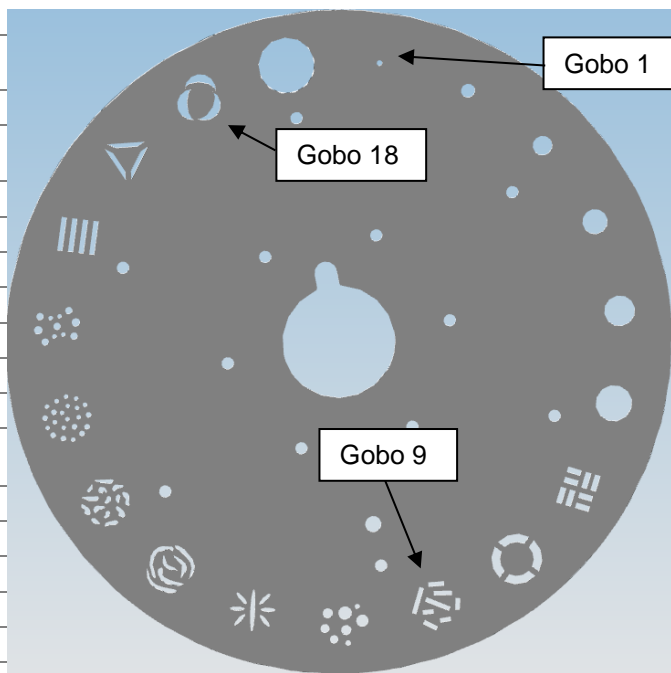




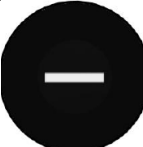



| CHANNEL | CHANNEL MODE             |                          |
|---------|--------------------------|--------------------------|
|         | STANDARD                 | VECTOR                   |
| 1       | CYAN COLOUR WHEEL        | CYAN COLOUR WHEEL        |
| 2       | MAGENTA COLOUR WHEEL     | MAGENTA COLOUR WHEEL     |
| 3       | YELLOW COLOUR WHEEL      | YELLOW COLOUR WHEEL      |
| 4       | COLOUR 1                 | COLOUR 1                 |
| 5       | COLOUR 2                 | COLOUR 2                 |
| 6       | COLOUR 3                 | COLOUR 3                 |
| 7       | STOPPER / STROBE         | STOPPER / STROBE         |
| 8       | DIMMER                   | DIMMER                   |
| 9       | DIMMER FINE              | DIMMER FINE              |
| 10      | STATIC GOBO CHANGE       | STATIC GOBO CHANGE       |
| 11      | ANIMATION DISK INSERTION | ANIMATION DISK INSERTION |
| 12      | ANIMATION DISK ROTATION  | ANIMATION DISK ROTATION  |
| 13      | ROTATING GOBO SELECT     | ROTATING GOBO SELECT     |
| 14      | GOBO ROTATION            | GOBO ROTATION            |
| 15      | FINE GOBO ROTATION       | FINE GOBO ROTATION       |
| 16      | PRISMS INSERTION         | PRISMS INSERTION         |
| 17      | PRISMS ROTATION          | PRISMS ROTATION          |
| 18      | FROST                    | FROST                    |
| 19      | ZOOM                     | ZOOM                     |
| 20      | FOCUS                    | FOCUS                    |
| 21      | FOCUS FINE               | FOCUS FINE               |
| 22      | BEAM MODE                | BEAM MODE                |
| 23      | PAN                      | PAN                      |
| 24      | FINE PAN                 | FINE PAN                 |
| 25      | TILT                     | TILT                     |
| 26      | FINE TILT                | FINE TILT                |
| 27      | FUNCTION                 | FUNCTION                 |
| 28      | RESET                    | RESET                    |
| 29      | LAMP CONTROL             | LAMP CONTROL             |
| 30      | MACRO EFFECTS            | MACRO EFFECTS            |
| 31      | -                        | PAN-TILT TIME            |
| 32      | -                        | COLOUR TIME              |
| 33      | -                        | BEAM TIME                |
| 34      | -                        | GOBO TIME                |

