

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                    |                        |
|------------------------------------|------------------------|
| Maximum Intensity                  | 2788.2 cd per klm.     |
| (Luminaire orientation as tested.) | 0.0 degrees vertical   |
|                                    | 0.0 degrees horizontal |

|             |                |               |
|-------------|----------------|---------------|
| Beam Spread | At 10% of Imax | 52.3V x 52.8H |
|             | At 50% of Imax | 33.9V x 36.1H |
|             | At 90% of Imax | 18.8V x 20.0H |

|           |                |                        |
|-----------|----------------|------------------------|
| Beam Flux | Total          | 1000.4 lumens per klm. |
|           | To 10% of Imax | 895.7 lumens per klm.  |
|           | To 50% of Imax | 630.1 lumens per klm.  |
|           | To 90% of Imax | 236.4 lumens per klm.  |

|              |        |
|--------------|--------|
| Upward LOR   | 1.5 %  |
| Downward LOR | 98.6 % |

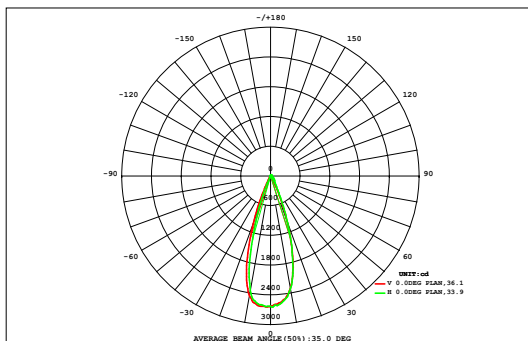
|                                          |         |
|------------------------------------------|---------|
| Luminaire Efficiency(Light Output Ratio) | 100.0 % |
|------------------------------------------|---------|

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-02-10

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:12.14V I:1.243A P:13.96W PF:0.9244 Freq:59.99Hz Lamp Flux:950.808x1 lm |                          |                                  |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Aluminum Spot Light | WEIGHT:                          |
| SPEC.:15W 2700K 40°LENS                                                       | DIM.:                    | SERIAL No.:1                     |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                    | Shielding Angle:Downlight Shroud |



| DATA OF LAMP      |                 | Eff:68.12lm/W    |          |
|-------------------|-----------------|------------------|----------|
| MODEL             | D5A2-15W-27K-BK | Imax (cd)        | 2651     |
| NOMINAL POWER (W) | 15              | AVAILABILITY (%) | 89.7     |
| RATED VOLTAGE (V) | 12              | Avai. FLUX (lm)  | 852.5    |
| NOMINAL FLUX (lm) | 950.808         | LOR (%)          | 100.0    |
| LAMPS INSIDE      | 1               | TOTAL FLUX (lm)  | 950.8    |
| TEST VOLTAGE (V)  | 12              | θ @50% (H,V)     | 36,34DEG |

