

# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

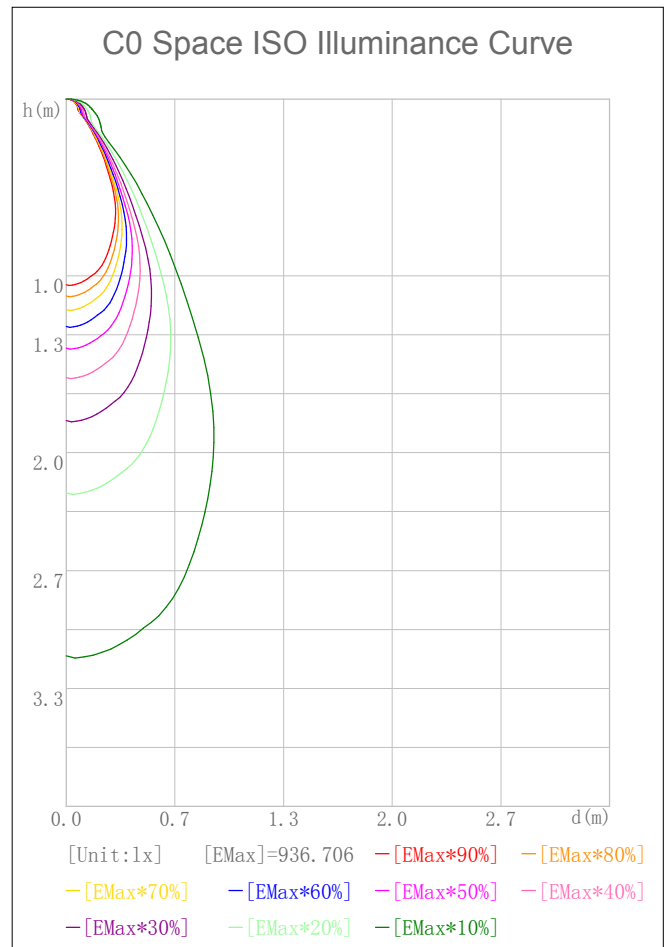
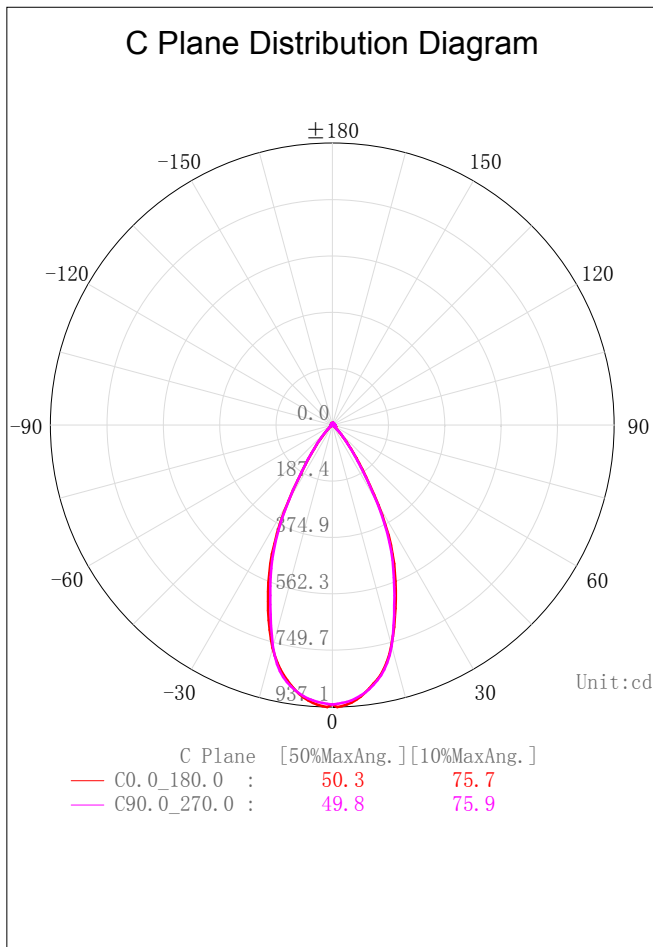
## Indoor Luminaire Photometric Data

### Description Information

|   |                                 |                          |
|---|---------------------------------|--------------------------|
| Luminaire Name: AW12540                 | Lum. Catalog: Down Light        | Test ID:                 |
| Lamp Name: 1202C9                       | Lamp Catalog: COB               | Test Date: 2023/07/16    |
| Manufacture:                            | Shld. Ang(°): 60                | Test Machine:GON-2000    |
| Test Lab: Test                          | Frequency(Hz): 50               | Lamp CCT(K): 3000 Ra: 90 |
| Lum. Size (W*L*H): 0.066m*0.066m*0.000m | Lum. Area (m2): 0.003           | Lum. W (kg): 0.000       |
| Test System: C, $\gamma$                | Test Step: C=22.5 $\gamma$ =1.0 | Temp. (°C): 25           |
|   |                                 | Humidity (%): 50.0       |

### Character Parameter

| Lamp Speciality Parameter                       |                                       | Luminaire Speciality Parameter        |  |
|---|---------------------------------------|---------------------------------------|--|
| Rated Flux(lm): 671.000                         | Luminaire Flux(lm): 671.459           | Field Angle(10%Imax): 75.7(°)         |  |
| Rated Power(W): 10                              | Luminaire Efficiency: 100.07%         | Down Lumens&Percent: 643.877lm 95.89% |  |
| Rated Voltage(V): 220                           | Luminaire EER(lm/W): 63.888           | Up Lumens&Percent: 27.582lm 4.11%     |  |
| Tested Power(W): 10.510                         | Max. Candela(cd): 937.134             | S/MH: C0_a180=0.788 C90_270=0.771     |  |
| Lamps' Inside: 1                                | Max Cand@Ang.(°): C=0.0 $\gamma$ =1.0 | CIE Type: Semi-Direct                 |  |
| Tested Electrics(V, A, pf): 220.6, 0.086, 0.549 | Beam Angle(50%Imax): 50.3(°)          | ErP $\Phi$ use(90°): 614.915lm        |  |
| Lamp Size(W*L*H): 0.066m*0.066m*0.000m          | Left=-25.1°, Right=25.2°              | IRF (%): 315.188                      |  |



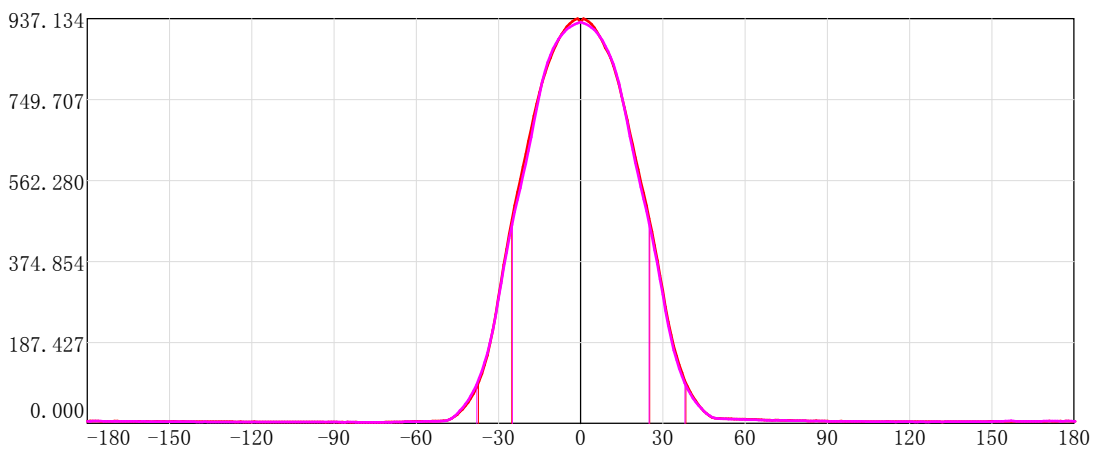
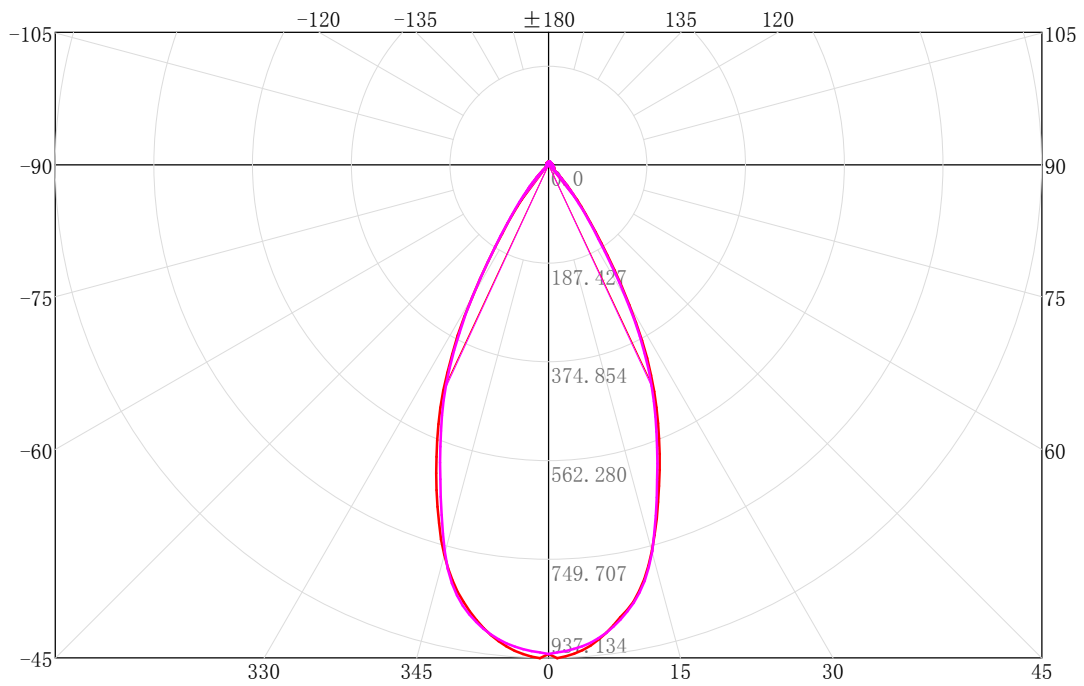
# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## 2D Plane Light Intensity Distribution Curve

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

C Plane Distribution Diagram



|   |               |               |               |         |
|---|---------------|---------------|---------------|---------|
|   | C Plane       | [50%MaxAng. ] | [10%MaxAng. ] | Unit:cd |
| — | C0.0_180.0 :  | 50.3          | 75.7          |         |
| — | C90.0_270.0 : | 49.8          | 75.9          |         |

**IES Indoor Report**

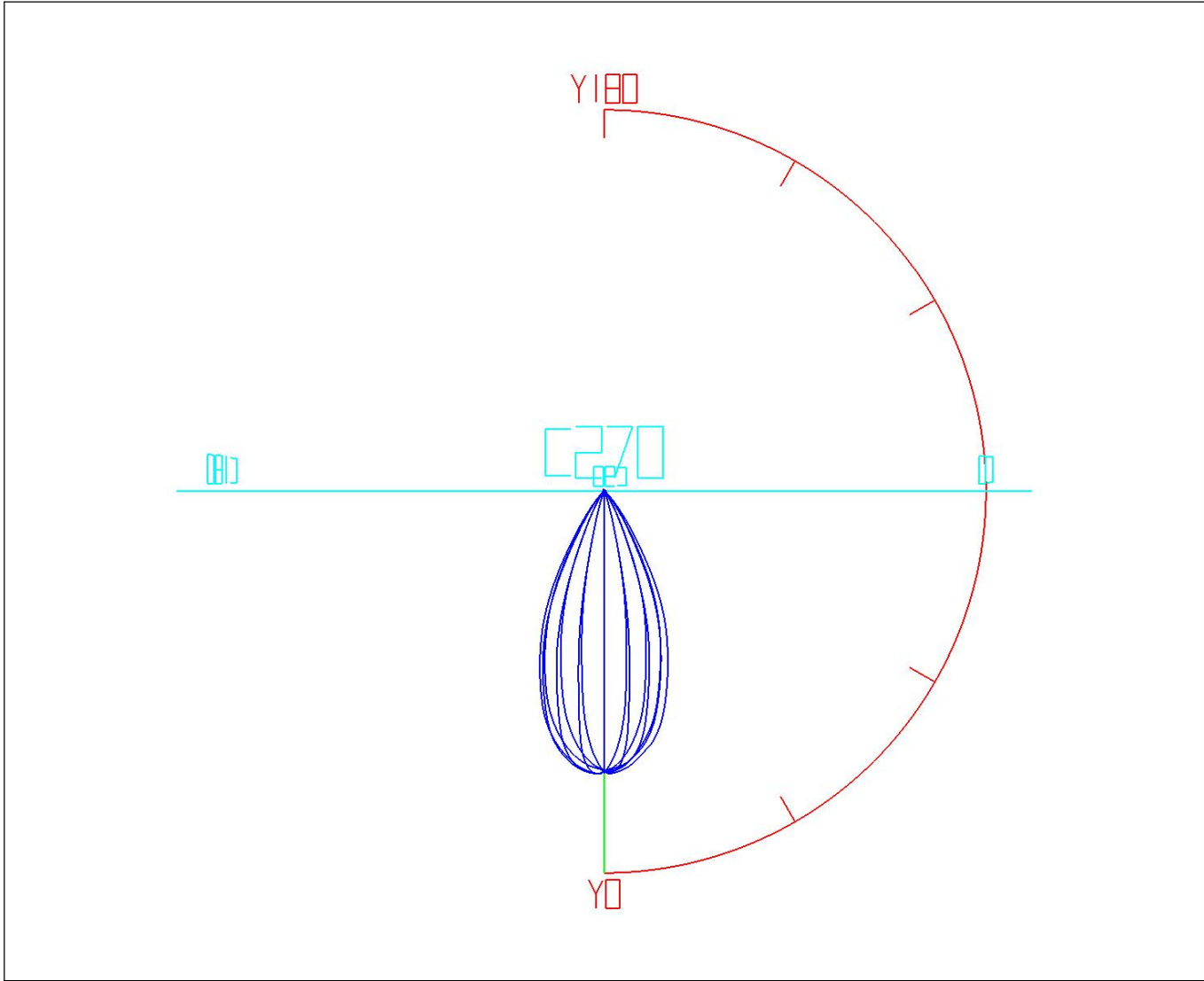
**Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES**

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**3D Light Intensity Distribution Modal**

