

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** s25060019b-01 CFR15-CST(5CCT)\_IESNA95(RP)  
**Manufacturer:** Royal Pacific Ltd  
**Luminaire:** RIESNA:LM-63-1995  
**Lamp:** 120V 60Hz  
**Lamp Cat:** 4352XX-15-5CCT  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 1872.7  
**Max Candela:** 645.3 at Horizontal: 170°, Vertical: 1°  
**Input Wattage:** 26.42  
**Luminous Opening:** Circular (Dia: 0.39M)  
**Test:** s25060019b-01  
**Test Lab:** LEADING TESTING LABORATORIES  
**Photometry :** Type C  
**Nema Type:** 7 X 7

### Roadway Summary

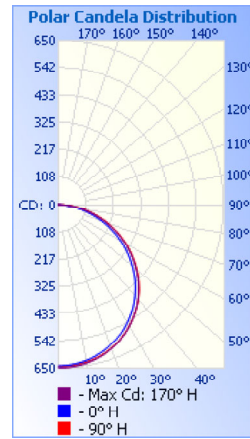
|                        |               |
|------------------------|---------------|
| Cutoff Classification: | CUTOFF        |
| Distribution:          | Type VS       |
| Max Cd, 90 Deg Vert:   | 7.4           |
| Max Cd, 80 to <90 Deg: | 94.9          |
| Lumens % Lamp          |               |
| Downward Street Side:  | 922.3 49.3%   |
| Downward House Side:   | 948.1 50.6%   |
| Downward Total:        | 1,870.4 99.9% |
| Upward Street Side:    | 1.1 0.1%      |
| Upward House Side:     | 1.2 0.1%      |
| Upward Total:          | 2.3 0.1%      |
| Total Lumens:          | 1,872.7 100%  |

### Zonal Lumen Summary

| Zone   | Lumens  | % Lamp | % Luminaire |
|--------|---------|--------|-------------|
| 0-30   | 500.6   | 26.7%  | 26.7%       |
| 0-40   | 822.4   | 43.9%  | 43.9%       |
| 0-60   | 1,461.7 | 78.1%  | 78.1%       |
| 60-90  | 408.7   | 21.8%  | 21.8%       |
| 70-100 | 175.8   | 9.4%   | 9.4%        |
| 90-120 | 0.9     | 0%     | 0%          |
| 0-90   | 1,870.4 | 99.9%  | 99.9%       |
| 90-180 | 2.3     | 0.1%   | 0.1%        |
| 0-180  | 1,872.7 | 100%   | 100%        |

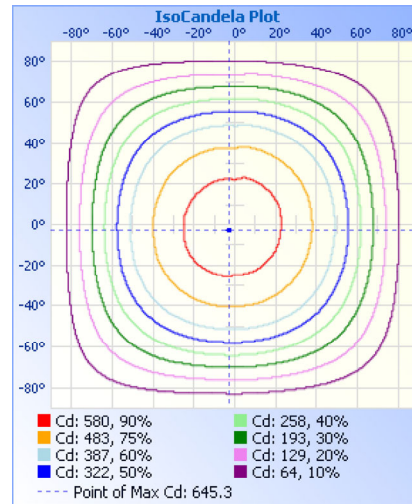
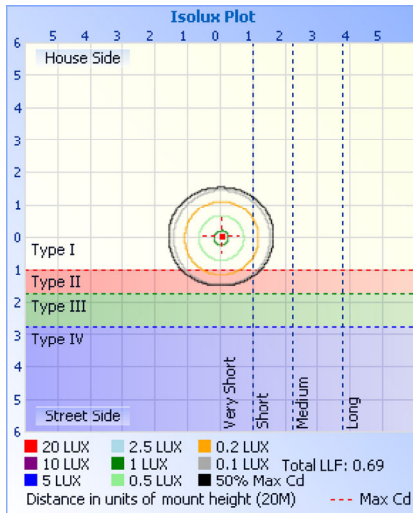
### Flood Summary

|              | Efficiency | Lumens  | Horizontal Spread | Vertical Spread |
|--------------|------------|---------|-------------------|-----------------|
| Field (10%): | 98.5%      | 1,843.8 | 163.1             | 162.9           |
| Beam (50%):  | 73%        | 1,367.3 | 113.4             | 113.3           |
| Total:       | 100%       | 1,871.9 |                   |                 |

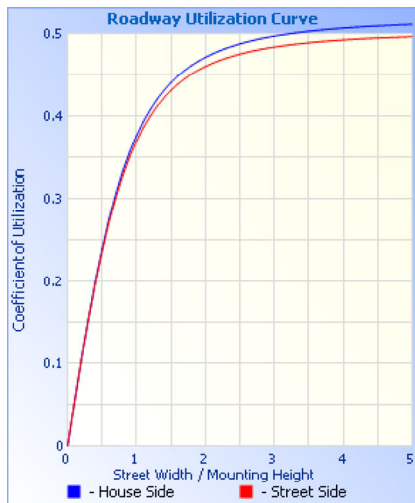


### Lumens Per Zone

| Zone  | Lumens | % Total | Zone    | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10  | 60.7   | 3.2%    | 90-100  | 0.4    | 0%      |
| 10-20 | 174.4  | 9.3%    | 100-110 | 0.3    | 0%      |
| 20-30 | 265.5  | 14.2%   | 110-120 | 0.3    | 0%      |
| 30-40 | 321.8  | 17.2%   | 120-130 | 0.3    | 0%      |
| 40-50 | 335.2  | 17.9%   | 130-140 | 0.3    | 0%      |
| 50-60 | 304.0  | 16.2%   | 140-150 | 0.3    | 0%      |
| 60-70 | 233.3  | 12.5%   | 150-160 | 0.2    | 0%      |
| 70-80 | 136.9  | 7.3%    | 160-170 | 0.2    | 0%      |
| 80-90 | 38.5   | 2.1%    | 170-180 | 0.1    | 0%      |



| Illuminance at a Distance |                 |            |         |
|---------------------------|-----------------|------------|---------|
|                           | Center Beam LUX | Beam Width |         |
| 1.00M                     | 639 LUX         | 3.04 M     | 3.04 M  |
| 2.00M                     | 160 LUX         | 6.08 M     | 6.09 M  |
| 3.00M                     | 71.0 LUX        | 9.12 M     | 9.13 M  |
| 4.00M                     | 39.9 LUX        | 12.16 M    | 12.17 M |
| 5.00M                     | 25.6 LUX        | 15.20 M    | 15.22 M |
| 6.00M                     | 17.7 LUX        | 18.25 M    | 18.27 M |
| Vert. Spread: 113.3°      |                 |            |         |
| Horiz. Spread: 113.4°     |                 |            |         |



