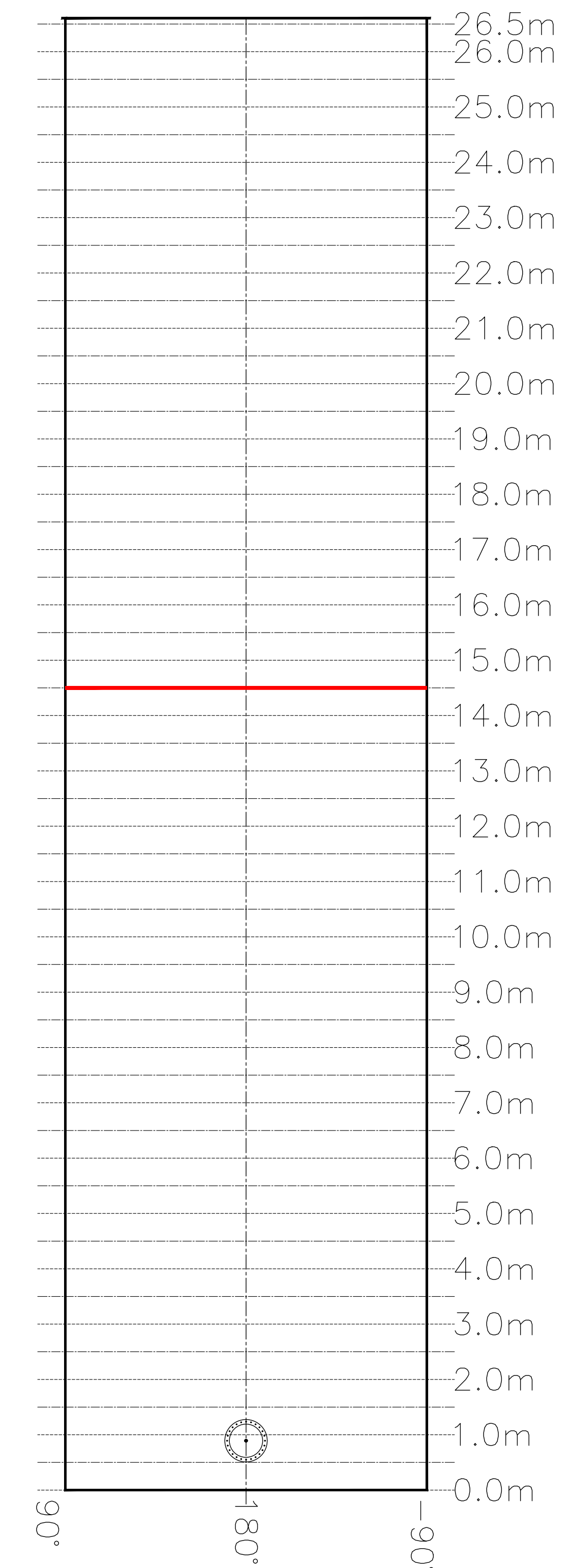
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



Roundness evaluation

Crossection height 14.5

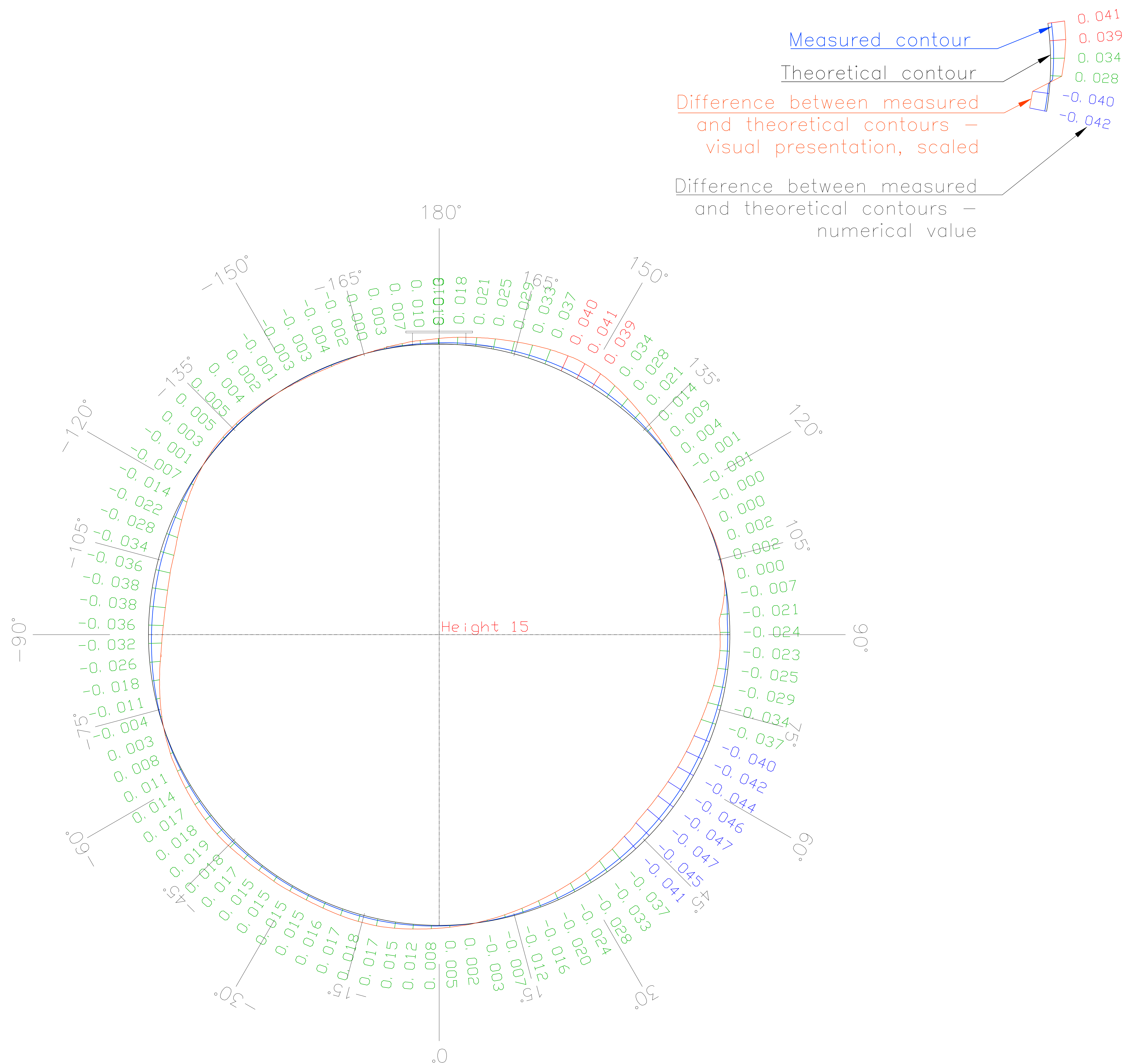
נורד ג.ש.

מדידה והנדסה בע"מ

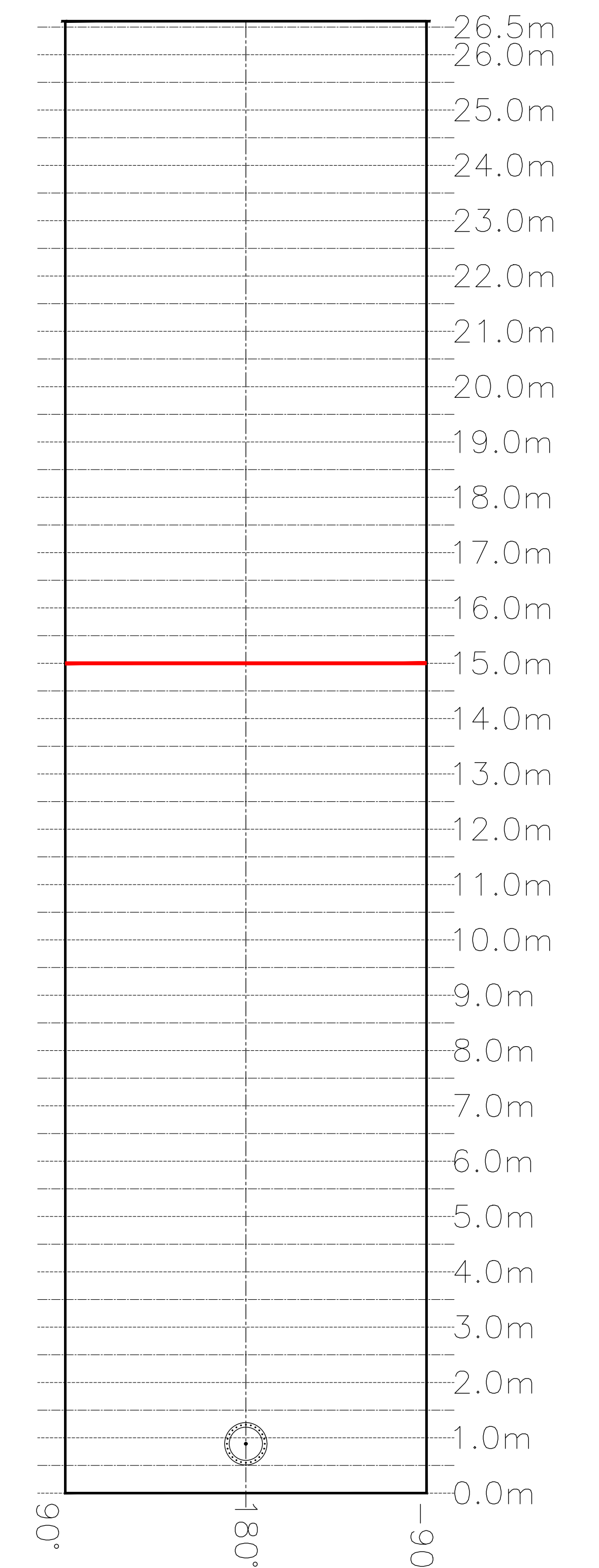
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



