

Photometrics Pro

Luminaire Photometric Report

Filename: RDL6 - Gimbal 6IN - 3000K - 12W - IES

Manufacturer: SARIN Energy Solutions

Lamp Output: 1 lamp, rated Lumens/lamp: 812.9

Max Candela: 1,436.0 at Horizontal: 0°, Vertical: 0°

Input Wattage: 11.6

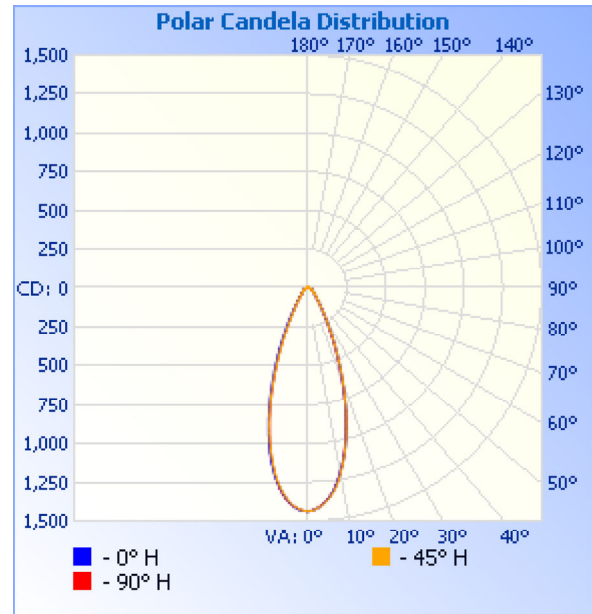
Luminous Opening: Circular (Dia: 3.15")

Test Date: 2024-06-07

Test Lab: EVERFINE

Photometry : Type C

Nema Type: 4 X 4



Roadway Summary

| | | |
|------------------------|--------------|-------------|
| Cutoff Classification: | CUTOFF | |
| Distribution: | Type VS | |
| Max Cd, 90 Deg Vert: | 1.8 | |
| Max Cd, 80 to <90 Deg: | 9.0 | |
| | Lumens | % Lamp |
| Downward Street Side: | 397.2 | 48.9% |
| Downward House Side: | 400.0 | 49.2% |
| Downward Total: | 797.2 | 98.1% |
| Upward Street Side: | 7.7 | 0.9% |
| Upward House Side: | 8.0 | 1% |
| Upward Total: | 15.7 | 1.9% |
| Total Lumens: | 812.9 | 100% |