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

**3D Light Intensity Distribution Modal**



Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———  
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Zonal Flux Tabulation

| Zone (γ)  | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone (γ)  | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-----------|----------------|----------------|-----------|-----------|-----------|----------------|----------------|-----------|-----------|
| 0.0-1.0   | 0.89           | 0.89           | 0.13      | 0.13      | 47.0-48.0 | 1.07           | 618.36         | 0.16      | 92.16     |
| 1.0-2.0   | 2.66           | 3.55           | 0.40      | 0.53      | 48.0-49.0 | 0.88           | 619.24         | 0.13      | 92.29     |
| 2.0-3.0   | 4.42           | 7.97           | 0.66      | 1.19      | 49.0-50.0 | 0.79           | 620.03         | 0.12      | 92.40     |
| 3.0-4.0   | 6.16           | 14.13          | 0.92      | 2.11      | 50.0-51.0 | 0.75           | 620.78         | 0.11      | 92.52     |
| 4.0-5.0   | 7.87           | 22.00          | 1.17      | 3.28      | 51.0-52.0 | 0.74           | 621.52         | 0.11      | 92.63     |
| 5.0-6.0   | 9.54           | 31.53          | 1.42      | 4.70      | 52.0-53.0 | 0.73           | 622.24         | 0.11      | 92.73     |
| 6.0-7.0   | 11.16          | 42.69          | 1.66      | 6.36      | 53.0-54.0 | 0.72           | 622.96         | 0.11      | 92.84     |
| 7.0-8.0   | 12.73          | 55.42          | 1.90      | 8.26      | 54.0-55.0 | 0.71           | 623.66         | 0.11      | 92.95     |
| 8.0-9.0   | 14.23          | 69.65          | 2.12      | 10.38     | 55.0-56.0 | 0.70           | 624.36         | 0.10      | 93.05     |
| 9.0-10.0  | 15.66          | 85.31          | 2.33      | 12.71     | 56.0-57.0 | 0.69           | 625.05         | 0.10      | 93.15     |
| 10.0-11.0 | 17.01          | 102.32         | 2.53      | 15.25     | 57.0-58.0 | 0.69           | 625.74         | 0.10      | 93.26     |
| 11.0-12.0 | 18.25          | 120.57         | 2.72      | 17.97     | 58.0-59.0 | 0.68           | 626.43         | 0.10      | 93.36     |
| 12.0-13.0 | 19.38          | 139.94         | 2.89      | 20.86     | 59.0-60.0 | 0.68           | 627.10         | 0.10      | 93.46     |
| 13.0-14.0 | 20.35          | 160.29         | 3.03      | 23.89     | 60.0-61.0 | 0.67           | 627.78         | 0.10      | 93.56     |
| 14.0-15.0 | 21.14          | 181.43         | 3.15      | 27.04     | 61.0-62.0 | 0.67           | 628.45         | 0.10      | 93.66     |
| 15.0-16.0 | 21.74          | 203.17         | 3.24      | 30.28     | 62.0-63.0 | 0.66           | 629.11         | 0.10      | 93.76     |
| 16.0-17.0 | 22.18          | 225.35         | 3.31      | 33.58     | 63.0-64.0 | 0.65           | 629.76         | 0.10      | 93.85     |
| 17.0-18.0 | 22.50          | 247.85         | 3.35      | 36.94     | 64.0-65.0 | 0.63           | 630.39         | 0.09      | 93.95     |
| 18.0-19.0 | 22.71          | 270.56         | 3.39      | 40.32     | 65.0-66.0 | 0.62           | 631.01         | 0.09      | 94.04     |
| 19.0-20.0 | 22.84          | 293.40         | 3.40      | 43.73     | 66.0-67.0 | 0.60           | 631.62         | 0.09      | 94.13     |
| 20.0-21.0 | 22.88          | 316.28         | 3.41      | 47.14     | 67.0-68.0 | 0.59           | 632.20         | 0.09      | 94.22     |
| 21.0-22.0 | 22.81          | 339.09         | 3.40      | 50.54     | 68.0-69.0 | 0.57           | 632.78         | 0.09      | 94.30     |
| 22.0-23.0 | 22.64          | 361.74         | 3.37      | 53.91     | 69.0-70.0 | 0.57           | 633.34         | 0.08      | 94.39     |
| 23.0-24.0 | 22.35          | 384.09         | 3.33      | 57.24     | 70.0-71.0 | 0.56           | 633.91         | 0.08      | 94.47     |
| 24.0-25.0 | 21.91          | 406.00         | 3.27      | 60.51     | 71.0-72.0 | 0.56           | 634.47         | 0.08      | 94.56     |
| 25.0-26.0 | 21.30          | 427.30         | 3.17      | 63.68     | 72.0-73.0 | 0.55           | 635.02         | 0.08      | 94.64     |
| 26.0-27.0 | 20.49          | 447.79         | 3.05      | 66.74     | 73.0-74.0 | 0.55           | 635.57         | 0.08      | 94.72     |
| 27.0-28.0 | 19.49          | 467.29         | 2.91      | 69.64     | 74.0-75.0 | 0.55           | 636.12         | 0.08      | 94.80     |
| 28.0-29.0 | 18.30          | 485.58         | 2.73      | 72.37     | 75.0-76.0 | 0.54           | 636.66         | 0.08      | 94.88     |
| 29.0-30.0 | 16.92          | 502.50         | 2.52      | 74.89     | 76.0-77.0 | 0.54           | 637.20         | 0.08      | 94.96     |
| 30.0-31.0 | 15.38          | 517.88         | 2.29      | 77.18     | 77.0-78.0 | 0.53           | 637.73         | 0.08      | 95.04     |
| 31.0-32.0 | 13.79          | 531.67         | 2.06      | 79.24     | 78.0-79.0 | 0.53           | 638.26         | 0.08      | 95.12     |
| 32.0-33.0 | 12.28          | 543.96         | 1.83      | 81.07     | 79.0-80.0 | 0.53           | 638.79         | 0.08      | 95.20     |
| 33.0-34.0 | 10.91          | 554.87         | 1.63      | 82.69     | 80.0-81.0 | 0.52           | 639.31         | 0.08      | 95.28     |
| 34.0-35.0 | 9.68           | 564.54         | 1.44      | 84.13     | 81.0-82.0 | 0.52           | 639.83         | 0.08      | 95.36     |
| 35.0-36.0 | 8.58           | 573.12         | 1.28      | 85.41     | 82.0-83.0 | 0.52           | 640.35         | 0.08      | 95.43     |
| 36.0-37.0 | 7.57           | 580.69         | 1.13      | 86.54     | 83.0-84.0 | 0.51           | 640.86         | 0.08      | 95.51     |
| 37.0-38.0 | 6.62           | 587.31         | 0.99      | 87.53     | 84.0-85.0 | 0.51           | 641.37         | 0.08      | 95.58     |
| 38.0-39.0 | 5.76           | 593.07         | 0.86      | 88.39     | 85.0-86.0 | 0.51           | 641.87         | 0.08      | 95.66     |
| 39.0-40.0 | 4.99           | 598.06         | 0.74      | 89.13     | 86.0-87.0 | 0.51           | 642.38         | 0.08      | 95.73     |
| 40.0-41.0 | 4.32           | 602.37         | 0.64      | 89.77     | 87.0-88.0 | 0.50           | 642.88         | 0.07      | 95.81     |
| 41.0-42.0 | 3.71           | 606.09         | 0.55      | 90.33     | 88.0-89.0 | 0.50           | 643.38         | 0.07      | 95.88     |
| 42.0-43.0 | 3.17           | 609.26         | 0.47      | 90.80     | 89.0-90.0 | 0.50           | 643.88         | 0.07      | 95.96     |
| 43.0-44.0 | 2.68           | 611.94         | 0.40      | 91.20     | 90.0-91.0 | 0.49           | 644.37         | 0.07      | 96.03     |
| 44.0-45.0 | 2.21           | 614.14         | 0.33      | 91.53     | 91.0-92.0 | 0.49           | 644.85         | 0.07      | 96.10     |
| 45.0-46.0 | 1.77           | 615.91         | 0.26      | 91.79     | 92.0-93.0 | 0.48           | 645.34         | 0.07      | 96.18     |
| 46.0-47.0 | 1.38           | 617.29         | 0.21      | 92.00     | 93.0-94.0 | 0.48           | 645.82         | 0.07      | 96.25     |

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## Zonal Flux Tabulation - (Cont.)

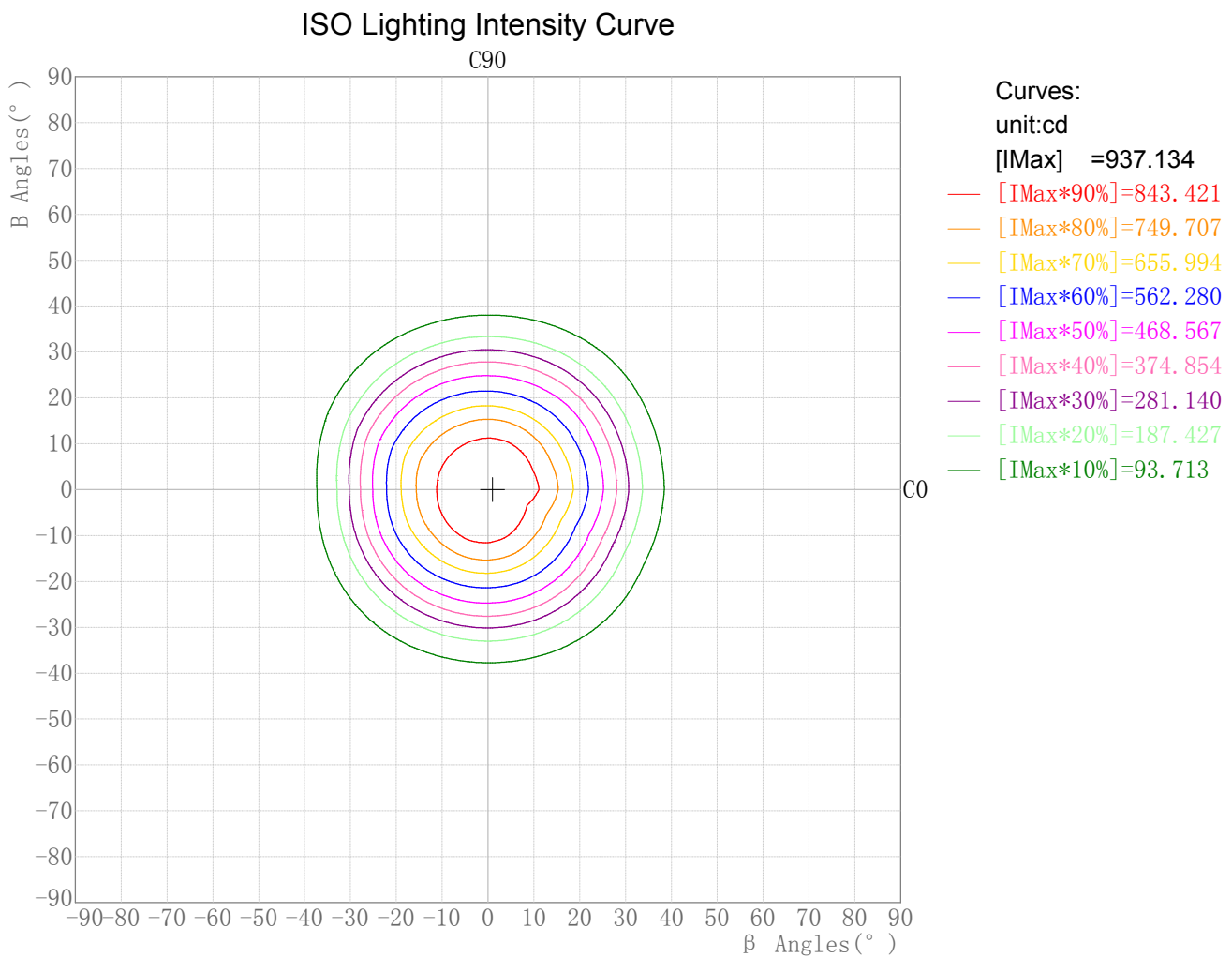
| Zone (γ)    | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone (γ)    | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-------------|----------------|----------------|-----------|-----------|-------------|----------------|----------------|-----------|-----------|
| 94.0-95.0   | 0.48           | 646.30         | 0.07      | 96.32     | 141.0-142.0 | 0.30           | 664.90         | 0.05      | 99.09     |
| 95.0-96.0   | 0.48           | 646.78         | 0.07      | 96.39     | 142.0-143.0 | 0.30           | 665.20         | 0.04      | 99.14     |
| 96.0-97.0   | 0.48           | 647.26         | 0.07      | 96.46     | 143.0-144.0 | 0.29           | 665.49         | 0.04      | 99.18     |
| 97.0-98.0   | 0.48           | 647.74         | 0.07      | 96.53     | 144.0-145.0 | 0.29           | 665.78         | 0.04      | 99.22     |
| 98.0-99.0   | 0.48           | 648.22         | 0.07      | 96.60     | 145.0-146.0 | 0.28           | 666.06         | 0.04      | 99.26     |
| 99.0-100.0  | 0.47           | 648.69         | 0.07      | 96.67     | 146.0-147.0 | 0.28           | 666.34         | 0.04      | 99.31     |
| 100.0-101.0 | 0.47           | 649.15         | 0.07      | 96.74     | 147.0-148.0 | 0.28           | 666.62         | 0.04      | 99.35     |
| 101.0-102.0 | 0.46           | 649.62         | 0.07      | 96.81     | 148.0-149.0 | 0.27           | 666.89         | 0.04      | 99.39     |
| 102.0-103.0 | 0.46           | 650.08         | 0.07      | 96.88     | 149.0-150.0 | 0.26           | 667.15         | 0.04      | 99.43     |
| 103.0-104.0 | 0.46           | 650.53         | 0.07      | 96.95     | 150.0-151.0 | 0.26           | 667.41         | 0.04      | 99.47     |
| 104.0-105.0 | 0.45           | 650.99         | 0.07      | 97.02     | 151.0-152.0 | 0.25           | 667.66         | 0.04      | 99.50     |
| 105.0-106.0 | 0.45           | 651.43         | 0.07      | 97.08     | 152.0-153.0 | 0.24           | 667.91         | 0.04      | 99.54     |
| 106.0-107.0 | 0.44           | 651.88         | 0.07      | 97.15     | 153.0-154.0 | 0.24           | 668.15         | 0.04      | 99.57     |
| 107.0-108.0 | 0.44           | 652.31         | 0.07      | 97.22     | 154.0-155.0 | 0.24           | 668.38         | 0.04      | 99.61     |
| 108.0-109.0 | 0.43           | 652.75         | 0.06      | 97.28     | 155.0-156.0 | 0.23           | 668.61         | 0.03      | 99.64     |
| 109.0-110.0 | 0.43           | 653.18         | 0.06      | 97.34     | 156.0-157.0 | 0.22           | 668.83         | 0.03      | 99.68     |
| 110.0-111.0 | 0.43           | 653.61         | 0.06      | 97.41     | 157.0-158.0 | 0.21           | 669.05         | 0.03      | 99.71     |
| 111.0-112.0 | 0.43           | 654.04         | 0.06      | 97.47     | 158.0-159.0 | 0.21           | 669.25         | 0.03      | 99.74     |
| 112.0-113.0 | 0.42           | 654.47         | 0.06      | 97.54     | 159.0-160.0 | 0.20           | 669.45         | 0.03      | 99.77     |
| 113.0-114.0 | 0.42           | 654.88         | 0.06      | 97.60     | 160.0-161.0 | 0.19           | 669.64         | 0.03      | 99.80     |
| 114.0-115.0 | 0.41           | 655.30         | 0.06      | 97.66     | 161.0-162.0 | 0.18           | 669.82         | 0.03      | 99.82     |
| 115.0-116.0 | 0.41           | 655.71         | 0.06      | 97.72     | 162.0-163.0 | 0.17           | 669.99         | 0.03      | 99.85     |
| 116.0-117.0 | 0.41           | 656.12         | 0.06      | 97.78     | 163.0-164.0 | 0.16           | 670.15         | 0.02      | 99.87     |
| 117.0-118.0 | 0.40           | 656.52         | 0.06      | 97.84     | 164.0-165.0 | 0.15           | 670.31         | 0.02      | 99.90     |
| 118.0-119.0 | 0.40           | 656.92         | 0.06      | 97.90     | 165.0-166.0 | 0.15           | 670.45         | 0.02      | 99.92     |
| 119.0-120.0 | 0.40           | 657.31         | 0.06      | 97.96     | 166.0-167.0 | 0.14           | 670.59         | 0.02      | 99.94     |
| 120.0-121.0 | 0.39           | 657.71         | 0.06      | 98.02     | 167.0-168.0 | 0.13           | 670.71         | 0.02      | 99.96     |
| 121.0-122.0 | 0.38           | 658.09         | 0.06      | 98.08     | 168.0-169.0 | 0.12           | 670.83         | 0.02      | 99.97     |
| 122.0-123.0 | 0.38           | 658.47         | 0.06      | 98.13     | 169.0-170.0 | 0.11           | 670.94         | 0.02      | 99.99     |
| 123.0-124.0 | 0.37           | 658.84         | 0.06      | 98.19     | 170.0-171.0 | 0.10           | 671.03         | 0.01      | 100.01    |
| 124.0-125.0 | 0.37           | 659.21         | 0.06      | 98.24     | 171.0-172.0 | 0.09           | 671.12         | 0.01      | 100.02    |
| 125.0-126.0 | 0.37           | 659.58         | 0.05      | 98.30     | 172.0-173.0 | 0.08           | 671.20         | 0.01      | 100.03    |
| 126.0-127.0 | 0.36           | 659.94         | 0.05      | 98.35     | 173.0-174.0 | 0.07           | 671.27         | 0.01      | 100.04    |
| 127.0-128.0 | 0.36           | 660.29         | 0.05      | 98.40     | 174.0-175.0 | 0.06           | 671.33         | 0.01      | 100.05    |
| 128.0-129.0 | 0.36           | 660.65         | 0.05      | 98.46     | 175.0-176.0 | 0.05           | 671.37         | 0.01      | 100.06    |
| 129.0-130.0 | 0.35           | 661.00         | 0.05      | 98.51     | 176.0-177.0 | 0.04           | 671.41         | 0.01      | 100.06    |
| 130.0-131.0 | 0.35           | 661.35         | 0.05      | 98.56     | 177.0-178.0 | 0.03           | 671.44         | 0.00      | 100.07    |
| 131.0-132.0 | 0.34           | 661.69         | 0.05      | 98.61     | 178.0-179.0 | 0.02           | 671.45         | 0.00      | 100.07    |
| 132.0-133.0 | 0.33           | 662.03         | 0.05      | 98.66     | 179.0-180.0 | 0.01           | 671.46         | 0.00      | 100.07    |
| 133.0-134.0 | 0.33           | 662.36         | 0.05      | 98.71     |             |                |                |           |           |
| 134.0-135.0 | 0.33           | 662.69         | 0.05      | 98.76     |             |                |                |           |           |
| 135.0-136.0 | 0.33           | 663.02         | 0.05      | 98.81     |             |                |                |           |           |
| 136.0-137.0 | 0.32           | 663.34         | 0.05      | 98.86     |             |                |                |           |           |
| 137.0-138.0 | 0.32           | 663.66         | 0.05      | 98.91     |             |                |                |           |           |
| 138.0-139.0 | 0.32           | 663.98         | 0.05      | 98.95     |             |                |                |           |           |
| 139.0-140.0 | 0.31           | 664.29         | 0.05      | 99.00     |             |                |                |           |           |
| 140.0-141.0 | 0.31           | 664.60         | 0.05      | 99.05     |             |                |                |           |           |