| Channel Mode |                       | DMX Value | Function                          |
|--------------|-----------------------|-----------|-----------------------------------|
| Standard     | Vector                |           |                                   |
| 1            | 1                     |           | <b>CYAN COLOUR WHEEL</b>          |
|              |                       | 0 - 255   | Linear Cyan movement              |
| 2            | 2                     |           | <b>MAGENTA COLOUR WHEEL</b>       |
|              |                       | 0 - 255   | Linear Magenta movement           |
| 3            | 3                     |           | <b>YELLOW COLOUR WHEEL</b>        |
|              |                       | 0 - 255   | Linear Yellow movement            |
| 4            | 4                     |           | <b>COLOUR 1</b>                   |
|              |                       | 0         | Empty position                    |
|              |                       | 28        | Empty + Soft Filter               |
|              |                       | 50        | Soft Filter                       |
|              |                       | 80        | Soft Filter + Lavender            |
|              |                       | 100       | Lavender                          |
|              |                       | 129       | Lavender + CTO 3200K              |
|              |                       | 150       | CTO 3200K                         |
|              |                       | 181       | CTO 3200K + CTO 2500K             |
|              |                       | 204       | CTO 2500K                         |
|              |                       | 235       | CTO 2500K + Blue Wood (UV Filter) |
| 255          | Blue Wood (UV Filter) |           |                                   |
| 5            | 5                     |           | <b>COLOUR 2</b>                   |
|              |                       | 0         | Empty position                    |
|              |                       | 28        | Empty + Dark Green                |
|              |                       | 50        | Dark Green                        |
|              |                       | 75        | Dark Green + CTB                  |
|              |                       | 100       | CTB                               |
|              |                       | 129       | CTB + Dark Blue                   |
|              |                       | 150       | Dark Blue                         |
|              |                       | 178       | Dark Blue + H.M.Green             |
|              |                       | 200       | H.M.Green                         |
|              |                       | 235       | H.M.Green + Dark Red              |
| 255          | Dark Red              |           |                                   |

| Channel Mode |              | DMX Value | Function   |
|--------------|--------------|-----------|--|
| Standard     | Vector       |           |  |
| 6            | 6            |           | <b>COLOUR 3</b>  |
|              |              | 0         | Empty position   |
|              |              | 28        | Empty + Light Green  |
|              |              | 50        | Light Green  |
|              |              | 77        | Light Green + Pink   |
|              |              | 100       | Pink   |
|              |              | 129       | Pink + Aquamarine  |
|              |              | 150       | Aquamarine   |
|              |              | 181       | Aquamarine + Dark Orange   |
|              |              | 200       | Dark Orange  |
|              |              | 231       | Dark Orange + Light Orange   |
| 255          | Light Orange |           |  |
| 7            | 7            |           | <b>STOPPER / STROBE</b>  |
|              |              | 0 - 3     | Light OFF  |
|              |              | 4 - 103   | Strobe at linearly variable frequency from low (1 flash/sec) to high (12 flashes/sec)  |
|              |              | 104 - 107 | Light ON   |
|              |              | 108 - 207 | Pulsation at linearly variable speed from slow (0.5 flash/sec) to fast (12 flashes/sec)  |
|              |              | 208 - 212 | Light ON   |
|              |              | 213 - 225 | Random Strobe at low frequency   |
|              |              | 226 - 238 | Random Strobe at medium frequency  |
|              |              | 239 - 251 | Random Strobe at high frequency  |
| 252 - 255    | Light ON     |           |  |
| 8            | 8            |           | <b>DIMMER</b>  |
|              |              | 0 - 255   | Light output linearly increase from no-light to maximum brightness. Dimmer blades move from totally closed to totally open in 0.02 seconds at maximum speed. |
| 9            | 9            |           | <b>DIMMER FINE</b>   |
|              |              | 0 - 255   | Fine Dimmer positioning  |

