API X-D Laser Measurement Linear Data Table (Company Name: XAXIS)

File Version: 5
Instrument(S/N): 5089
File Name: XAXIS.pos
TestDate: 12/16/2022
TestTime: 13:46:19
MachID: GEE PEE   MachName: NIKON CMM   Operator: U VISTA   CNCProg: CMM   FeedRate: SEMIAUTO
AxesLoc: (Y) 0   (Z) 0   (U) 0   (V) 0   (W) 0
TestAxis: (X)

Diagonal: X1 0.0   Y1 0.0   Z1 0.0   X2 10.0   Y2 10.0   Z2 10.0
Unit: mm   1
IniPos: -840.053
EndPos: -40.053
Length: 800   Increm: 100   RunNum: 3   NumofPos: 9
NumofPoints: 54
TestType: Bidirection   TestMode: CNCManual   Dwell: 3   Window: 0.1
Direction: 0   Humidity: 50   ExpCoef: 8   DeadPath: 100

Position	LasRead	LinearError	Status	AirTemp	AirPress	MateTmp	MateTmp2	MateTmp3
-840.05298	-0.00080	-0.00080	0	24.50	71.04	25.02	-1.00	-1.00
-740.05298	99.97464	-0.02536	0	24.39	71.05	24.98	-1.00	-1.00
-640.05298	199.99343	-0.00657	0	24.33	71.05	24.94	-1.00	-1.00
-540.05298	299.99699	-0.00301	0	24.27	71.04	24.93	-1.00	-1.00
-440.05298	399.98253	-0.01747	0	24.24	71.03	24.91	-1.00	-1.00
-340.05298	499.96158	-0.03842	0	24.16	71.02	24.88	-1.00	-1.00
-240.05298	600.02590	0.02590	0	24.20	71.02	24.86	-1.00	-1.00
-140.05298	700.04199	0.04199	0	24.21	71.02	24.84	-1.00	-1.00
-40.05298	800.02600	0.02600	0	24.25	71.03	24.83	-1.00	-1.00
-40.05298	800.08927	0.08927	0	24.30	71.02	24.85	-1.00	-1.00
-140.05298	700.09790	0.09790	0	24.36	710.99	24.81	-1.00	-1.00
-240.05298	600.17194	0.17194	0	24.37	710.98	24.81	-1.00	-1.00
-340.05298	500.06922	0.06922	0	24.34	710.98	24.79	-1.00	-1.00
-440.05298	400.08004	0.08004	0	24.26	710.97	24.77	-1.00	-1.00
-540.05298	300.09962	0.09962	0	24.16	710.97	24.74	-1.00	-1.00
-640.05298	200.10183	0.10183	0	24.06	710.95	24.71	-1.00	-1.00
-740.05298	100.04639	0.04639	0	23.97	710.93	24.68	-1.00	-1.00
-840.05298	0.03876	0.03876	0	23.93	710.93	24.67	-1.00	-1.00
-840.05298	-0.01708	-0.01708	0	23.87	710.95	24.66	-1.00	-1.00
-740.05298	99.98867	-0.0133	0	23.95	710.92	24.71	-1.00	-1.00
-640.05298	200.00065	0.00065	0	24.08	710.92	24.78	-1.00	-1.00
-540.05298	300.00302	0.00302	0	24.18	710.93	24.81	-1.00	-1.00
-440.05298	399.98822	-0.0178	0	24.26	710.92	24.85	-1.00	-1.00
-340.05298	499.97694	-0.02306	0	24.34	710.92	24.88	-1.00	-1.00
-240.05298	600.03722	0.03722	0	24.43	710.92	24.92	-1.00	-1.00
-140.05298	700.04815	0.04815	0	24.51	710.91	24.95	-1.00	-1.00
-40.05298	800.03949	0.03949	0	24.56	710.90	24.97	-1.00	-1.00
-40.05298	800.09003	0.09003	0	24.56	710.91	24.98	-1.00	-1.00
-140.05298	700.10667	0.10667	0	24.58	710.92	24.96	-1.00	-1.00
-240.05298	600.13516	0.13516	0	24.60	710.92	24.96	-1.00	-1.00
-340.05298	500.06257	0.06257	0	24.57	710.92	24.92	-1.00	-1.00
-440.05298	400.07100	0.07100	0	24.53	710.92	24.89	-1.00	-1.00
-540.05298	300.1693	0.1693	0	24.38	710.92	24.84	-1.00	-1.00
-640.05298	200.09364	0.09364	0	24.09	710.88	24.75	-1.00	-1.00
-740.05298	100.06151	0.06151	0	24.01	710.89	24.74	-1.00	-1.00
-840.05298	0.04758	0.04758	0	23.95	710.88	24.71	-1.00	-1.00
-840.05298	-0.00409	-0.00409	0	23.86	710.87	24.68	-1.00	-1.00
-740.05298	99.98953	-0.01047	0	23.79	710.88	24.65	-1.00	-1.00
-640.05298	199.98941	-0.01059	0	23.75	710.87	24.64	-1.00	-1.00
-540.05298	300.00891	0.00891	0	23.69	710.85	24.61	-1.00	-1.00
-440.05298	400.00533	0.00533	0	23.68	710.84	24.62	-1.00	-1.00
-340.05298	500.00675	0.00675	0	23.67	710.82	24.61	-1.00	-1.00