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   | 50   | 30   | 20   | 50   | 30   | 20   | 0    |
| RCR: 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.00 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1      | 1.09 | 1.04 | .99  | .95  | 1.06 | 1.01 | .97  | .84  | .97  | .94  | .91  | .93  | .90  | .88  | .89  | .87  | .85  | .83  |
| 2      | .99  | .90  | .83  | .77  | .96  | .88  | .82  | .70  | .85  | .79  | .75  | .81  | .77  | .73  | .78  | .75  | .71  | .69  |
| 3      | .90  | .79  | .71  | .64  | .87  | .77  | .70  | .60  | .74  | .68  | .62  | .72  | .66  | .61  | .69  | .64  | .60  | .58  |
| 4      | .82  | .70  | .61  | .54  | .80  | .69  | .60  | .51  | .66  | .59  | .53  | .64  | .57  | .52  | .61  | .56  | .52  | .49  |
| 5      | .75  | .62  | .53  | .47  | .73  | .61  | .53  | .44  | .59  | .52  | .46  | .57  | .50  | .45  | .55  | .49  | .45  | .43  |
| 6      | .70  | .56  | .47  | .41  | .68  | .55  | .47  | .39  | .53  | .46  | .40  | .52  | .45  | .40  | .50  | .44  | .39  | .37  |
| 7      | .64  | .51  | .42  | .36  | .63  | .50  | .42  | .35  | .48  | .41  | .35  | .47  | .40  | .35  | .46  | .39  | .35  | .33  |
| 8      | .60  | .46  | .38  | .32  | .58  | .46  | .37  | .31  | .44  | .37  | .32  | .43  | .36  | .31  | .42  | .36  | .31  | .29  |
| 9      | .56  | .43  | .34  | .29  | .55  | .42  | .34  | .28  | .41  | .33  | .28  | .40  | .33  | .28  | .39  | .33  | .28  | .26  |
| 10     | .53  | .39  | .31  | .26  | .51  | .39  | .31  | .25  | .38  | .31  | .26  | .37  | .30  | .26  | .36  | .30  | .25  | .24  |

