

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                    |                        |
|------------------------------------|------------------------|
| Maximum Intensity                  | 2464.4 cd per klm.     |
| (Luminaire orientation as tested.) | 0.0 degrees vertical   |
|                                    | 0.0 degrees horizontal |

|             |                |               |
|-------------|----------------|---------------|
| Beam Spread | At 10% of Imax | 54.5V x 54.6H |
|             | At 50% of Imax | 37.9V x 38.5H |
|             | At 90% of Imax | 19.9V x 20.6H |

|           |                |                        |
|-----------|----------------|------------------------|
| Beam Flux | Total          | 1000.4 lumens per klm. |
|           | To 10% of Imax | 888.4 lumens per klm.  |
|           | To 50% of Imax | 659.1 lumens per klm.  |
|           | To 90% of Imax | 226.9 lumens per klm.  |

|              |        |
|--------------|--------|
| Upward LOR   | 1.4 %  |
| Downward LOR | 98.6 % |

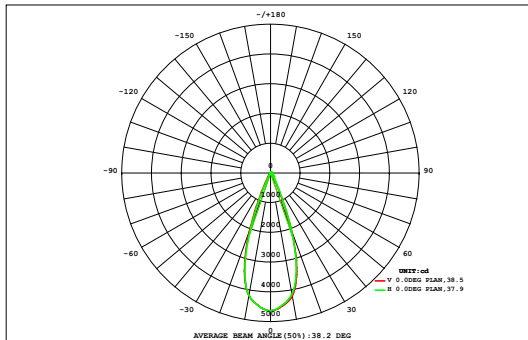
|                                          |         |
|------------------------------------------|---------|
| Luminaire Efficiency(Light Output Ratio) | 100.0 % |
|------------------------------------------|---------|

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-03-23

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.352  
Humidity:65.0%  
Test Distance:13.563m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                               |                       |                                |
|-------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Test:U:12.17V I:2.247A P:21.07W PF:0.7702 Freq:59.98Hz Lamp Flux:1878.75x1 lm |                       |                                |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Brass Spot Light | WEIGHT:                        |
| SPEC.:23W 3000K 40°LENS                                                       | DIM.:                 | SERIAL No.:1                   |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                 | Shielding Angle:Uplight Shroud |