| Channel Mode |                    | DMX Value | Function   |
|--------------|--------------------|-----------|--|
| Standard     | Vector             |           |  |
| 10           | 10                 |           | <b>STATIC GOBO CHANGE</b>  |
|              |                    | 0         | Empty position   |
|              |                    | 4         | Gobo 1   |
|              |                    | 8         | Gobo 2   |
|              |                    | 12        | Gobo 3   |
|              |                    | 16        | Gobo 4   |
|              |                    | 19        | Gobo 5   |
|              |                    | 23        | Gobo 6   |
|              |                    | 27        | Gobo 7   |
|              |                    | 31        | Gobo 8   |
|              |                    | 35        | Gobo 9   |
|              |                    | 38        | Gobo 10  |
|              |                    | 42        | Gobo 11  |
|              |                    | 46        | Gobo 12  |
|              |                    | 50        | Gobo 13  |
|              |                    | 54        | Gobo 14  |
|              |                    | 57        | Gobo 15  |
|              |                    | 61        | Gobo 16  |
|              |                    | 65        | Gobo 17  |
|              |                    | 69        | Gobo 18  |
|              |                    | 72 - 113  | Continuous gobo wheel CCW rotation at linearly variable speed from fast (60 rpm) to slow (5 rpm) |
|              |                    | 114 - 117 | Stop rotation  |
|              |                    | 118 - 159 | Continuous gobo wheel CW rotation at linearly variable speed from slow (5 rpm) to fast (60 rpm)  |
|              |                    | 160 - 165 | Gobo 1 shakes at variable speed from slow (24 bpm) to fast (600 bpm)                             |
|              |                    | 166 - 170 | Gobo 2 shakes at variable speed from slow (24 bpm) to fast (600 bpm)                             |
|              |                    | 171 - 175 | Gobo 3 shakes at variable speed from slow (24 bpm) to fast (600 bpm)                             |
|              |                    | 176 - 181 | Gobo 4 shakes ...  |
|              |                    | 182 - 186 | Gobo 5 shakes ...  |
| 187 - 191    | Gobo 6 shakes ...  |           |  |
| 192 - 197    | Gobo 7 shakes ...  |           |  |
| 198 - 202    | Gobo 8 shakes ...  |           |  |
| 203 - 207    | Gobo 9 shakes ...  |           |  |
| 208 - 214    | Gobo 10 shakes ... |           |  |
| 215 - 218    | Gobo 11 shakes ... |           |  |
| 219 - 223    | Gobo 12 shakes ... |           |  |
| 224 - 229    | Gobo 13 shakes ... |           |  |
| 230 - 234    | Gobo 14 shakes ... |           |  |
| 235 - 239    | Gobo 15 shakes ... |           |  |
| 240 - 245    | Gobo 16 shakes ... |           |  |
| 246 - 250    | Gobo 17 shakes ... |           |  |
| 251 - 255    | Gobo 18 shakes ... |           |  |



| Channel Mode |        | DMX Value  | Function  |
|--------------|--------|--|---|
| Standard     | Vector |  |   |
| 11           | 11     |  | <b>ANIMATION DISK INSERTION</b>   |
|              |        | 0 - 255  | Linear Animation Disk Insertion   |
| 12           | 12     |  | <b>ANIMATION DISK ROTATION</b>  |
|              |        | 0 - 124  | Continuous animation disk CW rotation at linearly variable speed from fast (120 rpm) to slow (4.4 rph)  |
|              |        | 125 - 130  | Stop rotation   |
|              |        | 131 - 255  | Continuous animation disk CCW rotation at linearly variable speed from slow (4.4 rph) to fast (120 rpm) |
| 13           | 13     |  | <b>ROTATING GOBO SELECT</b>   |
|              |        | 0 - 18   | Empty position  |
|              |        | 19 - 37  | Gobo 1                 |
|              |        | 38 - 55  | Gobo 2                 |
|              |        | 56 - 74  | Gobo 3                |
|              |        | 75 - 92  | Gobo 4               |
|              |        | 93 - 111   | Gobo 5               |
|              |        | 112 - 129  | Gobo 6               |
|              |        | 130 - 150  | Gobo 1 shakes at variable speed from slow to fast   |
|              |        | 151 - 171  | Gobo 2 shakes at variable speed from slow to fast   |
|              |        | 172 - 192  | Gobo 3 shakes ...   |
|              |        | 193 - 213  | Gobo 4 shakes ...   |
|              |        | 214 - 234  | Gobo 5 shakes ...   |
|              |        | 235 - 255  | Gobo 6 shakes ...   |
|              |        | <i>ROTATING GOBO effect disabled if BEAM MODE is working</i> |   |

| Channel Mode |        | DMX Value | Function   |
|--------------|--------|-----------|--|
| Standard     | Vector |           |  |
| 14           | 14     |           | <b>GOBO ROTATION</b>   |
|              |        | 0 - 21    | Gobo indexing CW: 0° to 90° range  |
|              |        | 21 - 42   | Gobo indexing CW: 90° to 180° range  |
|              |        | 42 - 63   | Gobo indexing CW: 180° to 270° range   |
|              |        | 63 - 84   | Gobo indexing CW: 270° to 360° range   |
|              |        | 84 - 105  | Gobo indexing CW: 360° to 450° range   |
|              |        | 105 - 127 | Gobo indexing CW: 450° to 540° range   |
|              |        | 128 - 190 | Continuous gobo rotation CCW at linearly variable speed from fast (180 rpm) to slow (2.2 rph)  |
|              |        | 191 - 192 | Stop rotation  |
|              |        | 193 - 255 | Continuous gobo rotation CW at linearly variable speed from slow (2.2 rpm) to fast (180 rpm)   |
|              |        |           | <i>ROTATING GOBO effect disabled if BEAM MODE is working</i>   |
| 15           | 15     |           | <b>FINE GOBO ROTATION</b>  |
|              |        | 0 - 255   | Fine Gobo Indexing CW  |
| 16           | 16     |           | <b>PRISM INSERTION</b>   |
|              |        | 0 - 10    | Prism out  |
|              |        | 11 - 132  | Prism 1 into the light beam  |
|              |        | 133 - 255 | Prism 2 into the light beam  |
|              |        |           | <i>PRISM effect disabled if BEAM MODE is working</i>   |
| 17           | 17     |           | <b>PRISMS ROTATION</b>   |
|              |        | 0 - 21    | Prism indexing CW: 0° to 90° range   |
|              |        | 21 - 42   | Prism indexing CW: 90° to 180° range   |
|              |        | 42 - 63   | Prism indexing CW: 180° to 270° range  |
|              |        | 63 - 84   | Prism indexing CW: 270° to 360° range  |
|              |        | 84 - 105  | Prism indexing CW: 360° to 450° range  |
|              |        | 105 - 127 | Prism indexing CW: 450° to 540° range  |
|              |        | 128 - 190 | Continuous prism rotation CCW at linearly variable speed from fast (43 rpm) to slow (1.1 rph)  |
|              |        | 191 - 192 | Stop rotation  |
|              |        | 193 - 255 | Continuous prism rotation CW at linearly variable speed from slow (1.1 rpm) to fast (43 rpm)   |
|              |        |           | <i>PRISM effect disabled if BEAM MODE is working</i>   |
| 18           | 18     |           | <b>FROST</b>   |
|              |        | 0 - 255   | Frost moves linearly into the light beam<br>Frost blades move from no-diffusion to maximum diffusion in 0.02 seconds at maximum speed.   |
| 19           | 19     |           | <b>ZOOM</b>  |
|              |        | 0 - 255   | Zoom linearly moves from narrow to wide beam   |
| 20           | 20     |           | <b>FOCUS</b>   |
|              |        | 0 - 255   | Focus moves linearly from far to near position.<br>Focus lenses move from farthest to nearest position in 1.11 seconds at maximum speed. |
| 21           | 21     |           | <b>FOCUS FINE</b>  |
|              |        | 0 - 255   | Fine Focus positioning   |
| 22           | 22     |           | <b>BEAM MODE</b>   |
|              |        | 0 - 127   | Zoom / Autofocus mode  |
|              |        | 128 - 255 | Beam Mode  |
|              |        |           | <i>ROTATING and CHANGE GOBO / PRISM / ZOOM effects disabled if BEAM MODE is working</i>  |

| Channel Mode |  | DMX Value   | Function  |
|--------------|--|---|---|
| Standard     | Vector   |   |   |
| 23           | 23   |   | <b>PAN</b>  |
|              |  | 0 - 255   | Pan movement/positioning CCW from 0° to 540° <ul style="list-style-type: none"> <li>• Fast Speed: 3.517 sec</li> <li>• Normal Speed: 4.038 sec</li> </ul> |
| 24           | 24   |   | <b>FINE PAN</b>   |
|              |  | 0 - 255   | Fine Pan positioning CCW  |
| 25           | 25   |   | <b>TILT</b>   |
|              |  | 0 - 255   | Tilt movement/positioning from 0° to 244° <ul style="list-style-type: none"> <li>• Fast Speed: 2.180 sec</li> <li>• Normal Speed: 2.274 sec</li> </ul>    |
| 26           | 26   |   | <b>FINE TILT</b>  |
|              |  | 0 - 255   | Fine Tilt positioning   |
| 27           | 27   |   | <b>FUNCTION</b>   |
|              |  | 0 - 11  | Unused range  |
|              |  | 12 - 24   | Fast Pan / Tilt speed (default)   |
|              |  | 25 - 37   | Normal Pan / Tilt speed   |
|              |  | 63 - 75   | CMY Full Range (default)  |
|              |  | 76 - 87   | CMY Limited range   |
|              |  | 88 - 255  | Free  |
|              | The functions are activated/selected passing through the unused levels range and staying in the necessary range for 5 seconds. |   |   |
| 28           | 28   |   | <b>RESET</b>  |
|              |  | 0 - 25  | Unused range  |
|              |  | 26 - 76   | Zoom Reset<br>Zoom Reset sequence is activated passing through the unused levels range and staying in this range for 5 seconds                            |
|              |  | 77 - 127  | Pan / Tilt Reset<br>Pan/Tilt Reset sequence passing through the unused levels range and staying in this range for 5 seconds.                              |
|              | 128 - 255  | Complete Reset<br>All-effects Reset sequence passing through the unused levels range and staying in this range for 5 seconds. |   |
| 29           | 29   |   | <b>LAMP CONTROL</b>   |
|              |  | 0 - 25  | Unused range  |
|              |  | 26 - 100  | Lamp OFF<br>Lamp switch-off passing through the unused levels range and staying in this range for 5 seconds.  |
|              | 101 - 255  | Lamp ON<br>Lamp switch-on passing through the unused levels range and staying in this range for 5 seconds.                    |   |

| Channel Mode |                 | DMX Value | Function                              |
|--------------|-----------------|-----------|---------------------------------------|
| Standard     | Vector          |           |                                       |
| 30           | 30              |           | <b>MACRO EFFECTS</b>                  |
|              |                 | 0 – 7     | Macro OFF                             |
|              |                 | 8 – 11    | Standby                               |
|              |                 | 12 – 15   | Standby black                         |
|              |                 | 16 – 45   | Zoom IN Faded                         |
|              |                 | 46 – 75   | Zoom OUT Faded                        |
|              |                 | 76 – 105  | Zoom IN OUT                           |
|              |                 | 106 – 135 | Standby Black 1                       |
|              |                 | 136 – 165 | Zoom IN Faded Random                  |
|              |                 | 166 – 195 | Zoom OUT Faded Random                 |
|              |                 | 196 – 225 | Zoom IN OUT Random                    |
| 226 - 255    | Standby Black 2 |           |                                       |
| -            | 31              |           | <b>PAN-TILT TIME</b>                  |
|              |                 |           | Pan - Fine Pan - Tilt - Fine Tilt     |
| -            | 32              |           | <b>COLOUR TIME</b>                    |
|              |                 |           | Cyan - Magenta – Yellow               |
| -            | 33              |           | <b>BEAM TIME</b>                      |
|              |                 |           | Dimmer - Frost - Prism – Focus - Zoom |
| -            | 34              |           | <b>GOBO TIME</b>                      |
|              |                 |           | Static Gobo – Rotating Gobo           |

### IMPORTANT

To prevent accidental breakage of the effects, which could collide with each others during transport, before switching the projector OFF, check that all the fixture Channels have been excluded (DMX level = 0 bit.).

Remember to “Switch-Off” the bulb, before to “Switch-Off” the fixture.