| Candela Table - Type C |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                        | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 |     |     |
| 0                      | 639 | 640 | 641 | 640 | 638 | 638 | 639 | 638 | 639 | 639 | 639 | 640 | 645 | 645 | 645 | 645 | 644 | 645 | 645 | 639 | 640 | 641 | 640 | 638 | 638 | 639 | 638 | 639 | 639 | 640 | 645 | 645 | 645 | 645 | 644 | 645 | 645 | 639 |     |
| 0.5                    | 638 | 640 | 641 | 640 | 638 | 638 | 639 | 638 | 639 | 639 | 640 | 640 | 645 | 645 | 645 | 645 | 644 | 645 | 645 | 639 | 640 | 641 | 640 | 638 | 638 | 639 | 638 | 639 | 639 | 640 | 645 | 644 | 645 | 644 | 644 | 645 | 645 | 638 |     |
| 1                      | 638 | 640 | 641 | 640 | 638 | 638 | 639 | 637 | 639 | 640 | 640 | 645 | 645 | 645 | 645 | 644 | 645 | 645 | 639 | 640 | 641 | 641 | 638 | 638 | 639 | 638 | 639 | 639 | 640 | 644 | 644 | 644 | 644 | 644 | 643 | 645 | 645 | 638 |     |
| 1.5                    | 637 | 640 | 640 | 640 | 638 | 638 | 639 | 637 | 639 | 640 | 640 | 645 | 645 | 645 | 645 | 645 | 645 | 645 | 639 | 640 | 640 | 640 | 639 | 637 | 639 | 638 | 639 | 639 | 639 | 644 | 644 | 644 | 644 | 644 | 644 | 645 | 645 | 637 |     |
| 2                      | 637 | 640 | 640 | 639 | 638 | 638 | 639 | 638 | 639 | 640 | 640 | 645 | 645 | 645 | 645 | 644 | 645 | 645 | 639 | 640 | 640 | 640 | 638 | 638 | 638 | 637 | 638 | 639 | 639 | 644 | 644 | 644 | 644 | 644 | 643 | 644 | 644 | 637 |     |
| 2.5                    | 637 | 639 | 640 | 639 | 637 | 638 | 639 | 637 | 639 | 639 | 640 | 645 | 645 | 645 | 645 | 644 | 645 | 645 | 638 | 640 | 640 | 639 | 638 | 637 | 638 | 637 | 638 | 638 | 638 | 644 | 643 | 643 | 643 | 643 | 643 | 644 | 644 | 637 |     |
| 3                      | 637 | 639 | 640 | 639 | 637 | 638 | 639 | 638 | 639 | 639 | 640 | 645 | 645 | 645 | 645 | 644 | 645 | 645 | 638 | 640 | 640 | 639 | 637 | 637 | 638 | 636 | 637 | 638 | 638 | 643 | 643 | 643 | 643 | 643 | 644 | 644 | 637 |     |     |
| 3.5                    | 636 | 639 | 639 | 638 | 637 | 638 | 639 | 638 | 640 | 639 | 640 | 645 | 644 | 645 | 645 | 644 | 645 | 645 | 638 | 639 | 640 | 638 | 637 | 637 | 637 | 637 | 635 | 637 | 637 | 638 | 643 | 642 | 642 | 642 | 642 | 642 | 643 | 644 | 636 |
| 4                      | 636 | 638 | 639 | 638 | 638 | 637 | 639 | 638 | 638 | 639 | 640 | 645 | 644 | 644 | 644 | 644 | 643 | 644 | 644 | 638 | 639 | 639 | 638 | 637 | 636 | 637 | 635 | 636 | 636 | 637 | 642 | 642 | 642 | 642 | 642 | 643 | 643 | 636 |     |
| 4.5                    | 635 | 638 | 638 | 637 | 637 | 638 | 638 | 637 | 638 | 638 | 639 | 644 | 644 | 644 | 644 | 643 | 644 | 644 | 638 | 639 | 639 | 638 | 636 | 635 | 636 | 635 | 636 | 635 | 636 | 636 | 641 | 641 | 641 | 641 | 641 | 641 | 642 | 635 |     |
| 5                      | 634 | 637 | 638 | 637 | 636 | 637 | 638 | 637 | 638 | 638 | 639 | 644 | 644 | 644 | 643 | 643 | 643 | 644 | 638 | 638 | 638 | 638 | 635 | 635 | 635 | 634 | 635 | 635 | 636 | 641 | 640 | 641 | 641 | 640 | 641 | 640 | 641 | 634 |     |
| 5.5                    | 633 | 636 | 637 | 636 | 635 | 637 | 637 | 637 | 638 | 639 | 644 | 643 | 643 | 643 | 643 | 642 | 643 | 643 | 637 | 638 | 638 | 637 | 634 | 634 | 634 | 632 | 633 | 635 | 635 | 635 | 640 | 640 | 640 | 640 | 639 | 641 | 641 | 633 |     |
| 6                      | 633 | 636 | 637 | 636 | 635 | 636 | 637 | 635 | 637 | 637 | 638 | 643 | 643 | 643 | 642 | 642 | 643 | 642 | 636 | 637 | 637 | 637 | 634 | 634 | 634 | 632 | 633 | 634 | 634 | 639 | 639 | 639 | 639 | 639 | 640 | 641 | 633 |     |     |
| 6.5                    | 632 | 635 | 636 | 636 | 634 | 636 | 636 | 635 | 637 | 637 | 638 | 643 | 642 | 642 | 642 | 642 | 641 | 642 | 642 | 635 | 637 | 637 | 636 | 633 | 633 | 633 | 633 | 633 | 633 | 634 | 638 | 638 | 638 | 638 | 638 | 638 | 639 | 640 | 632 |
| 7                      | 632 | 634 | 635 | 635 | 633 | 635 | 636 | 635 | 637 | 637 | 637 | 642 | 642 | 642 | 642 | 642 | 641 | 641 | 641 | 635 | 636 | 636 | 635 | 633 | 632 | 633 | 632 | 632 | 632 | 633 | 638 | 637 | 637 | 637 | 637 | 638 | 639 | 632 |     |
| 7.5                    | 631 | 634 | 634 | 634 | 634 | 635 | 635 | 635 | 636 | 636 | 636 | 642 | 641 | 641 | 641 | 640 | 641 | 640 | 634 | 635 | 635 | 634 | 632 | 631 | 632 | 631 | 631 | 631 | 631 | 632 | 637 | 636 | 637 | 637 | 636 | 638 | 638 | 631 |     |
| 8                      | 630 | 632 | 633 | 633 | 632 | 634 | 634 | 636 | 635 | 636 | 641 | 641 | 640 | 640 | 640 | 639 | 640 | 640 | 633 | 634 | 634 | 634 | 631 | 631 | 631 | 630 | 630 | 631 | 631 | 635 | 635 | 635 | 635 | 635 | 636 | 637 | 638 | 630 |     |