Flood Summary

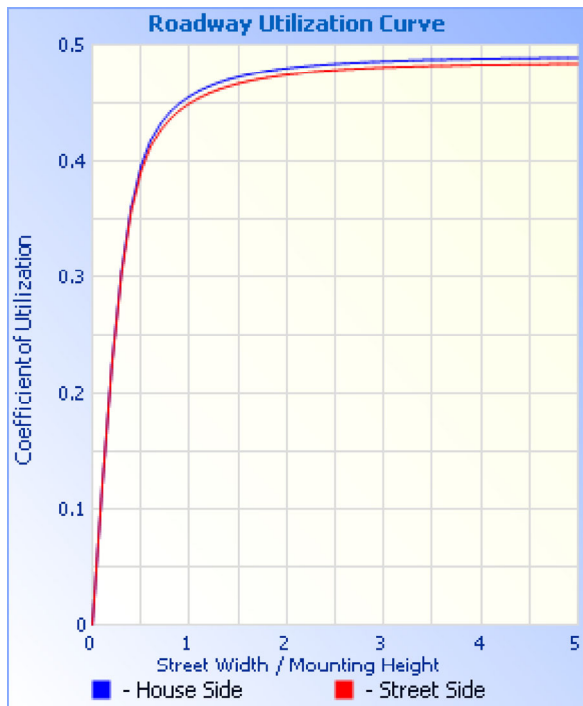
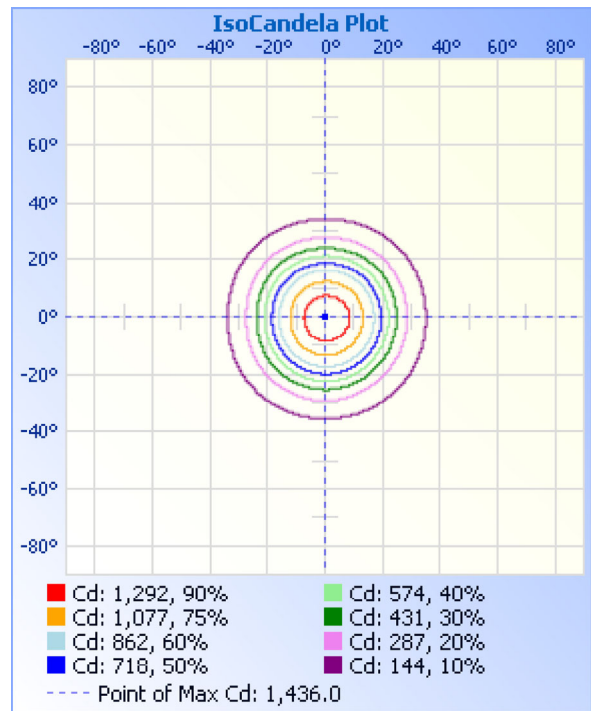
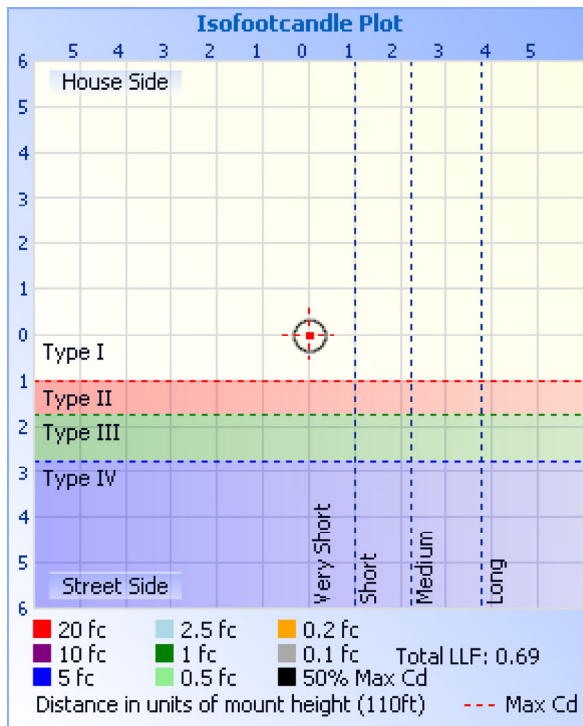
| | Efficiency | Lumens | Horizontal Spread | Vertical Spread |
|---------------|--------------|--------------|-------------------|-----------------|
| Field (10%): | 76.9% | 625.3 | 69 | 69.5 |
| Beam (50%): | 44.8% | 364.6 | 37.9 | 38.5 |
| Total: | 99.9% | 812.4 | | |

Zonal Lumen Summary

| Zone | Lumens | % Lamp | % Luminaire |
|--------|--------|--------|-------------|
| 0-30 | 576.5 | 70.9% | 70.9% |
| 0-40 | 665.8 | 81.9% | 81.9% |
| 0-60 | 751.5 | 92.4% | 92.5% |
| 60-90 | 45.4 | 5.6% | 5.6% |
| 70-100 | 19.9 | 2.5% | 2.5% |
| 90-120 | 4.0 | 0.5% | 0.5% |
| 0-90 | 796.9 | 98% | 98.1% |
| 90-180 | 15.7 | 1.9% | 1.9% |
| 0-180 | 812.6 | 100% | 100% |

Lumens Per Zone

| Zone | Lumens | % Total | Zone | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10 | 126.3 | 15.5% | 90-100 | 1.1 | 0.1% |
| 10-20 | 261.3 | 32.2% | 100-110 | 1.2 | 0.2% |
| 20-30 | 189.0 | 23.3% | 110-120 | 1.6 | 0.2% |
| 30-40 | 89.3 | 11.0% | 120-130 | 2.3 | 0.3% |
| 40-50 | 49.7 | 6.1% | 130-140 | 2.9 | 0.4% |
| 50-60 | 35.9 | 4.4% | 140-150 | 2.8 | 0.3% |
| 60-70 | 26.6 | 3.3% | 150-160 | 2.1 | 0.3% |
| 70-80 | 15.7 | 1.9% | 160-170 | 1.2 | 0.1% |
| 80-90 | 3.1 | 0.4% | 170-180 | 0.4 | 0% |



Illuminance at a Distance

| | Center Beam fc | Beam Width | |
|-------|----------------|------------|---------|
| 2.5R | 230 fc | 1.7 ft | 1.7 ft |
| 5.0R | 57.4 fc | 3.5 ft | 3.4 ft |
| 7.5R | 25.5 fc | 5.2 ft | 5.2 ft |
| 10.0R | 14.4 fc | 7.0 ft | 6.9 ft |
| 12.5R | 9.19 fc | 8.7 ft | 8.6 ft |
| 15.0R | 6.38 fc | 10.5 ft | 10.3 ft |

