

Appendix 5 – Built-In Dataset Synopsis

Lottie Vectors – Information document

[Dataset Synopsis]

(Release 2.0) Fall 2018

This document contains an automated synopsis relating to the built-in dataset of my MatLab(r) program, Lottie Vectors. It can be used to help debug or test newer versions for valid results. The report can be verified against running a listing from a '0' (zero) start from the command window. Please go to the website at lottiemath.github.io and follow the links there for more information.

By Charlotte Élisabeth Ameil
UoE, October 2018
twitter.com/mathlottie

LottieVectors output on 17-Oct-2018 at 18:27. 6 vectors in list.

--Synopsis--

Force, Mag Nat MAX= 85.0000 (vector 2) MIN= -130.0000 (vector 1)

Force, Mag Abs MAX= 130.0000 (vector 1) MIN= 10.0000 (vector 5)

Force Total = 136.3333 : |Total| = 246.5399

Position, Dist MAX= 79.0000 (vector 3) MIN= 15.0000 (vector 4)

Position, Angle MAX= 315.0002 (vector 6) MIN= 73.9998 (vector 3)

Position Distance Route = 228.0000 : Direct (1 to 6) = 126.9993

Position Plane Dimensions = (-31.5581, -47.6193) to (94.3931, 19.9767)

Position Plane Area = 8513.7912 : From vectors (1, 5) to (6, 2)

Position Vectors [6](Rel Mag+Rad) = 6 : 100 %

Force Vectors [3](Yax Mag+Deg) = 6 : 100 %

```
=====
vnum   : Position (Type, Data, Data)   : Force (Type, Data, Data)   : Marker
=====
1       : Rel Mag+Rad (33, 5.0091)       : Yax Mag+Deg (-130, 40)     : start
2       . Rel Mag+Rad 22, 2.3562        . Yax Mag+Deg 85, 60        . (count)
3       : Rel Mag+Rad (79, 1.2915)         : Yax Mag+Deg (-55, 290)     : (count)
4       . Rel Mag+Rad 15, 1.5708        . Yax Mag+Deg 25, 160       . ni
5       : Rel Mag+Rad (20, 3.927)          : Yax Mag+Deg (-10, 340)     : (count B)
6       . Rel Mag+Rad 59, 5.4978        . Yax Mag+Deg 40, 40        . end
=====
```