| 8.5                    | 629 | 632 | 632 | 632 | 631 | 633 | 633 | 635 | 634 | 635 | 640 | 640 | 640 | 639 | 638 | 639 | 639 | 633 | 633 | 633 | 633 | 634 | 632 | 629 | 630 | 630 | 629 | 629 | 630 | 630 | 635 | 634 | 634 | 635 | 634 | 636 | 636 | 629 |     |
| 9                      | 628 | 630 | 632 | 631 | 630 | 632 | 632 | 632 | 634 | 634 | 634 | 639 | 639 | 639 | 639 | 638 | 639 | 638 | 632 | 633 | 633 | 632 | 629 | 629 | 629 | 628 | 628 | 629 | 629 | 633 | 633 | 633 | 634 | 633 | 635 | 636 | 628 |     |     |
| 9.5                    | 627 | 630 | 631 | 630 | 629 | 631 | 631 | 631 | 634 | 633 | 634 | 639 | 638 | 638 | 638 | 637 | 637 | 637 | 631 | 632 | 632 | 631 | 628 | 628 | 628 | 627 | 627 | 628 | 628 | 632 | 632 | 632 | 632 | 632 | 632 | 634 | 627 |     |     |
| 10                     | 626 | 628 | 630 | 629 | 628 | 630 | 631 | 631 | 633 | 632 | 633 | 638 | 637 | 637 | 637 | 636 | 637 | 636 | 630 | 631 | 631 | 630 | 627 | 628 | 627 | 626 | 626 | 626 | 627 | 631 | 631 | 631 | 631 | 631 | 633 | 634 | 626 |     |     |
| 10.5                   | 625 | 627 | 628 | 628 | 627 | 629 | 629 | 630 | 632 | 632 | 631 | 637 | 636 | 636 | 636 | 635 | 635 | 635 | 629 | 630 | 630 | 629 | 626 | 626 | 626 | 624 | 624 | 625 | 625 | 630 | 629 | 630 | 630 | 630 | 631 | 632 | 625 |     |     |
| 11                     | 624 | 626 | 627 | 627 | 626 | 628 | 628 | 629 | 631 | 631 | 636 | 635 | 635 | 635 | 634 | 635 | 634 | 628 | 629 | 629 | 628 | 625 | 626 | 623 | 623 | 624 | 624 | 624 | 628 | 628 | 628 | 628 | 629 | 629 | 630 | 631 | 624 |     |     |
| 11.5                   | 623 | 625 | 626 | 626 | 624 | 627 | 627 | 627 | 628 | 629 | 629 | 635 | 634 | 634 | 634 | 633 | 633 | 633 | 627 | 628 | 628 | 626 | 623 | 623 | 621 | 621 | 621 | 623 | 623 | 627 | 627 | 627 | 627 | 627 | 629 | 629 | 623 |     |     |
| 12                     | 621 | 624 | 625 | 625 | 623 | 625 | 626 | 626 | 627 | 629 | 629 | 634 | 633 | 633 | 633 | 632 | 633 | 632 | 625 | 627 | 626 | 625 | 623 | 622 | 622 | 621 | 621 | 622 | 621 | 626 | 626 | 626 | 626 | 626 | 627 | 629 | 621 |     |     |
| 12.5                   | 619 | 622 | 623 | 623 | 622 | 624 | 625 | 625 | 627 | 627 | 627 | 633 | 632 | 632 | 632 | 631 | 631 | 631 | 624 | 626 | 625 | 624 | 621 | 621 | 621 | 620 | 619 | 619 | 620 | 624 | 624 | 624 | 625 | 625 | 626 | 627 | 619 |     |     |
| 13                     | 617 | 621 | 622 | 622 | 621 | 623 | 624 | 624 | 626 | 626 | 626 | 631 | 631 | 631 | 631 | 630 | 630 | 629 | 623 | 624 | 624 | 622 | 620 | 619 | 619 | 619 | 618 | 618 | 619 | 623 | 623 | 623 | 623 | 623 | 625 | 626 | 617 |     |     |
| 13.5                   | 616 | 620 | 621 | 621 | 620 | 622 | 623 | 623 | 624 | 625 | 625 | 630 | 630 | 630 | 629 | 629 | 629 | 628 | 622 | 623 | 622 | 621 | 618 | 618 | 617 | 617 | 616 | 616 | 617 | 621 | 621 | 621 | 622 | 622 | 623 | 624 | 616 |     |     |
| 14                     | 614 | 618 | 619 | 620 | 619 | 620 | 621 | 621 | 623 | 624 | 624 | 629 | 629 | 628 | 628 | 627 | 627 | 627 | 620 | 621 | 621 | 620 | 616 | 616 | 616 | 616 | 616 | 614 | 615 | 615 | 620 | 619 | 620 | 620 | 620 | 622 | 623 | 614 |     |
| 14.5                   | 613 | 617 | 618 | 617 | 617 | 619 | 620 | 620 | 622 | 622 | 622 | 628 | 627 | 627 | 627 | 626 | 626 | 625 | 620 | 620 | 620 | 618 | 615 | 615 | 614 | 614 | 613 | 613 | 614 | 618 | 618 | 618 | 618 | 618 | 618 | 620 | 621 | 613 |     |
| 15                     | 611 | 615 | 616 | 617 | 615 | 618 | 618 | 619 | 620 | 621 | 621 | 626 | 626 | 626 | 625 | 624 | 625 | 624 | 618 | 619 | 618 | 617 | 614 | 613 | 613 | 613 | 611 | 611 | 612 | 616 | 616 | 616 | 617 | 617 | 618 | 619 | 611 |     |     |
| 15.5                   | 610 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 36   | 498 | 502 | 504 | 507 | 506 | 510 | 513 | 512 | 516 | 516 | 517 | 522 | 521 | 521 | 520 | 519 | 517 | 516 | 511 | 511 | 509 | 506 | 504 | 501 | 499 | 497 | 495 | 494 | 495 | 498 | 498 | 499 | 499 | 501 | 503 | 505 | 498 |
| 36.5 | 495 | 498 | 500 | 501 | 503 | 506 | 509 | 509 | 513 | 513 | 514 | 518 | 518 | 517 | 516 | 515 | 514 | 513 | 507 | 507 | 505 | 503 | 500 | 498 | 495 | 493 | 491 | 490 | 491 | 494 | 494 | 495 | 495 | 497 | 499 | 501 | 495 |
| 37   | 491 | 494 | 497 | 497 | 499 | 502 | 505 | 505 | 509 | 509 | 510 | 514 | 514 | 513 | 511 | 510 | 508 | 504 | 504 | 501 | 499 | 496 | 494 | 492 | 489 | 487 | 486 | 487 | 491 | 490 | 491 | 492 | 493 | 495 | 497 | 491 |     |