Vert. Spread: 38.5°
 Horiz. Spread: 37.9°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

| RCC %: | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 |
|--------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 0 | 50 | 30 | 20 | 0 | 50 | 30 | 20 | 0 | 0 |
| RCR: 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | .98 | 1.10 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | 1.00 | .98 |
| 1 | 1.12 | 1.09 | 1.07 | 1.04 | 1.10 | 1.07 | 1.05 | .91 | 1.03 | 1.01 | .99 | .99 | .98 | .97 | .95 | .95 | .95 | .94 | .92 | .92 | .90 |
| 2 | 1.06 | 1.01 | .97 | .93 | 1.04 | .99 | .95 | .84 | .96 | .92 | .90 | .90 | .92 | .90 | .87 | .87 | .89 | .87 | .85 | .85 | .83 |
| 3 | 1.01 | .94 | .89 | .85 | .99 | .92 | .88 | .78 | .90 | .85 | .82 | .82 | .87 | .83 | .81 | .81 | .84 | .81 | .79 | .77 | |

| | | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4 | .96 | .88 | .82 | .78 | .94 | .87 | .81 | .73 | .84 | .80 | .76 | .82 | .78 | .75 | .80 | .77 | .74 | .72 |
| 5 | .91 | .82 | .77 | .72 | .89 | .81 | .76 | .69 | .79 | .75 | .71 | .78 | .73 | .70 | .76 | .72 | .69 | .68 |
| 6 | .87 | .78 | .72 | .67 | .85 | .77 | .71 | .65 | .75 | .70 | .66 | .74 | .69 | .66 | .72 | .68 | .65 | .64 |
| 7 | .83 | .74 | .68 | .63 | .81 | .73 | .67 | .61 | .71 | .66 | .63 | .70 | .66 | .62 | .69 | .65 | .62 | .60 |
| 8 | .79 | .70 | .64 | .60 | .78 | .69 | .64 | .58 | .68 | .63 | .59 | .67 | .62 | .59 | .66 | .62 | .59 | .57 |
| 9 | .76 | .66 | .61 | .57 | .75 | .66 | .60 | .56 | .65 | .60 | .56 | .64 | .59 | .56 | .63 | .59 | .56 | .54 |
| 10 | .73 | .63 | .58 | .54 | .72 | .63 | .57 | .53 | .62 | .57 | .54 | .61 | .57 | .53 | .60 | .56 | .53 | .52 |