-240.05298	600.04377	0.04377	0	23.78	710.82	24.67	-1.00	-1.00
-140.05298	700.04841	0.04841	0	23.87	710.82	24.70	-1.00	-1.00
-40.05298	800.04622	0.04622	0	24.1	710.81	24.80	-1.00	-1.00
-40.05298	800.09698	0.09698	0	24.27	710.79	24.86	-1.00	-1.00
-140.05298	700.10727	0.10727	0	24.39	710.78	24.90	-1.00	-1.00
-240.05298	600.14908	0.14908	0	24.49	710.78	24.93	-1.00	-1.00
-340.05298	500.06675	0.06675	0	24.54	710.78	24.94	-1.00	-1.00
-440.05298	400.06739	0.06739	0	24.50	710.75	24.91	-1.00	-1.00
-540.05298	300.06893	0.06893	0	24.36	710.73	24.84	-1.00	-1.00
-640.05298	200.06427	0.06427	0	24.24	710.74	24.80	-1.00	-1.00
-740.05298	100.06958	0.06958	0	24.13	710.72	24.76	-1.00	-1.00
-840.05298	0.04915	0.04915	0	24.05	710.71	24.72	-1.00	-1.00

DecimalPoints:	4
HardwareNo:	4	WaveLength:	0.000632990427

Comments:	None
Laser status comments:

Laser status = 0 --------------> Laser Normal
Laser status = 1 --------------> Warm Up
Laser status = 2 --------------> Path Error
Laser status = 3 --------------> Over Speed
Laser status = 4 --------------> Wireless Error

ErrorUnit: mm
ZeroOffset:	Off
API Linear Error Compensation Table

Position	Bidirectional Avg Error
-840.052979	0.018920
-740.052979	0.021720
-640.052979	0.040540
-540.052979	0.049067
-440.052979	0.032425
-340.052979	0.023961
-240.052979	0.093842
-140.052979	0.075073
-40.052979	0.064667

Position	Forward Directional Avg Error
-840.052979	-0.007323
-740.052979	-0.015719
-640.052979	-0.005503
-540.052979	0.002970
-440.052979	-0.007965
-340.052979	-0.018250
-240.052979	0.035624
-140.052979	0.046183
-40.052979	0.037231

Position	Backward Directional Avg Error
-40.052979	0.092102
-140.052979	0.103963
-240.052979	0.152059
-340.052979	0.066172
-440.052979	0.072815
-540.052979	0.095164
-640.052979	0.086583
-740.052979	0.059158
-840.052979	0.045163

API Linear Standard Deviation Error Table

Position	Mean	Stdev	Mean+2*sigma	Mean-2*sigma

-840.052979	0.018920	0.029473	0.077865	-0.040025
-740.052979	0.021720	0.042017	0.105753	-0.062314
-640.052979	0.040540	0.052087	0.144714	-0.063634
-540.052979	0.049067	0.052920	0.154907	-0.056772
-440.052979	0.032425	0.045066	0.122558	-0.057708
-340.052979	0.023961	0.048514	0.120989	-0.073067
-240.052979	0.093842	0.065099	0.224040	-0.036357
-140.052979	0.075073	0.031904	0.138882	0.01264
-40.052979	0.064667	0.030867	0.126401	0.002932

API Linear DataAnalysis Table
<ASME B5.54-1992>
DisplacementAccuracy: 0.170308
Max B (Reversal): 0.16435
Max Repeatability: 0.171691

<Environment>
AverageAir Temperature: 24.2
Average Material(1) Temperature: 24.8
Average Material(2) Temperature: N/A
Average Material(3) Temperature: N/A
AverageAir Pressure: 710.9
Travel Length: 800.0000