| 37.5 | 487 | 491 | 493 | 495 | 495 | 499 | 502 | 502 | 505 | 506 | 506 | 511 | 510 | 510 | 509 | 508 | 507 | 505 | 500 | 499 | 498 | 495 | 492 | 490 | 487 | 485 | 484 | 483 | 483 | 486 | 486 | 487 | 488 | 489 | 491 | 487 |     |
| 38   | 483 | 487 | 489 | 491 | 491 | 495 | 498 | 498 | 502 | 502 | 503 | 507 | 507 | 506 | 505 | 504 | 503 | 501 | 496 | 496 | 494 | 491 | 488 | 486 | 484 | 482 | 480 | 480 | 479 | 483 | 483 | 483 | 484 | 485 | 487 | 483 |     |
| 38.5 | 479 | 483 | 485 | 487 | 488 | 491 | 494 | 494 | 498 | 498 | 499 | 503 | 503 | 502 | 502 | 500 | 499 | 498 | 494 | 492 | 490 | 487 | 484 | 482 | 479 | 477 | 476 | 476 | 475 | 478 | 478 | 479 | 480 | 481 | 483 | 485 |     |
| 39   | 475 | 479 | 481 | 483 | 484 | 487 | 490 | 491 | 494 | 495 | 495 | 500 | 499 | 499 | 498 | 497 | 495 | 493 | 489 | 488 | 487 | 483 | 480 | 478 | 476 | 473 | 472 | 471 | 471 | 474 | 474 | 475 | 476 | 477 | 479 | 482 |     |
| 39.5 | 471 | 475 | 477 | 480 | 481 | 484 | 487 | 487 | 491 | 491 | 492 | 496 | 496 | 495 | 494 | 493 | 491 | 490 | 485 | 484 | 483 | 479 | 476 | 474 | 472 | 469 | 468 | 468 | 468 | 470 | 470 | 471 | 472 | 473 | 475 | 477 |     |
| 40   | 467 | 471 | 474 | 475 | 476 | 479 | 483 | 483 | 486 | 487 | 488 | 492 | 492 | 491 | 490 | 489 | 488 | 485 | 482 | 480 | 479 | 475 | 472 | 470 | 468 | 465 | 464 | 463 | 463 | 466 | 466 | 467 | 468 | 469 | 471 | 474 |     |
| 40.5 | 463 | 467 | 469 | 471 | 472 | 475 | 479 | 479 | 481 | 483 | 484 | 488 | 488 | 487 | 486 | 485 | 483 | 482 | 478 | 477 | 475 | 471 | 468 | 466 | 463 | 461 | 459 | 459 | 459 | 462 | 461 | 462 | 464 | 464 | 467 | 469 |     |
| 41   | 459 | 463 | 465 | 467 | 468 | 472 | 475 | 475 | 477 | 479 | 480 | 484 | 484 | 483 | 482 | 481 | 480 | 478 | 474 | 473 | 471 | 467 | 464 | 463 | 460 | 458 | 455 | 455 | 455 | 458 | 458 | 458 | 459 | 461 | 463 | 465 |     |
| 41.5 | 454 | 458 | 461 | 463 | 464 | 467 | 470 | 471 | 474 | 475 | 476 | 480 | 480 | 479 | 478 | 477 | 475 | 474 | 470 | 469 | 467 | 463 | 460 | 458 | 455 | 453 | 451 | 450 | 451 | 453 | 453 | 454 | 455 | 456 | 459 | 461 |     |
| 42   | 450 | 454 | 457 | 459 | 460 | 463 | 467 | 467 | 469 | 471 | 472 | 476 | 476 | 475 | 474 | 473 | 471 | 469 | 466 | 464 | 462 | 459 | 456 | 454 | 451 | 449 | 447 | 447 | 447 | 449 | 449 | 450 | 451 | 452 | 455 | 457 |     |
| 42.5 | 446 | 450 | 453 | 455 | 456 | 459 | 463 | 464 | 466 | 467 | 468 | 472 | 472 | 471 | 470 | 469 | 467 | 465 | 462 | 460 | 458 | 455 | 452 | 450 | 447 | 445 | 442 | 442 | 442 | 445 | 444 | 445 | 447 | 448 | 450 |     |     |
| 43   | 442 | 446 | 449 | 451 | 452 | 455 | 458 | 460 | 461 | 463 | 464 | 468 | 468 | 467 | 466 | 464 | 463 | 461 | 458 | 456 | 454 | 451 | 448 | 445 | 443 | 441 | 438 | 439 | 438 | 441 | 440 | 441 | 442 | 443 | 446 |     |     |
| 43.5 | 437 | 441 | 444 | 447 | 448 | 451 | 454 | 456 | 457 | 459 | 460 | 464 | 463 | 463 | 462 | 461 | 459 | 457 | 454 | 452 | 450 | 447 | 444 | 441 | 438 | 436 | 434 | 434 | 433 | 436 | 436 | 437 | 438 | 439 | 441 |     |     |
| 44   | 433 | 437 | 440 | 442 | 444 | 446 | 450 | 451 | 453 | 455 | 456 | 460 | 459 | 459 | 458 | 456 | 455 | 453 | 450 | 448 | 445 | 442 | 439 | 437 | 434 | 432 | 430 | 429 | 429 | 432 | 431 | 432 | 433 | 434 | 437 |     |     |
| 44.5 | 429 | 433 | 436 | 438 | 439 | 442 | 446 | 447 | 449 | 451 | 451 | 455 | 455 | 454 | 453 | 452 | 451 | 448 | 445 | 444 | 441 | 438 | 435 | 432 | 430 | 427 | 425 | 425 | 425 | 427 | 427 | 428 | 429 | 430 | 432 |     |     |
| 45   | 425 | 428 | 431 | 434 | 435 | 438 | 441 | 442 | 444 | 447 | 447 | 451 | 451 | 450 | 449 | 447 | 446 | 444 | 441 | 439 | 437 | 434 | 430 | 428 | 425 | 423 | 421 | 421 | 420 | 423 | 423 | 423 | 424 | 426 | 428 |     |     |
| 45.5 | 421 | 424 | 427 | 429 | 430 | 434 | 437 | 438 | 440 | 442 | 443 | 447 | 446 | 446 | 445 | 443 | 442 | 439 | 437 | 435 | 433 | 429 | 426 | 423 | 421 | 418 | 416 | 416 | 416 | 418 | 418 | 419 | 420 | 421 | 424 |     |     |
| 46   | 416 | 419 | 422 | 425 | 426 | 429 | 433 | 433 | 436 | 438 | 439 | 443 | 442 | 442 | 441 | 439 | 437 | 435 | 432 | 430 | 428 | 425 | 422 | 418 | 417 | 414 | 412 | 412 | 411 | 414 | 414 | 414 | 415 | 417 | 419 |     |     |
| 46.5 | 412 | 415 | 418 | 420 | 422 | 425 | 428 | 429 | 432 | 433 | 434 | 438 | 438 | 437 | 436 | 435 | 433 | 431 | 428 | 426 | 424 | 420 | 417 | 414 | 412 | 409 | 407 | 407 | 406 | 409 | 408 | 410 | 411 | 412 | 415 |     |     |
| 47   | 407 | 410 | 413 | 416 | 417 | 420 | 424 | 425 | 427 | 429 | 430 | 434 | 433 | 433 | 432 | 430 | 429 | 426 | 423 | 421 | 419 | 416 | 413 | 410 | 407 | 404 | 403 | 403 | 402 | 404 | 404 | 405 | 406 | 407 | 410 |     |     |