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## Rectangle ISO Lighting Intensity Diagram

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |



Maximum Light Intensity(cd): 937.13

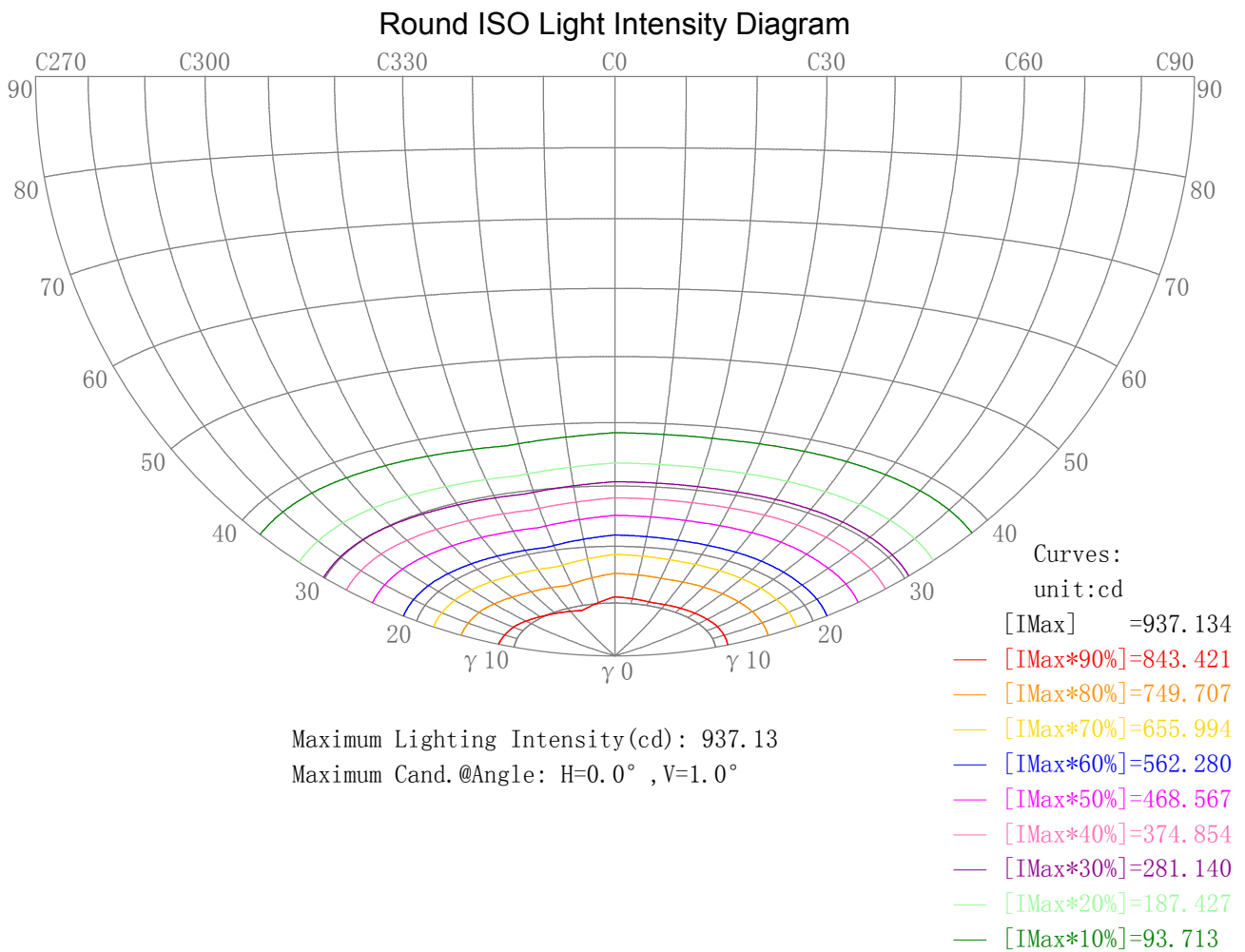
Maximum Cand.@Angle: H=1.0°,V=0.0°

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## Round ISO Lighting Intensity Diagram

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |



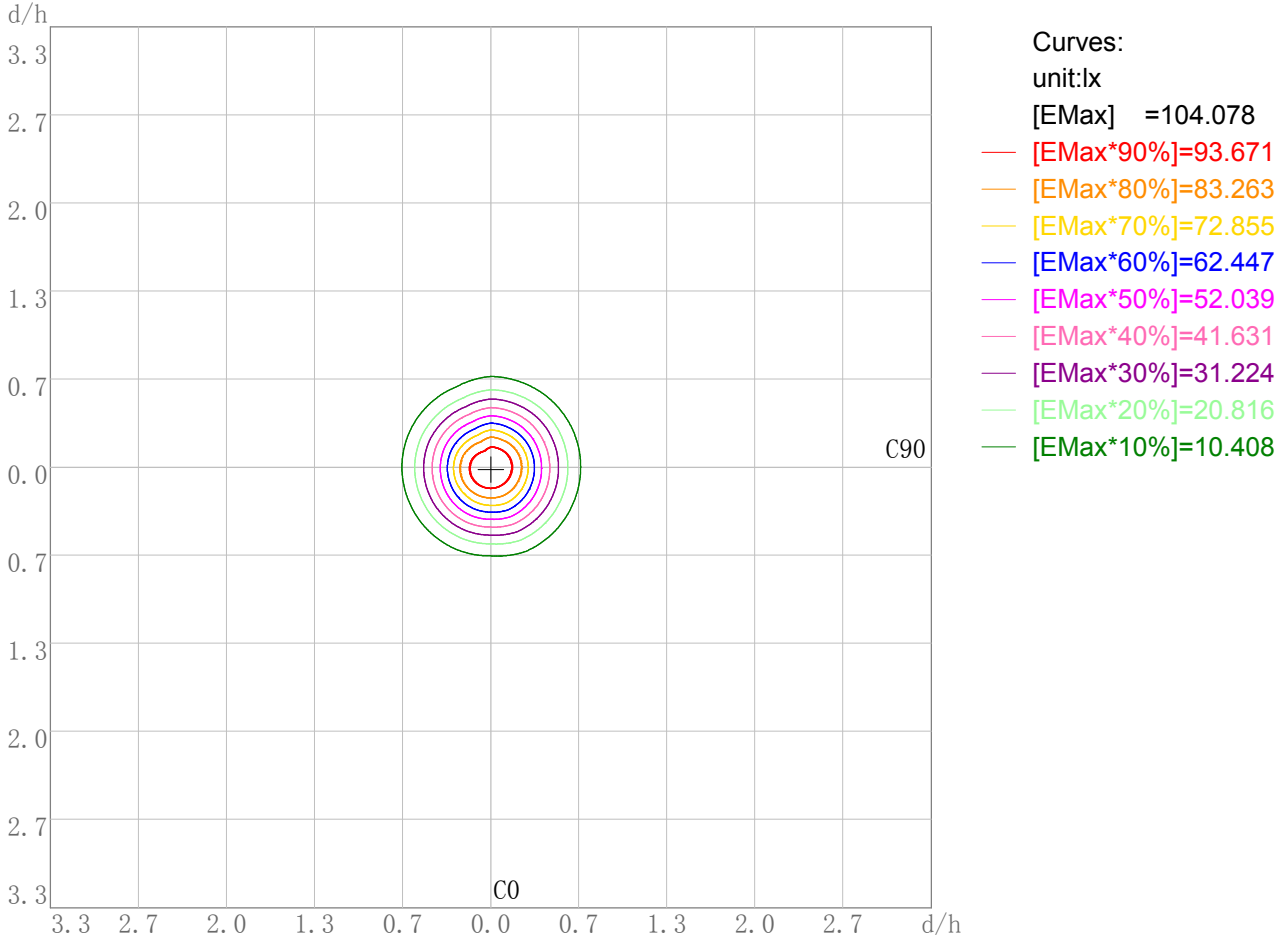
# IES Indoor Report

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## Plane ISO-Illuminance Diagram

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 104.08  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0



# IES Indoor Report

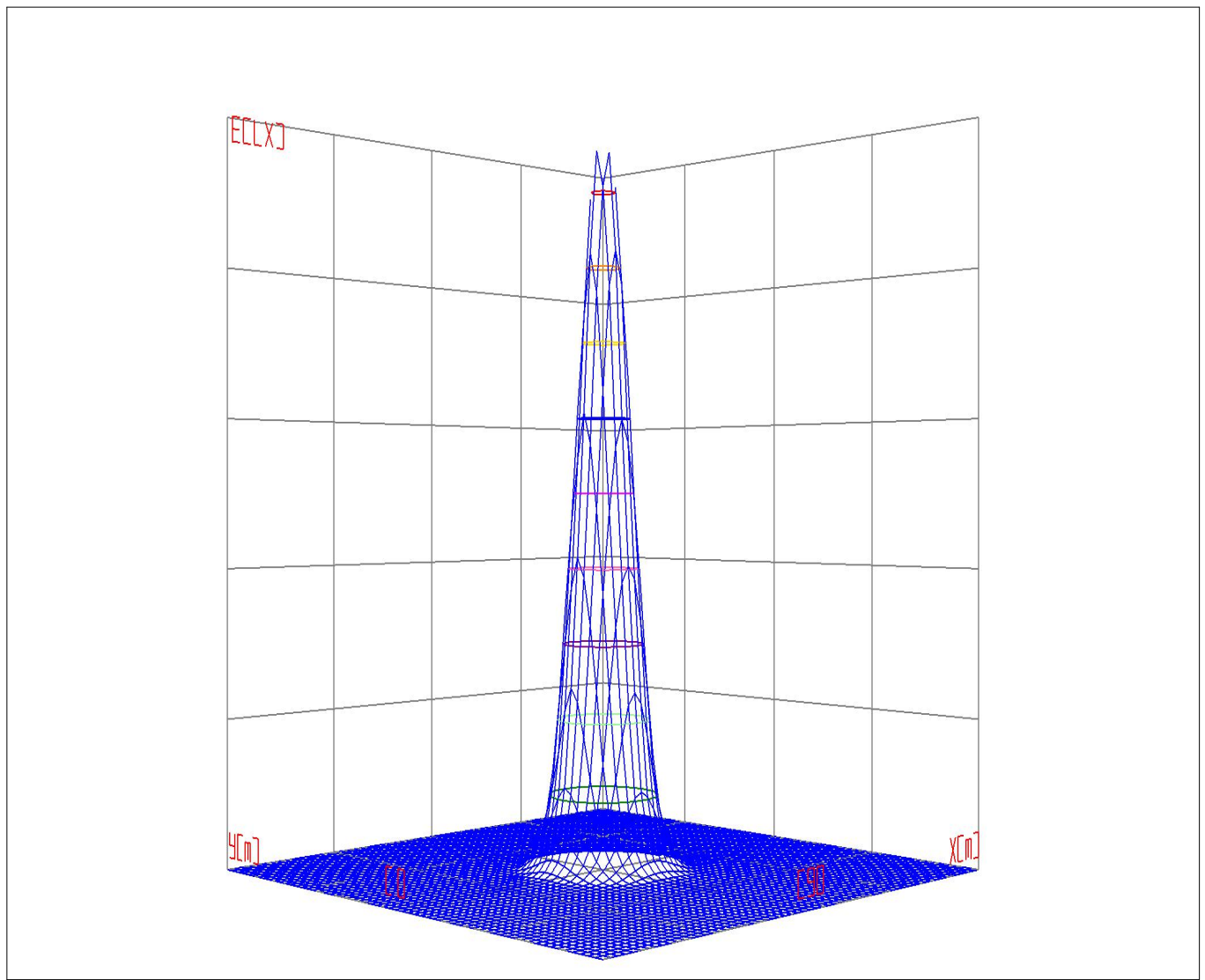
Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

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## 3D Plane ISO Illuminance Diagram

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine: GON-2000   | Test Date: 2023/07/16 |

### 3D Plane Illuminance Modal



Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0

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**IES Indoor Report**

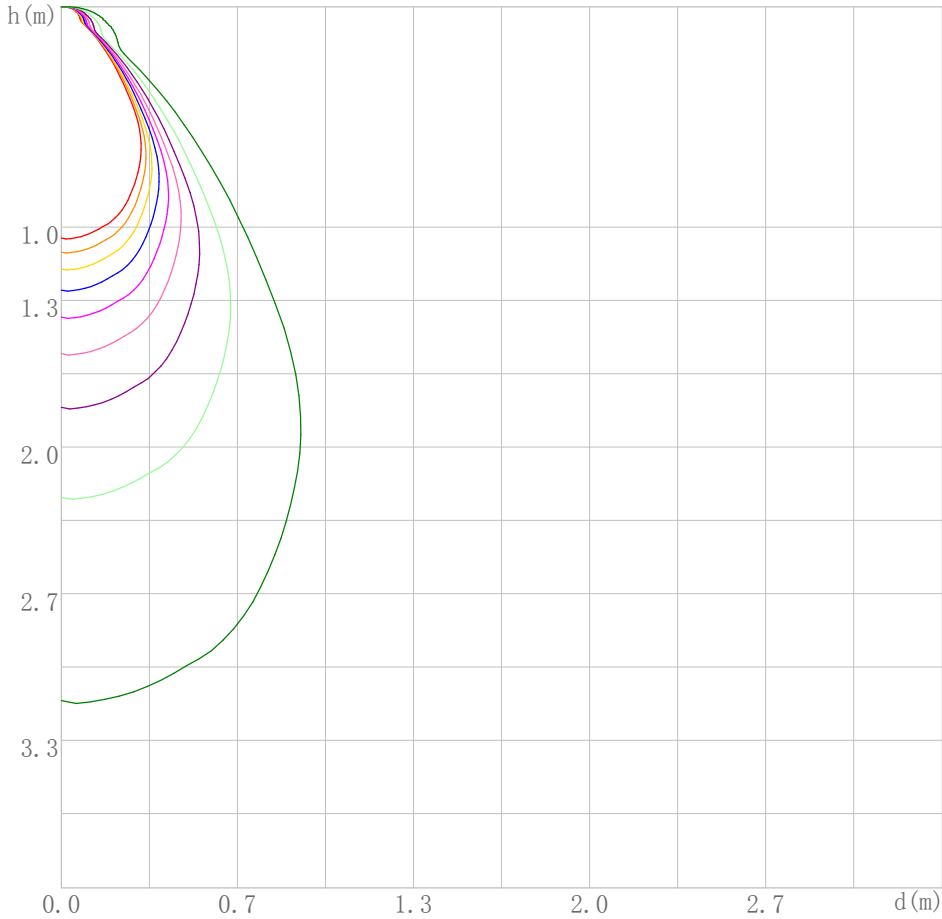
**Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES**

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**Space ISO Illuminance Diagram**

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

Space ISO Illuminance Curve



- Curves:  
[Unit: lx]  
[EMax] =936.706
- [EMax\*90%]=843.035
  - [EMax\*80%]=749.365
  - [EMax\*70%]=655.694
  - [EMax\*60%]=562.024
  - [EMax\*50%]=468.353
  - [EMax\*40%]=374.682
  - [EMax\*30%]=281.012
  - [EMax\*20%]=187.341
  - [EMax\*10%]=93.671

Space Plane Maximum Illuminance and @Angle:936.71lx,1.0deg  
Plane Maximum Lighting Intensity and @Angle:937.134cd,0deg

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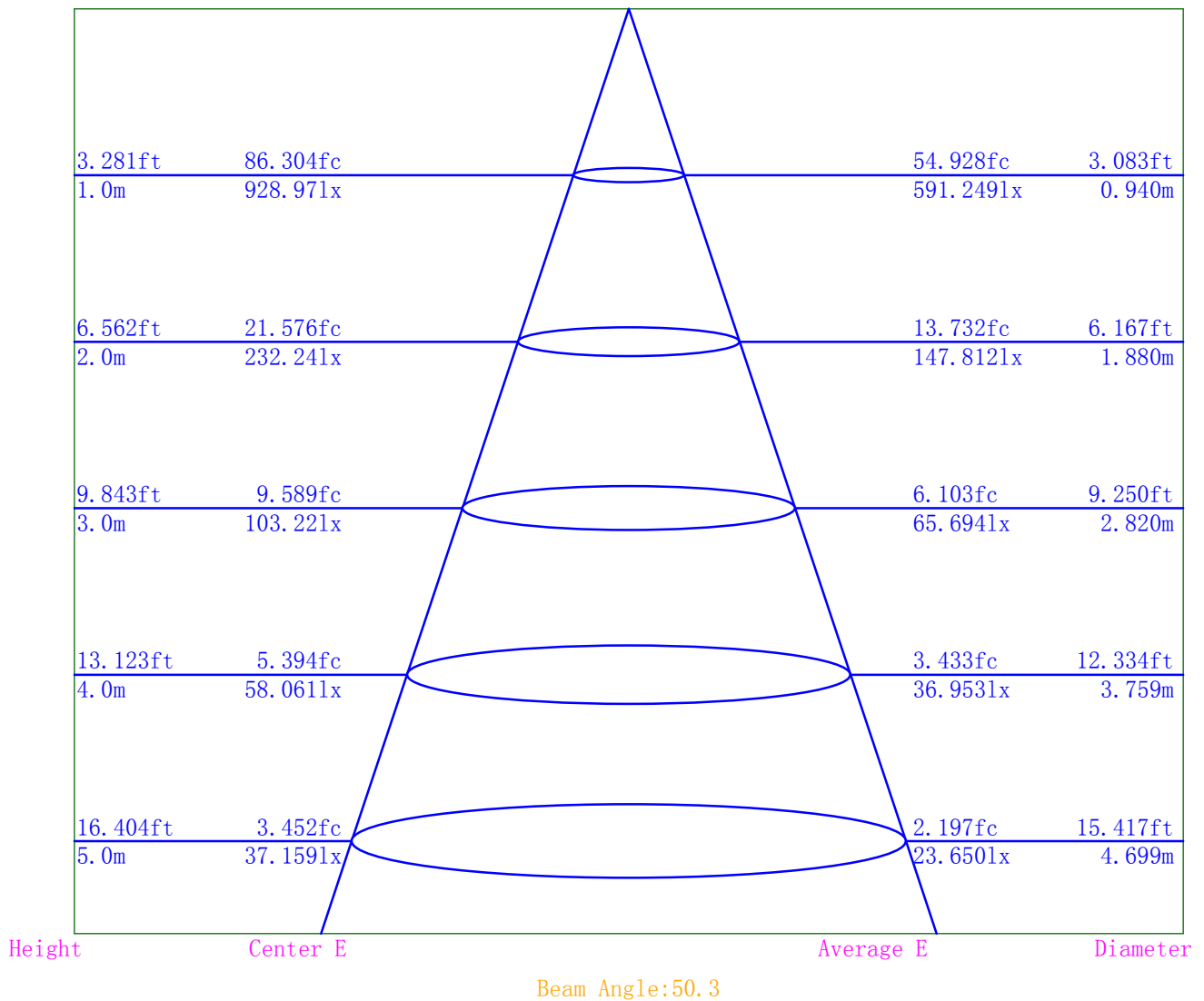
# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Illuminance-Distance Diagram

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

Illuminance-Distance Curve



# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Indoor Luminance Limiting Curves

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

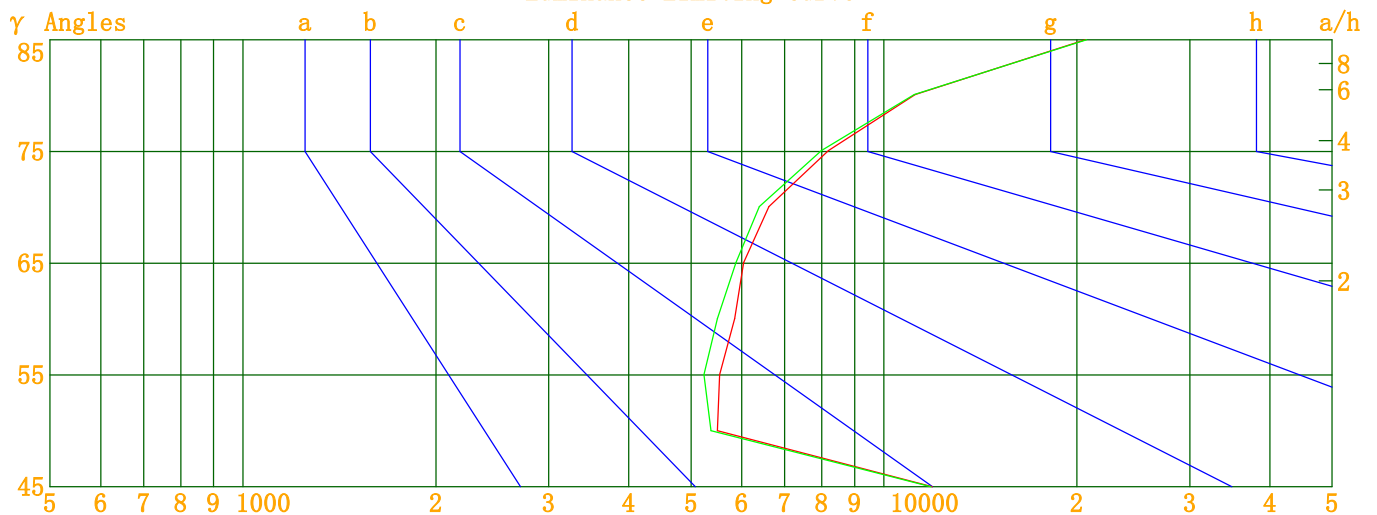
Glare Grade Table

| GI   | Quality | Using Illuminance |      |      |       |       |       |       |       |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
|      |         | a                 | b    | c    | d     | e     | f     | g     | h     |
| 1.15 | A       | 2000              | 1000 | 500  | <=300 |       |       |       |       |
| 1.5  | B       |                   | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85 | C       |                   |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.2  | D       |                   |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55 | E       | a                 |      |      |       | 2000  | 1000  | 500   | <=300 |
|      |         |                   | b    | c    | d     | e     | f     | g     | h     |

Luminance Table

| Gama (deg) | 45    | 50   | 55   | 60   | 65   | 70   | 75   | 80    | 85    |
|------------|-------|------|------|------|------|------|------|-------|-------|
| C0         | 11888 | 5495 | 5542 | 5852 | 6040 | 6617 | 8195 | 11192 | 20615 |
| C90        | 11832 | 5373 | 5237 | 5499 | 5877 | 6391 | 7989 | 11148 | 20702 |

Luminance Limiting Curve



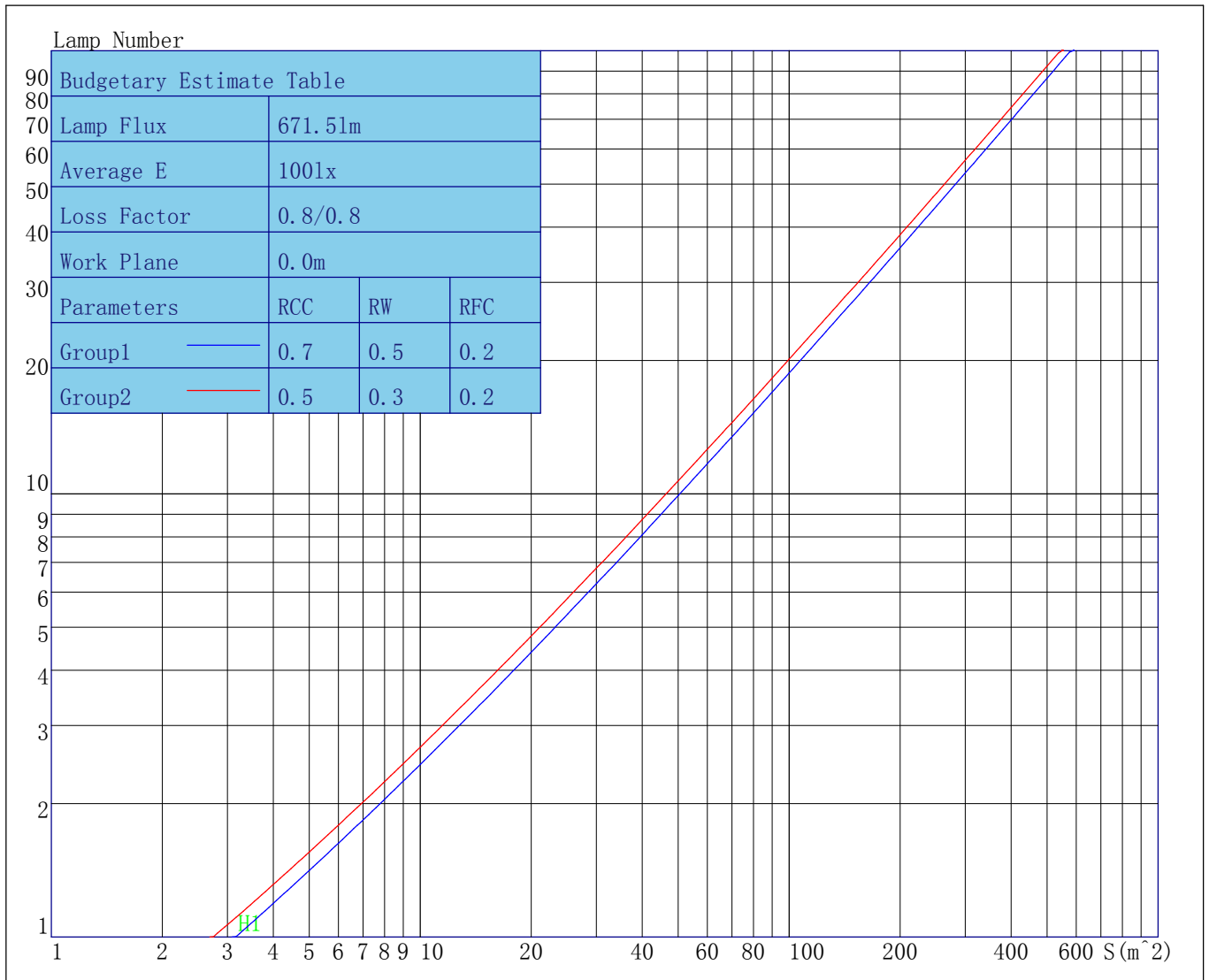
Luminous Size: Length(m)=-0.066 Width(m)=-0.066 Height(m)=0.000 Area(m<sup>2</sup>)=0.003421  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Indoor Budgetary Estimate Table

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8  
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8  
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Indoor Coefficient of Utilization Table

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

| Coefficients of Utilization - Zonal Cavity Method |   |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| Coef.   | Effective Floor Cavity Reflectance RFC=0.20 |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| RhoCC (%)   | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10 |    |    | 0  |
| RhoW (%)  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 0  |
| RCR   | Coefficient of Utilization(%)               |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| 0   | 118   | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1   | 112   | 109 | 107 | 104 | 109 | 107 | 105 | 102 | 102 | 100 | 99  | 98  | 96  | 95  | 94 | 92 | 91 | 89 |
| 2   | 107   | 102 | 98  | 94  | 104 | 100 | 96  | 93  | 96  | 93  | 90  | 92  | 90  | 88  | 89 | 87 | 85 | 83 |
| 3   | 102   | 95  | 90  | 86  | 99  | 93  | 89  | 85  | 90  | 87  | 83  | 87  | 84  | 82  | 85 | 82 | 80 | 78 |
| 4   | 97  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 76  | 80 | 77 | 75 | 73 |
| 5   | 92  | 84  | 78  | 74  | 90  | 83  | 77  | 73  | 81  | 76  | 72  | 78  | 75  | 71  | 76 | 73 | 70 | 69 |
| 6   | 88  | 79  | 73  | 69  | 86  | 78  | 73  | 69  | 76  | 71  | 68  | 74  | 70  | 67  | 73 | 69 | 66 | 65 |
| 7   | 84  | 75  | 69  | 65  | 82  | 74  | 68  | 65  | 72  | 67  | 64  | 71  | 67  | 63  | 69 | 66 | 63 | 61 |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 60  | 67  | 63  | 60  | 66 | 62 | 59 | 58 |
| 9   | 76  | 67  | 62  | 58  | 75  | 67  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 63 | 59 | 56 | 55 |
| 10  | 73  | 64  | 58  | 55  | 72  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 60 | 56 | 53 | 52 |

# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Unified Glare Rating Table

|                    |                          |                       |
|--------------------|--------------------------|-----------------------|
| Lum. Name: AW12540 | Lum. Catalog: Down Light | Test ID:              |
| Lamp Name: 1202C9  | Lamp Catalog: COB        | Test Lab: Test        |
| Manufacture:       | Test Machine:GON-2000    | Test Date: 2023/07/16 |

## Unified Glare Rating Table

|   |                 |      |      |      |      |               |      |      |      |      |      |
|---|-----------------|------|------|------|------|---------------|------|------|------|------|------|
| Ceiling RCC                                       | 0.70            | 0.70 | 0.50 | 0.50 | 0.30 | 0.70          | 0.70 | 0.50 | 0.50 | 0.30 |      |
| Wall RW   | 0.50            | 0.30 | 0.50 | 0.30 | 0.30 | 0.50          | 0.30 | 0.50 | 0.30 | 0.30 |      |
| Floor RFC   | 0.20            | 0.20 | 0.20 | 0.20 | 0.20 | 0.20          | 0.20 | 0.20 | 0.20 | 0.20 |      |
| Room Size   | Vewed crosswise |      |      |      |      | Vewed endwise |      |      |      |      |      |
| X=2H  | Y=2H            | 16.5 | 17.4 | 16.9 | 17.8 | 18.3          | 16.8 | 17.7 | 17.2 | 18.1 | 18.5 |
|   | Y=3H            | 16.8 | 17.6 | 17.3 | 18.0 | 18.5          | 17.1 | 17.9 | 17.6 | 18.4 | 18.8 |
|   | Y=4H            | 17.2 | 17.9 | 17.6 | 18.4 | 18.9          | 17.5 | 18.3 | 18.0 | 18.7 | 19.2 |
|   | Y=6H            | 17.8 | 18.5 | 18.3 | 18.9 | 19.4          | 18.1 | 18.8 | 18.6 | 19.3 | 19.8 |
|   | Y=8H            | 18.2 | 18.9 | 18.7 | 19.3 | 19.9          | 18.5 | 19.2 | 19.0 | 19.7 | 20.2 |
|   | Y=12H           | 18.8 | 19.5 | 19.3 | 19.9 | 20.5          | 19.1 | 19.8 | 19.6 | 20.2 | 20.8 |
| X=4H  | Y=2H            | 16.3 | 17.1 | 16.8 | 17.5 | 18.0          | 16.7 | 17.5 | 17.2 | 17.9 | 18.4 |
|   | Y=3H            | 16.8 | 17.4 | 17.3 | 17.9 | 18.4          | 17.3 | 17.9 | 17.8 | 18.4 | 18.9 |
|   | Y=4H            | 17.3 | 17.9 | 17.8 | 18.4 | 18.9          | 17.8 | 18.4 | 18.4 | 18.9 | 19.5 |
|   | Y=6H            | 18.2 | 18.7 | 18.7 | 19.2 | 19.8          | 18.7 | 19.2 | 19.3 | 19.8 | 20.3 |
|   | Y=8H            | 18.8 | 19.2 | 19.3 | 19.8 | 20.3          | 19.4 | 19.8 | 19.9 | 20.3 | 20.9 |
|   | Y=12H           | 19.6 | 20.0 | 20.2 | 20.6 | 21.2          | 20.2 | 20.6 | 20.7 | 21.1 | 21.7 |
| X=8H  | Y=4H            | 17.4 | 17.9 | 18.0 | 18.4 | 19.0          | 18.1 | 18.5 | 18.6 | 19.1 | 19.6 |
|   | Y=6H            | 18.5 | 18.9 | 19.1 | 19.5 | 20.1          | 19.3 | 19.6 | 19.8 | 20.2 | 20.8 |
|   | Y=8H            | 19.3 | 19.6 | 19.9 | 20.2 | 20.8          | 20.1 | 20.4 | 20.7 | 21.0 | 21.6 |
|   | Y=12H           | 20.4 | 20.7 | 21.0 | 21.3 | 21.9          | 21.2 | 21.5 | 21.8 | 22.0 | 22.7 |
| X=12H   | Y=4H            | 17.5 | 17.9 | 18.0 | 18.4 | 19.0          | 18.1 | 18.5 | 18.7 | 19.1 | 19.7 |
|   | Y=6H            | 18.7 | 19.0 | 19.3 | 19.5 | 20.2          | 19.4 | 19.7 | 20.0 | 20.3 | 20.9 |
|   | Y=8H            | 19.5 | 19.8 | 20.1 | 20.4 | 21.0          | 20.4 | 20.7 | 21.0 | 21.2 | 21.9 |
| Variations with the objverer position at spacings |                 |      |      |      |      |               |      |      |      |      |      |
| S=1.0H  | 0.0/-0.0        |      |      |      |      | 0.0/-0.1      |      |      |      |      |      |
| S=1.5H  | 0.1/-0.2        |      |      |      |      | 0.1/-0.1      |      |      |      |      |      |
| S=2.0H  | 0.2/-0.4        |      |      |      |      | 0.1/-0.2      |      |      |      |      |      |
| Reduced UGR Table:                                |                 |      |      |      |      |               |      |      |      |      |      |
| Nordic Standard Table:                            | BKO             |      |      |      |      | BKO           |      |      |      |      |      |
| Correction Value                                  | 2.7             |      |      |      |      | 3.0           |      |      |      |      |      |

o the CIE Pub. 117, data has been corrected, refers to the lamp's lumens 8.2flm.

# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Candela Tabulation

| V/H           | C0.0   | C22.5  | C45.0  | C67.5  | C90.0  | C112.5 | C135.0 | C157.5 | C180.0 | C202.5 | C225.0 | C247.5 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| $\gamma$ 0.0  | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 | 928.97 |
| $\gamma$ 1.0  | 937.13 | 933.38 | 930.91 | 928.77 | 926.56 | 925.47 | 923.98 | 922.78 | 937.01 | 933.67 | 930.78 | 928.65 |
| $\gamma$ 2.0  | 934.25 | 930.88 | 928.61 | 926.41 | 924.29 | 923.43 | 922.47 | 921.61 | 934.62 | 931.16 | 928.50 | 926.52 |
| $\gamma$ 3.0  | 930.02 | 926.89 | 924.91 | 922.63 | 920.91 | 920.10 | 919.52 | 919.29 | 930.64 | 927.49 | 925.05 | 923.41 |
| $\gamma$ 4.0  | 924.35 | 921.54 | 919.95 | 918.12 | 916.70 | 915.63 | 915.35 | 915.14 | 925.15 | 922.54 | 920.73 | 919.38 |
| $\gamma$ 5.0  | 916.66 | 914.45 | 913.78 | 912.77 | 911.25 | 910.03 | 909.66 | 909.95 | 918.32 | 916.32 | 915.36 | 914.28 |
| $\gamma$ 6.0  | 907.11 | 905.65 | 905.94 | 905.47 | 904.20 | 903.06 | 902.69 | 903.07 | 909.89 | 908.64 | 908.58 | 907.79 |
| $\gamma$ 7.0  | 895.77 | 894.78 | 896.53 | 896.63 | 895.73 | 894.36 | 894.41 | 894.92 | 899.88 | 899.49 | 900.42 | 900.66 |
| $\gamma$ 8.0  | 883.68 | 882.36 | 885.34 | 886.49 | 885.75 | 884.50 | 884.67 | 885.02 | 888.56 | 888.96 | 890.86 | 891.78 |
| $\gamma$ 9.0  | 869.96 | 868.55 | 872.43 | 874.72 | 874.27 | 872.91 | 873.18 | 873.90 | 875.42 | 876.88 | 879.87 | 881.68 |
| $\gamma$ 10.0 | 858.68 | 853.65 | 858.12 | 861.92 | 861.60 | 860.03 | 859.91 | 860.78 | 861.37 | 863.30 | 867.24 | 869.89 |
| $\gamma$ 11.0 | 845.73 | 837.46 | 842.38 | 846.99 | 847.29 | 845.39 | 845.48 | 846.72 | 846.11 | 848.46 | 852.62 | 856.10 |
| $\gamma$ 12.0 | 827.60 | 819.22 | 824.59 | 830.38 | 830.87 | 829.18 | 829.50 | 830.97 | 829.27 | 831.85 | 835.43 | 839.71 |
| $\gamma$ 13.0 | 807.62 | 798.95 | 804.79 | 810.91 | 811.38 | 809.75 | 811.37 | 813.82 | 810.32 | 812.69 | 815.62 | 819.77 |
| $\gamma$ 14.0 | 784.74 | 775.59 | 781.29 | 787.33 | 787.96 | 786.82 | 791.10 | 794.88 | 789.72 | 790.75 | 791.71 | 795.04 |
| $\gamma$ 15.0 | 758.88 | 749.02 | 754.05 | 758.68 | 760.15 | 759.92 | 767.71 | 774.43 | 766.42 | 765.60 | 762.69 | 765.23 |
| $\gamma$ 16.0 | 731.02 | 720.86 | 724.14 | 727.07 | 728.99 | 729.89 | 741.22 | 751.61 | 740.32 | 737.77 | 732.89 | 732.59 |
| $\gamma$ 17.0 | 702.47 | 691.85 | 693.19 | 694.62 | 696.72 | 699.09 | 712.91 | 726.13 | 711.83 | 709.28 | 703.16 | 699.67 |
| $\gamma$ 18.0 | 673.56 | 663.59 | 662.80 | 662.66 | 664.30 | 668.81 | 684.16 | 698.34 | 682.98 | 680.78 | 673.82 | 667.24 |
| $\gamma$ 19.0 | 645.05 | 635.25 | 633.22 | 631.18 | 633.12 | 639.53 | 655.67 | 670.42 | 653.20 | 652.30 | 645.59 | 636.65 |
| $\gamma$ 20.0 | 616.46 | 607.66 | 605.45 | 601.87 | 603.74 | 611.19 | 627.22 | 641.67 | 623.45 | 624.46 | 617.82 | 607.60 |
| $\gamma$ 21.0 | 588.34 | 580.17 | 577.91 | 573.15 | 575.18 | 583.74 | 598.72 | 612.59 | 594.34 | 596.48 | 590.00 | 579.45 |
| $\gamma$ 22.0 | 560.09 | 552.71 | 550.54 | 545.42 | 547.22 | 556.16 | 570.10 | 583.46 | 564.90 | 567.87 | 562.07 | 551.27 |
| $\gamma$ 23.0 | 533.04 | 525.33 | 523.53 | 518.13 | 519.64 | 528.29 | 541.25 | 553.90 | 535.25 | 538.66 | 533.72 | 523.52 |
| $\gamma$ 24.0 | 504.54 | 497.58 | 496.52 | 490.71 | 492.02 | 499.91 | 511.93 | 524.36 | 504.66 | 508.27 | 503.09 | 494.46 |
| $\gamma$ 25.0 | 474.98 | 468.66 | 469.34 | 462.54 | 463.53 | 469.58 | 481.69 | 494.66 | 473.01 | 476.41 | 471.94 | 463.84 |
| $\gamma$ 26.0 | 444.34 | 438.23 | 439.37 | 433.26 | 433.54 | 438.18 | 450.15 | 463.38 | 438.86 | 442.70 | 438.82 | 431.59 |
| $\gamma$ 27.0 | 412.39 | 406.84 | 407.58 | 402.57 | 401.79 | 406.15 | 417.28 | 431.38 | 403.81 | 407.90 | 403.41 | 397.26 |
| $\gamma$ 28.0 | 378.10 | 373.48 | 374.58 | 369.74 | 368.71 | 372.11 | 382.98 | 397.02 | 367.37 | 371.23 | 367.32 | 361.79 |
| $\gamma$ 29.0 | 342.97 | 338.07 | 339.83 | 335.25 | 334.45 | 337.01 | 347.30 | 361.48 | 329.79 | 333.18 | 330.42 | 324.84 |
| $\gamma$ 30.0 | 307.07 | 301.63 | 303.09 | 299.49 | 298.50 | 301.05 | 310.78 | 324.26 | 291.19 | 294.61 | 291.80 | 286.79 |
| $\gamma$ 31.0 | 270.06 | 265.32 | 266.10 | 263.42 | 261.81 | 264.11 | 273.67 | 286.17 | 252.59 | 256.19 | 254.01 | 249.09 |
| $\gamma$ 32.0 | 235.91 | 231.45 | 231.22 | 229.13 | 227.05 | 228.62 | 237.43 | 248.60 | 216.41 | 220.54 | 219.03 | 215.05 |
| $\gamma$ 33.0 | 205.50 | 201.35 | 200.70 | 198.23 | 196.39 | 197.05 | 204.41 | 213.14 | 185.06 | 189.63 | 188.48 | 185.82 |
| $\gamma$ 34.0 | 179.36 | 174.82 | 173.91 | 171.66 | 169.98 | 169.81 | 175.36 | 182.10 | 158.00 | 162.93 | 162.25 | 160.66 |
| $\gamma$ 35.0 | 156.19 | 151.83 | 150.58 | 148.65 | 147.10 | 146.90 | 150.57 | 155.67 | 135.39 | 139.89 | 139.97 | 139.29 |
| $\gamma$ 36.0 | 135.96 | 131.60 | 130.65 | 128.85 | 127.19 | 126.90 | 129.54 | 133.46 | 115.78 | 119.88 | 120.38 | 120.22 |
| $\gamma$ 37.0 | 117.54 | 113.40 | 112.62 | 111.15 | 109.73 | 109.13 | 111.30 | 114.42 | 98.30  | 102.10 | 102.55 | 103.15 |
| $\gamma$ 38.0 | 100.28 | 96.64  | 96.55  | 95.06  | 94.10  | 93.19  | 95.29  | 97.53  | 82.99  | 86.18  | 86.77  | 87.57  |
| $\gamma$ 39.0 | 85.60  | 81.80  | 82.12  | 80.79  | 80.30  | 79.35  | 81.11  | 82.80  | 69.42  | 72.45  | 73.48  | 74.11  |
| $\gamma$ 40.0 | 72.96  | 69.65  | 69.88  | 69.02  | 68.66  | 67.74  | 69.22  | 70.28  | 58.29  | 61.00  | 62.40  | 62.77  |
| $\gamma$ 41.0 | 62.19  | 58.94  | 59.46  | 58.88  | 58.53  | 57.65  | 59.08  | 59.81  | 48.61  | 51.04  | 52.31  | 52.78  |
| $\gamma$ 42.0 | 52.35  | 49.57  | 50.40  | 50.39  | 49.62  | 49.24  | 50.31  | 51.26  | 40.43  | 42.31  | 43.58  | 43.89  |
| $\gamma$ 43.0 | 43.68  | 41.53  | 42.65  | 42.72  | 42.14  | 41.72  | 43.00  | 43.73  | 33.65  | 34.84  | 35.70  | 36.09  |
| $\gamma$ 44.0 | 35.63  | 34.71  | 36.04  | 35.67  | 35.22  | 35.07  | 36.39  | 36.96  | 27.27  | 27.92  | 28.63  | 28.95  |
| $\gamma$ 45.0 | 28.76  | 28.36  | 29.62  | 29.30  | 28.62  | 29.03  | 30.27  | 31.28  | 21.08  | 21.67  | 22.04  | 22.51  |
| $\gamma$ 46.0 | 22.69  | 22.44  | 23.40  | 23.59  | 23.07  | 23.34  | 24.57  | 25.36  | 16.03  | 16.41  | 16.16  | 16.67  |



# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

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## Candela Tabulation - (Cont.)

| V/H    | C0.0  | C22.5 | C45.0 | C67.5 | C90.0 | C112.5 | C135.0 | C157.5 | C180.0 | C202.5 | C225.0 | C247.5 |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| γ 47.0 | 17.57 | 17.59 | 18.50 | 18.57 | 18.42 | 18.32  | 19.63  | 20.05  | 11.86  | 11.93  | 11.67  | 11.80  |
| γ 48.0 | 14.33 | 14.30 | 15.09 | 15.05 | 14.81 | 14.91  | 15.57  | 16.01  | 8.52   | 8.48   | 8.48   | 8.63   |
| γ 49.0 | 12.70 | 12.62 | 12.97 | 13.13 | 12.76 | 12.93  | 12.99  | 13.44  | 7.02   | 6.87   | 6.90   | 7.20   |
| γ 50.0 | 12.08 | 11.92 | 11.98 | 12.09 | 11.81 | 12.00  | 11.85  | 12.08  | 6.35   | 6.44   | 6.06   | 6.22   |
| γ 51.0 | 11.59 | 11.65 | 11.85 | 11.82 | 11.30 | 11.73  | 11.39  | 11.30  | 5.80   | 6.18   | 6.05   | 5.97   |
| γ 52.0 | 11.44 | 11.31 | 11.44 | 11.45 | 10.96 | 11.29  | 11.15  | 11.27  | 5.81   | 5.82   | 6.11   | 5.82   |
| γ 53.0 | 11.20 | 10.98 | 10.95 | 11.17 | 10.78 | 10.79  | 10.91  | 10.86  | 5.76   | 5.44   | 5.61   | 5.64   |
| γ 54.0 | 10.90 | 10.79 | 10.81 | 10.88 | 10.58 | 10.80  | 10.64  | 10.48  | 5.58   | 5.36   | 5.50   | 5.48   |
| γ 55.0 | 10.88 | 10.47 | 10.56 | 10.32 | 10.28 | 10.41  | 10.25  | 10.39  | 5.47   | 5.03   | 5.18   | 5.36   |
| γ 56.0 | 10.58 | 10.32 | 10.31 | 10.32 | 10.12 | 10.46  | 10.06  | 10.15  | 5.25   | 4.84   | 5.09   | 5.14   |
| γ 57.0 | 10.56 | 10.21 | 10.19 | 10.15 | 10.06 | 10.09  | 9.99   | 9.93   | 4.99   | 4.82   | 5.00   | 5.09   |
| γ 58.0 | 10.34 | 9.85  | 10.27 | 9.85  | 9.98  | 9.80   | 9.78   | 10.04  | 5.06   | 4.79   | 5.12   | 4.91   |
| γ 59.0 | 10.27 | 9.82  | 10.15 | 9.60  | 9.71  | 9.83   | 9.62   | 9.89   | 5.07   | 4.65   | 4.94   | 4.58   |
| γ 60.0 | 10.01 | 9.83  | 9.79  | 9.51  | 9.41  | 9.70   | 9.70   | 9.28   | 4.86   | 4.63   | 4.60   | 4.74   |
| γ 61.0 | 9.89  | 9.64  | 9.58  | 9.55  | 9.24  | 9.27   | 9.53   | 9.28   | 4.85   | 4.40   | 4.59   | 4.76   |
| γ 62.0 | 9.70  | 9.41  | 9.47  | 9.19  | 9.01  | 9.24   | 9.43   | 9.31   | 4.64   | 4.26   | 4.51   | 4.51   |
| γ 63.0 | 9.38  | 9.05  | 9.30  | 8.95  | 8.91  | 9.13   | 9.28   | 9.14   | 4.39   | 4.32   | 4.23   | 4.30   |
| γ 64.0 | 9.41  | 8.81  | 9.20  | 8.85  | 8.72  | 8.81   | 8.84   | 8.74   | 4.17   | 4.04   | 4.19   | 4.23   |
| γ 65.0 | 8.73  | 8.76  | 9.11  | 8.64  | 8.50  | 8.83   | 8.69   | 8.63   | 4.06   | 3.81   | 3.96   | 4.04   |
| γ 66.0 | 8.77  | 8.62  | 8.73  | 8.29  | 8.22  | 8.47   | 8.51   | 8.40   | 4.01   | 3.64   | 3.70   | 3.88   |
| γ 67.0 | 8.51  | 8.30  | 8.47  | 8.06  | 7.90  | 8.32   | 8.20   | 8.19   | 3.91   | 3.47   | 3.56   | 3.67   |
| γ 68.0 | 8.28  | 8.13  | 8.14  | 7.79  | 7.66  | 7.96   | 7.84   | 7.70   | 3.76   | 3.27   | 3.38   | 3.51   |
| γ 69.0 | 8.08  | 8.06  | 7.99  | 7.80  | 7.43  | 7.83   | 7.65   | 7.65   | 3.48   | 3.16   | 3.38   | 3.38   |
| γ 70.0 | 7.74  | 7.85  | 7.64  | 7.64  | 7.48  | 7.34   | 7.67   | 7.43   | 3.55   | 3.17   | 3.19   | 3.23   |
| γ 71.0 | 7.93  | 7.65  | 7.70  | 7.57  | 7.53  | 7.46   | 7.54   | 7.32   | 3.57   | 3.34   | 3.39   | 3.32   |
| γ 72.0 | 7.94  | 7.65  | 7.39  | 7.49  | 7.39  | 7.16   | 7.36   | 7.16   | 3.28   | 3.18   | 3.30   | 3.37   |
| γ 73.0 | 7.48  | 7.70  | 7.07  | 7.49  | 7.22  | 7.24   | 7.20   | 7.11   | 3.11   | 3.14   | 3.52   | 3.39   |
| γ 74.0 | 7.64  | 7.53  | 7.35  | 7.18  | 7.17  | 6.97   | 7.07   | 6.94   | 2.88   | 3.23   | 3.45   | 3.37   |
| γ 75.0 | 7.26  | 7.15  | 7.30  | 6.97  | 7.07  | 6.93   | 6.99   | 7.02   | 3.30   | 3.30   | 3.58   | 3.14   |
| γ 76.0 | 7.21  | 7.15  | 7.10  | 6.88  | 6.93  | 6.65   | 6.81   | 6.74   | 3.26   | 3.23   | 3.43   | 3.06   |
| γ 77.0 | 7.07  | 7.10  | 7.00  | 6.73  | 6.83  | 6.47   | 6.71   | 6.84   | 3.11   | 3.33   | 3.40   | 3.06   |
| γ 78.0 | 7.01  | 6.91  | 6.97  | 6.82  | 6.61  | 6.50   | 6.70   | 6.46   | 3.19   | 3.37   | 3.30   | 3.08   |
| γ 79.0 | 6.77  | 6.88  | 6.78  | 6.76  | 6.52  | 6.42   | 6.52   | 6.64   | 3.19   | 3.49   | 3.51   | 3.35   |
| γ 80.0 | 6.65  | 6.69  | 6.66  | 6.76  | 6.62  | 5.97   | 6.37   | 6.43   | 3.07   | 3.42   | 3.46   | 3.29   |
| γ 81.0 | 6.32  | 6.48  | 6.54  | 6.51  | 6.58  | 6.17   | 6.35   | 6.33   | 3.21   | 3.35   | 3.42   | 3.45   |
| γ 82.0 | 6.36  | 6.47  | 6.27  | 6.26  | 6.36  | 6.22   | 6.28   | 5.97   | 3.35   | 3.36   | 3.40   | 3.27   |
| γ 83.0 | 6.29  | 6.17  | 6.02  | 6.40  | 6.22  | 6.06   | 6.11   | 5.87   | 3.26   | 3.29   | 3.47   | 3.41   |
| γ 84.0 | 6.22  | 5.92  | 6.09  | 6.19  | 6.18  | 6.04   | 6.05   | 5.74   | 3.24   | 3.25   | 3.45   | 3.47   |
| γ 85.0 | 6.15  | 6.05  | 5.91  | 6.00  | 6.17  | 5.93   | 5.98   | 5.49   | 3.50   | 3.28   | 3.40   | 3.36   |
| γ 86.0 | 6.32  | 5.83  | 5.77  | 5.77  | 6.03  | 5.69   | 5.86   | 5.66   | 3.29   | 3.35   | 3.45   | 3.53   |
| γ 87.0 | 6.21  | 5.72  | 5.93  | 5.76  | 5.80  | 5.67   | 5.73   | 5.74   | 3.60   | 3.32   | 3.61   | 3.33   |
| γ 88.0 | 6.06  | 5.76  | 5.59  | 5.59  | 5.73  | 5.59   | 5.66   | 5.56   | 3.25   | 3.32   | 3.68   | 3.51   |
| γ 89.0 | 5.64  | 5.74  | 5.45  | 5.57  | 5.59  | 5.75   | 5.41   | 5.59   | 3.35   | 3.37   | 3.63   | 3.65   |
| γ 90.0 | 5.71  | 5.47  | 5.57  | 5.47  | 5.47  | 5.50   | 5.43   | 5.45   | 3.50   | 3.53   | 3.78   | 3.51   |
| γ 91.0 | 5.37  | 5.20  | 5.37  | 5.29  | 5.48  | 5.47   | 5.45   | 5.25   | 3.55   | 3.53   | 3.61   | 3.64   |
| γ 92.0 | 5.47  | 5.38  | 5.55  | 5.24  | 5.44  | 5.26   | 5.24   | 5.22   | 3.46   | 3.42   | 3.77   | 3.89   |
| γ 93.0 | 5.38  | 5.46  | 5.51  | 5.16  | 5.30  | 5.30   | 5.24   | 4.98   | 3.33   | 3.26   | 3.61   | 3.78   |

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# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

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## Candela Tabulation - (Cont.)

| V/H     | C0.0 | C22.5 | C45.0 | C67.5 | C90.0 | C112.5 | C135.0 | C157.5 | C180.0 | C202.5 | C225.0 | C247.5 |
|---------|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| γ 94.0  | 5.29 | 5.34  | 5.46  | 5.22  | 5.11  | 5.23   | 5.23   | 5.15   | 3.67   | 3.36   | 3.59   | 3.81   |
| γ 95.0  | 5.70 | 5.20  | 5.25  | 5.03  | 5.05  | 5.19   | 5.27   | 5.01   | 3.61   | 3.49   | 3.68   | 3.96   |
| γ 96.0  | 5.32 | 5.16  | 5.03  | 4.97  | 5.13  | 5.28   | 5.08   | 5.02   | 3.63   | 3.58   | 3.78   | 3.81   |
| γ 97.0  | 5.30 | 5.21  | 5.15  | 5.03  | 5.05  | 5.21   | 4.86   | 4.92   | 3.61   | 3.79   | 3.80   | 3.77   |
| γ 98.0  | 5.33 | 5.36  | 4.92  | 5.16  | 5.04  | 5.09   | 4.82   | 5.00   | 3.48   | 3.76   | 3.82   | 3.77   |
| γ 99.0  | 5.37 | 5.17  | 4.78  | 5.14  | 5.14  | 5.22   | 4.89   | 4.72   | 3.69   | 3.64   | 3.67   | 3.93   |
| γ 100.0 | 5.07 | 5.02  | 4.89  | 5.00  | 5.07  | 4.88   | 4.95   | 4.76   | 3.69   | 3.54   | 3.69   | 3.83   |
| γ 101.0 | 4.94 | 4.96  | 4.87  | 5.07  | 4.95  | 4.88   | 4.85   | 4.67   | 3.72   | 3.54   | 3.77   | 3.79   |
| γ 102.0 | 4.92 | 4.85  | 4.86  | 5.07  | 4.89  | 4.80   | 4.85   | 4.67   | 3.52   | 3.77   | 3.80   | 3.74   |
| γ 103.0 | 4.56 | 4.77  | 4.75  | 4.80  | 4.92  | 4.82   | 4.93   | 4.76   | 3.67   | 3.70   | 4.07   | 3.77   |
| γ 104.0 | 4.80 | 4.87  | 4.61  | 4.68  | 4.72  | 4.89   | 4.88   | 4.29   | 3.63   | 3.56   | 4.10   | 3.84   |
| γ 105.0 | 4.49 | 4.78  | 4.49  | 4.93  | 4.56  | 4.60   | 4.79   | 4.28   | 3.60   | 3.77   | 3.97   | 3.82   |
| γ 106.0 | 4.80 | 4.56  | 4.60  | 4.77  | 4.59  | 4.66   | 4.79   | 4.25   | 3.60   | 3.91   | 4.13   | 3.99   |
| γ 107.0 | 4.76 | 4.47  | 4.51  | 4.76  | 4.43  | 4.63   | 4.68   | 4.46   | 3.86   | 3.75   | 4.08   | 3.97   |
| γ 108.0 | 4.66 | 4.48  | 4.30  | 4.52  | 4.37  | 4.55   | 4.53   | 4.49   | 3.65   | 3.67   | 4.09   | 4.00   |
| γ 109.0 | 4.64 | 4.60  | 4.16  | 4.69  | 4.61  | 4.42   | 4.63   | 4.44   | 3.70   | 3.76   | 4.11   | 3.90   |
| γ 110.0 | 4.53 | 4.66  | 4.36  | 4.59  | 4.76  | 4.51   | 4.70   | 4.44   | 3.85   | 3.89   | 4.19   | 3.82   |
| γ 111.0 | 4.65 | 4.74  | 4.30  | 4.73  | 4.53  | 4.36   | 4.57   | 4.51   | 3.82   | 3.89   | 4.30   | 3.85   |
| γ 112.0 | 4.90 | 4.59  | 4.24  | 4.38  | 4.39  | 4.47   | 4.60   | 4.44   | 3.80   | 3.82   | 4.28   | 3.73   |
| γ 113.0 | 4.69 | 4.41  | 3.97  | 4.50  | 4.43  | 4.59   | 4.74   | 4.35   | 3.84   | 3.93   | 4.31   | 3.89   |
| γ 114.0 | 4.62 | 4.33  | 4.08  | 4.48  | 4.16  | 4.59   | 4.67   | 4.24   | 3.78   | 3.93   | 4.20   | 3.89   |
| γ 115.0 | 4.70 | 4.23  | 4.15  | 4.59  | 4.01  | 4.64   | 4.56   | 4.31   | 3.97   | 3.79   | 4.23   | 3.87   |
| γ 116.0 | 4.36 | 4.26  | 4.16  | 4.45  | 4.21  | 4.66   | 4.61   | 4.32   | 4.00   | 3.86   | 4.34   | 4.10   |
| γ 117.0 | 4.49 | 4.30  | 4.24  | 4.65  | 4.25  | 4.43   | 4.45   | 4.29   | 3.94   | 3.97   | 4.52   | 4.11   |
| γ 118.0 | 4.62 | 4.40  | 4.15  | 4.37  | 4.24  | 4.50   | 4.35   | 4.19   | 3.83   | 3.96   | 4.18   | 4.07   |
| γ 119.0 | 4.59 | 4.36  | 4.18  | 4.19  | 4.25  | 4.48   | 4.49   | 4.39   | 4.13   | 3.94   | 4.26   | 4.09   |
| γ 120.0 | 4.72 | 4.34  | 4.13  | 4.67  | 4.22  | 4.36   | 4.41   | 4.34   | 3.83   | 4.08   | 4.26   | 4.08   |
| γ 121.0 | 4.43 | 4.29  | 4.38  | 4.55  | 4.12  | 4.55   | 4.14   | 4.36   | 4.05   | 4.04   | 4.04   | 4.09   |
| γ 122.0 | 4.31 | 4.23  | 4.15  | 4.44  | 4.03  | 4.61   | 4.15   | 4.33   | 3.97   | 3.90   | 4.07   | 4.04   |
| γ 123.0 | 4.33 | 4.29  | 4.16  | 4.36  | 4.03  | 3.98   | 4.39   | 4.40   | 3.86   | 3.97   | 4.04   | 4.01   |
| γ 124.0 | 4.40 | 4.17  | 4.07  | 4.40  | 4.11  | 4.26   | 4.51   | 4.32   | 4.12   | 4.08   | 4.05   | 3.92   |
| γ 125.0 | 4.46 | 4.17  | 4.40  | 4.44  | 4.11  | 4.10   | 4.35   | 4.16   | 4.04   | 4.24   | 4.08   | 4.11   |
| γ 126.0 | 4.22 | 4.16  | 4.46  | 4.34  | 3.87  | 4.03   | 4.18   | 4.17   | 3.97   | 4.17   | 4.15   | 4.32   |
| γ 127.0 | 4.29 | 4.03  | 4.25  | 4.45  | 3.90  | 3.95   | 4.29   | 4.28   | 4.11   | 4.20   | 4.14   | 4.23   |
| γ 128.0 | 4.46 | 4.04  | 4.16  | 4.51  | 4.12  | 4.24   | 4.32   | 4.08   | 4.09   | 4.38   | 4.20   | 4.23   |
| γ 129.0 | 4.52 | 4.00  | 4.20  | 4.43  | 4.08  | 4.24   | 4.40   | 4.55   | 4.20   | 4.36   | 4.02   | 4.30   |
| γ 130.0 | 4.40 | 4.09  | 4.22  | 4.24  | 4.16  | 4.18   | 4.42   | 4.26   | 4.34   | 4.24   | 3.92   | 4.45   |
| γ 131.0 | 4.28 | 4.19  | 4.17  | 4.29  | 4.21  | 4.36   | 4.32   | 4.36   | 4.34   | 4.22   | 3.81   | 4.47   |
| γ 132.0 | 4.06 | 4.12  | 4.27  | 4.39  | 4.07  | 4.25   | 4.35   | 4.38   | 4.08   | 3.99   | 4.10   | 4.32   |
| γ 133.0 | 4.18 | 4.23  | 4.32  | 4.23  | 4.22  | 3.97   | 4.48   | 4.61   | 4.18   | 4.05   | 4.10   | 4.10   |
| γ 134.0 | 4.31 | 4.39  | 4.41  | 4.32  | 4.33  | 4.29   | 4.47   | 4.51   | 4.25   | 4.16   | 4.24   | 4.22   |
| γ 135.0 | 4.30 | 4.47  | 4.35  | 4.55  | 4.28  | 4.10   | 4.37   | 4.25   | 4.35   | 4.09   | 4.31   | 4.39   |
| γ 136.0 | 4.40 | 4.52  | 4.51  | 4.63  | 4.17  | 4.29   | 4.54   | 4.09   | 4.25   | 4.22   | 4.41   | 4.43   |
| γ 137.0 | 4.49 | 4.44  | 4.23  | 4.60  | 4.11  | 4.33   | 4.68   | 4.18   | 4.47   | 4.20   | 4.24   | 4.34   |
| γ 138.0 | 4.44 | 4.38  | 4.42  | 4.62  | 4.30  | 4.13   | 4.53   | 4.54   | 4.48   | 4.30   | 4.46   | 4.34   |
| γ 139.0 | 4.46 | 4.44  | 4.40  | 4.56  | 4.29  | 4.53   | 4.58   | 4.55   | 4.23   | 4.33   | 4.51   | 4.48   |
| γ 140.0 | 4.42 | 4.35  | 4.36  | 4.72  | 4.25  | 4.46   | 4.70   | 4.75   | 4.10   | 4.34   | 4.50   | 5.05   |

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# IES Indoor Report

Photometric Filename:AW12540 10W 1202C9 3090 ZHT35-60D 250.IES

## Candela Tabulation - (Cont.)

| V/H     | C0.0   | C22.5  | C45.0  | C67.5  | C90.0 | C112.5 | C135.0 | C157.5 | C180.0 | C202.5 | C225.0 | C247.5 |
|---------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| γ 141.0 | 4.55   | 4.44   | 4.53   | 4.74   | 4.32  | 4.55   | 4.55   | 4.22   | 4.26   | 4.39   | 4.61   | 4.65   |
| γ 142.0 | 4.45   | 4.60   | 4.52   | 4.60   | 4.24  | 4.41   | 4.40   | 4.65   | 4.52   | 4.32   | 4.64   | 4.84   |
| γ 143.0 | 4.48   | 4.57   | 4.42   | 4.67   | 4.17  | 4.47   | 4.30   | 4.20   | 4.37   | 4.30   | 4.55   | 4.74   |
| γ 144.0 | 4.72   | 4.44   | 4.59   | 4.76   | 4.28  | 4.71   | 4.37   | 4.44   | 4.55   | 4.44   | 4.51   | 4.79   |
| γ 145.0 | 4.59   | 4.43   | 4.47   | 4.75   | 4.66  | 4.77   | 4.58   | 4.36   | 4.89   | 4.37   | 4.58   | 5.04   |
| γ 146.0 | 4.63   | 4.40   | 4.61   | 4.92   | 4.57  | 4.62   | 4.71   | 4.77   | 4.64   | 4.41   | 4.51   | 5.05   |
| γ 147.0 | 4.74   | 4.53   | 4.54   | 5.14   | 4.45  | 4.97   | 4.67   | 4.94   | 4.75   | 4.60   | 4.70   | 5.09   |
| γ 148.0 | 4.76   | 4.76   | 4.71   | 5.08   | 4.49  | 4.99   | 4.49   | 4.78   | 4.86   | 4.67   | 4.56   | 4.90   |
| γ 149.0 | 5.13   | 4.82   | 4.86   | 5.04   | 4.36  | 4.85   | 4.63   | 5.01   | 4.88   | 4.54   | 4.60   | 4.81   |
| γ 150.0 | 4.89   | 4.80   | 4.82   | 4.88   | 4.53  | 5.00   | 4.81   | 4.97   | 4.81   | 4.64   | 4.81   | 5.07   |
| γ 151.0 | 4.83   | 4.77   | 4.72   | 5.00   | 4.86  | 5.20   | 4.81   | 4.77   | 4.68   | 4.68   | 4.50   | 4.98   |
| γ 152.0 | 4.91   | 4.82   | 4.80   | 4.85   | 5.12  | 5.36   | 4.83   | 5.09   | 4.89   | 4.62   | 4.58   | 4.93   |
| γ 153.0 | 4.84   | 4.87   | 4.86   | 4.84   | 5.31  | 5.49   | 4.85   | 5.12   | 4.79   | 4.70   | 4.76   | 4.91   |
| γ 154.0 | 5.04   | 5.06   | 5.02   | 4.90   | 5.41  | 5.87   | 4.87   | 4.97   | 4.83   | 4.84   | 4.90   | 5.22   |
| γ 155.0 | 5.00   | 5.20   | 5.15   | 5.07   | 5.75  | 5.70   | 4.80   | 5.08   | 4.88   | 4.92   | 4.90   | 5.14   |
| γ 156.0 | 5.14   | 5.24   | 4.97   | 5.16   | 6.14  | 5.08   | 4.88   | 4.85   | 4.73   | 5.02   | 4.81   | 5.26   |
| γ 157.0 | 5.19   | 5.41   | 5.22   | 4.98   | 6.30  | 5.20   | 5.08   | 5.09   | 4.66   | 5.07   | 4.97   | 5.00   |
| γ 158.0 | 5.08   | 5.28   | 5.19   | 5.04   | 5.84  | 5.95   | 5.13   | 4.99   | 5.10   | 4.98   | 4.98   | 5.25   |
| γ 159.0 | 5.37   | 5.37   | 4.99   | 5.13   | 5.14  | 5.63   | 5.24   | 5.09   | 5.05   | 4.88   | 5.14   | 5.55   |
| γ 160.0 | 5.27   | 5.32   | 4.99   | 5.22   | 5.04  | 5.34   | 5.13   | 5.35   | 5.03   | 4.93   | 5.13   | 5.30   |
| γ 161.0 | 5.36   | 5.29   | 5.02   | 5.49   | 5.12  | 5.45   | 4.98   | 5.34   | 5.06   | 5.07   | 5.07   | 5.27   |
| γ 162.0 | 5.55   | 5.36   | 5.12   | 5.50   | 5.20  | 5.10   | 5.10   | 5.15   | 5.34   | 5.10   | 4.96   | 5.53   |
| γ 163.0 | 5.24   | 5.44   | 5.18   | 5.57   | 5.26  | 5.49   | 5.09   | 5.21   | 5.27   | 5.13   | 5.12   | 5.28   |
| γ 164.0 | 5.26   | 5.41   | 5.42   | 5.57   | 5.29  | 5.40   | 5.17   | 5.03   | 5.43   | 5.18   | 5.18   | 5.36   |
| γ 165.0 | 5.25   | 5.40   | 5.18   | 5.58   | 5.34  | 5.40   | 5.22   | 5.24   | 5.13   | 5.02   | 5.19   | 5.41   |
| γ 166.0 | 5.51   | 5.44   | 5.44   | 5.47   | 5.36  | 5.52   | 5.22   | 5.57   | 5.28   | 5.01   | 5.27   | 5.57   |
| γ 167.0 | 5.18   | 5.50   | 5.32   | 5.51   | 5.30  | 5.38   | 5.18   | 5.19   | 5.27   | 5.05   | 5.39   | 5.49   |
| γ 168.0 | 5.40   | 5.59   | 5.45   | 5.28   | 5.48  | 5.22   | 5.22   | 5.24   | 5.43   | 5.23   | 5.32   | 5.30   |
| γ 169.0 | 5.47   | 5.44   | 5.49   | 5.17   | 5.61  | 5.42   | 5.20   | 5.45   | 5.62   | 5.32   | 5.45   | 5.57   |
| γ 170.0 | 5.49   | 5.43   | 5.55   | 5.28   | 5.62  | 5.35   | 5.12   | 5.01   | 5.79   | 5.29   | 5.39   | 5.62   |
| γ 171.0 | 5.70   | 5.39   | 5.53   | 5.69   | 5.67  | 5.35   | 5.36   | 5.29   | 5.52   | 5.40   | 5.18   | 5.74   |
| γ 172.0 | 5.23   | 5.24   | 5.81   | 5.83   | 5.65  | 5.60   | 5.45   | 5.15   | 5.53   | 5.59   | 5.46   | 5.56   |
| γ 173.0 | 5.26   | 5.44   | 5.45   | 5.75   | 5.62  | 5.36   | 5.28   | 5.45   | 5.46   | 5.47   | 5.47   | 5.76   |
| γ 174.0 | 5.19   | 5.62   | 5.49   | 5.73   | 5.61  | 5.52   | 5.21   | 5.34   | 5.53   | 5.42   | 5.29   | 5.77   |
| γ 175.0 | 5.57   | 5.46   | 5.94   | 5.63   | 5.49  | 5.41   | 5.20   | 5.37   | 5.53   | 5.40   | 5.42   | 5.70   |
| γ 176.0 | 5.54   | 5.44   | 5.80   | 5.55   | 5.44  | 5.49   | 5.22   | 5.18   | 5.63   | 5.34   | 5.47   | 5.83   |
| γ 177.0 | 5.67   | 5.53   | 5.62   | 5.68   | 5.57  | 5.45   | 5.26   | 5.28   | 5.74   | 5.46   | 5.56   | 5.79   |
| γ 178.0 | 5.69   | 5.55   | 5.56   | 5.82   | 5.63  | 5.78   | 5.20   | 5.41   | 5.65   | 5.61   | 5.52   | 5.74   |
| γ 179.0 | 5.52   | 5.55   | 5.60   | 5.87   | 5.58  | 5.78   | 5.14   | 5.45   | 5.76   | 5.68   | 5.49   | 5.77   |
| γ 180.0 | 5.50   | 5.50   | 5.50   | 5.50   | 5.50  | 5.50   | 5.50   | 5.50   | 5.50   | 5.50   | 5.50   | 5.50   |
| V/H     | C270.0 | C292.5 | C315.0 | C337.5 |       |        |        |        |        |        |        |        |
| γ 0.0   | 928.97 | 928.97 | 928.97 | 928.97 |       |        |        |        |        |        |        |        |
| γ 1.0   | 926.48 | 924.71 | 921.84 | 919.31 |       |        |        |        |        |        |        |        |
| γ 2.0   | 924.41 | 922.74 | 918.98 | 915.70 |       |        |        |        |        |        |        |        |
| γ 3.0   | 921.16 | 919.29 | 914.66 | 910.35 |       |        |        |        |        |        |        |        |
| γ 4.0   | 917.29 | 914.80 | 908.82 | 903.35 |       |        |        |        |        |        |        |        |
| γ 5.0   | 912.45 | 909.20 | 901.72 | 894.70 |       |        |        |        |        |        |        |        |

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## Candela Tabulation - (Cont.)