Candela Table - Type C

| | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | 360 |
|----|------|------|------|------|------|------|------|------|------|
| 0 | 1436 | 1436 | 1436 | 1436 | 1436 | 1436 | 1436 | 1436 | 1436 |
| 1 | 1431 | 1433 | 1431 | 1433 | 1435 | 1433 | 1434 | 1434 | 1431 |
| 2 | 1424 | 1424 | 1422 | 1424 | 1430 | 1427 | 1428 | 1428 | 1424 |
| 3 | 1412 | 1412 | 1407 | 1414 | 1419 | 1414 | 1418 | 1417 | 1412 |
| 4 | 1394 | 1396 | 1390 | 1396 | 1403 | 1400 | 1405 | 1402 | 1394 |
| 5 | 1372 | 1375 | 1370 | 1377 | 1384 | 1379 | 1387 | 1382 | 1372 |
| 6 | 1347 | 1352 | 1345 | 1354 | 1359 | 1354 | 1364 | 1358 | 1347 |
| 7 | 1318 | 1324 | 1317 | 1325 | 1331 | 1326 | 1336 | 1328 | 1318 |
| 8 | 1284 | 1291 | 1282 | 1291 | 1300 | 1294 | 1304 | 1295 | 1284 |
| 9 | 1242 | 1252 | 1243 | 1255 | 1265 | 1256 | 1264 | 1257 | 1242 |
| 10 | 1198 | 1207 | 1200 | 1213 | 1229 | 1215 | 1223 | 1214 | 1198 |
| 11 | 1152 | 1160 | 1152 | 1169 | 1183 | 1166 | 1175 | 1168 | 1152 |
| 12 | 1104 | 1111 | 1102 | 1122 | 1135 | 1117 | 1124 | 1122 | 1104 |
| 13 | 1057 | 1060 | 1048 | 1072 | 1087 | 1067 | 1074 | 1073 | 1057 |
| 14 | 1003 | 1006 | 995 | 1021 | 1035 | 1016 | 1019 | 1020 | 1003 |
| 15 | 946 | 951 | 939 | 965 | 979 | 964 | 964 | 965 | 946 |
| 16 | 889 | 893 | 882 | 907 | 924 | 908 | 905 | 907 | 889 |
| 17 | 832 | 836 | 822 | 847 | 866 | 849 | 848 | 848 | 832 |
| 18 | 773 | 778 | 764 | 788 | 807 | 789 | 788 | 787 | 773 |
| 19 | 714 | 722 | 705 | 729 | 749 | 731 | 729 | 728 | 714 |
| 20 | 655 | 664 | 646 | 670 | 691 | 670 | 667 | 667 | 655 |
| 21 | 599 | 607 | 587 | 609 | 633 | 609 | 610 | 606 | 599 |
| 22 | 546 | 552 | 532 | 554 | 576 | 549 | 555 | 550 | 546 |
| 23 | 497 | 501 | 480 | 503 | 524 | 493 | 503 | 499 | 497 |
| 24 | 450 | 453 | 433 | 456 | 475 | 443 | 454 | 451 | 450 |
| 25 | 406 | 408 | 389 | 412 | 431 | 397 | 409 | 407 | 406 |
| 26 | 364 | 368 | 348 | 370 | 388 | 355 | 367 | 366 | 364 |
| 27 | 326 | 330 | 313 | 332 | 350 | 318 | 328 | 329 | 326 |
| 28 | 291 | 296 | 281 | 297 | 314 | 283 | 292 | 293 | 291 |
| 29 | 258 | 264 | 252 | 265 | 281 | 252 | 261 | 261 | 258 |
| 30 | 230 | 236 | 225 | 236 | 251 | 224 | 233 | 234 | 230 |
| 31 | 206 | 211 | 202 | 211 | 225 | 202 | 209 | 209 | 206 |
| 32 | 184 | 190 | 181 | 189 | 201 | 181 | 188 | 188 | 184 |
| 33 | 165 | 170 | 160 | 170 | 180 | 164 | 170 | 169 | 165 |
| 34 | 149 | 151 | 145 | 154 | 160 | 149 | 154 | 150 | 149 |
| 35 | 135 | 136 | 131 | 139 | 144 | 135 | 140 | 136 | 135 |
| 36 | 122 | 124 | 119 | 126 | 131 | 123 | 127 | 123 | 122 |
| 37 | 111 | 113 | 108 | 115 | 119 | 112 | 116 | 112 | 111 |
| 38 | 101 | 103 | 98 | 106 | 108 | 103 | 106 | 102 | 101 |
| 39 | 93 | 96 | 91 | 98 | 99 | 95 | 98 | 93 | 93 |
| 40 | 86 | 89 | 85 | 90 | 91 | 87 | 90 | 86 | 86 |
| 41 | 80 | 83 | 79 | 83 | 84 | 80 | 82 | 80 | 80 |
| 42 | 75 | 78 | 74 | 77 | 78 | 74 | 76 | 75 | 75 |
| 43 | 70 | 72 | 70 | 72 | 73 | 70 | 71 | 70 | 70 |
| 44 | 66 | 68 | 66 | 67 | 68 | 65 | 67 | 66 | 66 |
| 45 | 63 | 64 | 62 | 63 | 65 | 62 | 63 | 62 | 63 |
| 46 | 60 | 60 | 59 | 59 | 61 | 58 | 60 | 59 | 60 |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 47 | 57 | 57 | 55 | 56 | 58 | 56 | 57 | 56 | 57 |
| 48 | 55 | 54 | 52 | 53 | 55 | 53 | 54 | 54 | 55 |
| 49 | 52 | 52 | 49 | 51 | 53 | 51 | 52 | 52 | 52 |
| 50 | 50 | 49 | 46 | 48 | 50 | 48 | 50 | 49 | 50 |
| 51 | 48 | 47 | 44 | 46 | 48 | 46 | 48 | 48 | 48 |
| 52 | 46 | 45 | 42 | 44 | 46 | 45 | 46 | 46 | 46 |
| 53 | 44 | 43 | 41 | 42 | 45 | 43 | 45 | 44 | 44 |
| 54 | 42 | 42 | 39 | 41 | 43 | 41 | 43 | 42 | 42 |
| 55 | 40 | 40 | 37 | 39 | 41 | 40 | 41 | 41 | 40 |
| 56 | 39 | 39 | 36 | 38 | 39 | 38 | 40 | 39 | 39 |
| 57 | 37 | 37 | 35 | 36 | 38 | 36 | 38 | 37 | 37 |
| 58 | 36 | 36 | 33 | 35 | 36 | 35 | 37 | 36 | 36 |
| 59 | 35 | 34 | 32 | 33 | 34 | 34 | 35 | 35 | 35 |
| 60 | 33 | 33 | 31 | 32 | 33 | 32 | 34 | 33 | 33 |
| 61 | 32 | 32 | 29 | 31 | 32 | 31 | 33 | 32 | 32 |
| 62 | 31 | 31 | 28 | 30 | 31 | 30 | 32 | 31 | 31 |
| 63 | 30 | 30 | 27 | 28 | 29 | 29 | 31 | 30 | 30 |
| 64 | 29 | 29 | 26 | 27 | 28 | 27 | 29 | 29 | 29 |
| 65 | 27 | 27 | 25 | 26 | 27 | 26 | 28 | 28 | 27 |
| 66 | 26 | 26 | 24 | 25 | 26 | 25 | 27 | 26 | 26 |
| 67 | 25 | 25 | 23 | 24 | 25 | 24 | 26 | 25 | 25 |
| 68 | 24 | 24 | 21 | 23 | 24 | 23 | 25 | 24 | 24 |
| 69 | 23 | 23 | 20 | 21 | 22 | 22 | 24 | 23 | 23 |
| 70 | 21 | 22 | 19 | 20 | 21 | 21 | 22 | 22 | 21 |
| 71 | 20 | 20 | 18 | 19 | 20 | 19 | 21 | 21 | 20 |
| 72 | 19 | 19 | 17 | 18 | 19 | 18 | 20 | 19 | 19 |
| 73 | 18 | 18 | 16 | 17 | 18 | 17 | 19 | 18 | 18 |
| 74 | 17 | 17 | 14 | 16 | 16 | 16 | 17 | 17 | 17 |
| 75 | 15 | 15 | 13 | 14 | 15 | 15 | 16 | 16 | 15 |
| 76 | 14 | 14 | 12 | 13 | 14 | 13 | 15 | 15 | 14 |
| 77 | 13 | 13 | 11 | 12 | 13 | 12 | 14 | 13 | 13 |
| 78 | 11 | 12 | 10 | 11 | 11 | 11 | 12 | 12 | 11 |
| 79 | 9 | 10 | 8 | 9 | 10 | 10 | 10 | 11 | 9 |
| 80 | 7 | 9 | 6 | 8 | 9 | 8 | 9 | 9 | 7 |
| 81 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 8 | 5 |
| 82 | 4 | 6 | 3 | 5 | 5 | 6 | 5 | 6 | 4 |
| 83 | 2 | 5 | 1 | 4 | 3 | 4 | 4 | 5 | 2 |
| 84 | 2 | 4 | 1 | 3 | 2 | 3 | 2 | 4 | 2 |
| 85 | 2 | 3 | 0 | 2 | 1 | 2 | 2 | 3 | 2 |
| 86 | 2 | 2 | 0 | 1 | 0 | 1 | 2 | 2 | 2 |
| 87 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 88 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 89 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 90 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 91 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 92 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 93 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 94 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 95 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |

| | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|
| 96 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 97 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 98 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 99 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 100 | 2 | 2 | 1 | 0 | 0 | 0 | 2 | 2 | 2 |
| 101 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 102 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 103 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 104 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 105 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 106 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 107 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 108 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 109 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 110 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 111 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 112 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 113 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 114 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| 115 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 116 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 117 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 118 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 119 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 120 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 121 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 122 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 |
| 123 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 124 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 125 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 126 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 127 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 128 | 2 | 2 | 4 | 3 | 3 | 3 | 2 | 2 | 2 |
| 129 | 3 | 3 | 4 | 4 | 4 | 4 | 2 | 3 | 3 |
| 130 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 131 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 132 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 133 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 134 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 135 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 136 | 3 | 3 | 5 | 5 | 5 | 5 | 3 | 3 | 3 |
| 137 | 3 | 3 | 5 | 5 | 5 | 5 | 3 | 3 | 3 |
| 138 | 3 | 3 | 5 | 5 | 5 | 5 | 3 | 3 | 3 |
| 139 | 3 | 3 | 5 | 5 | 5 | 5 | 3 | 3 | 3 |
| 140 | 3 | 3 | 5 | 5 | 5 | 5 | 3 | 3 | 3 |
| 141 | 3 | 3 | 5 | 5 | 5 | 5 | 3 | 3 | 3 |
| 142 | 4 | 4 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |
| 143 | 4 | 4 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |
| 144 | 4 | 4 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |