1: 1.639, -0.238,-0.691, 0.723

2: 2.031, 4.536, 0.511, 0.860

3: 1.735, 4.598, 0.818, 0.576

4: 0.597, 4.540, 0.562, 0.827

5: -0.368, 4.692,0.809, 0.587

6: -0.336, 4.769, 0.858, 0.513

7: 0.769, 0.172, -0.578, 0.816

8: -0.502, 0.122, -0.781, 0.624

locations = {  
 {{0.068, 4.075, 0.870, 0.493}, false},//B  
 {{0.068, 4.075, 0.473, 0.881}, true},//B  
 {{0.049, 0.855, 0.870, -0.493}, false},//C  
 {{0.049, 0.855, -0.468, 0.884}, true},//C  
 {{1.833, 4.260, 0.870, 0.493}, false},//D  
 {{1.833, 4.260, 0.473, 0.881}, true},//D  
 {{1.833, -0.171, 1.000, 0.000}, true},//E  
 {{1.833, -0.171, 0.000, 1.000}, false},  
 {{3.930, 0.113, 0.707, 0.707}, false},  
 {{3.930, 2.127, 0.707, 0.707}, false},  
 //{{3.920, 2.127, -0.703, 0.711}, false},  
 //{{3.920, 2.127, 0.703, 0.711}, false},  
 {{3.912, 3.322, 1.000, 0.025}, true},//F1  
 {{3.912, 3.322, 0.916, 0.402}, true},  
 {{3.912, 3.322, 0.284, 0.959}, true},//F2  
 {{3.131, 4.420, 0.700, 0.714}, false},  
 {{3.131, 4.420, 0.912, 0.410}, true},//F5  
 {{4.705, 4.725, 0.700, 0.714}, false},  
 {{4.705, 4.725, 0.335, 0.942}, true},//F6  
   
 {{3.478, 2.172, 0.879, -0.476}, true},//F3  
 //{{3.143, 2.121, 0.686, 0.728}},  
 {{4.544, 2.245, -0.521, 0.854}, true},//F4  
 {{3.930, 2.127, -0.707, 0.707}, false},  
 {{3.940, 0.113, -0.000, 1.000}, false},  
 {{4.991, -0.255, -0.000, 1.000}, false}  
};