| V/H            | C270. 0 | C292. 5 | C315. 0 | C337. 5 |
|----------------|---------|---------|---------|---------|
| $\gamma$ 6. 0  | 906. 11 | 902. 28 | 892. 82 | 884. 82 |
| $\gamma$ 7. 0  | 898. 58 | 893. 70 | 882. 45 | 872. 63 |
| $\gamma$ 8. 0  | 889. 80 | 883. 72 | 870. 83 | 859. 67 |
| $\gamma$ 9. 0  | 879. 34 | 872. 14 | 857. 76 | 845. 71 |
| $\gamma$ 10. 0 | 867. 19 | 859. 36 | 843. 10 | 830. 16 |
| $\gamma$ 11. 0 | 853. 02 | 843. 67 | 826. 40 | 812. 67 |
| $\gamma$ 12. 0 | 835. 96 | 825. 97 | 807. 00 | 792. 74 |
| $\gamma$ 13. 0 | 815. 56 | 805. 23 | 784. 24 | 770. 36 |
| $\gamma$ 14. 0 | 790. 84 | 780. 69 | 757. 61 | 745. 03 |
| $\gamma$ 15. 0 | 761. 31 | 751. 20 | 728. 95 | 717. 58 |
| $\gamma$ 16. 0 | 728. 60 | 719. 09 | 699. 86 | 689. 77 |
| $\gamma$ 17. 0 | 695. 43 | 687. 60 | 670. 60 | 661. 80 |
| $\gamma$ 18. 0 | 662. 86 | 655. 97 | 642. 30 | 634. 20 |
| $\gamma$ 19. 0 | 631. 53 | 626. 39 | 614. 91 | 606. 88 |
| $\gamma$ 20. 0 | 601. 91 | 597. 55 | 587. 94 | 579. 36 |
| $\gamma$ 21. 0 | 573. 14 | 569. 41 | 561. 11 | 552. 28 |
| $\gamma$ 22. 0 | 545. 05 | 541. 98 | 533. 64 | 524. 67 |
| $\gamma$ 23. 0 | 517. 51 | 514. 69 | 505. 77 | 497. 19 |
| $\gamma$ 24. 0 | 489. 67 | 487. 24 | 476. 51 | 467. 95 |
| $\gamma$ 25. 0 | 460. 25 | 457. 23 | 445. 01 | 438. 04 |
| $\gamma$ 26. 0 | 428. 87 | 425. 55 | 412. 76 | 405. 13 |
| $\gamma$ 27. 0 | 395. 49 | 391. 85 | 379. 24 | 371. 95 |
| $\gamma$ 28. 0 | 360. 58 | 356. 71 | 343. 98 | 336. 79 |
| $\gamma$ 29. 0 | 324. 31 | 320. 28 | 307. 70 | 301. 07 |
| $\gamma$ 30. 0 | 286. 79 | 282. 97 | 271. 30 | 264. 92 |
| $\gamma$ 31. 0 | 250. 07 | 246. 74 | 236. 94 | 230. 45 |
| $\gamma$ 32. 0 | 216. 62 | 213. 74 | 206. 26 | 200. 35 |
| $\gamma$ 33. 0 | 187. 69 | 185. 44 | 179. 67 | 174. 64 |
| $\gamma$ 34. 0 | 162. 91 | 161. 16 | 156. 73 | 152. 30 |
| $\gamma$ 35. 0 | 141. 46 | 140. 33 | 136. 54 | 131. 99 |
| $\gamma$ 36. 0 | 122. 49 | 121. 96 | 118. 24 | 114. 03 |
| $\gamma$ 37. 0 | 105. 21 | 105. 04 | 101. 51 | 97. 34  |
| $\gamma$ 38. 0 | 89. 70  | 89. 34  | 86. 59  | 82. 47  |
| $\gamma$ 39. 0 | 76. 17  | 75. 86  | 73. 50  | 69. 72  |
| $\gamma$ 40. 0 | 64. 44  | 64. 22  | 62. 12  | 58. 57  |
| $\gamma$ 41. 0 | 54. 28  | 54. 28  | 52. 07  | 48. 74  |
| $\gamma$ 42. 0 | 45. 34  | 45. 23  | 43. 10  | 39. 98  |
| $\gamma$ 43. 0 | 37. 33  | 37. 17  | 35. 17  | 32. 39  |
| $\gamma$ 44. 0 | 30. 01  | 29. 54  | 27. 58  | 25. 01  |
| $\gamma$ 45. 0 | 23. 27  | 22. 67  | 20. 63  | 18. 55  |
| $\gamma$ 46. 0 | 17. 17  | 16. 79  | 14. 71  | 12. 99  |
| $\gamma$ 47. 0 | 12. 18  | 11. 94  | 10. 09  | 9. 02   |
| $\gamma$ 48. 0 | 8. 72   | 8. 51   | 7. 18   | 6. 89   |
| $\gamma$ 49. 0 | 6. 84   | 6. 87   | 6. 00   | 5. 96   |
| $\gamma$ 50. 0 | 6. 13   | 6. 45   | 5. 89   | 5. 35   |
| $\gamma$ 51. 0 | 5. 79   | 5. 98   | 5. 66   | 5. 33   |
| $\gamma$ 52. 0 | 5. 54   | 5. 70   | 5. 48   | 5. 16   |

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## Candela Tabulation - (Cont.)

| V/H            | C270. 0 | C292. 5 | C315. 0 | C337. 5 |
|----------------|---------|---------|---------|---------|
| $\gamma$ 53. 0 | 5. 41   | 5. 49   | 5. 38   | 4. 91   |
| $\gamma$ 54. 0 | 5. 24   | 5. 46   | 5. 14   | 5. 01   |
| $\gamma$ 55. 0 | 5. 07   | 5. 17   | 4. 92   | 4. 53   |
| $\gamma$ 56. 0 | 4. 95   | 5. 26   | 4. 82   | 4. 63   |
| $\gamma$ 57. 0 | 4. 91   | 4. 85   | 4. 71   | 4. 47   |
| $\gamma$ 58. 0 | 4. 81   | 4. 69   | 4. 55   | 4. 24   |
| $\gamma$ 59. 0 | 4. 66   | 4. 45   | 4. 50   | 4. 32   |
| $\gamma$ 60. 0 | 4. 51   | 4. 55   | 4. 36   | 4. 32   |
| $\gamma$ 61. 0 | 4. 52   | 4. 35   | 4. 35   | 4. 50   |
| $\gamma$ 62. 0 | 4. 55   | 4. 18   | 4. 34   | 4. 33   |
| $\gamma$ 63. 0 | 4. 48   | 4. 14   | 4. 17   | 4. 13   |
| $\gamma$ 64. 0 | 4. 30   | 3. 99   | 4. 06   | 3. 89   |
| $\gamma$ 65. 0 | 3. 88   | 3. 79   | 3. 86   | 3. 58   |
| $\gamma$ 66. 0 | 3. 64   | 3. 54   | 3. 73   | 3. 57   |
| $\gamma$ 67. 0 | 3. 53   | 3. 69   | 3. 61   | 3. 24   |
| $\gamma$ 68. 0 | 3. 33   | 3. 72   | 3. 35   | 3. 10   |
| $\gamma$ 69. 0 | 3. 26   | 3. 27   | 3. 22   | 3. 22   |
| $\gamma$ 70. 0 | 3. 25   | 3. 69   | 3. 26   | 3. 03   |
| $\gamma$ 71. 0 | 3. 17   | 3. 57   | 3. 22   | 2. 96   |
| $\gamma$ 72. 0 | 3. 05   | 3. 34   | 3. 10   | 2. 99   |
| $\gamma$ 73. 0 | 3. 14   | 3. 41   | 3. 04   | 3. 29   |
| $\gamma$ 74. 0 | 3. 19   | 3. 42   | 3. 02   | 3. 14   |
| $\gamma$ 75. 0 | 3. 18   | 3. 18   | 3. 03   | 2. 85   |
| $\gamma$ 76. 0 | 3. 18   | 3. 21   | 3. 01   | 2. 76   |
| $\gamma$ 77. 0 | 3. 06   | 3. 50   | 3. 06   | 3. 05   |
| $\gamma$ 78. 0 | 2. 94   | 3. 22   | 3. 06   | 2. 98   |
| $\gamma$ 79. 0 | 2. 96   | 3. 26   | 3. 03   | 2. 99   |
| $\gamma$ 80. 0 | 3. 18   | 3. 15   | 3. 12   | 2. 89   |
| $\gamma$ 81. 0 | 3. 28   | 3. 25   | 3. 07   | 2. 72   |
| $\gamma$ 82. 0 | 3. 33   | 3. 25   | 3. 21   | 2. 90   |
| $\gamma$ 83. 0 | 3. 44   | 3. 37   | 3. 27   | 2. 84   |
| $\gamma$ 84. 0 | 3. 48   | 3. 27   | 3. 20   | 2. 88   |
| $\gamma$ 85. 0 | 3. 35   | 3. 39   | 3. 32   | 3. 23   |
| $\gamma$ 86. 0 | 3. 21   | 3. 35   | 3. 46   | 3. 07   |
| $\gamma$ 87. 0 | 3. 32   | 3. 36   | 3. 51   | 3. 42   |
| $\gamma$ 88. 0 | 3. 55   | 3. 21   | 3. 47   | 3. 38   |
| $\gamma$ 89. 0 | 3. 55   | 3. 33   | 3. 52   | 3. 40   |
| $\gamma$ 90. 0 | 3. 55   | 3. 36   | 3. 49   | 3. 46   |
| $\gamma$ 91. 0 | 3. 68   | 3. 27   | 3. 49   | 3. 39   |
| $\gamma$ 92. 0 | 3. 51   | 3. 31   | 3. 42   | 3. 53   |
| $\gamma$ 93. 0 | 3. 43   | 3. 75   | 3. 32   | 3. 29   |
| $\gamma$ 94. 0 | 3. 53   | 3. 60   | 3. 49   | 3. 61   |
| $\gamma$ 95. 0 | 3. 48   | 3. 60   | 3. 70   | 3. 46   |
| $\gamma$ 96. 0 | 3. 50   | 3. 58   | 3. 71   | 3. 54   |
| $\gamma$ 97. 0 | 3. 63   | 3. 64   | 3. 77   | 3. 52   |
| $\gamma$ 98. 0 | 3. 81   | 3. 78   | 3. 75   | 3. 65   |
| $\gamma$ 99. 0 | 3. 95   | 3. 66   | 3. 72   | 3. 41   |

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## Candela Tabulation - (Cont.)

| V/H     | C270.0 | C292.5 | C315.0 | C337.5 |
|---------|--------|--------|--------|--------|
| γ 100.0 | 3.92   | 3.73   | 3.77   | 3.60   |
| γ 101.0 | 3.82   | 3.62   | 3.82   | 3.60   |
| γ 102.0 | 3.87   | 3.88   | 3.92   | 3.67   |
| γ 103.0 | 3.90   | 3.77   | 3.86   | 3.54   |
| γ 104.0 | 3.96   | 3.96   | 4.07   | 3.79   |
| γ 105.0 | 3.91   | 4.01   | 4.06   | 3.66   |
| γ 106.0 | 3.71   | 3.93   | 3.76   | 3.74   |
| γ 107.0 | 3.77   | 3.92   | 3.72   | 3.64   |
| γ 108.0 | 3.88   | 3.57   | 3.78   | 3.57   |
| γ 109.0 | 3.84   | 3.79   | 3.87   | 3.53   |
| γ 110.0 | 3.93   | 3.71   | 3.85   | 3.72   |
| γ 111.0 | 3.92   | 3.71   | 3.85   | 3.72   |
| γ 112.0 | 3.81   | 3.73   | 3.78   | 3.93   |
| γ 113.0 | 3.71   | 4.10   | 3.79   | 3.87   |
| γ 114.0 | 3.66   | 4.05   | 3.81   | 3.89   |
| γ 115.0 | 3.69   | 3.94   | 3.92   | 3.72   |
| γ 116.0 | 3.71   | 4.13   | 4.00   | 3.49   |
| γ 117.0 | 3.85   | 3.83   | 3.78   | 3.29   |
| γ 118.0 | 3.80   | 3.91   | 3.82   | 3.41   |
| γ 119.0 | 3.68   | 3.97   | 3.93   | 3.32   |
| γ 120.0 | 3.68   | 4.05   | 3.97   | 3.46   |
| γ 121.0 | 3.72   | 3.72   | 4.07   | 3.59   |
| γ 122.0 | 3.84   | 3.63   | 4.04   | 3.54   |
| γ 123.0 | 3.96   | 3.77   | 3.89   | 3.62   |
| γ 124.0 | 3.96   | 3.86   | 3.96   | 3.50   |
| γ 125.0 | 3.85   | 3.61   | 4.19   | 3.30   |
| γ 126.0 | 3.83   | 3.72   | 4.30   | 3.32   |
| γ 127.0 | 3.92   | 3.83   | 4.27   | 3.51   |
| γ 128.0 | 3.94   | 3.97   | 4.05   | 3.49   |
| γ 129.0 | 3.82   | 3.96   | 3.84   | 3.60   |
| γ 130.0 | 3.77   | 3.86   | 4.07   | 3.87   |
| γ 131.0 | 3.91   | 4.02   | 4.29   | 3.85   |
| γ 132.0 | 3.91   | 3.91   | 4.08   | 3.73   |
| γ 133.0 | 3.87   | 3.86   | 4.07   | 3.84   |
| γ 134.0 | 3.86   | 4.01   | 4.18   | 3.69   |
| γ 135.0 | 3.93   | 4.22   | 4.10   | 4.14   |
| γ 136.0 | 4.07   | 4.05   | 4.12   | 3.94   |
| γ 137.0 | 4.08   | 4.02   | 4.24   | 3.96   |
| γ 138.0 | 3.97   | 4.10   | 4.18   | 3.93   |
| γ 139.0 | 3.92   | 4.25   | 4.13   | 3.97   |
| γ 140.0 | 4.03   | 4.17   | 4.28   | 3.89   |
| γ 141.0 | 4.16   | 4.14   | 4.38   | 4.34   |
| γ 142.0 | 4.41   | 4.21   | 4.22   | 4.14   |
| γ 143.0 | 4.54   | 4.25   | 4.27   | 4.20   |
| γ 144.0 | 4.55   | 4.62   | 4.38   | 4.37   |
| γ 145.0 | 4.56   | 4.45   | 4.36   | 4.04   |
| γ 146.0 | 4.57   | 4.49   | 4.46   | 4.24   |

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## Candela Tabulation - (Cont.)

| V/H      | C270. 0 | C292. 5 | C315. 0 | C337. 5 |
|----------|---------|---------|---------|---------|
| γ 147. 0 | 4. 53   | 4. 56   | 4. 45   | 4. 38   |
| γ 148. 0 | 4. 47   | 4. 57   | 4. 49   | 4. 73   |
| γ 149. 0 | 4. 48   | 4. 66   | 4. 63   | 4. 30   |
| γ 150. 0 | 4. 48   | 4. 70   | 4. 74   | 4. 41   |
| γ 151. 0 | 4. 32   | 4. 91   | 4. 82   | 4. 34   |
| γ 152. 0 | 4. 31   | 4. 83   | 4. 69   | 4. 43   |
| γ 153. 0 | 4. 46   | 4. 71   | 4. 56   | 4. 33   |
| γ 154. 0 | 4. 60   | 4. 81   | 4. 62   | 4. 70   |
| γ 155. 0 | 4. 60   | 4. 68   | 4. 64   | 4. 76   |
| γ 156. 0 | 4. 59   | 4. 92   | 4. 63   | 4. 72   |
| γ 157. 0 | 4. 75   | 4. 91   | 4. 64   | 4. 97   |
| γ 158. 0 | 4. 80   | 4. 90   | 4. 80   | 4. 95   |
| γ 159. 0 | 4. 88   | 4. 99   | 4. 87   | 5. 04   |
| γ 160. 0 | 4. 98   | 5. 22   | 4. 84   | 5. 08   |
| γ 161. 0 | 4. 81   | 5. 24   | 4. 95   | 5. 00   |
| γ 162. 0 | 4. 87   | 5. 12   | 4. 99   | 5. 10   |
| γ 163. 0 | 5. 02   | 5. 17   | 4. 81   | 5. 21   |
| γ 164. 0 | 4. 97   | 5. 32   | 4. 77   | 5. 18   |
| γ 165. 0 | 5. 06   | 5. 37   | 4. 89   | 5. 18   |
| γ 166. 0 | 5. 03   | 5. 26   | 4. 99   | 5. 28   |
| γ 167. 0 | 4. 85   | 5. 23   | 5. 06   | 5. 16   |
| γ 168. 0 | 4. 96   | 5. 31   | 5. 08   | 5. 36   |
| γ 169. 0 | 5. 16   | 5. 56   | 5. 16   | 5. 38   |
| γ 170. 0 | 5. 12   | 5. 40   | 5. 12   | 5. 01   |
| γ 171. 0 | 5. 26   | 5. 72   | 5. 15   | 5. 18   |
| γ 172. 0 | 5. 34   | 5. 53   | 5. 09   | 5. 22   |
| γ 173. 0 | 5. 31   | 5. 45   | 5. 19   | 5. 36   |
| γ 174. 0 | 5. 39   | 5. 57   | 5. 30   | 5. 31   |
| γ 175. 0 | 5. 59   | 5. 61   | 5. 26   | 5. 48   |
| γ 176. 0 | 5. 73   | 5. 88   | 5. 28   | 5. 52   |
| γ 177. 0 | 5. 74   | 5. 78   | 5. 29   | 5. 47   |
| γ 178. 0 | 5. 66   | 5. 81   | 5. 30   | 5. 26   |
| γ 179. 0 | 5. 47   | 5. 91   | 5. 25   | 5. 20   |
| γ 180. 0 | 5. 50   | 5. 50   | 5. 50   | 5. 50   |

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