| VERTICAL (DEG)                                                           | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT:lm |      | Φ t  | Φ a  |
|--------------------------------------------------------------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|------|
|                                                                          | 0.04              | 0.08 | 0.14 | 0.23 | 0.33 | 0.43 | 0.52 | 0.59 | 0.62 | 0.62 | 0.58 | 0.52 | 0.43 | 0.32 | 0.22 | 0.13 | 0.07    | 0.04 | 5.90 | 0.00 |
| 45                                                                       | 0.04              | 0.08 | 0.14 | 0.23 | 0.33 | 0.43 | 0.52 | 0.59 | 0.62 | 0.62 | 0.58 | 0.52 | 0.43 | 0.32 | 0.22 | 0.13 | 0.07    | 0.04 | 5.90 | 0.00 |
| 40                                                                       | 0.05              | 0.10 | 0.19 | 0.32 | 0.48 | 0.65 | 0.79 | 0.88 | 0.93 | 0.93 | 0.88 | 0.78 | 0.64 | 0.47 | 0.31 | 0.18 | 0.10    | 0.05 | 8.73 | 0.00 |
| 35                                                                       | 0.06              | 0.13 | 0.25 | 0.44 | 0.69 | 0.95 | 1.16 | 1.33 | 1.42 | 1.42 | 1.32 | 1.15 | 0.94 | 0.67 | 0.43 | 0.24 | 0.12    | 0.06 | 12.8 | 0.00 |
| 30                                                                       | 0.07              | 0.15 | 0.32 | 0.59 | 0.96 | 1.38 | 1.81 | 2.24 | 2.53 | 2.53 | 2.23 | 1.81 | 1.37 | 0.94 | 0.57 | 0.31 | 0.15    | 0.07 | 20.0 | 8.79 |
| 25                                                                       | 0.08              | 0.17 | 0.38 | 0.76 | 1.38 | 2.22 | 3.40 | 4.62 | 5.45 | 5.43 | 4.60 | 3.39 | 2.20 | 1.35 | 0.74 | 0.36 | 0.17    | 0.07 | 36.8 | 30.5 |
| 20                                                                       | 0.08              | 0.18 | 0.43 | 0.98 | 2.07 | 3.91 | 6.41 | 8.85 | 10.3 | 10.3 | 8.75 | 6.33 | 3.90 | 2.05 | 0.95 | 0.42 | 0.18    | 0.07 | 66.1 | 61.6 |
| 15                                                                       | 0.07              | 0.18 | 0.46 | 1.23 | 3.09 | 6.34 | 10.4 | 13.7 | 15.4 | 15.3 | 13.4 | 10.1 | 6.24 | 3.10 | 1.23 | 0.46 | 0.18    | 0.07 | 101  | 97.4 |
| 10                                                                       | 0.06              | 0.15 | 0.45 | 1.43 | 4.18 | 8.84 | 13.9 | 17.3 | 18.7 | 18.5 | 16.8 | 13.3 | 8.53 | 4.17 | 1.48 | 0.46 | 0.16    | 0.06 | 128  | 125  |
| 5                                                                        | 0.05              | 0.12 | 0.39 | 1.45 | 4.73 | 10.3 | 15.9 | 19.0 | 19.9 | 19.6 | 18.2 | 15.0 | 9.82 | 4.69 | 1.54 | 0.42 | 0.12    | 0.04 | 141  | 139  |
| 0                                                                        | 0.03              | 0.09 | 0.29 | 1.23 | 4.44 | 10.2 | 16.1 | 19.2 | 20.0 | 19.7 | 18.3 | 15.0 | 9.57 | 4.35 | 1.35 | 0.32 | 0.08    | 0.03 | 140  | 138  |
| -5                                                                       | 0.02              | 0.05 | 0.17 | 0.81 | 3.17 | 8.06 | 13.9 | 17.8 | 19.1 | 18.8 | 16.8 | 12.7 | 7.51 | 3.20 | 0.94 | 0.19 | 0.05    | 0.02 | 123  | 121  |
| -10                                                                      | 0.01              | 0.03 | 0.08 | 0.37 | 1.74 | 4.79 | 9.13 | 13.0 | 14.9 | 14.6 | 12.2 | 8.44 | 4.59 | 1.83 | 0.42 | 0.07 | 0.02    | 0.01 | 86.2 | 83.8 |
| -15                                                                      | 0.01              | 0.01 | 0.02 | 0.09 | 0.58 | 2.06 | 4.37 | 6.65 | 7.97 | 7.84 | 6.35 | 4.16 | 1.98 | 0.54 | 0.08 | 0.02 | 0.01    | 0.01 | 42.7 | 40.1 |
| -20                                                                      | 0.00              | 0.01 | 0.01 | 0.01 | 0.05 | 0.32 | 1.04 | 2.04 | 2.66 | 2.61 | 1.90 | 0.91 | 0.24 | 0.03 | 0.01 | 0.01 | 0.01    | 0.00 | 11.9 | 7.92 |
| -25                                                                      | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.06 | 0.05 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.21 | 0.00 |
| -30                                                                      | 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 | 0.01 | 0.00 |
| -35                                                                      | 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 | 0.00 |
| -40                                                                      | 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 | 0.00 |
| -45                                                                      | 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 | 0.00 |
| -45 -40 -35 -30 -25 -20 -15 -10 HORIZONTAL (DEG) 10 15 20 25 30 35 40 45 |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |      |      |      |
| Φ t                                                                      | 0.63              | 1.45 | 3.56 | 9.94 | 27.9 | 60.5 | 98.8 | 127  | 140  | 138  | 122  | 93.5 | 58.0 | 27.7 | 10.3 | 3.59 | 1.41    | 0.60 | 925  | ---  |
| Φ a                                                                      | 0.00              | 0.00 | 0.00 | 1.68 | 22.1 | 55.6 | 94.5 | 123  | 136  | 134  | 118  | 89.2 | 53.3 | 22.0 | 2.12 | 0.00 | 0.00    | 0.00 | ---  | 852  |

