Group Members:
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Location: CSULA
Date: October 20, 2020
Bucket D1:10.125 in.
Bucket D2: 7.75 in.
D: 1.1875 in.
H: 45.5 in.
smallest z1: $\mathbf{4 8 . 2 2 7 1}$
smallest z2:
$\mathrm{A}=\mathrm{z} 2-\mathrm{z} 1$
$\mathrm{R}=180^{*} \mathrm{D} /(\mathrm{A} * \mathrm{pi})$

|  | A | B | c | D | E | F | G |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Time | S (inches) | X 1 (inches) | $D=(\mathrm{D} 1-\mathrm{D} 2) / 2$ | L=S+X1-D | $\tan (\mathrm{z})=\mathrm{L} / \mathrm{H}$ | $\mathrm{z}=\arctan (\mathrm{L} / \mathrm{H})$ |
| 2 | 12:05 | 48.400 | 5.125 | 1.1875 | 52.3375 | 1.1502 | 48.9976 |
| 3 | 12:10 | 48.250 | 5.125 | 1.1875 | 52.1875 | 1.1250 | 48.3665 |
| 4 | 12:15 | 47.375 | 5.125 | 1.1875 | 51.3125 | 1.1277 | 48.4385 |
| 5 | 12:20 | 47.250 | 5.125 | 1.1875 | 51.1875 | 1.1250 | 48.3665 |
| 6 | 12:25 | 47.125 | 5.125 | 1.1875 | 51.0625 | 1.1222 | 48.2969 |
| 7 | 12:30 | 47.000 | 5.125 | 1.1875 | 50.9375 | 1.1195 | 48.2271 |
| 8 | 12:36 | 47.875 | 5.125 | 1.1875 | 51.8125 | 1.1387 | 48.7115 |
| 9 | 12:40 | 47.125 | 5.125 | 1.1875 | 51.0625 | 1.1214 | 48.2768 |
| 10 | 12:45 | 47.750 | 5.125 | 1.1875 | 51.6875 | 1.1359 | 48.6429 |
| 11 | 12:50 | 48.000 | 5.125 | 1.1875 | 51.9375 | 1.1414 | 48.7799 |
| 12 | 12:55 | 48.125 | 5.125 | 1.1875 | 52.0625 | 1.1442 | 48.8482 |
| 13 | 1:00 | 48.375 | 5.125 | 1.1875 | 52.3125 | 1.1497 | 48.9841 |
| 14 | 1:05 | 48.500 | 5.125 | 1.1875 | 52.4375 | 1.1524 | 49.0518 |