| DATA OF LAMP      |                | Eff:89.19lm/W    |          |
|-------------------|----------------|------------------|----------|
| MODEL             | D0B1-23W-30K-A | Imax (cd)        | 4630     |
| NOMINAL POWER (W) | 23             | AVAILABILITY (%) | 88.7     |
| RATED VOLTAGE (V) | 12             | Avai. FLUX (lm)  | 1666     |
| NOMINAL FLUX (lm) | 1878.75        | LOR (%)          | 100.0    |
| LAMPS INSIDE      | 1              | TOTAL FLUX (lm)  | 1879     |
| TEST VOLTAGE (V)  | 12             | θ @50% (H,V)     | 38,38DEG |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      | UNIT:lm |      | Φ t  | Φ a  |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|---------|------|------|------|
|                | 0.09              | 0.16 | 0.25 | 0.38 | 0.53 | 0.68 | 0.83 | 0.94 | 1.00             | 0.99 | 0.93 | 0.81 | 0.68 | 0.53 | 0.38 | 0.25 | 0.16    | 0.09 | 9.69 | 0.00 |
| 45             | 0.12              | 0.22 | 0.36 | 0.55 | 0.78 | 1.03 | 1.26 | 1.46 | 1.56             | 1.56 | 1.45 | 1.25 | 1.01 | 0.76 | 0.54 | 0.36 | 0.22    | 0.12 | 14.6 | 0.00 |
| 40             | 0.16              | 0.29 | 0.49 | 0.77 | 1.13 | 1.53 | 1.92 | 2.22 | 2.39             | 2.40 | 2.23 | 1.91 | 1.51 | 1.10 | 0.75 | 0.49 | 0.29    | 0.16 | 21.7 | 0.00 |
| 35             | 0.19              | 0.37 | 0.64 | 1.06 | 1.61 | 2.28 | 3.00 | 3.78 | 4.36             | 4.36 | 3.78 | 3.00 | 2.26 | 1.58 | 1.04 | 0.64 | 0.37    | 0.20 | 34.5 | 13.7 |
| 30             | 0.23              | 0.44 | 0.81 | 1.42 | 2.31 | 3.67 | 6.03 | 8.75 | 10.6             | 10.6 | 8.69 | 5.96 | 3.63 | 2.28 | 1.39 | 0.81 | 0.45    | 0.23 | 68.3 | 55.3 |
| 25             | 0.26              | 0.52 | 1.00 | 1.85 | 3.49 | 7.14 | 12.7 | 17.7 | 20.5             | 20.4 | 17.6 | 12.6 | 6.97 | 3.44 | 1.83 | 0.99 | 0.52    | 0.26 | 130  | 120  |
| 20             | 0.27              | 0.57 | 1.16 | 2.37 | 5.56 | 12.5 | 20.3 | 25.9 | 28.6             | 28.4 | 25.7 | 20.1 | 12.3 | 5.47 | 2.38 | 1.16 | 0.57    | 0.28 | 194  | 185  |
| 15             | 0.27              | 0.58 | 1.25 | 2.91 | 8.06 | 17.2 | 25.7 | 30.7 | 32.7             | 32.7 | 30.6 | 25.5 | 17.1 | 7.99 | 2.94 | 1.27 | 0.59    | 0.27 | 238  | 231  |
| 10             | 0.25              | 0.55 | 1.24 | 3.24 | 9.60 | 19.7 | 28.1 | 32.6 | 34.4             | 34.4 | 32.7 | 28.2 | 19.8 | 9.58 | 3.21 | 1.23 | 0.55    | 0.25 | 260  | 253  |
| 5              | 0.21              | 0.49 | 1.12 | 3.11 | 9.53 | 19.8 | 28.3 | 32.7 | 34.6             | 34.6 | 32.8 | 28.4 | 19.9 | 9.50 | 3.01 | 1.07 | 0.47    | 0.21 | 260  | 253  |
| 0              | 0.17              | 0.39 | 0.89 | 2.38 | 7.56 | 16.9 | 25.7 | 30.9 | 32.9             | 33.0 | 31.1 | 25.9 | 17.0 | 7.38 | 2.26 | 0.83 | 0.36    | 0.16 | 236  | 230  |
| -5             | 0.13              | 0.28 | 0.61 | 1.50 | 4.65 | 11.7 | 19.9 | 25.8 | 28.6             | 28.7 | 26.0 | 20.1 | 11.6 | 4.38 | 1.38 | 0.56 | 0.26    | 0.12 | 186  | 180  |
| -10            | 0.08              | 0.17 | 0.38 | 0.83 | 2.12 | 5.77 | 11.6 | 16.9 | 19.8             | 19.9 | 17.0 | 11.5 | 5.50 | 1.95 | 0.75 | 0.35 | 0.17    | 0.08 | 115  | 108  |
| -15            | 0.05              | 0.10 | 0.20 | 0.41 | 0.84 | 1.93 | 4.13 | 6.91 | 8.70             | 8.67 | 6.82 | 3.96 | 1.79 | 0.77 | 0.37 | 0.19 | 0.10    | 0.05 | 46.0 | 37.1 |
| -20            | 0.04              | 0.05 | 0.10 | 0.18 | 0.33 | 0.58 | 1.02 | 1.59 | 2.04             | 2.03 | 1.54 | 0.95 | 0.54 | 0.30 | 0.17 | 0.09 | 0.05    | 0.03 | 11.6 | 0.90 |
| -25            | 0.03              | 0.03 | 0.04 | 0.07 | 0.11 | 0.18 | 0.27 | 0.35 | 0.41             | 0.40 | 0.33 | 0.25 | 0.17 | 0.10 | 0.06 | 0.04 | 0.03    | 0.03 | 2.91 | 0.00 |
| -30            | 0.02              | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.06 | 0.07 | 0.08             | 0.08 | 0.07 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03    | 0.02 | 0.78 | 0.00 |
| -35            | 0.02              | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02             | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02    | 0.02 | 0.41 | 0.00 |
| -40            | 0.02              | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02             | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02    | 0.02 | 0.41 | 0.00 |
| -45            | 0.02              | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02             | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02    | 0.02 | 0.41 | 0.00 |
|                | -45               | -40  | -35  | -30  | -25  | -20  | -15  | -10  | HORIZONTAL (DEG) | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45      |      |      |      |
| Φ t            | 2.59              | 5.26 | 10.6 | 23.1 | 58.3 | 123  | 191  | 239  | 263              | 263  | 239  | 190  | 122  | 57.2 | 22.5 | 10.4 | 5.18    | 2.58 | 1829 | ---  |
| Φ a            | 0.00              | 0.00 | 0.00 | 5.83 | 46.8 | 113  | 182  | 231  | 255              | 256  | 231  | 182  | 112  | 45.7 | 5.47 | 0.00 | 0.00    | 0.00 | ---  | 1666 |