one-half-peak spread: U:11.1,D:15.0 , L:13.3,R:19.9

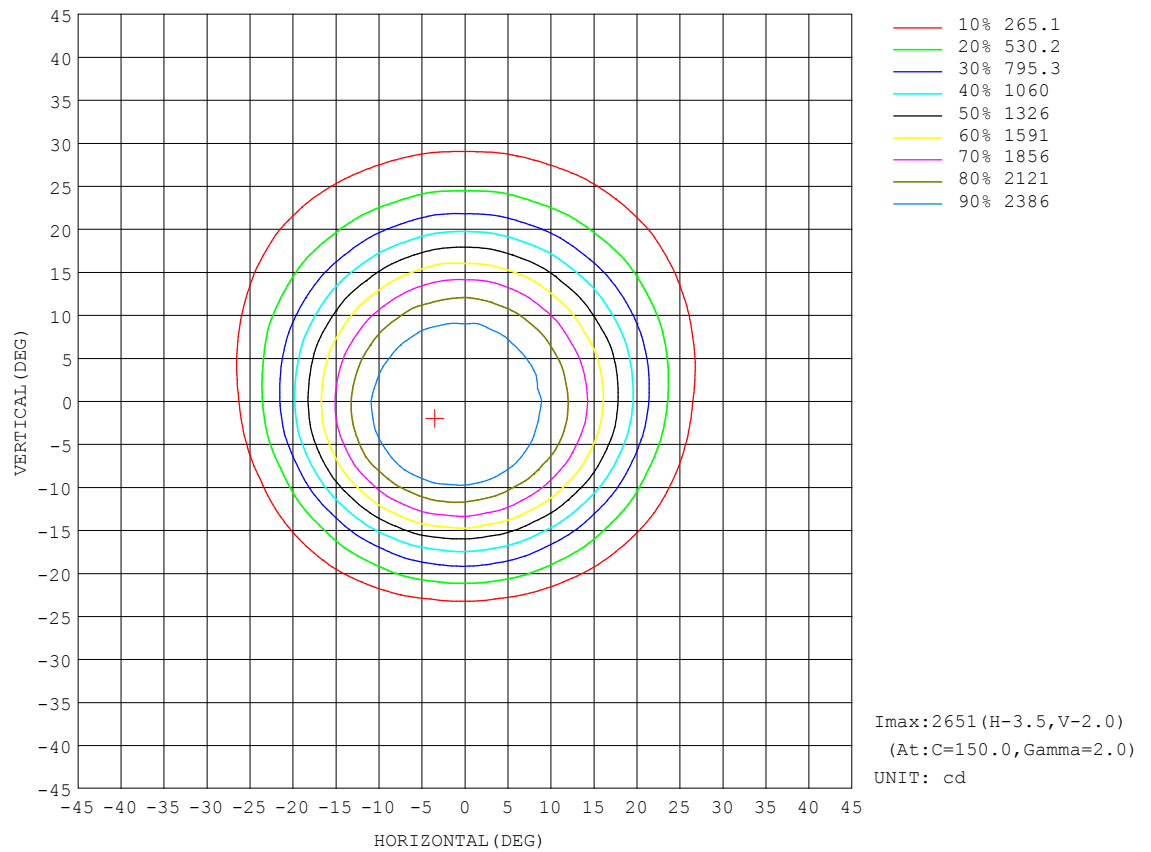
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-02-10

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:12.14V I:1.243A P:13.96W PF:0.9244 Freq:59.99Hz Lamp Flux:950.808x1 lm |                          |                                  |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Aluminum Spot Light | WEIGHT:                          |
| SPEC.:15W 2700K 40°LENS                                                       | DIM.:                    | SERIAL No.:1                     |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                    | Shielding Angle:Downlight Shroud |