## VECTOR MODE TIME TABLE

| BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   | Full    | 43  | 8.6     | 86  | 24      | 129 | 41      | 172 | 58      | 216 | 170     |
| 1   | 0.2     | 44  | 8.8     | 87  |         | 130 |         | 173 |         |     |         |
| 2   | 0.4     | 45  | 9       | 88  | 131     | 174 |         |     |         |     |         |
| 3   | 0.6     | 46  | 9.2     | 89  | 25      | 132 | 175     | 179 |         | 219 | 180     |
| 4   | 0.8     | 47  | 9.4     | 90  | 26      | 133 | 176     | 59  | 220     | 190 |         |
| 5   | 1       | 48  | 9.6     | 91  |         | 134 | 177     | 180 | 221     |     |         |
| 6   | 1.2     | 49  | 9.8     | 92  | 27      | 135 | 178     | 60  | 222     | 200 |         |
| 7   | 1.4     | 50  | 10      | 93  |         | 136 | 179     | 181 | 223     |     |         |
| 8   | 1.6     | 51  | 10.2    | 94  | 28      | 137 | 180     | 65  | 224     | 210 |         |
| 9   | 1.8     | 52  | 10.4    | 95  |         | 138 | 181     | 182 | 225     |     |         |
| 10  | 2       | 53  | 10.6    | 96  | 29      | 139 | 183     | 70  | 226     | 220 |         |
| 11  | 2.2     | 54  | 11      | 97  |         | 140 | 184     | 185 | 227     |     |         |
| 12  | 2.4     | 55  | 12      | 98  | 30      | 141 | 186     | 75  | 228     | 230 |         |
| 13  | 2.6     | 56  |         | 57  |         | 99  | 142     | 187 | 188     |     | 229     |
| 14  | 2.8     | 57  | 13      | 100 | 46      | 143 | 189     | 80  | 230     | 240 |         |
| 15  | 3       | 58  | 14      | 101 |         | 144 | 190     | 191 | 85      |     | 231     |
| 16  | 3.2     | 59  |         | 60  | 102     | 47  | 145     | 192 | 90      | 232 | 250     |
| 17  | 3.4     | 60  | 15      | 103 | 146     |     | 193     | 194 | 95      | 233 |         |
| 18  | 3.6     | 61  |         | 61  | 104     | 48  | 147     | 195 | 100     | 234 | 260     |
| 19  | 3.8     | 62  | 16      | 105 | 148     |     | 196     | 197 | 110     | 235 |         |
| 20  | 4       | 63  |         | 62  | 106     | 49  | 149     | 198 | 120     | 236 | 270     |
| 21  | 4.2     | 64  | 17      | 107 | 150     |     | 199     | 200 | 130     | 237 |         |
| 22  | 4.4     | 65  |         | 63  | 108     | 50  | 151     | 201 | 140     | 238 | 280     |
| 23  | 4.6     | 66  | 18      | 109 | 152     |     | 202     | 203 | 150     | 239 |         |
| 24  | 4.8     | 67  |         | 64  | 110     | 51  | 153     | 204 | 160     | 240 | 290     |
| 25  | 5       | 68  | 19      | 111 | 154     |     | 205     | 206 | 170     | 241 |         |
| 26  | 5.2     | 69  |         | 65  | 112     | 52  | 155     | 207 | 180     | 242 | 300     |
| 27  | 5.4     | 70  | 20      | 113 | 156     |     | 208     | 209 | 190     | 243 |         |
| 28  | 5.6     | 71  |         | 66  | 114     | 53  | 157     | 210 | 200     | 244 | 310     |
| 29  | 5.8     | 72  | 21      | 115 | 158     |     | 211     | 212 | 210     | 245 |         |
| 30  | 6       | 73  |         | 67  | 116     | 54  | 159     | 213 | 220     | 246 | 310     |
| 31  | 6.2     | 74  | 22      | 117 | 160     |     | 214     | 215 | 230     | 247 |         |
| 32  | 6.4     | 75  |         | 68  | 118     | 55  | 161     | 216 | 240     | 248 | 310     |
| 33  | 6.6     | 76  | 23      | 119 | 162     |     | 217     | 218 | 250     | 249 |         |
| 34  | 6.8     | 77  |         | 69  | 120     | 56  | 163     | 219 | 260     | 250 | 310     |
| 35  | 7       | 78  | 24      | 121 | 164     |     | 220     | 221 | 270     | 251 |         |
| 36  | 7.2     | 79  |         | 70  | 122     | 57  | 165     | 222 | 280     | 252 | 310     |
| 37  | 7.4     | 80  | 25      | 123 | 166     |     | 223     | 224 | 290     | 253 |         |
| 38  | 7.6     | 81  |         | 71  | 124     | 58  | 167     | 225 | 300     | 254 |         |
| 39  | 7.8     | 82  | 26      | 125 | 168     |     | 226     | 227 | 310     | 255 |         |
| 40  | 8       | 83  |         | 72  | 126     | 59  | 169     | 228 | 320     | 256 |         |
| 41  | 8.2     | 84  | 27      | 127 | 170     |     | 229     | 230 | 330     | 257 |         |
| 42  | 8.4     | 85  |         | 73  | 128     | 171 | 231     | 232 | 340     | 258 |         |