David Schmidt

Raw Data for Simulation Runs

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Simulation | Arrival | Stopped | Passed | Stop |  | Simulation | Arrival | Stopped | Passed | Stop |
| Run 30 Sec | Prob | Cars | Cars | Rate |  | Run 90 Sec | Prob | Cars | Cars | Rate |
| 1 | 5% | 2 | 270 | 0.7% |  | 1 | 5% | 2 | 210 | 0.9% |
| 2 |  | 3 | 273 | 1.1% |  | 2 |  | 2 | 226 | 0.88% |
| 3 |  | 2 | 266 | 0.8% |  | 3 |  | 8 | 196 | 4.1% |
| 4 |  | 6 | 230 | 2.6% |  | 4 |  | 5 | 275 | 1.89% |
|  |  | 3.25 | 259.75 | 1.3% |  |  |  | 4.25 | 226.75 | 1.9% |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 1 | 50% | 1186 | 1194 | 99.33% |  | 1 | 50% | 1185 | 1191 | 99.5% |
| 2 |  | 1179 | 1197 | 98.5% |  | 2 |  | 1196 | 1192 | 100.34% |
| 3 |  | 1200 | 1192 | 100.67% |  | 3 |  | 1330 | 1198 | 111.02% |
| 4 |  | 1206 | 1198 | 100.67% |  | 4 |  | 1276 | 1196 | 106.69% |
|  |  | 1192.75 | 1195.25 | 99.8% |  |  |  | 1246.75 | 1194.25 | 104.4% |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 1 | 90% | 3065 | 1199 | 255.63% |  | 1 | 90% | 3185 | 1199 | 265.64% |
| 2 |  | 3113 | 1199 | 259.63% |  | 2 |  | 3125 | 1199 | 260.63% |
| 3 |  | 3085 | 1199 | 257.3% |  | 3 |  | 3113 | 1199 | 259.63% |
| 4 |  | 3181 | 1199 | 265.3% |  | 4 |  | 3049 | 1199 | 254.3% |
|  |  | 3111 | 1199 | 259.5% |  |  |  | 3118 | 1199 | 260.1% |

Conclusion: Of the two light change options, there were more stopped by 90 second light changes than 30 second light changes.