



Calibration Ref: 10404/2010
Test 47: Boya.
17/3/2020.

BOOKING SHEET FOR BOYA RANGE BARCODE STAFF CALIBRATION

- 1) LEVEL BUBBLE CHECKED? (Circle one) YES/NO ADJUSTED? YES/NO
- 2) STAFF BUBBLE CHECKED? (Circle one) YES/NO ADJUSTED? YES/NO
- 3) COLLIMATION TEST OF DIGITAL LEVEL

See Boya Range plan for location of collimation test spikes 1- 4

Use instrument internal software to calculate and store collimation constants

DATE/TIME	17/3/2020 9:13 AM.	TEMP: 22.5°C		
INSTRUMENT MAKE/MODEL SERIAL #	LEICA LS15 SN702272			
STAFF MAKE/MODEL SERIAL#	INVAR #26296.			
COLLIMATION DIFFERENCE	-2.4"	OLD: -18.6" NEW: -21.0"	RETICLE 1.59445.	
ACCEPT?/STORE?	YES.			

4) RANGE OBSERVATION DETAILS

See Boya Range plan for location of Pillar MV 83 and Pins 1- 21

Set digital level to record most precise readings with multiple observations, means and standard deviations if possible. Shade instrument unless overcast.

Book field information in these tables to complete documentation for calibration.

Observe a BS on Pin 1, IS on Pins 2-20 and a FS on Pin 21 for 1 complete set for a 4 m staff.

Observe a BS on Pin 1, IS on Pins 2-14 and a FS on Pin 15 for 1 complete set for a 3 m staff.

If instrument can't mean multiple observations, do at least 3 complete sets for redundancy.

DATE/TIME	17/3/2020 22.5°C	17/3/2020	17/3/2020 11:26 AM	17/3/2020
TEMPERATURE	ST: 9:30 AM FIN: 10:02 AM 23.1°C	ST: 10:04 AM 22.8°C FIN: 10:33 AM 22.9°C	ST: 11:05 AM FIN: 25.7°C	ST: 11:31 AM FIN: 25.1°C
INSTRUMENT MAKE/MODEL SERIAL #	LEICA LS15 SN702272.	LEICA LS15 SN702272.	LEICA LS15 SN702272.	LEICA LS15 SN702272
STAFF MAKE/MODEL SERIAL#	INVAR STAFF #26296	INVAR STAFF #26296.	INVAR STAFF #212	#213
#OBS FOR MEAN (minimum 5)	10	10.	5	5
NUMBER OF SETS	#1-15 (L1)	#7-21. (L2)	#1-21. (L4)	#1-21. (L5)

I certify that the above observations were made by me at the Boya barcode staff calibration range.

SURVEYOR..... V. UNG.

DATE..... 17/3/2020.

pin 1 100.00000
pin 21 96.19639
3.80361

(1)

NOTE: AT (L8), it rained/poured @ pin 9.



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Use instrument internal software to calculate and store collimation constants

DATE/TIME				
INSTRUMENT MAKE/MODEL SERIAL #				
STAFF MAKE/MODEL SERIAL#				
COLLIMATION DIFFERENCE				
ACCEPT?/STORE?				

4) RANGE OBSERVATION DETAILS

See Boya Range plan for location of Pillar MV 83 and Pins 1- 21

Set digital level to record most precise readings with multiple observations, means and standard deviations if possible. Shade instrument unless overcast.

Book field information in these tables to complete documentation for calibration.

Observe a BS on Pin 1, IS on Pins 2-20 and a FS on Pin 21 for 1 complete set for a 4 m staff.

Observe a BS on Pin 1, IS on Pins 2-14 and a FS on Pin 15 for 1 complete set for a 3 m staff.

If instrument can't mean multiple observations, do at least 3 complete sets for redundancy.

DATE/TIME	17/3/2020 ST: 11.56 FIN: 12:14	17/3/2020 ST: 12:38 FIN: 12:43	17/3/2020 ST: 12:39 FIN: 13:20	
TEMPERATURE START/FINISH	ST: 25.0°C FIN: 24.0°C 23.4°C	ST: 24°C FIN: 22.6°C	ST: 23.2°C FIN: 19.4°C.	
INSTRUMENT MAKE/MODEL SERIAL #	LEICA LS15 SN 702272	LEICA LS15 SN 702272.	LEICA LS15 SN 702272	
STAFF MAKE/MODEL SERIAL#	LEICA # 210	LEICA # 222	LEICA # 209	
#OBS FOR MEAN (minimum 5)	5	5	5	
NUMBER OF SETS	pin # 1 - 21. (L6)	pin # 1 - 21. (L7)	pin # 1 - 21. (L8)	

I certify that the above observations were made by me at the Boya barcode staff calibration range.

SURVEYOR..... V.UNG.

DATE..... 17/3/2020.