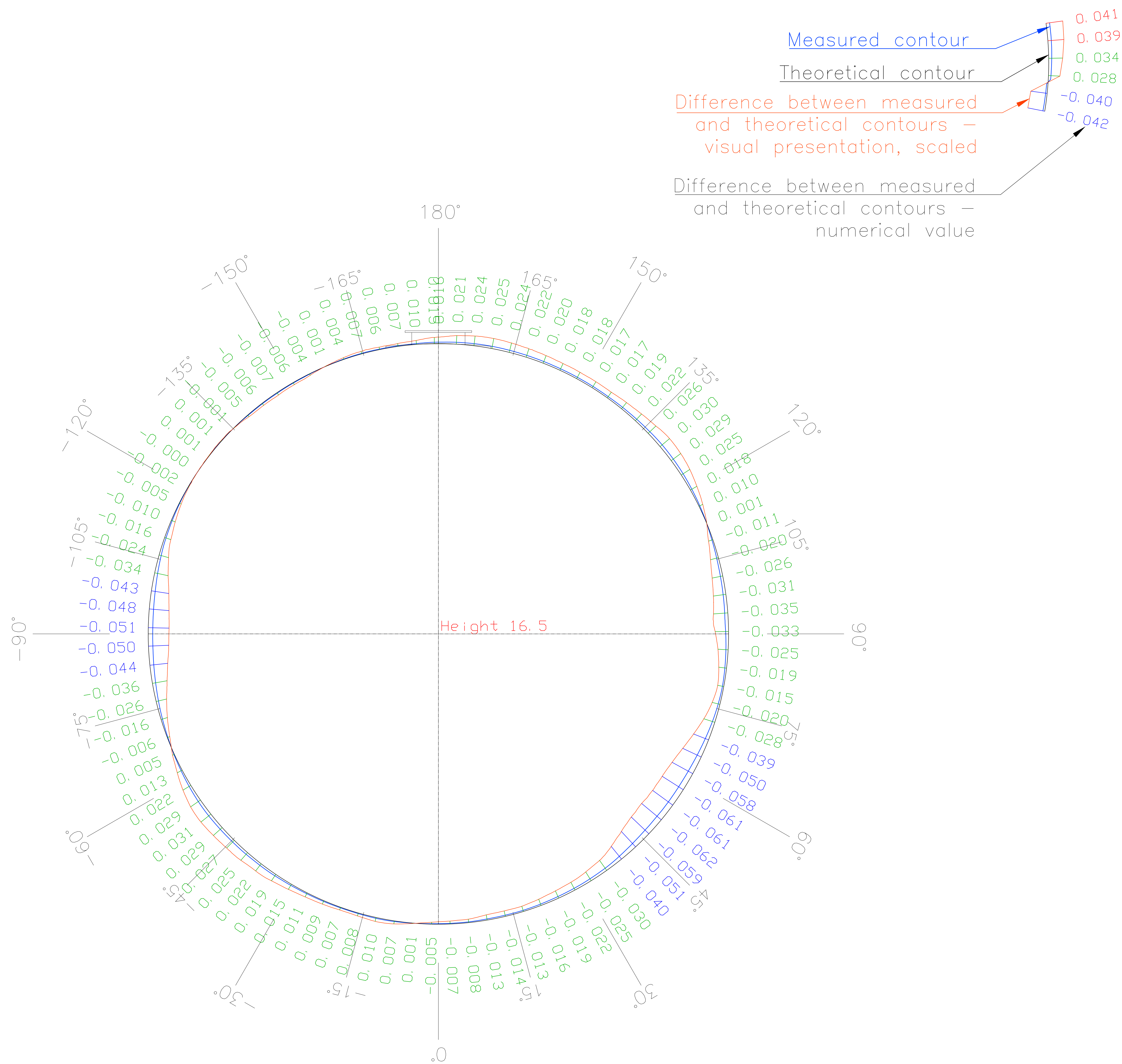
Roundness evaluation

Crossection height 15

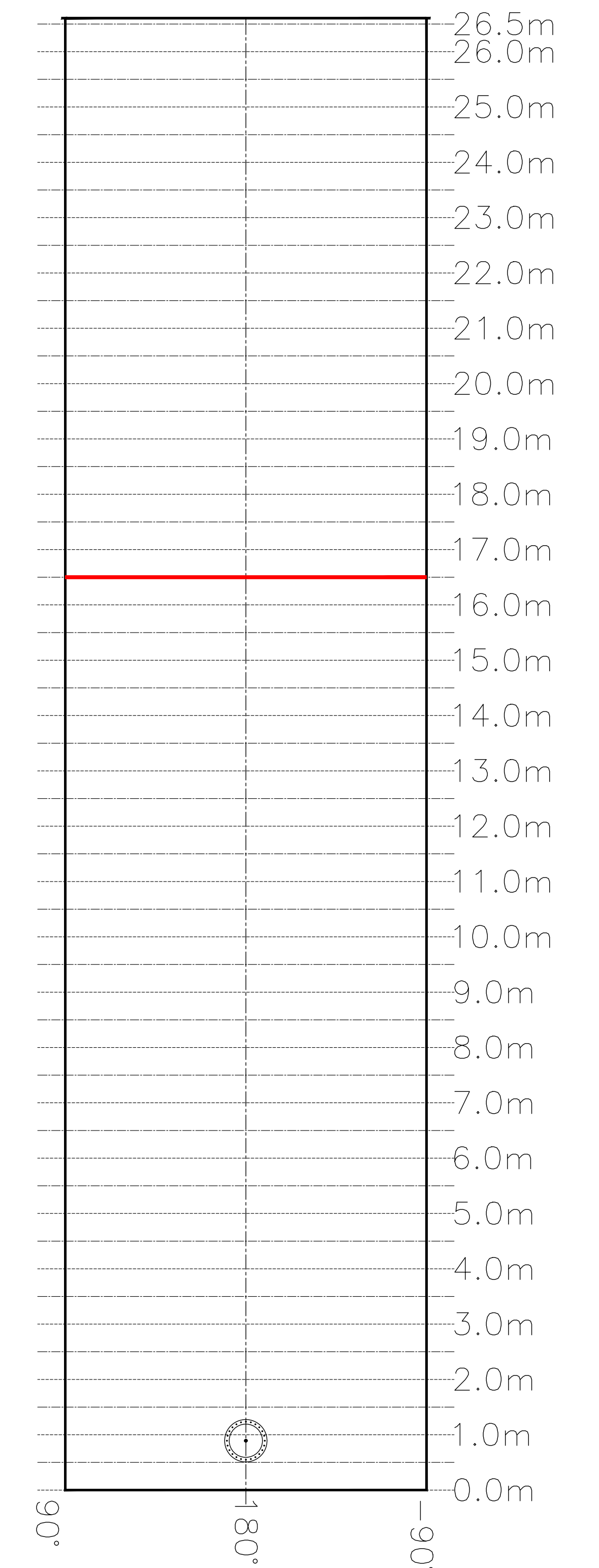
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



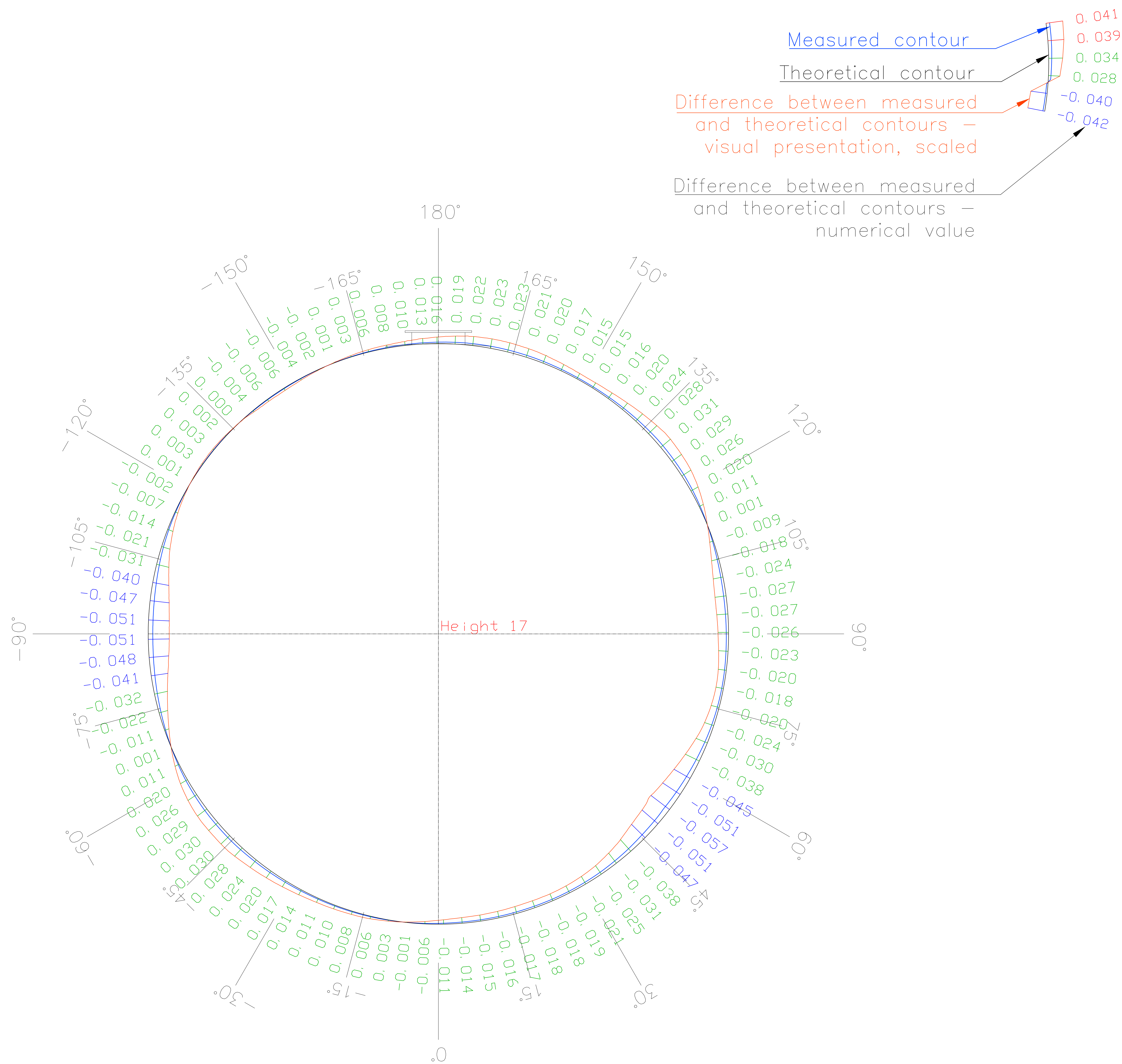
Roundness evaluation

Crossection height 16.5

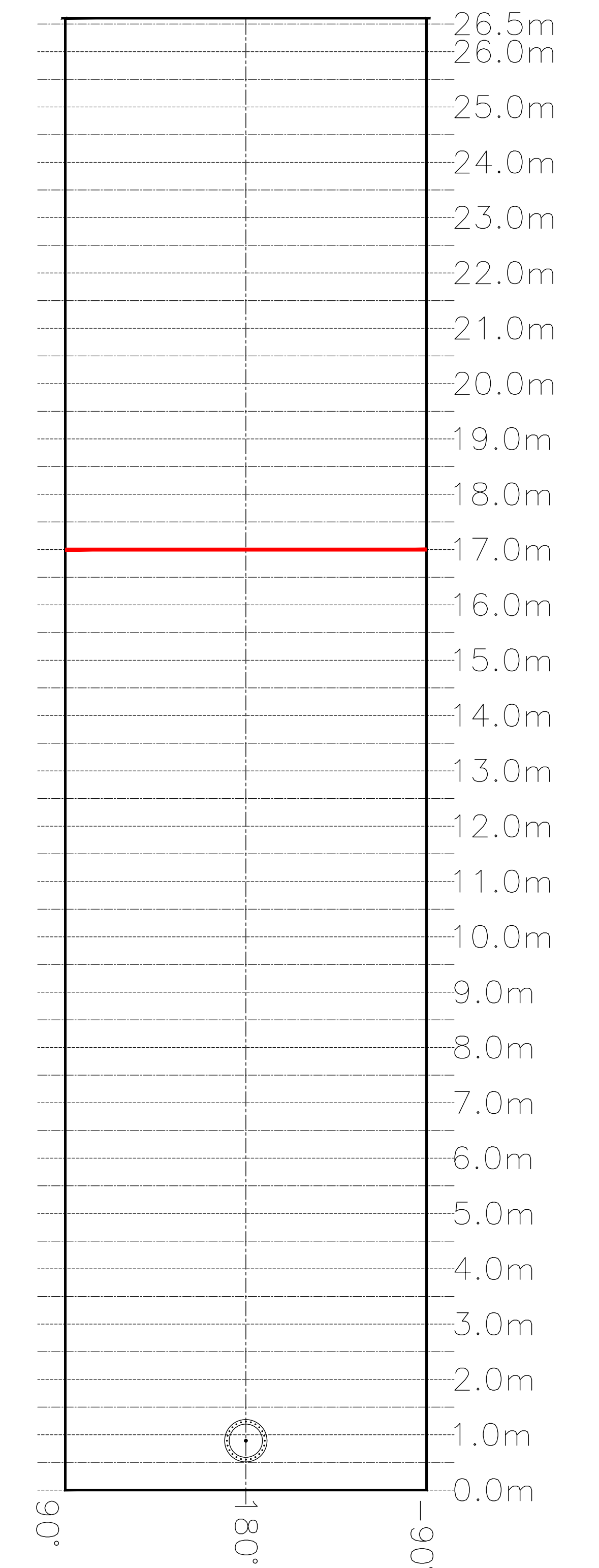
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

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Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



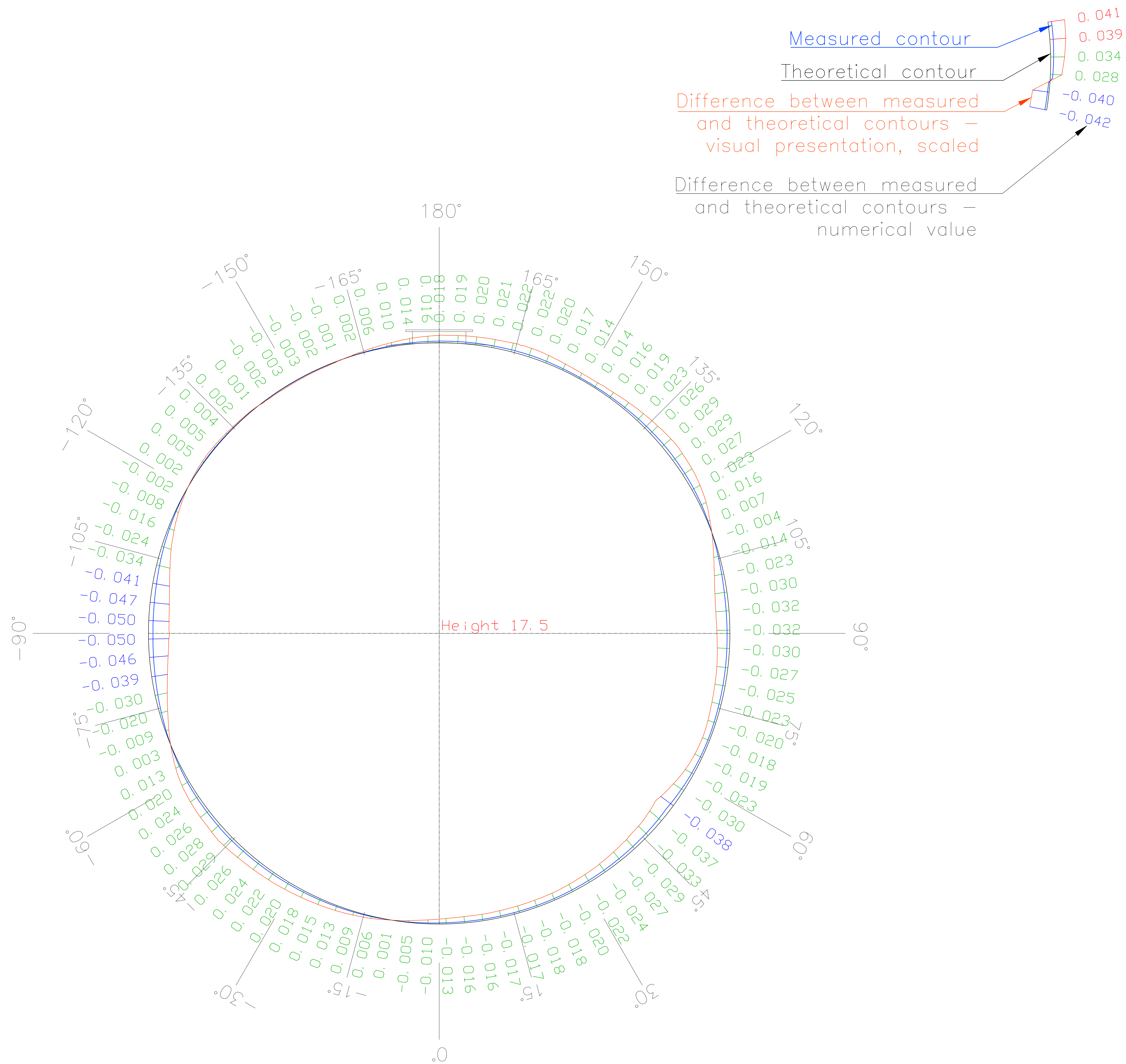
Roundness evaluation

Crossection height 17

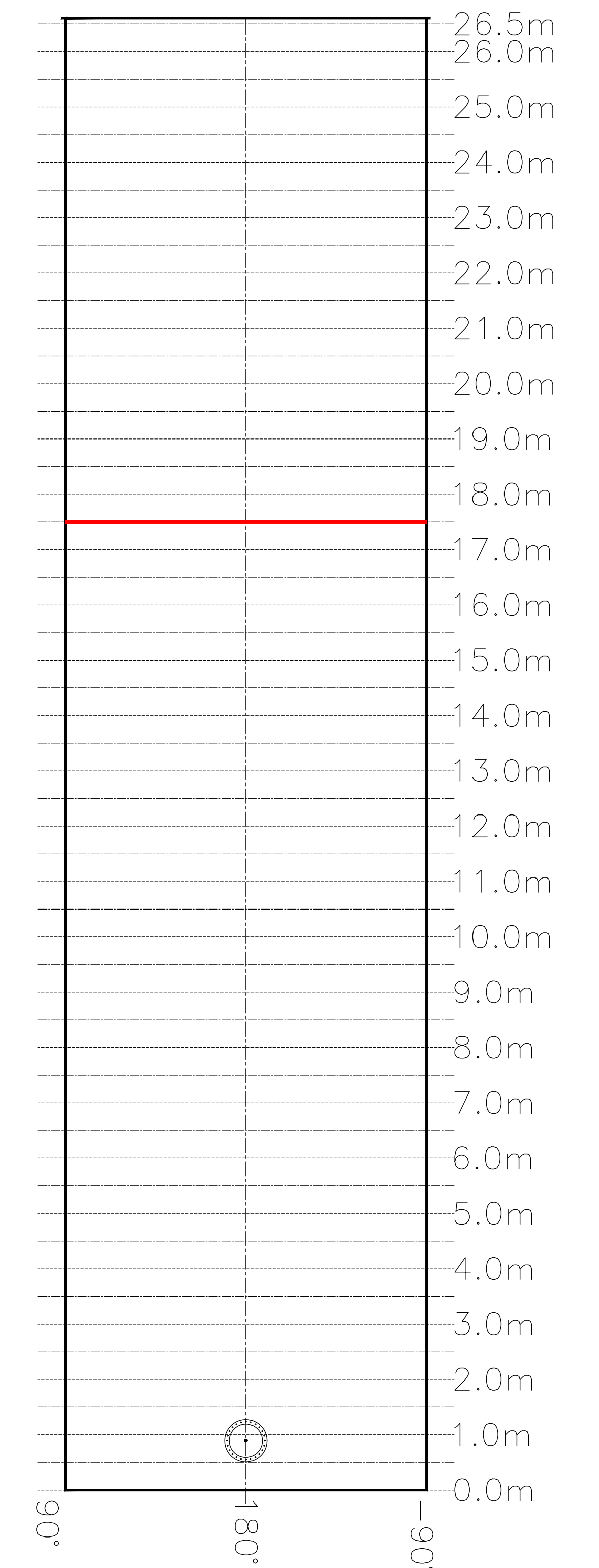
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