one-half-peak spread: U:18.9,D:19.2 , L:19.3,R:19.3

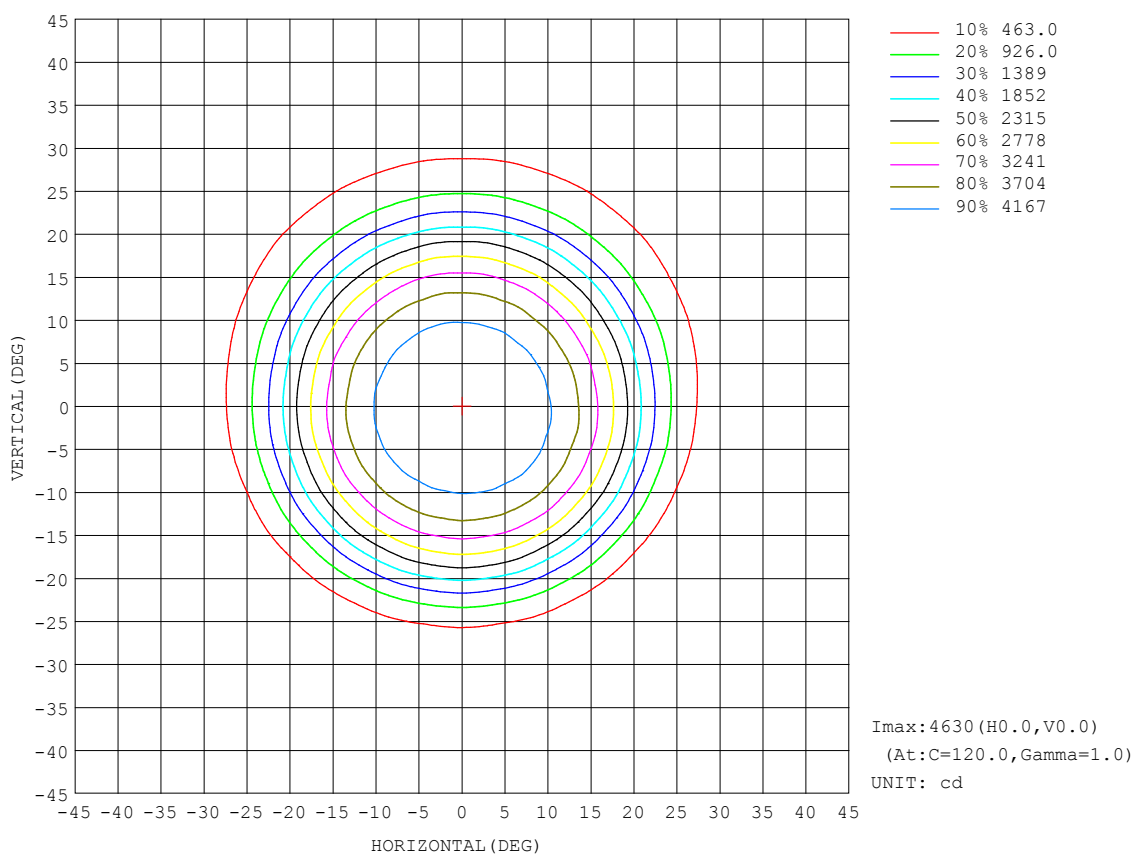
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-03-23

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.352  
Humidity:65.0%  
Test Distance:13.563m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                               |                       |                                |
|-------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Test:U:12.17V I:2.247A P:21.07W PF:0.7702 Freq:59.98Hz Lamp Flux:1878.75x1 lm |                       |                                |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Brass Spot Light | WEIGHT:                        |
| SPEC.:23W 3000K 40°LENS                                                       | DIM.:                 | SERIAL No.:1                   |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                 | Shielding Angle:Uplight Shroud |

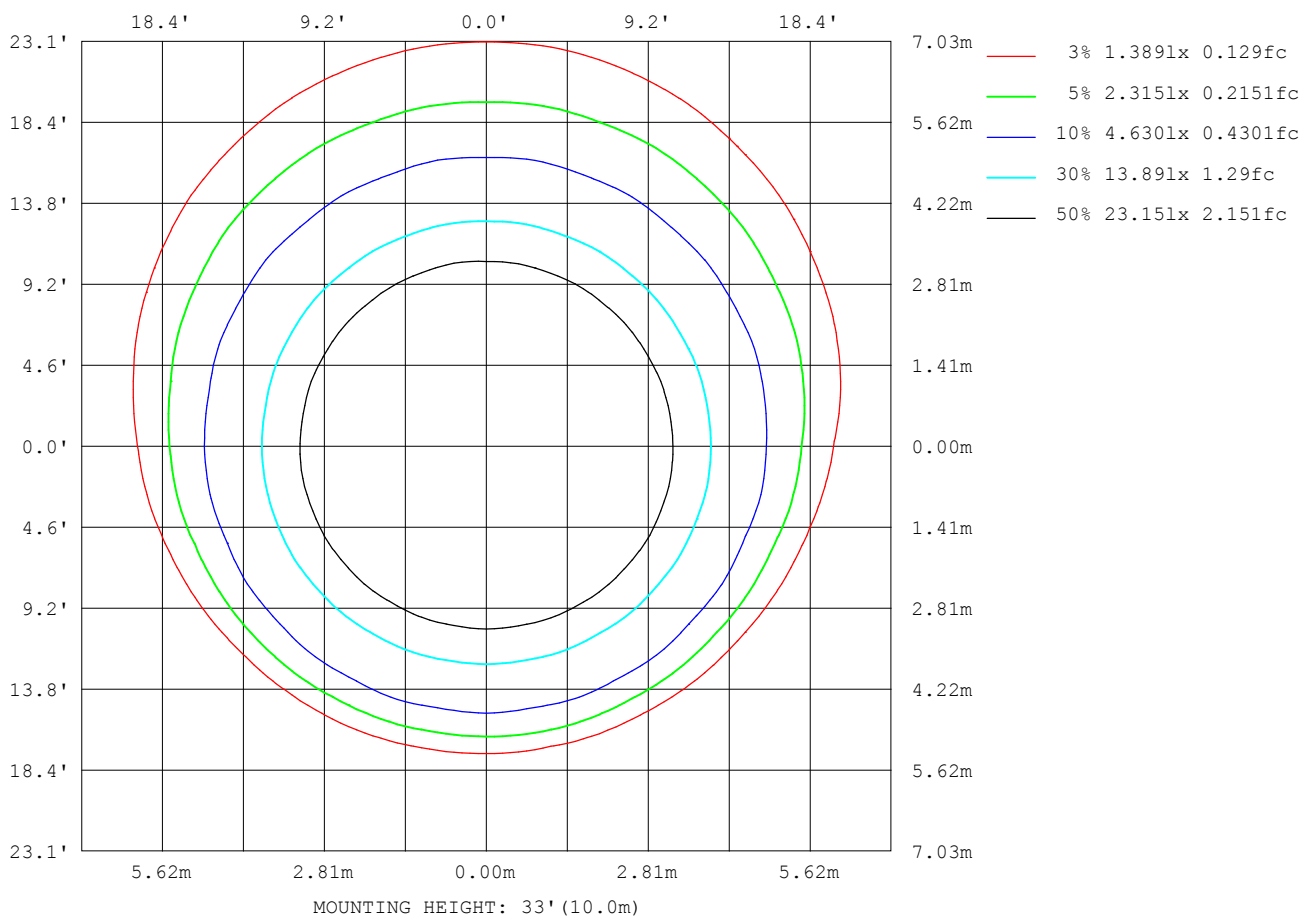


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-03-23

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.352  
Humidity:65.0%  
Test Distance:13.563m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

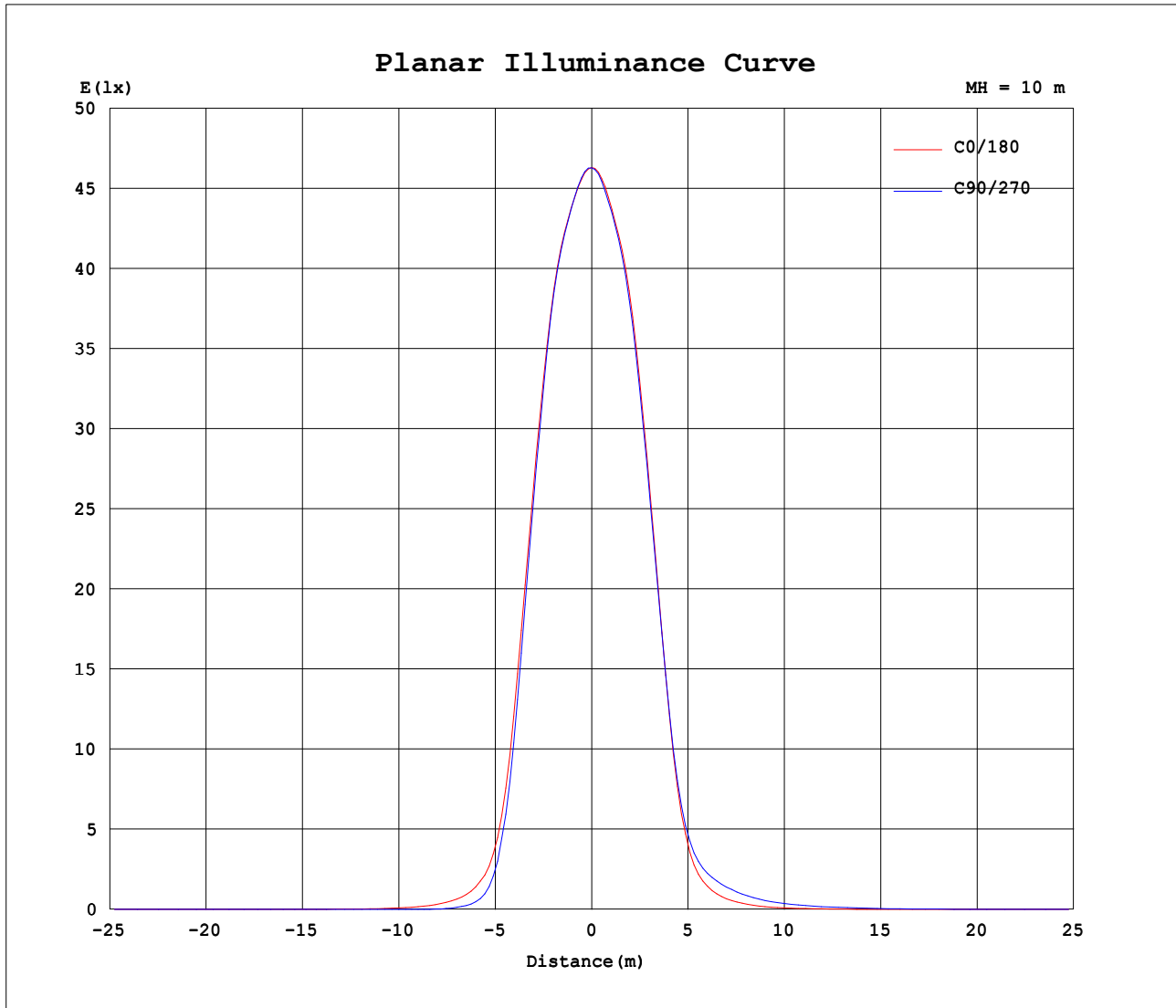
|                                                                               |                       |                                |
|-------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Test:U:12.17V I:2.247A P:21.07W PF:0.7702 Freq:59.98Hz Lamp Flux:1878.75x1 lm |                       |                                |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Brass Spot Light | WEIGHT:                        |
| SPEC.:23W 3000K 40°LENS                                                       | DIM.:                 | SERIAL No.:1                   |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                 | Shielding Angle:Uplight Shroud |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-03-23

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.352  
Humidity:65.0%  
Test Distance:13.563m [K=1.0000]  
Remarks:

### Planar Illuminance Curve

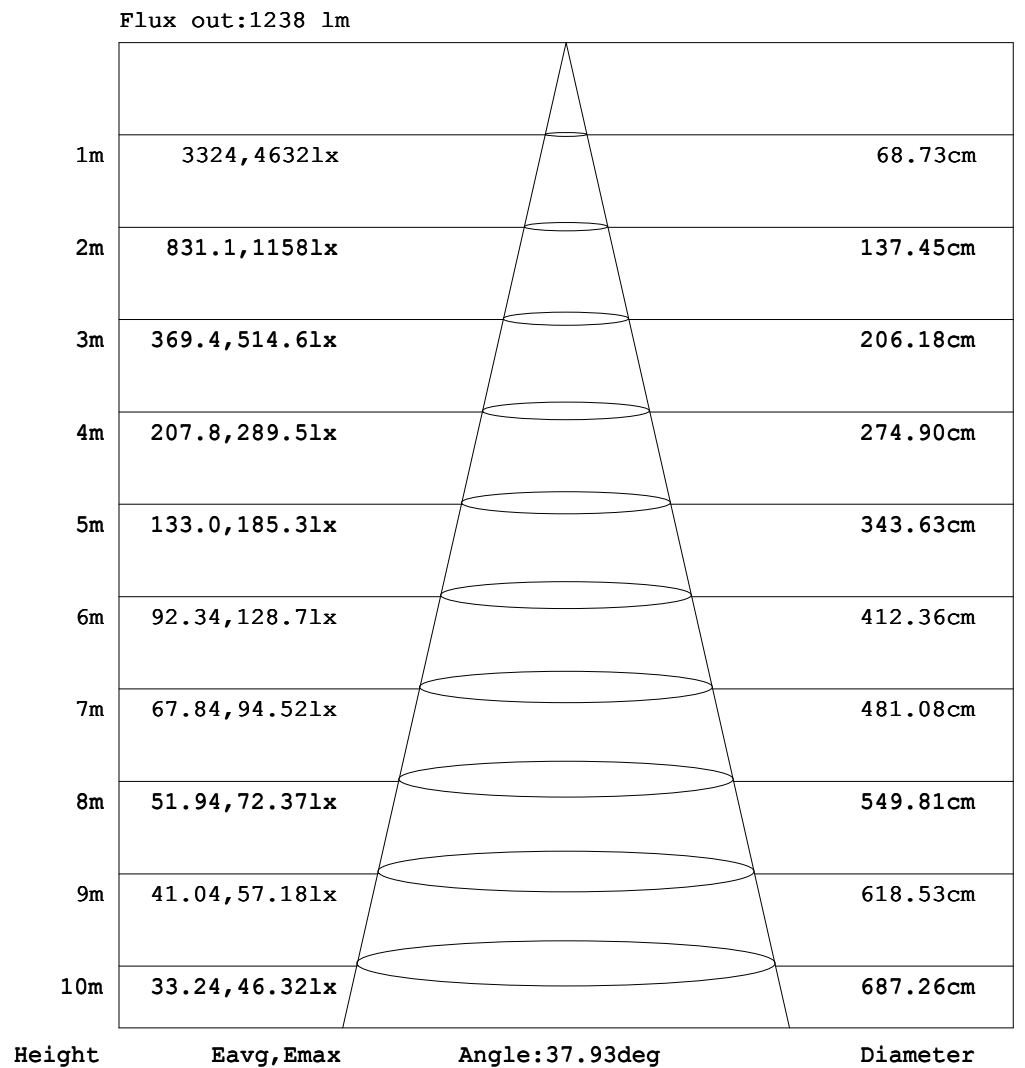


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-03-23

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.352  
Humidity:65.0%  
Test Distance:13.563m [K=1.0000]  
Remarks:

**AAI Figure**

|                                                                               |                       |                                |
|-------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Test:U:12.17V I:2.247A P:21.07W PF:0.7702 Freq:59.98Hz Lamp Flux:1878.75x1 lm |                       |                                |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Brass Spot Light | WEIGHT:                        |
| SPEC.:23W 3000K 40°LENS                                                       | DIM.:                 | SERIAL No.:1                   |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                 | Shielding Angle:Uplight Shroud |



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:ADMIN  
 Test Date:2026-03-23

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.352  
 Humidity:65.0%  
 Test Distance:13.563m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                               |                       |                                |
|-------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Test:U:12.17V I:2.247A P:21.07W PF:0.7702 Freq:59.98Hz Lamp Flux:1878.75x1 lm |                       |                                |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Brass Spot Light | WEIGHT:                        |
| SPEC.:23W 3000K 40°LENS                                                       | DIM.:                 | SERIAL No.:1                   |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                 | Shielding Angle:Uplight Shroud |

Table--1

UNIT: cd

| H (DEG)<br>V (DEG) | -90  | -85  | -80  | -75  | -70  | -65  | -60  | -55  | -50  | -45  | -40  | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -180               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.53 | 1.53 | 3.63 | 6.83 | 10.7 | 14.5 | 17.5 | 19.5 | 20.8 | 22.0 | 22.7 |
| -170               | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.12 | 0.29 | 0.73 | 1.87 | 4.27 | 7.43 | 11.2 | 15.4 | 19.4 | 22.6 | 24.6 | 25.1 | 24.9 | 24.8 |
| -160               | 0.00 | 0.00 | 0.00 | 0.03 | 0.08 | 0.21 | 0.42 | 0.79 | 1.59 | 3.17 | 5.57 | 8.59 | 12.0 | 15.5 | 18.7 | 21.3 | 23.1 | 24.2 | 24.5 |
| -150               | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.17 | 0.31 | 0.57 | 1.01 | 1.87 | 3.27 | 5.19 | 7.47 | 9.86 | 12.2 | 14.3 | 15.8 | 16.9 | 17.2 |
| -140               | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.11 | 0.19 | 0.38 | 0.64 | 0.98 | 1.52 | 2.37 | 3.43 | 4.66 | 5.94 | 7.07 | 8.00 | 8.59 | 8.78 |
| -130               | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.14 | 0.25 | 0.38 | 0.53 | 0.71 | 1.00 | 1.29 | 1.63 | 2.03 | 2.43 | 2.74 | 2.96 | 3.04 |
| -120               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.14 | 0.17 | 0.27 | 0.36 | 0.48 | 0.57 | 0.65 | 0.77 | 0.86 | 0.91 | 0.96 | 1.00 |
| -110               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.09 | 0.15 | 0.18 | 0.20 | 0.24 | 0.31 | 0.32 | 0.32 | 0.37 | 0.41 |
| -100               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.02 | 0.00 | 0.03 | 0.07 | 0.07 | 0.06 | 0.08 | 0.11 |
| -90                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -80                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -70                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -60                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -50                | 0.00 | 0.00 | 0.03 | 0.00 | 0.13 | 0.03 | 0.23 | 0.17 | 0.36 | 0.41 | 0.67 | 0.84 | 1.14 | 1.39 | 1.61 | 1.72 | 1.79 | 1.83 | 1.79 |
| -40                | 0.00 | 0.00 | 0.10 | 0.17 | 0.44 | 0.71 | 1.12 | 1.71 | 2.45 | 3.22 | 3.80 | 4.10 | 4.16 | 4.07 | 3.84 | 3.65 | 3.56 | 3.55 | 3.49 |
| -30                | 0.00 | 0.00 | 0.20 | 0.49 | 0.98 | 1.66 | 2.61 | 3.74 | 4.71 | 5.40 | 5.86 | 7.41 | 11.8 | 21.1 | 34.2 | 51.2 | 77.7 | 97.5 | 106  |
| -20                | 0.00 | 0.00 | 0.32 | 0.82 | 1.59 | 2.70 | 4.03 | 5.29 | 6.37 | 8.44 | 15.5 | 30.4 | 60.3 | 119  | 282  | 699  | 1264 | 1748 | 1928 |
| -10                | 0.00 | 0.00 | 0.46 | 1.13 | 2.17 | 3.57 | 5.08 | 6.48 | 9.29 | 18.1 | 36.0 | 78.5 | 168  | 463  | 1392 | 2638 | 3568 | 4035 | 4186 |
| 0                  | 0.00 | 0.00 | 0.58 | 1.38 | 2.63 | 4.18 | 5.77 | 7.48 | 13.8 | 28.1 | 59.2 | 122  | 273  | 801  | 2088 | 3409 | 4188 | 4495 | 4630 |
| 10                 | 0.00 | 0.05 | 0.69 | 1.58 | 2.91 | 4.52 | 6.16 | 8.74 | 16.7 | 32.8 | 67.1 | 131  | 264  | 597  | 1474 | 2666 | 3563 | 4024 | 4141 |
| 20                 | 0.00 | 0.10 | 0.74 | 1.67 | 3.01 | 4.60 | 6.20 | 8.79 | 16.2 | 30.9 | 58.3 | 105  | 183  | 306  | 501  | 903  | 1477 | 1925 | 2076 |
| 30                 | 0.00 | 0.13 | 0.75 | 1.64 | 2.92 | 4.35 | 5.82 | 7.64 | 13.0 | 23.3 | 40.8 | 68.8 | 109  | 161  | 222  | 288  | 340  | 386  | 397  |
| 40                 | 0.00 | 0.15 | 0.70 | 1.54 | 2.60 | 3.88 | 5.23 | 6.54 | 9.10 | 14.7 | 24.3 | 38.1 | 56.9 | 78.6 | 103  | 126  | 146  | 160  | 164  |
| 50                 | 0.00 | 0.15 | 0.63 | 1.34 | 2.19 | 3.27 | 4.38 | 5.48 | 6.60 | 8.52 | 12.3 | 18.0 | 25.5 | 34.5 | 44.3 | 53.9 | 61.7 | 66.4 | 68.0 |
| 60                 | 0.00 | 0.14 | 0.53 | 1.09 | 1.75 | 2.55 | 3.43 | 4.32 | 5.11 | 5.86 | 6.72 | 7.97 | 9.94 | 12.4 | 15.2 | 17.9 | 20.3 | 21.6 | 22.2 |
| 70                 | 0.00 | 0.12 | 0.40 | 0.84 | 1.30 | 1.87 | 2.45 | 3.07 | 3.68 | 4.24 | 4.72 | 5.11 | 5.45 | 5.75 | 6.06 | 6.30 | 6.53 | 6.62 | 6.64 |
| 80                 | 0.00 | 0.10 | 0.26 | 0.55 | 0.88 | 1.26 | 1.64 | 1.98 | 2.31 | 2.65 | 2.98 | 3.23 | 3.45 | 3.65 | 3.84 | 3.95 | 4.05 | 4.07 | 4.07 |
| 90                 | 0.00 | 0.06 | 0.12 | 0.33 | 0.54 | 0.77 | 1.00 | 1.16 | 1.33 | 1.50 | 1.67 | 1.75 | 1.82 | 1.90 | 1.98 | 2.00 | 2.02 | 2.03 | 2.04 |
| 100                | 0.00 | 0.03 | 0.01 | 0.14 | 0.21 | 0.35 | 0.49 | 0.58 | 0.65 | 0.73 | 0.84 | 0.85 | 0.88 | 0.91 | 0.94 | 0.92 | 0.90 | 0.90 | 0.91 |
| 110                | 0.00 | 0.01 | 0.00 | 0.04 | 0.01 | 0.09 | 0.13 | 0.14 | 0.16 | 0.20 | 0.26 | 0.27 | 0.26 | 0.29 | 0.30 | 0.27 | 0.24 | 0.24 | 0.26 |
| 120                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 140                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.26 | 0.67 | 1.21 | 1.79 | 2.32 | 2.68 | 2.81 |
| 150                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.37 | 1.14 | 2.38 | 4.01 | 5.80 | 7.46 | 8.87 | 9.70 | 10.1 |
| 160                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.54 | 1.58 | 3.45 | 6.06 | 8.99 | 11.8 | 14.1 | 15.7 | 16.7 | 17.1 |
| 170                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.32 | 1.13 | 2.94 | 5.80 | 9.33 | 12.9 | 15.9 | 18.0 | 19.0 | 19.5 | 19.9 |
| 180                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.53 | 1.53 | 3.63 | 6.83 | 10.7 | 14.5 | 17.5 | 19.5 | 20.8 | 22.0 | 22.6 |