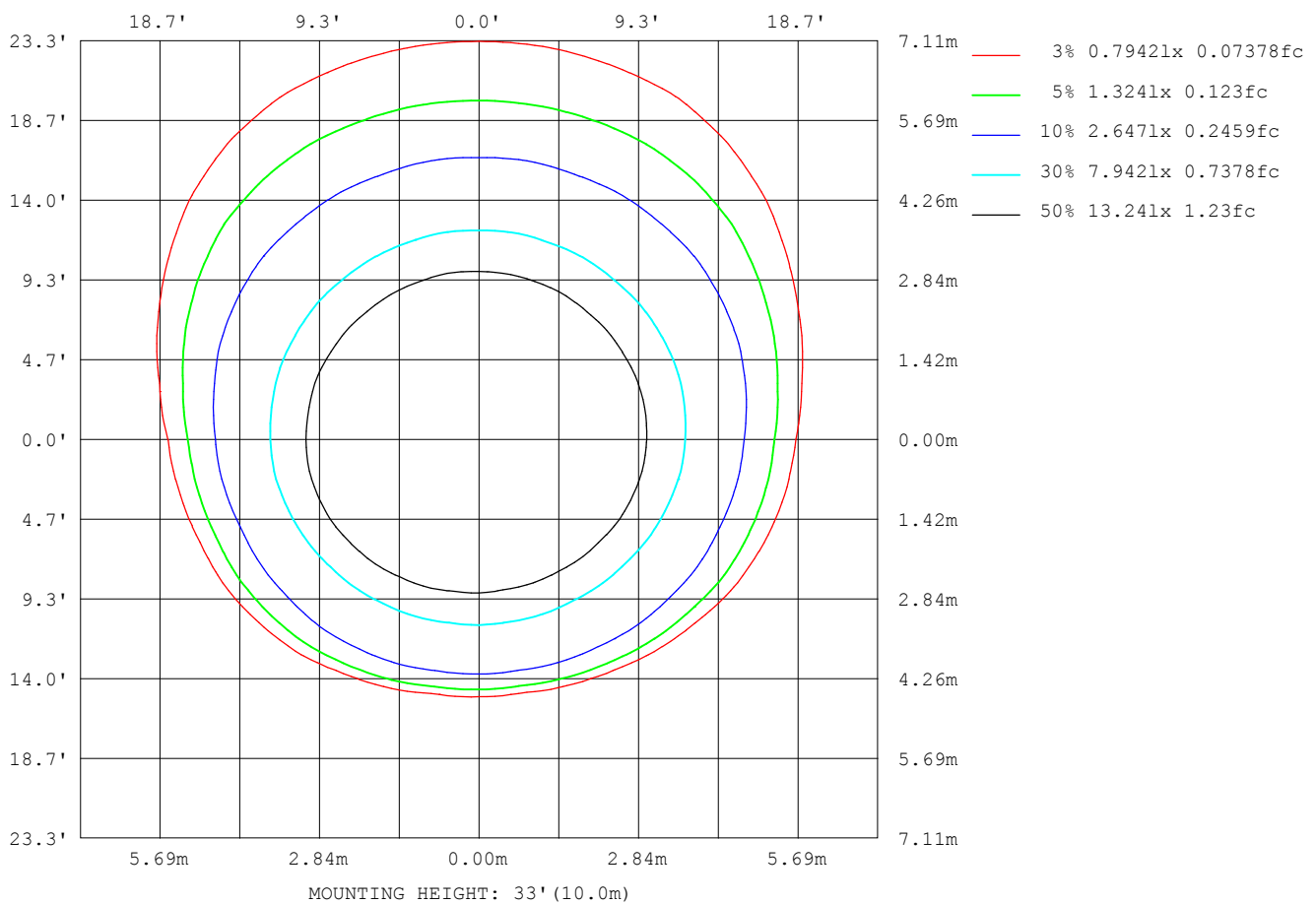


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-02-10

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

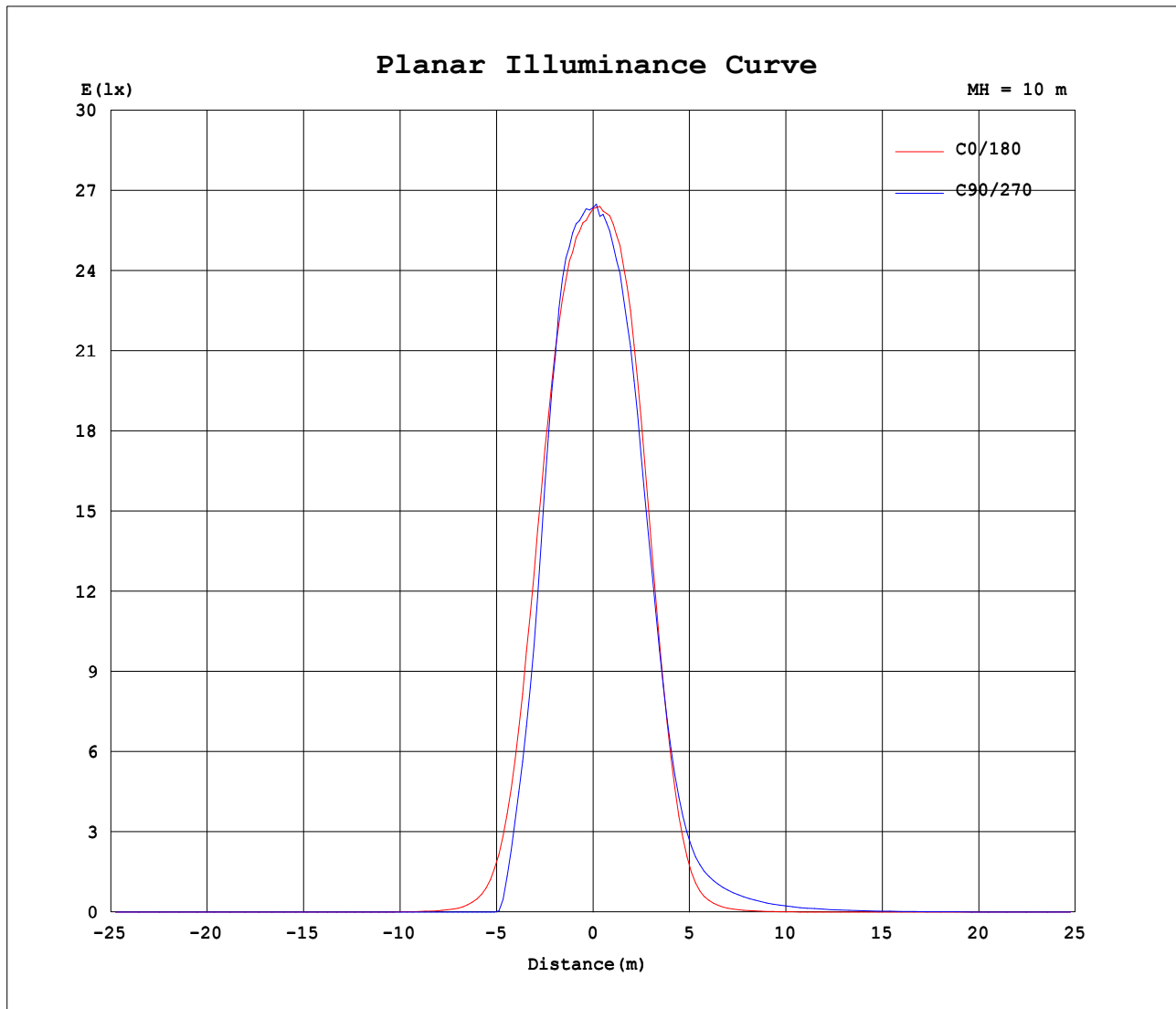
|                                                                               |                          |                                  |
|-------------------------------------------------------------------------------|--------------------------|----------------------------------|
| Test:U:12.14V I:1.243A P:13.96W PF:0.9244 Freq:59.99Hz Lamp Flux:950.808x1 lm |                          |                                  |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Aluminum Spot Light | WEIGHT:                          |
| SPEC.:15W 2700K 40°LENS                                                       | DIM.:                    | SERIAL No.:1                     |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                    | Shielding Angle:Downlight Shroud |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-02-10