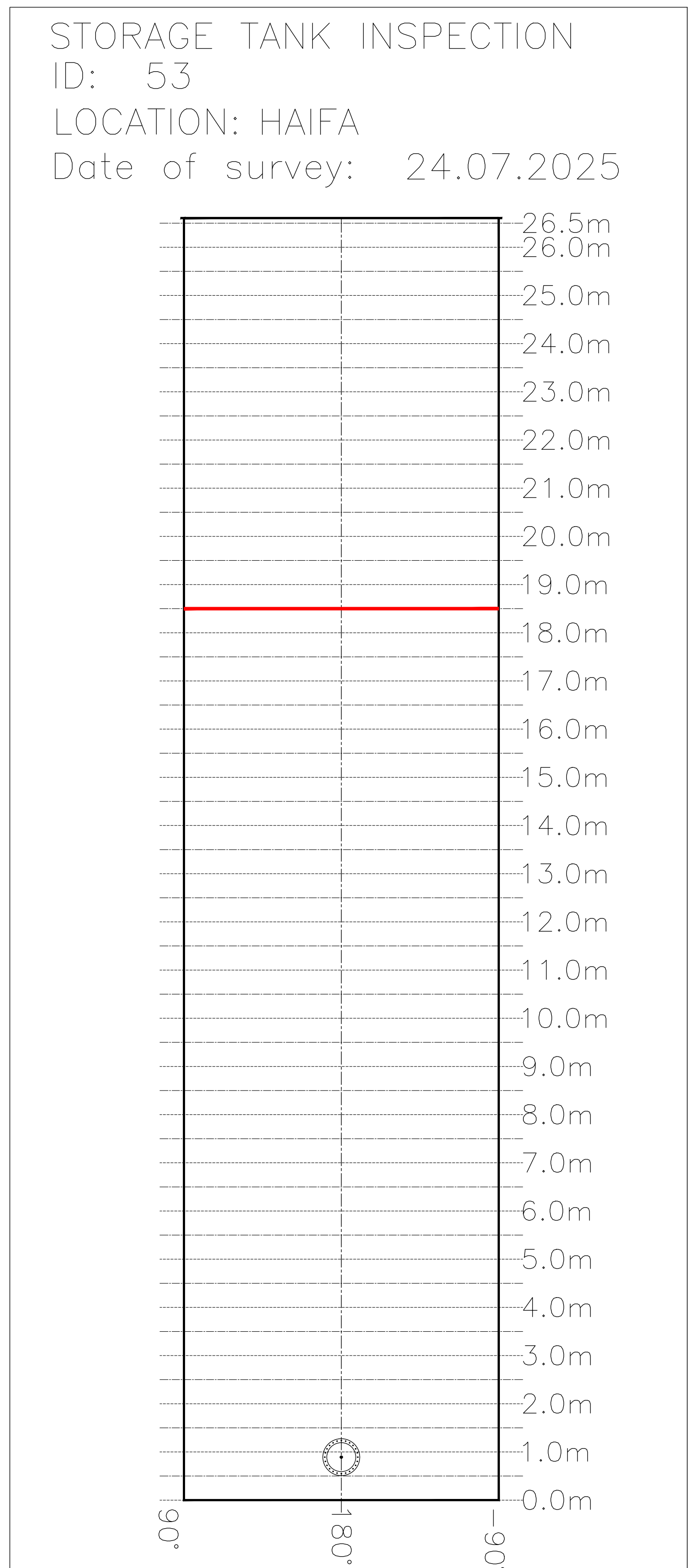
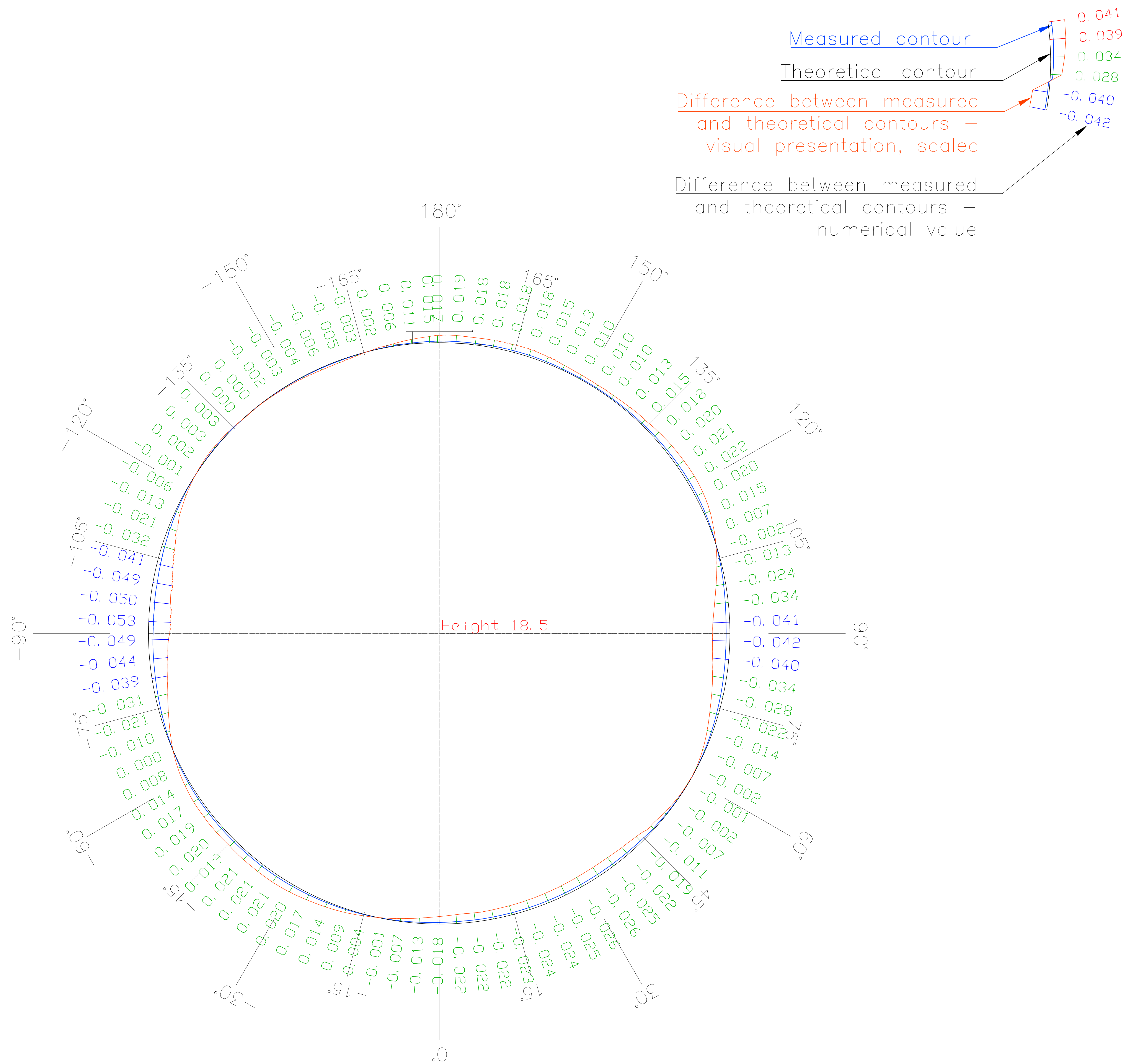
Roundness evaluation

Crossection height 17.5

נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

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Roundness evaluation

Crossection height 18.5

נורד ג.ש.

מדידה והנדסה בע"מ

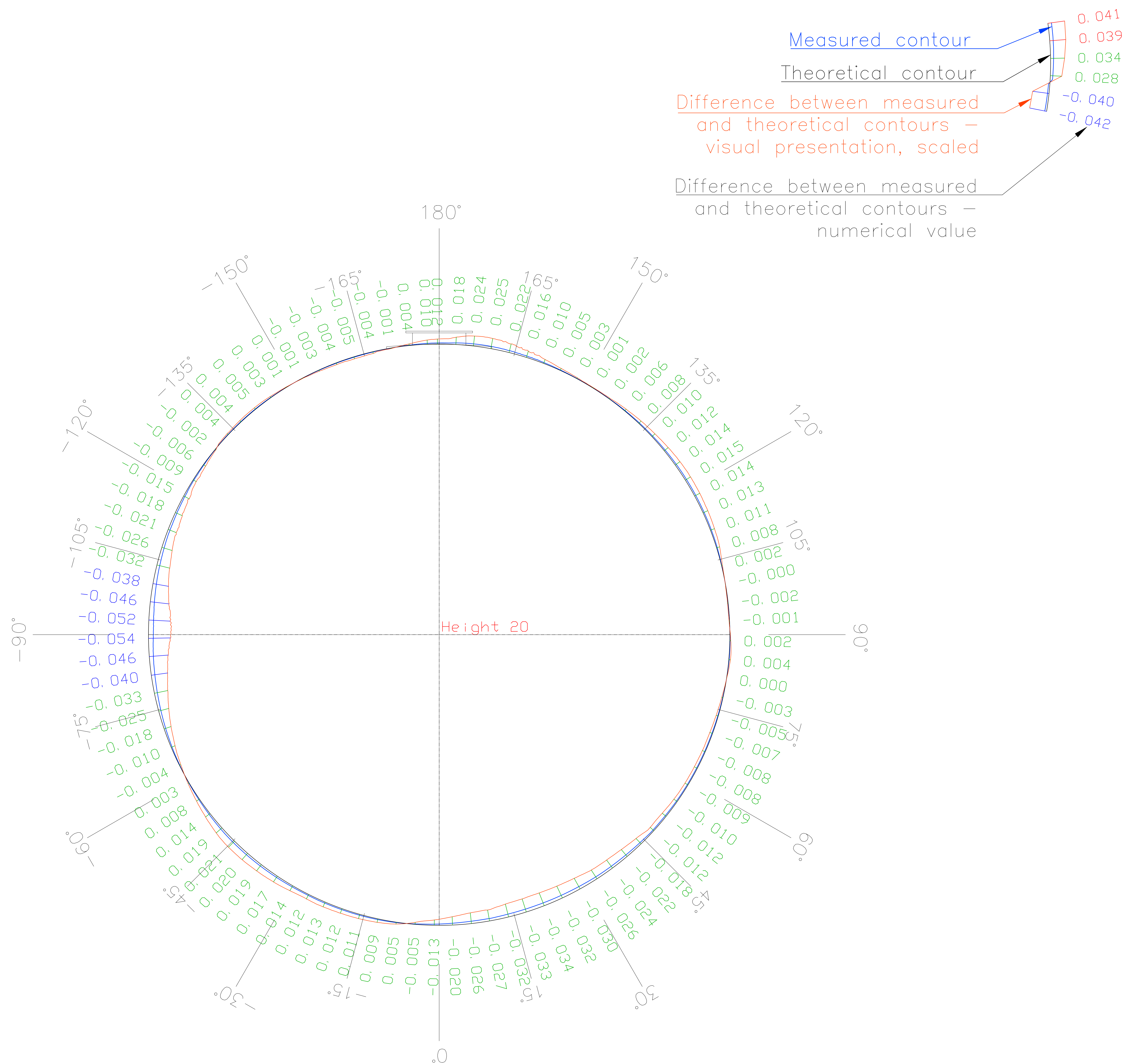
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)

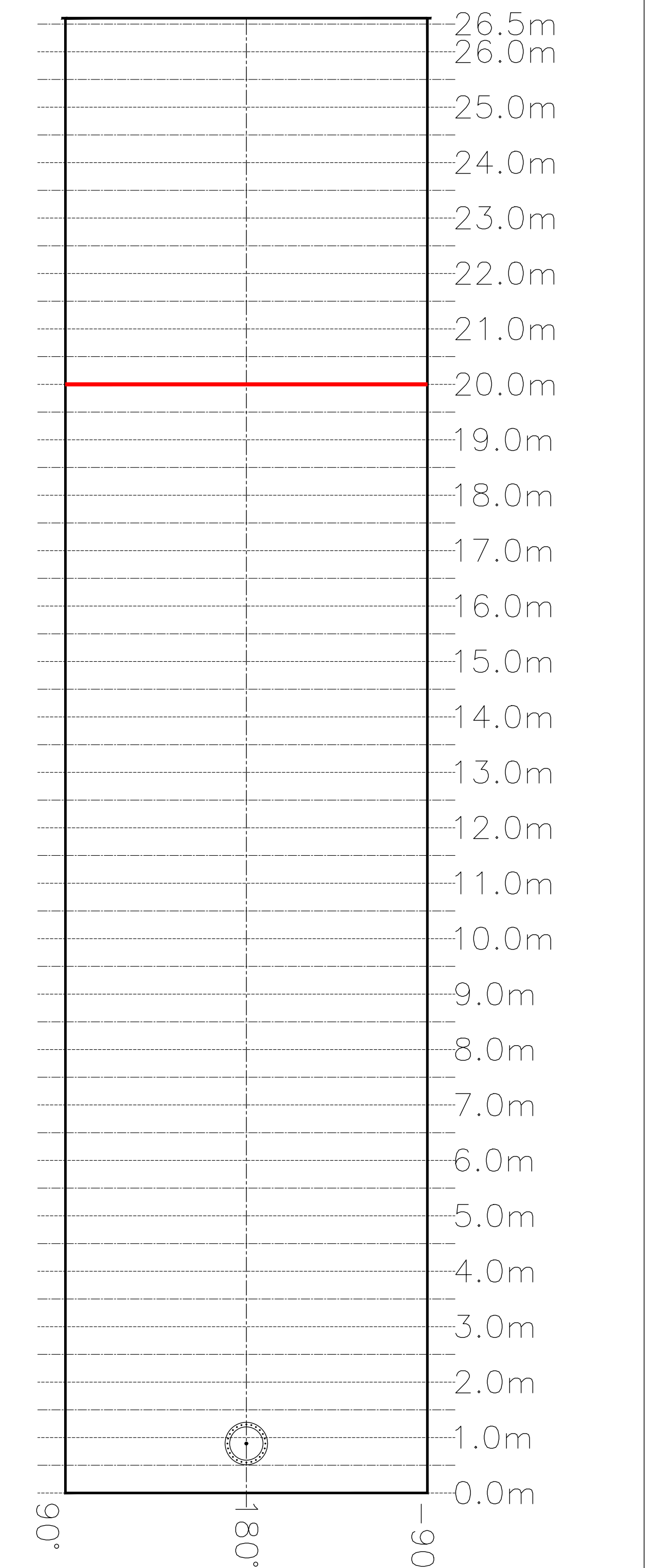
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:

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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



Roundness evaluation

Crossection height 20

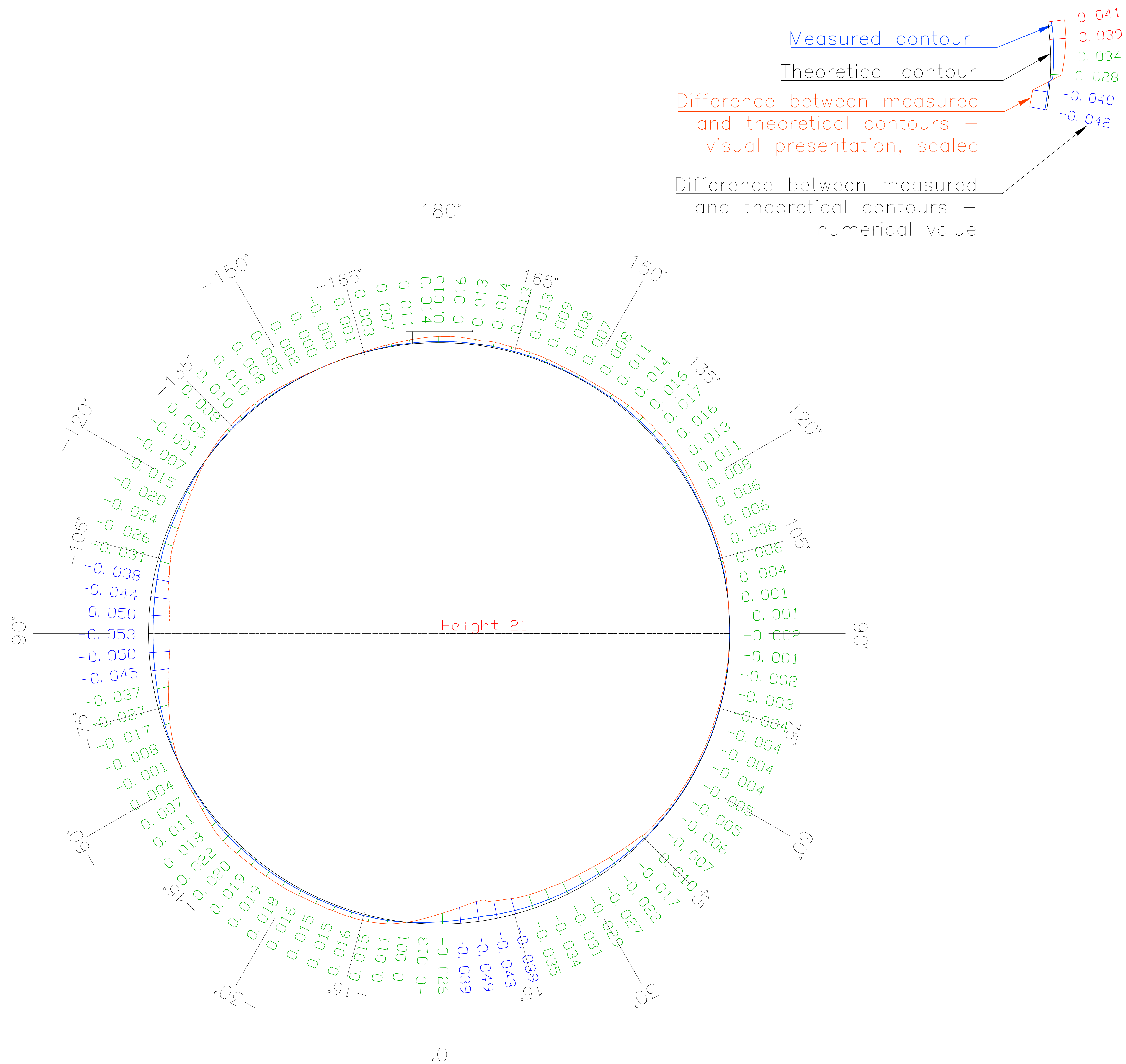
נורד ג.ש.

מדידה והנדסה בע"מ

טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

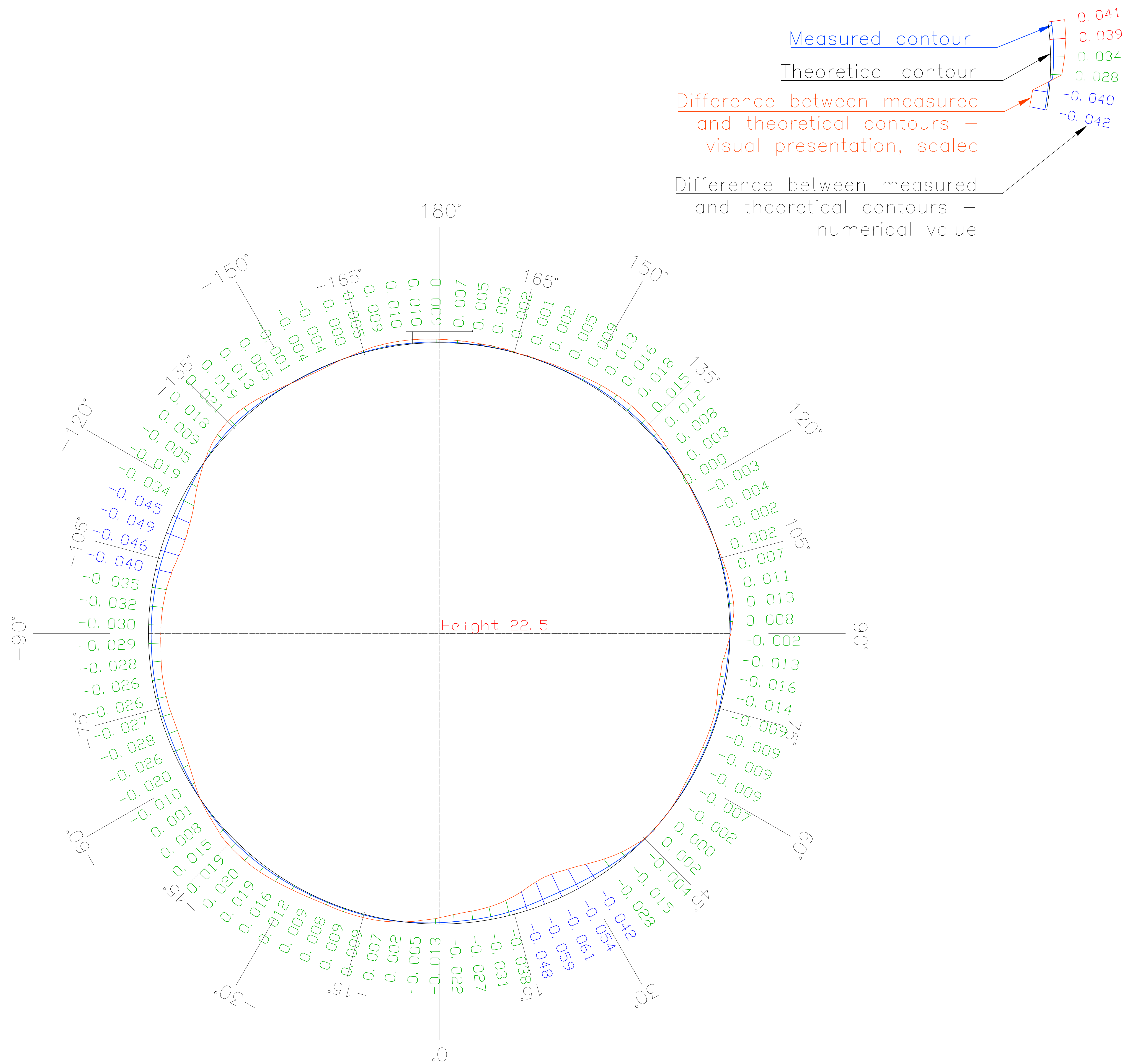
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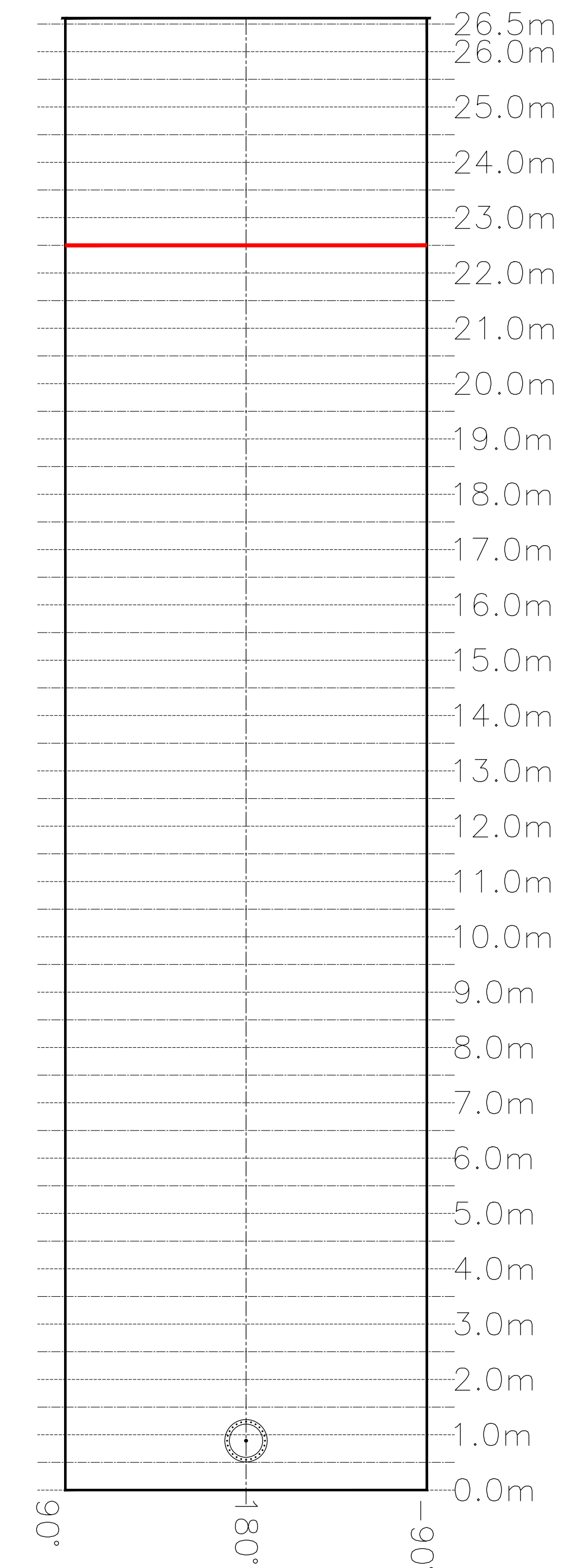
STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025

Roundness evaluation
Crossection height 21

נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322



STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



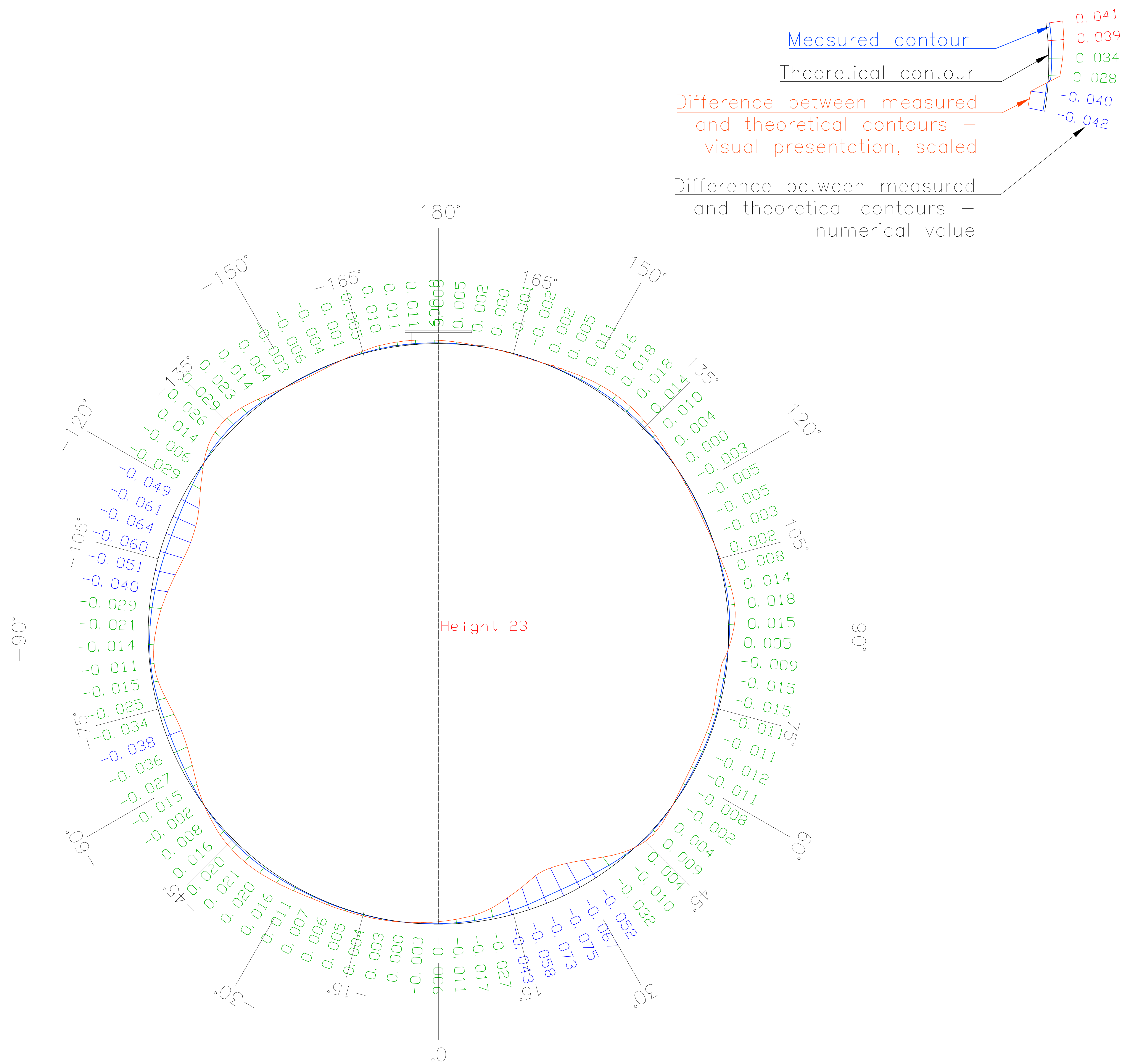
Roundness evaluation

Crossection height 22.5

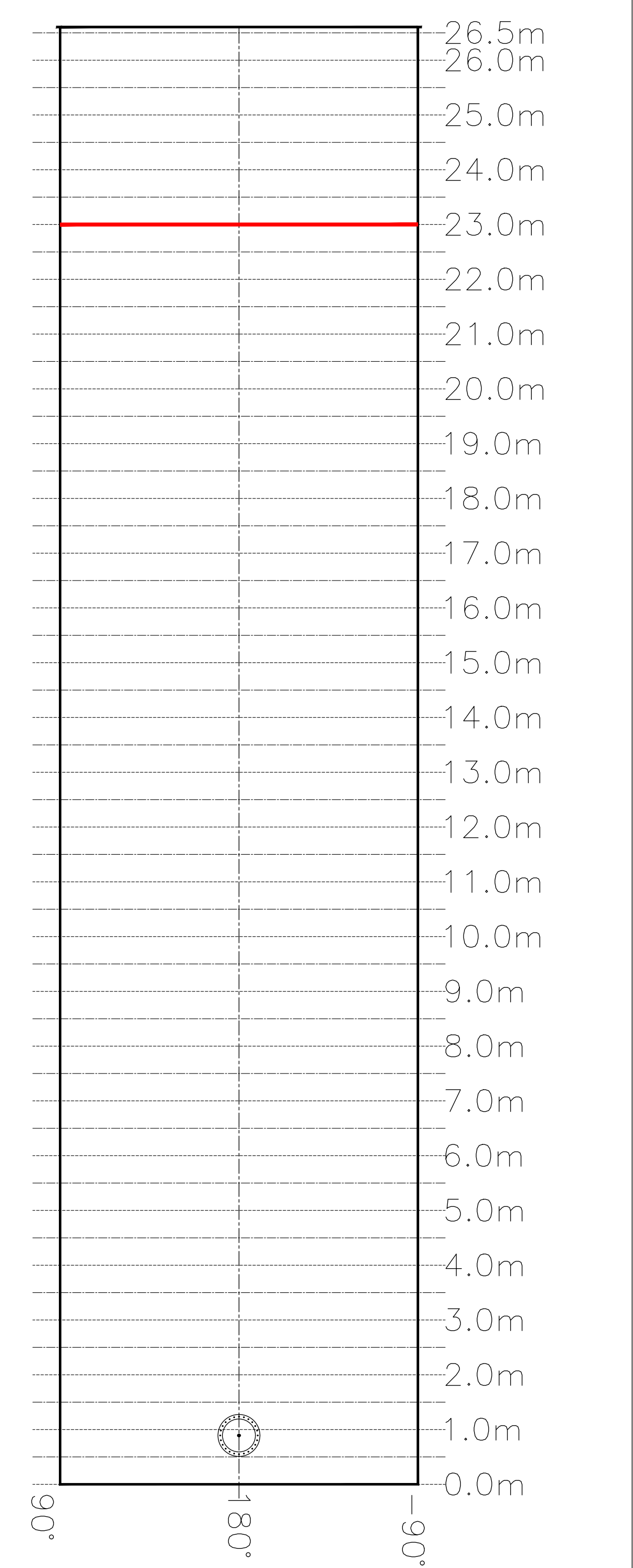
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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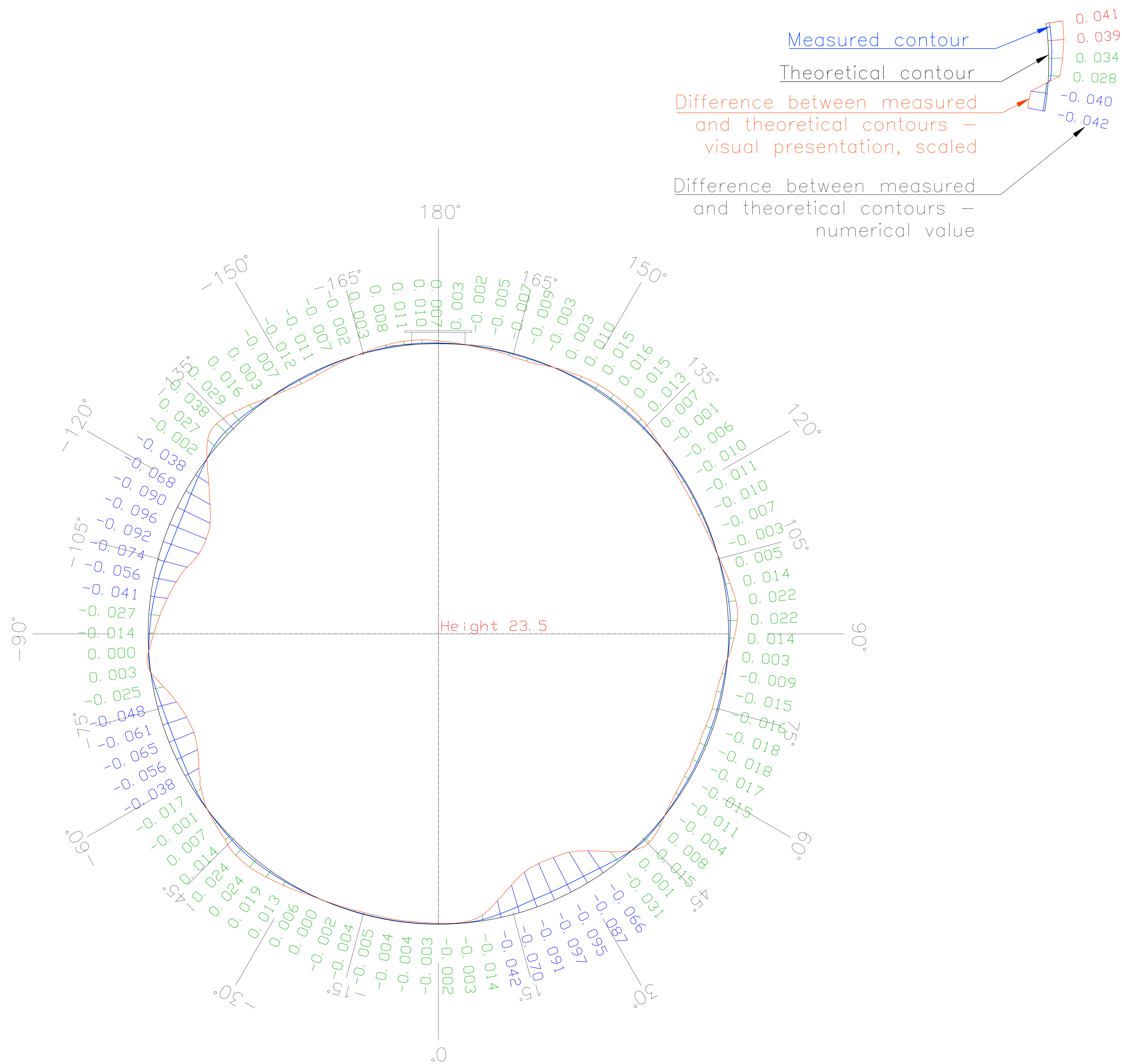


STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025

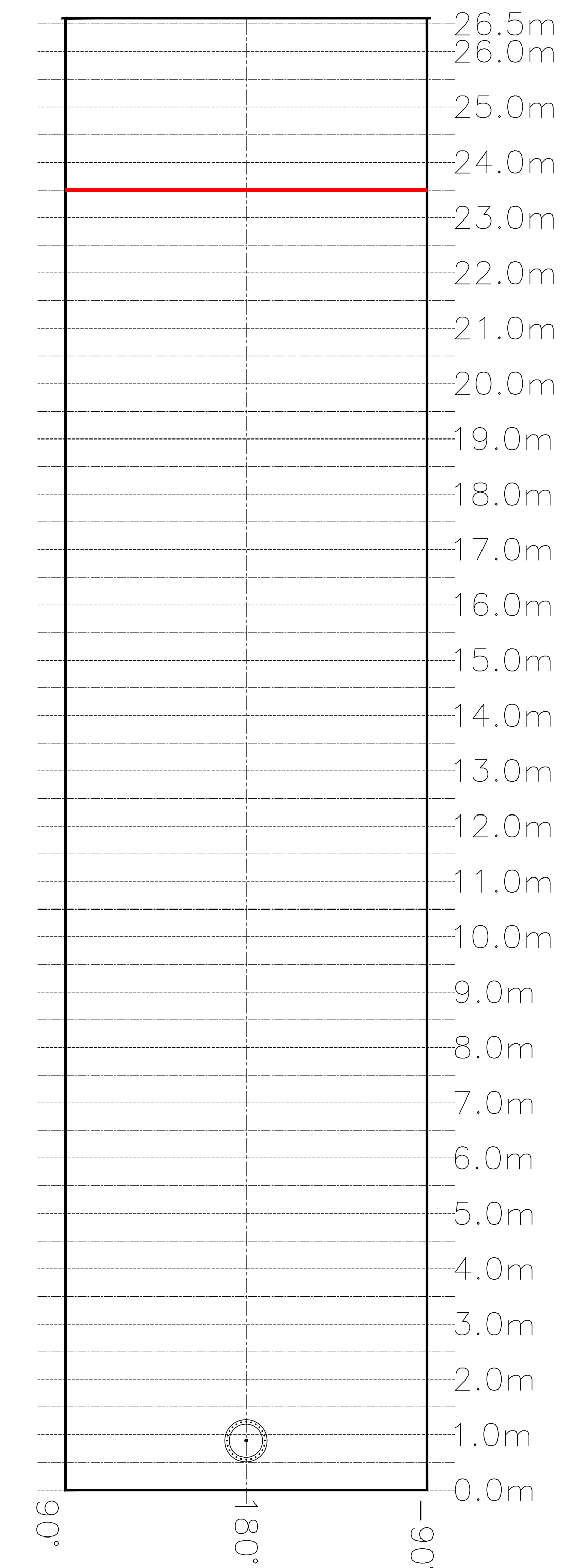


Roundness evaluation
Crossection height 23

נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322



STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



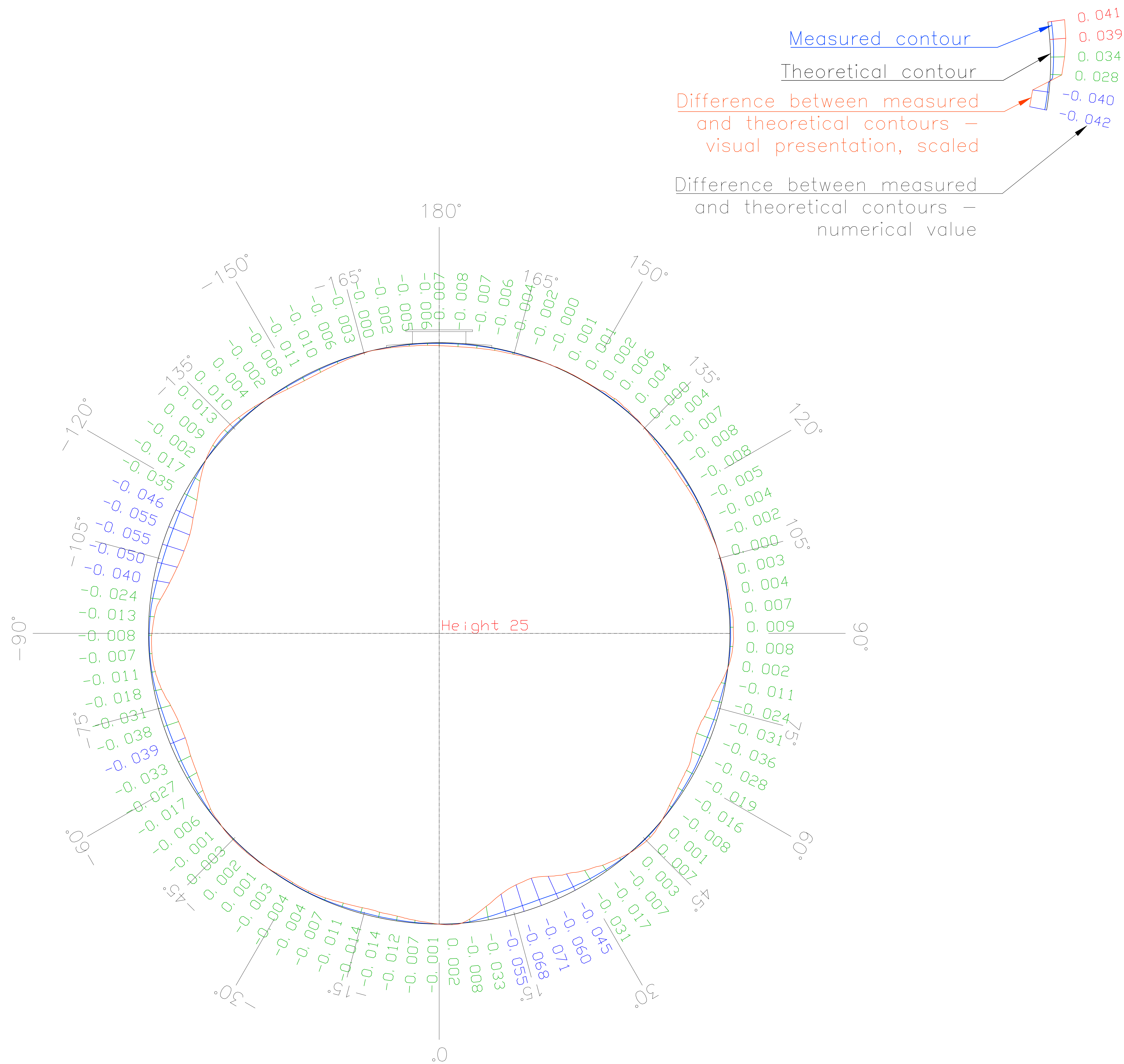
Roundness evaluation

Crossection height 23.5

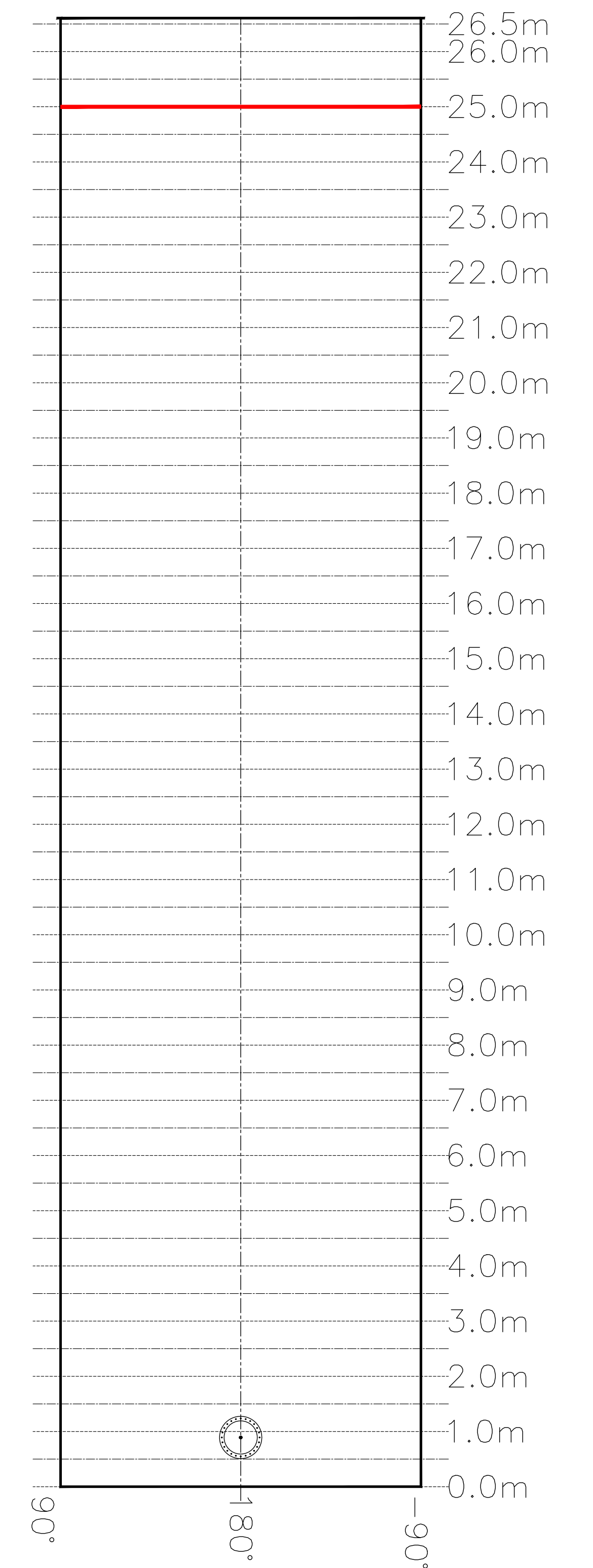
נורד ג.ש.
מדידה והנדסה בע"מ
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



Roundness evaluation

Crossection height 25

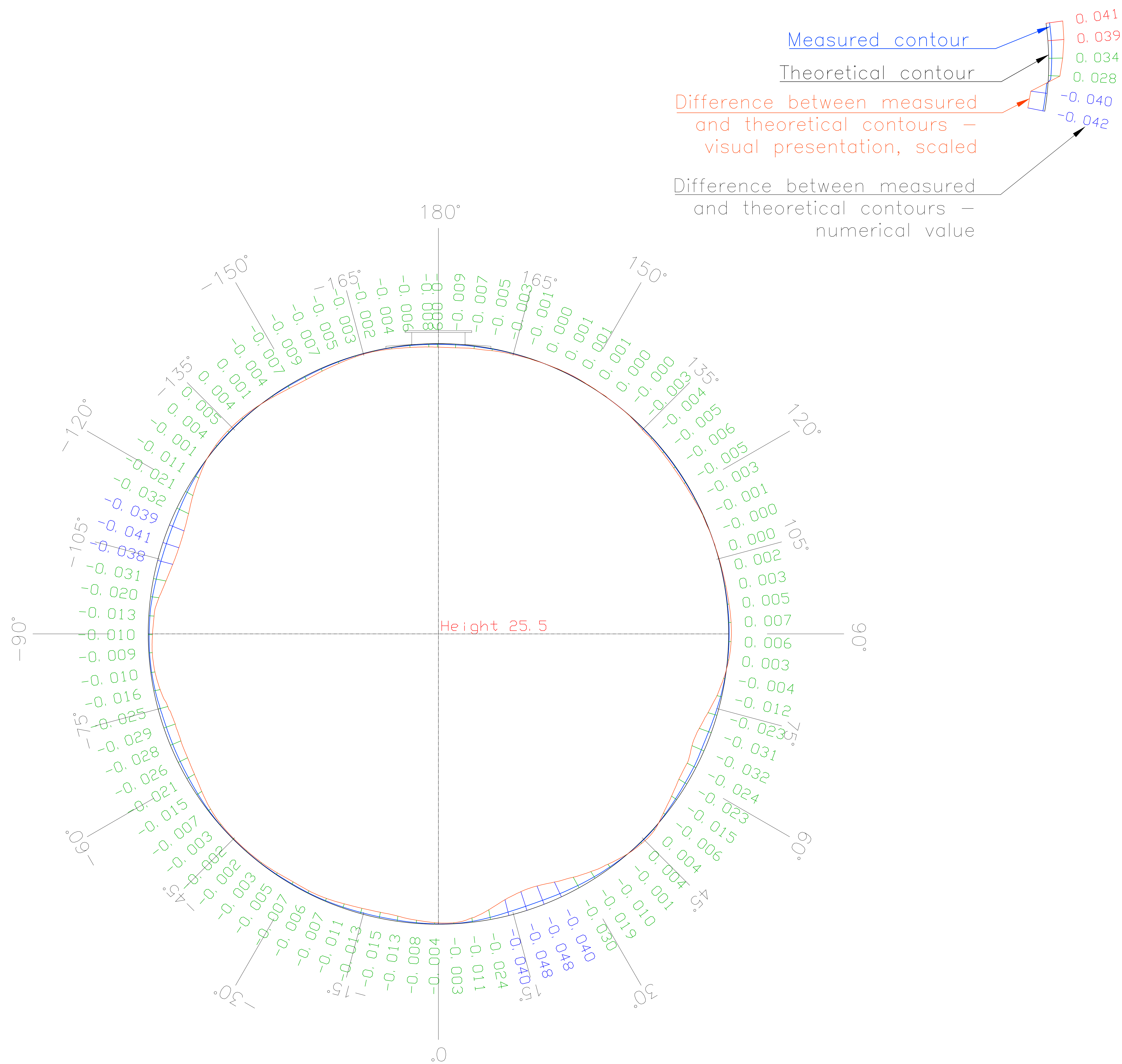
נורד ג.ש.

מדידה והנדסה בע"מ

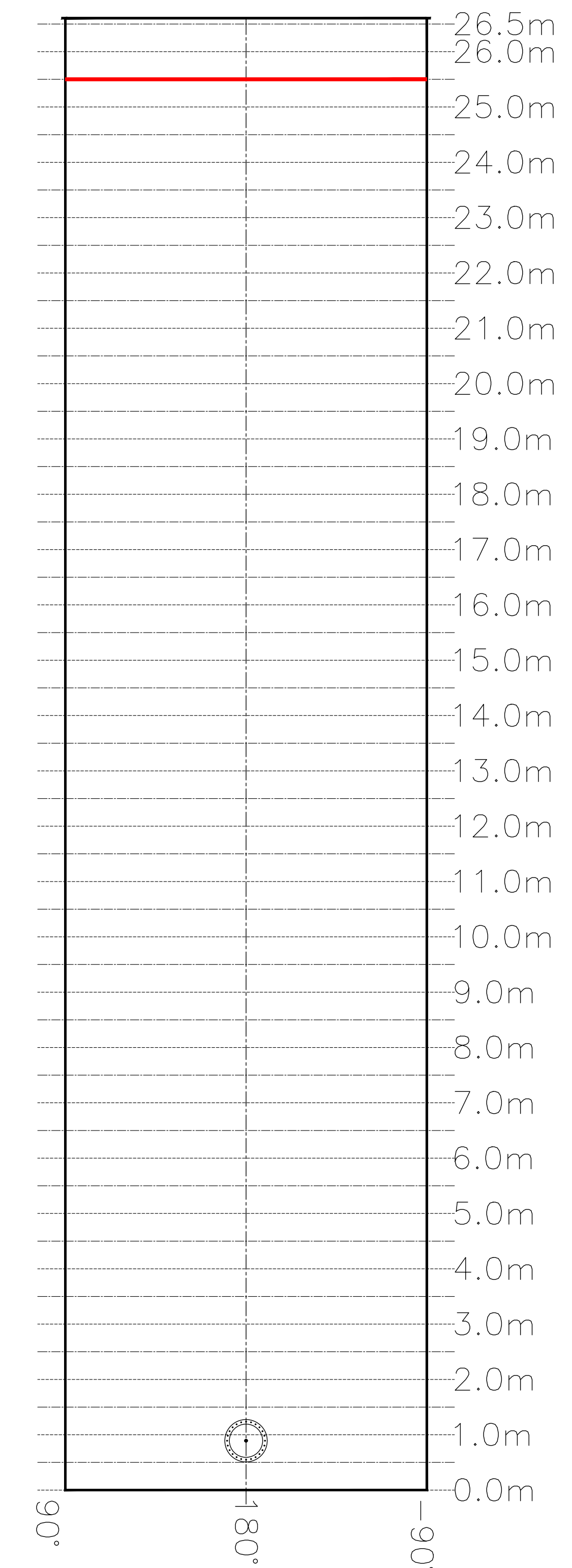
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [±0.0381m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



Roundness evaluation

Crossection height 25.5

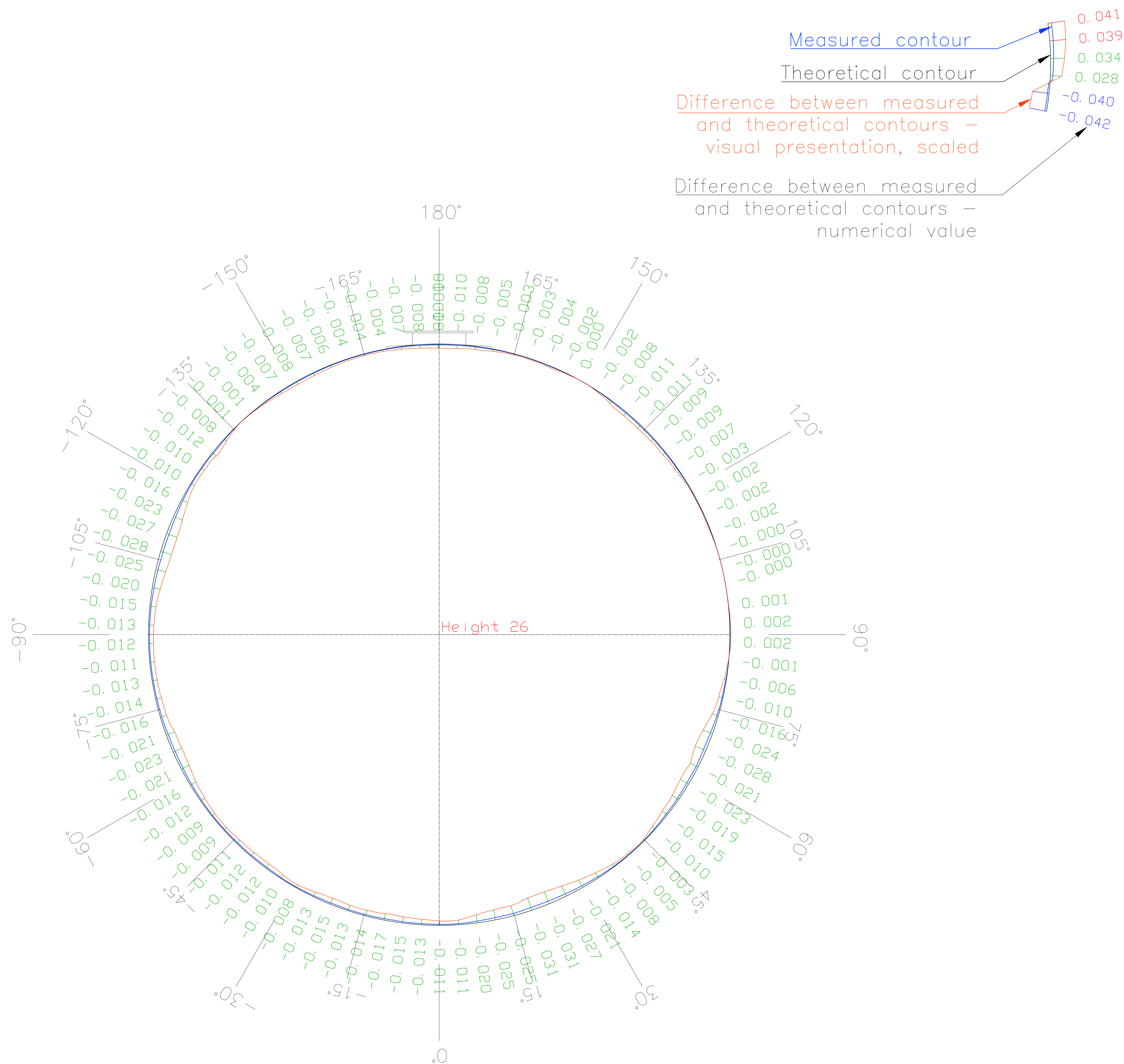
נורד ג.ש.

מדידה והנדסה בע"מ

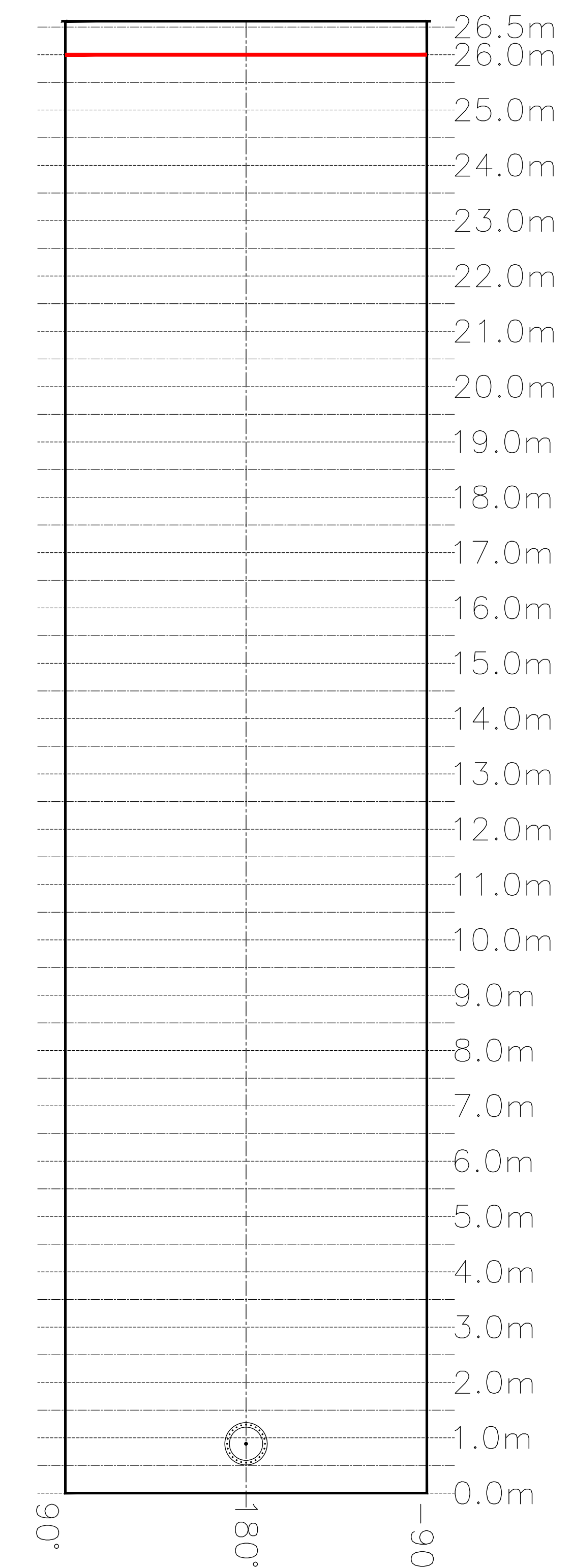
טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

Internal file:
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STORAGE TANK INSPECTION
ID: 53
LOCATION: HAIFA
Date of survey: 24.07.2025



Roundness evaluation

Crossection height 26

נורד ג.ש.

מדידה והנדסה בע"מ

טל : 03-9 103322

Tolerances are computed according to API653, max radii tolerance is 0.0127 (if lower then +0.3048 above the shell-to-bottom weld) and 0.0381 (for measurements higher +0.3048)
Acceptable radius [3.227m;3.303m] Acceptable tolerance less than [± 0.0381 m]

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