| 47.5 | 402 | 406 | 409 | 411 | 413 | 416 | 419 | 420 | 423 | 425 | 425 | 429 | 429 | 428 | 427 | 426 | 424 | 422 | 419 | 417 | 415 | 411 | 408 | 405 | 403 | 400 | 398 | 398 | 397 | 399 | 399 | 400 | 402 | 403 | 405 |     |     |
| 48   | 397 | 401 | 404 | 407 | 409 | 411 | 415 | 416 | 418 | 421 | 421 | 425 | 424 | 424 | 423 | 421 | 419 | 417 | 414 | 413 | 410 | 407 | 403 | 400 | 398 | 395 | 393 | 393 | 393 | 395 | 395 | 396 | 397 | 398 | 401 |     |     |
| 48.5 | 393 | 396 | 399 | 402 | 404 | 407 | 410 | 411 | 414 | 416 | 416 | 420 | 420 | 419 | 418 | 416 | 415 | 412 | 410 | 408 | 406 | 402 | 399 | 395 | 393 | 391 | 389 | 388 | 388 | 390 | 390 | 391 | 392 | 393 | 396 |     |     |
| 49   | 388 | 392 | 395 | 397 | 400 | 402 | 406 | 407 | 409 | 411 | 412 | 416 | 415 | 415 | 414 | 412 | 410 | 408 | 406 | 403 | 401 | 397 | 394 | 391 | 389 | 386 | 384 | 383 | 383 | 385 | 386 | 386 | 387 | 388 | 391 |     |     |
| 49.5 | 383 | 387 | 390 | 393 | 395 | 398 | 401 | 403 | 405 | 407 | 407 | 411 | 411 | 410 | 409 | 407 | 406 | 403 | 401 | 399 | 396 | 393 | 389 | 386 | 384 | 381 | 379 | 378 | 380 | 380 | 381 | 382 | 384 | 386 | 389 |     |     |
| 50   | 378 | 382 | 386 | 388 | 391 | 393 | 397 | 398 | 400 | 402 | 403 | 407 | 406 | 406 | 404 | 403 | 401 | 399 | 396 | 394 | 392 | 388 | 385 | 381 | 379 | 377 | 375 | 373 | 374 | 376 | 376 | 376 | 378 | 379 | 382 |     |     |
| 50.5 | 373 | 377 | 380 | 383 | 386 | 389 | 392 | 394 | 395 | 397 | 398 | 402 | 401 | 401 | 399 | 398 | 396 | 394 | 391 | 390 | 387 | 383 | 380 | 377 | 375 | 372 | 370 | 368 | 369 | 371 | 370 | 371 | 373 | 374 | 377 |     |     |
| 51   | 369 | 373 | 376 | 378 | 381 | 384 | 387 | 389 | 390 | 393 | 394 | 397 | 397 | 396 | 395 | 393 | 392 | 389 | 387 | 385 | 382 | 379 | 375 | 372 | 370 | 367 | 365 | 364 | 364 | 366 | 366 | 367 | 368 | 369 | 372 |     |     |
| 51.5 | 364 | 368 | 371 | 374 | 376 | 379 | 382 | 384 | 386 | 388 | 389 | 392 | 392 | 392 | 390 | 389 | 387 | 384 | 382 | 380 | 377 | 374 | 371 | 367 | 365 | 362 | 360 | 359 | 359 | 361 | 361 | 362 | 363 | 364 | 367 |     |     |
| 52   | 359 | 363 | 366 | 369 | 372 | 374 | 378 | 379 | 381 | 383 | 384 | 388 | 387 | 387 | 385 | 384 | 382 | 379 | 377 | 375 | 372 | 369 | 366 | 362 | 360 | 357 | 355 | 354 | 354 | 356 | 356 | 357 | 358 | 359 | 362 |     |     |
| 52.5 | 354 | 358 | 361 | 364 | 367 | 369 | 373 | 374 | 376 | 378 | 379 | 383 | 383 | 382 | 381 | 379 | 377 | 375 | 372 | 370 | 367 | 364 | 361 | 357 | 355 | 353 | 351 | 349 | 349 | 351 | 351 | 352 | 353 | 354 | 357 |     |     |
| 53   | 349 | 353 | 356 | 359 | 362 | 364 | 368 | 370 | 372 | 374 | 375 | 378 | 378 | 377 | 376 | 374 | 372 | 370 | 368 | 366 | 362 | 359 | 356 | 352 | 350 | 347 | 345 | 344 | 344 | 346 | 346 | 347 | 348 | 349 | 352 |     |     |
| 53.5 | 344 | 348 | 351 | 354 | 357 | 360 | 363 | 365 | 367 | 369 | 370 | 373 | 373 | 372 | 371 | 369 | 367 | 365 | 363 | 361 | 358 | 355 | 351 | 348 | 345 | 343 | 341 | 339 | 339 | 341 | 341 | 342 | 343 | 344 | 347 |     |     |
| 54   | 339 | 343 | 346 | 349 | 352 | 355 | 358 | 360 | 362 | 364 | 365 | 368 | 368 | 367 | 366 | 364 | 362 | 360 | 358 | 356 | 353 | 350 | 346 | 342 | 340 | 338 | 335 | 335 | 334 | 336 | 336 | 336 | 338 | 339 | 342 |     |     |
| 54.5 | 334 | 338 | 341 | 344 | 347 | 350 | 353 | 354 | 357 | 359 | 360 | 363 | 363 | 362 | 361 | 359 | 358 | 355 | 353 | 351 | 348 | 345 | 341 | 337 | 335 | 333 | 331 | 330 | 329 | 331 | 330 | 331 | 333 | 334 | 337 |     |     |
| 55   | 329 | 333 | 336 | 339 | 342 | 345 | 348 | 350 | 352 | 354 | 355 | 359 | 358 | 358 | 356 | 355 | 353 | 350 | 348 | 346 | 343 | 340 | 336 | 333 | 330 | 328 | 326 | 325 | 324 | 326 | 326 | 326 | 328 | 329 | 332 |     |     |
| 55.5 | 324 | 328 | 331 | 334 | 337 | 340 | 343 | 345 | 347 | 349 | 350 | 353 | 353 | 352 | 351 | 349 | 347 | 345 | 343 | 341 | 338 | 335 | 331 | 328 | 325 | 323 | 321 | 320 | 319 | 321 | 320 | 321 | 323 | 324 | 327 |     |     |
| 56   | 319 | 323 | 326 | 329 | 332 | 335 | 338 | 340 | 342 | 344 | 346 | 349 | 348 | 347 | 346 | 344 | 342 | 340 | 338 | 336 | 333 | 329 | 326 | 322 | 320 | 318 | 315 | 314 | 314 | 315 | 315 | 316 | 317 | 319 | 321 |     |     |
| 56.5 | 314 | 318 | 321 | 324 | 327 | 330 | 333 | 335 | 337 | 339 | 340 | 343 | 343 | 342 | 341 | 339 | 337 | 335 | 333 | 331 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|      | 133 | 137 | 140 | 143 | 147 | 150 | 154 | 156 | 158 | 160 | 161 | 163 | 163 | 162 | 160 | 158 | 156 | 153 | 155 | 152 | 149 | 146 | 142 | 139 | 136 | 134 | 132 | 130 | 129 | 130 | 130 | 130 | 131 | 133 | 135 | 138 | 133 |    |
| 74   | 128 | 131 | 135 | 138 | 142 | 145 | 148 | 151 | 153 | 155 | 156 | 157 | 157 | 157 | 155 | 153 | 151 | 148 | 150 | 147 | 144 | 141 | 137 | 134 | 132 | 129 | 127 | 126 | 125 | 125 | 125 | 125 | 126 | 128 | 130 | 133 | 128 |    |
| 74.5 | 123 | 126 | 130 | 133 | 136 | 140 | 143 | 145 | 148 | 149 | 151 | 152 | 152 | 151 | 150 | 148 | 146 | 143 | 145 | 142 | 139 | 135 | 132 | 128 | 126 | 123 | 121 | 120 | 119 | 119 | 119 | 120 | 121 | 122 | 125 | 128 | 123 |    |
| 75   | 117 | 121 | 124 | 128 | 131 | 134 | 138 | 140 | 142 | 144 | 145 | 147 | 147 | 146 | 144 | 142 | 140 | 138 | 139 | 137 | 133 | 130 | 127 | 123 | 121 | 119 | 117 | 115 | 114 | 114 | 114 | 114 | 116 | 117 | 120 | 122 | 117 |    |
| 75.5 | 112 | 116 | 119 | 122 | 126 | 129 | 133 | 135 | 137 | 139 | 140 | 142 | 141 | 141 | 139 | 137 | 135 | 132 | 134 | 131 | 128 | 125 | 122 | 118 | 116 | 114 | 112 | 110 | 109 | 109 | 109 | 110 | 111 | 112 | 114 | 117 | 112 |    |
| 76   | 107 | 111 | 114 | 117 | 121 | 124 | 127 | 129 | 132 | 134 | 135 | 136 | 136 | 135 | 134 | 132 | 130 | 127 | 129 | 126 | 123 | 120 | 116 | 113 | 110 | 108 | 106 | 104 | 103 | 104 | 103 | 104 | 105 | 107 | 109 | 112 | 107 |    |
| 76.5 | 102 | 106 | 109 | 112 | 115 | 119 | 122 | 124 | 127 | 128 | 130 | 131 | 131 | 130 | 129 | 127 | 125 | 122 | 124 | 121 | 118 | 115 | 111 | 108 | 106 | 103 | 101 | 100 | 99  | 99  | 99  | 99  | 100 | 102 | 104 | 107 | 102 |    |
| 77   | 97  | 100 | 104 | 107 | 110 | 114 | 117 | 119 | 121 | 123 | 124 | 126 | 126 | 125 | 123 | 121 | 119 | 117 | 119 | 116 | 113 | 109 | 106 | 103 | 101 | 98  | 96  | 95  | 94  | 94  | 94  | 94  | 94  | 95  | 97  | 99  | 102 | 97 |
| 77.5 | 92  | 96  | 99  | 102 | 105 | 108 | 112 | 114 | 116 | 118 | 119 | 120 | 120 | 119 | 118 | 116 | 114 | 112 | 113 | 111 | 107 | 104 | 101 | 98  | 95  | 93  | 91  | 89  | 89  | 89  | 89  | 89  | 90  | 92  | 94  | 97  | 92  |    |
| 78   | 87  | 91  | 94  | 97  | 100 | 104 | 107 | 109 | 111 | 113 | 114 | 115 | 115 | 114 | 113 | 111 | 109 | 107 | 108 | 106 | 103 | 99  | 96  | 93  | 91  | 89  | 87  | 85  | 84  | 84  | 84  | 85  | 85  | 85  | 87  | 89  | 92  | 87 |
| 78.5 | 82  | 86  | 89  | 92  | 95  | 98  | 102 | 104 | 106 | 108 | 109 | 110 | 110 | 109 | 108 | 106 | 104 | 101 | 103 | 100 | 97  | 94  | 91  | 88  | 86  | 83  | 81  | 80  | 79  | 79  | 79  | 79  | 80  | 82  | 84  | 87  | 82  |    |
| 79   | 77  | 81  | 84  | 87  | 90  | 93  | 97  | 99  | 101 | 103 | 104 | 105 | 105 | 104 | 103 | 101 | 99  | 96  | 98  | 95  | 92  | 89  | 86  | 83  | 81  | 78  | 77  | 75  | 74  | 74  | 74  | 74  | 74  | 75  | 77  | 79  | 82  | 77 |
| 79.5 | 72  | 76  | 79  | 82  | 85  | 88  | 92  | 94  | 96  | 98  | 99  | 100 | 100 | 99  | 98  | 96  | 94  | 91  | 93  | 91  | 88  | 84  | 81  | 79  | 76  | 74  | 72  | 70  | 70  | 70  | 69  | 70  | 71  | 72  | 74  | 77  | 72  |    |
| 80   | 68  | 72  | 74  | 77  | 80  | 84  | 87  | 89  | 91  | 93  | 94  | 95  | 95  | 94  | 93  | 91  | 89  | 86  | 88  | 86  | 83  | 79  | 76  | 74  | 71  | 69  | 67  | 65  | 64  | 64  | 64  | 65  | 66  | 67  | 69  | 72  | 68  |    |
| 80.5 | 64  | 67  | 70  | 72  | 76  | 79  | 82  | 84  | 86  | 88  | 89  | 90  | 90  | 89  | 88  | 86  | 84  | 81  | 83  | 81  | 78  | 75  | 72  | 69  | 67  | 64  | 62  | 61  | 60  | 60  | 60  | 60  | 61  | 63  | 65  | 67  | 64  |    |
| 81   | 59  | 63  | 65  | 68  | 71  | 74  | 77  | 79  | 81  | 83  | 84  | 85  | 85  | 84  | 83  | 81  | 79  | 77  | 79  | 76  | 73  | 70  | 67  | 64  | 62  | 60  | 58  | 56  | 55  | 55  | 55  | 56  | 57  | 58  | 60  | 62  | 59  |    |
| 81.5 | 55  | 58  | 61  | 64  | 67  | 69  | 72  | 74  | 76  | 78  | 79  | 80  | 80  | 79  | 78  | 76  | 74  | 71  | 74  | 71  | 68  | 65  | 62  | 59  | 57  | 55  | 53  | 52  | 51  | 50  | 50  | 51  | 52  | 53  | 55  | 58  | 55  |    |
| 82   | 50  | 53  | 56  | 59  | 62  | 65  | 67  | 70  | 72  | 73  | 74  | 75  | 75  | 74  | 73  | 72  | 70  | 67  | 69  | 66  | 64  | 61  | 58  | 55  | 53  | 51  | 49  | 47  | 46  | 46  | 46  | 47  | 47  | 49  | 51  | 53  | 50  |    |
| 82.5 | 46  | 49  | 52  | 55  | 58  | 60  | 63  | 65  | 67  | 69  | 70  | 71  | 70  | 70  | 69  | 67  | 65  | 63  | 64  | 62  | 59  | 56  | 53  | 50  | 48  | 46  | 44  | 43  | 42  | 42  | 41  | 42  | 43  | 44  | 46  | 49  | 46  |    |
| 83   | 41  | 44  | 47  | 50  | 53  | 56  | 59  | 61  | 63  | 64  | 65  | 66  | 66  | 65  | 64  | 63  | 61  | 58  | 60  | 57  | 54  | 51  | 49  | 46  | 44  | 41  | 40  | 38  | 37  | 37  | 37  | 38  | 39  | 40  | 42  | 44  | 41  |    |
| 83.5 | 37  | 40  | 43  | 45  | 48  | 51  | 54  | 56  | 58  | 60  | 61  | 62  | 61  | 61  | 60  | 58  | 56  | 54  | 55  | 53  | 50  | 47  | 44  | 42  | 39  | 37  | 36  | 34  | 33  | 33  | 33  | 33  | 34  | 36  | 37  | 40  | 37  |    |
| 84   | 33  | 35  | 38  | 41  | 44  | 47  | 50  | 52  | 54  | 55  | 56  | 57  | 57  | 56  | 55  | 54  | 52  | 49  | 51  | 48  | 45  | 42  | 40  | 37  | 35  | 33  | 31  | 30  | 29  | 28  | 28  | 29  | 30  | 31  | 33  | 35  | 33  |    |
| 84.5 | 28  | 31  | 34  | 37  | 40  | 42  | 45  | 47  | 49  | 51  | 52  | 52  | 52  | 50  | 49  | 47  | 45  | 46  | 44  | 41  | 38  | 35  | 33  | 31  | 29  | 27  | 26  | 25  | 24  | 24  | 24  | 25  | 26  | 27  | 29  | 31  | 28  |    |
| 85   | 24  | 27  | 30  | 32  | 35  | 38  | 41  | 43  | 45  | 46  | 47  | 48  | 48  | 47  | 46  | 44  | 43  | 40  | 42  | 39  | 36  | 34  | 31  | 29  | 26  | 25  | 23  | 22  | 21  | 20  | 20  | 21  | 22  | 23  | 25  | 27  | 24  |    |
| 85.5 | 20  | 23  | 25  | 28  | 31  | 34  | 36  | 38  | 40  | 42  | 43  | 43  | 43  | 42  | 41  | 40  | 38  | 36  | 37  | 35  | 32  | 29  | 27  | 25  | 22  | 21  | 19  | 18  | 17  | 16  | 17  | 18  | 19  | 21  | 23  | 20  |     |    |
| 86   | 16  | 19  | 21  | 24  | 27  | 29  | 32  | 34  | 36  | 37  | 38  | 39  | 39  | 38  | 37  | 36  | 34  | 32  | 33  | 31  | 28  | 26  | 23  | 21  | 19  | 17  | 15  | 14  | 13  | 12  | 12  | 13  | 14  | 15  | 17  | 19  | 16  |    |
| 86.5 | 12  | 15  | 17  | 20  | 22  | 25  | 27  | 30  | 31  | 33  | 34  | 34  | 34  | 34  | 33  | 31  | 29  | 27  | 29  | 26  | 24  | 22  | 19  | 17  | 15  | 13  | 11  | 10  | 9   | 8   | 8   | 9   | 10  | 11  | 13  | 15  | 12  |    |
| 87   | 8   | 11  | 13  | 16  | 18  | 21  | 23  | 25  | 27  | 29  | 30  | 30  | 30  | 29  | 28  | 27  | 25  | 23  | 25  | 23  | 20  | 18  | 15  | 13  | 11  | 9   | 7   | 6   | 5   | 5   | 5   | 5   | 6   | 7   | 9   | 11  | 8   |    |
| 87.5 | 7   | 7   | 9   | 12  | 14  | 17  | 19  | 21  | 23  | 24  | 25  | 26  | 26  | 25  | 24  | 23  | 21  | 19  | 21  | 19  | 16  | 14  | 11  | 9   | 7   | 5   | 4   | 3   | 2   | 2   | 2   | 2   | 3   | 4   | 5   | 7   | 7   |    |
| 88   | 5   | 5   | 6   | 8   | 11  | 13  | 15  | 17  | 19  | 20  | 21  | 22  | 22  | 21  | 20  | 19  | 17  | 15  | 17  | 15  | 12  | 10  | 7   | 5   | 4   | 2   | 1   | 1   | 0   | 0   | 0   | 0   | 1   | 1   | 2   | 4   | 5   |    |
| 88.5 | 3   | 4   | 4   | 6   | 7   | 9   | 11  | 13  | 15  | 16  | 17  | 18  | 18  | 17  | 16  | 15  | 13  | 11  | 13  | 11  | 8   | 6   | 4   | 2   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 3   |    |
| 89   | 2   | 2   | 3   | 4   | 5   | 6   | 8   | 9   | 11  | 12  | 13  | 14  | 14  | 13  | 12  | 11  | 9   | 8   | 9   | 7   | 5   | 3   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   |    |
| 89.5 | 0   | 0   | 2   | 2   | 4   | 2   | 6   | 6   | 7   | 9   | 9   | 10  | 10  | 9   | 8   | 7   | 6   | 6   | 6   | 4   | 2   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 90   | 0   | 0   | 0   | 0   | 2   | 0   | 4   | 5   | 6   | 7   | 6   | 5   | 5   | 2   | 4   | 3   | 2   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 90.5 | 0   | 0   | 0   | 0   | 0   | 0   | 2   | 3   | 4   | 6   | 5   | 5   | 2   | 4   | 3   | 2   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 91   | 0   | 0   | 0   | 0   | 0   | 0   | 2   | 2   | 2   | 4   | 3   | 3   | 0   | 2   | 2   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 91.5 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   | 2   | 2   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 92   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 92.5 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 93   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 93.5 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 94   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 94.5 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 95   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 95.5 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 96   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| 96.5 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     |     |     |     |     |     |     |    |

[illegible]

[illegible]

**Luminaire Report Summary**

RIESNA:LM-63-1995  
[TEST] s25060019b-01  
[TESTLAB] LEADING TESTING LABORATORIES  
[TESTDATE]  
[ISSUEDATE] 2025-06-24 14:24:50  
[NEARFIELD]  
[LAMPPOSITION] 0,0  
[MANUFAC] Royal Pacific Ltd  
[LAMPCAT] 4352XX-15-5CCT  
[LAMP] 120V 60Hz  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 361, HORIZONTAL ANGLES: 37  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.