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-03-23

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.352  
Humidity:65.0%  
Test Distance:13.563m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                               |                       |                                |
|-------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Test:U:12.17V I:2.247A P:21.07W PF:0.7702 Freq:59.98Hz Lamp Flux:1878.75x1 lm |                       |                                |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Brass Spot Light | WEIGHT:                        |
| SPEC.:23W 3000K 40°LENS                                                       | DIM.:                 | SERIAL No.:1                   |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                 | Shielding Angle:Uplight Shroud |

Table--2

UNIT: cd

| H (DEG)<br>V (DEG) | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| -180               | 23.3 | 24.0 | 24.5 | 23.4 | 20.5 | 16.5 | 12.1 | 8.02 | 4.64 | 2.25 | 0.92 | 0.42 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -170               | 25.2 | 25.2 | 24.6 | 22.6 | 19.4 | 15.4 | 11.2 | 7.41 | 4.28 | 2.13 | 0.94 | 0.45 | 0.21 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 |  |
| -160               | 24.2 | 23.1 | 21.3 | 18.7 | 15.5 | 12.0 | 8.61 | 5.59 | 3.18 | 1.59 | 0.78 | 0.41 | 0.22 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 |  |
| -150               | 16.9 | 15.8 | 14.3 | 12.2 | 9.90 | 7.53 | 5.22 | 3.30 | 1.89 | 1.03 | 0.56 | 0.31 | 0.17 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 |  |
| -140               | 8.61 | 8.01 | 7.09 | 5.96 | 4.70 | 3.47 | 2.39 | 1.54 | 0.99 | 0.64 | 0.38 | 0.21 | 0.13 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 |  |
| -130               | 2.96 | 2.75 | 2.45 | 2.05 | 1.65 | 1.31 | 1.01 | 0.73 | 0.55 | 0.39 | 0.25 | 0.16 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -120               | 0.97 | 0.92 | 0.88 | 0.78 | 0.65 | 0.57 | 0.49 | 0.36 | 0.26 | 0.18 | 0.14 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -110               | 0.37 | 0.33 | 0.33 | 0.32 | 0.25 | 0.19 | 0.17 | 0.14 | 0.09 | 0.04 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -100               | 0.08 | 0.05 | 0.06 | 0.08 | 0.04 | 0.00 | 0.02 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -90                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -80                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -70                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 |  |
| -60                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.03 | 0.04 | 0.00 |  |
| -50                | 1.82 | 1.76 | 1.67 | 1.59 | 1.39 | 1.18 | 0.93 | 0.75 | 0.51 | 0.42 | 0.23 | 0.29 | 0.10 | 0.17 | 0.06 | 0.09 | 0.07 | 0.00 |  |
| -40                | 3.57 | 3.60 | 3.68 | 3.89 | 4.09 | 4.16 | 4.08 | 3.74 | 3.15 | 2.45 | 1.75 | 1.17 | 0.78 | 0.48 | 0.24 | 0.18 | 0.11 | 0.00 |  |
| -30                | 93.7 | 72.3 | 48.1 | 32.2 | 19.7 | 11.1 | 7.26 | 5.67 | 5.19 | 4.52 | 3.59 | 2.58 | 1.68 | 1.03 | 0.59 | 0.30 | 0.15 | 0.00 |  |
| -20                | 1745 | 1251 | 669  | 258  | 109  | 54.6 | 28.8 | 14.8 | 8.08 | 6.05 | 5.00 | 3.85 | 2.65 | 1.64 | 0.94 | 0.47 | 0.19 | 0.00 |  |
| -10                | 4068 | 3599 | 2661 | 1367 | 433  | 156  | 72.4 | 34.4 | 17.5 | 8.91 | 6.10 | 4.82 | 3.48 | 2.21 | 1.26 | 0.63 | 0.22 | 0.00 |  |
| 0                  | 4497 | 4205 | 3421 | 2102 | 787  | 272  | 118  | 56.8 | 27.4 | 13.4 | 7.13 | 5.49 | 4.09 | 2.67 | 1.52 | 0.77 | 0.25 | 0.00 |  |
| 10                 | 4003 | 3539 | 2642 | 1453 | 593  | 266  | 133  | 68.4 | 33.5 | 17.0 | 8.59 | 5.86 | 4.40 | 2.93 | 1.69 | 0.85 | 0.28 | 0.00 |  |
| 20                 | 1920 | 1466 | 883  | 495  | 302  | 180  | 105  | 59.0 | 31.4 | 16.5 | 8.61 | 5.91 | 4.48 | 3.01 | 1.75 | 0.88 | 0.30 | 0.00 |  |
| 30                 | 387  | 341  | 287  | 219  | 157  | 107  | 68.5 | 40.8 | 23.6 | 13.1 | 7.39 | 5.58 | 4.24 | 2.89 | 1.70 | 0.87 | 0.30 | 0.00 |  |
| 40                 | 159  | 144  | 124  | 102  | 78.0 | 56.6 | 37.9 | 24.3 | 15.0 | 8.98 | 6.28 | 5.01 | 3.79 | 2.58 | 1.56 | 0.82 | 0.28 | 0.00 |  |
| 50                 | 66.1 | 61.1 | 53.4 | 43.8 | 33.9 | 25.1 | 17.7 | 12.3 | 8.41 | 6.31 | 5.24 | 4.22 | 3.18 | 2.17 | 1.35 | 0.72 | 0.25 | 0.00 |  |
| 60                 | 21.5 | 19.9 | 17.3 | 14.6 | 11.8 | 9.45 | 7.65 | 6.36 | 5.51 | 4.80 | 4.13 | 3.32 | 2.48 | 1.73 | 1.11 | 0.61 | 0.22 | 0.00 |  |
| 70                 | 6.51 | 6.32 | 6.04 | 5.72 | 5.36 | 4.99 | 4.66 | 4.32 | 3.90 | 3.44 | 2.91 | 2.38 | 1.80 | 1.29 | 0.87 | 0.47 | 0.18 | 0.00 |  |
| 80                 | 3.98 | 3.87 | 3.72 | 3.54 | 3.31 | 3.08 | 2.89 | 2.67 | 2.39 | 2.12 | 1.84 | 1.58 | 1.23 | 0.90 | 0.60 | 0.33 | 0.12 | 0.00 |  |
| 90                 | 1.96 | 1.87 | 1.82 | 1.76 | 1.64 | 1.52 | 1.47 | 1.43 | 1.32 | 1.22 | 1.09 | 0.97 | 0.76 | 0.55 | 0.37 | 0.18 | 0.09 | 0.00 |  |
| 100                | 0.85 | 0.80 | 0.79 | 0.78 | 0.72 | 0.67 | 0.68 | 0.67 | 0.60 | 0.55 | 0.51 | 0.48 | 0.35 | 0.24 | 0.16 | 0.06 | 0.06 | 0.00 |  |
| 110                | 0.21 | 0.18 | 0.18 | 0.18 | 0.16 | 0.13 | 0.14 | 0.16 | 0.13 | 0.11 | 0.12 | 0.13 | 0.09 | 0.03 | 0.05 | 0.00 | 0.03 | 0.00 |  |
| 120                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |  |
| 130                | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 140                | 2.68 | 2.34 | 1.82 | 1.25 | 0.69 | 0.28 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 150                | 9.73 | 8.92 | 7.52 | 5.85 | 4.08 | 2.44 | 1.18 | 0.40 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 160                | 16.9 | 16.0 | 14.3 | 12.0 | 9.09 | 6.13 | 3.50 | 1.61 | 0.56 | 0.11 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 170                | 20.1 | 19.4 | 18.3 | 16.2 | 13.1 | 9.41 | 5.82 | 2.97 | 1.19 | 0.59 | 0.26 | 0.16 | 0.08 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 180                | 23.3 | 24.0 | 24.5 | 23.4 | 20.5 | 16.5 | 12.1 | 8.02 | 4.64 | 2.25 | 0.92 | 0.42 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |  |

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