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

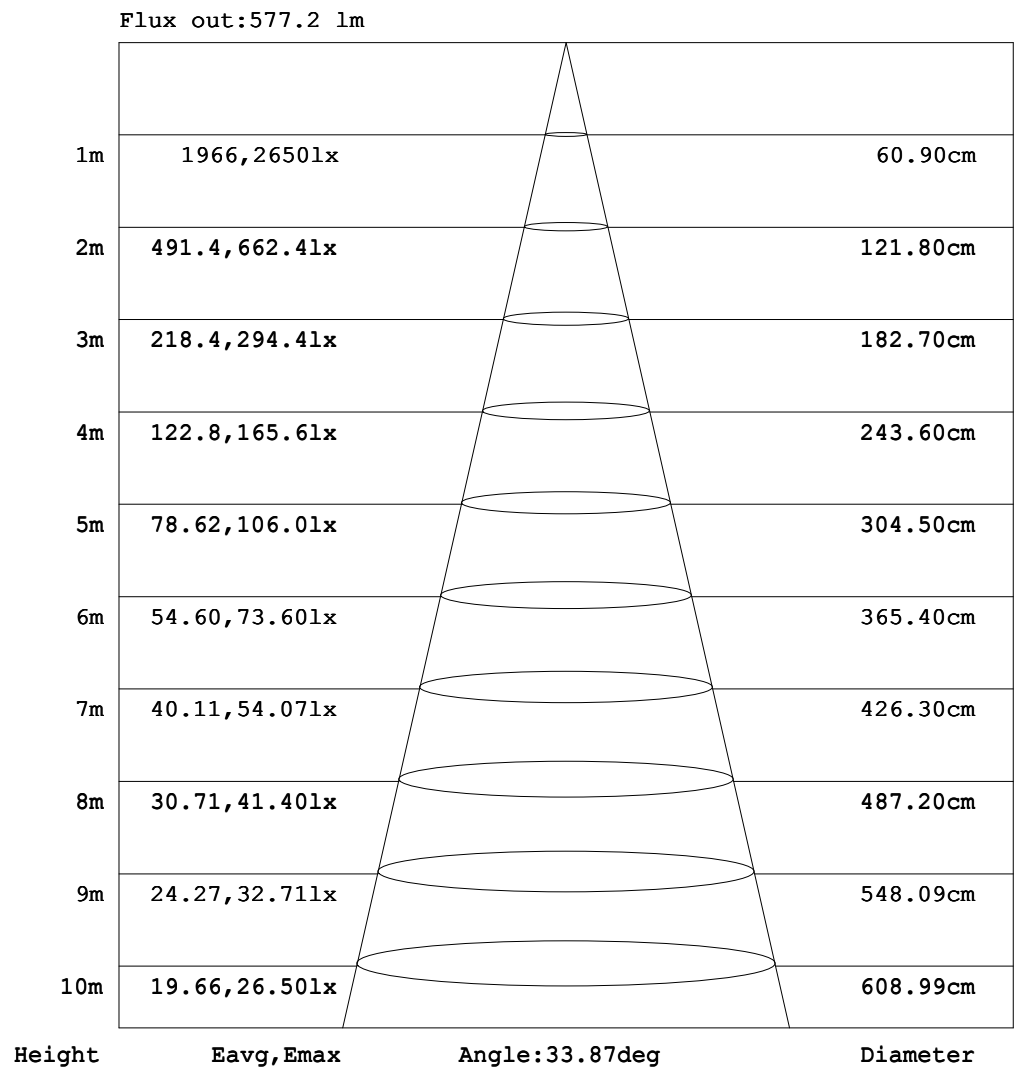


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-02-10

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:12.14V I:1.243A P:13.96W PF:0.9244 Freq:59.99Hz Lamp Flux:950.808x1 lm |                          |                                  |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Aluminum Spot Light | WEIGHT:                          |
| SPEC.:15W 2700K 40°LENS                                                       | DIM.:                    | SERIAL No.:1                     |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                    | Shielding Angle:Downlight 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:2026-02-10

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:12.14V I:1.243A P:13.96W PF:0.9244 Freq:59.99Hz Lamp Flux:950.808x1 lm |                          |                                  |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Aluminum Spot Light | WEIGHT:                          |
| SPEC.:15W 2700K 40°LENS                                                       | DIM.:                    | SERIAL No.:1                     |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                    | Shielding Angle:Downlight 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 | 0.00 | 0.04 | 0.53 | 1.58 | 3.20 | 5.30 | 7.63 | 9.85 | 11.7 | 13.0 | 14.0 | 14.5 |
| -170               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.20 | 0.72 | 1.93 | 3.58 | 5.60 | 7.92 | 10.3 | 12.4 | 13.9 | 14.7 | 14.9 | 14.9 |
| -160               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.20 | 0.60 | 1.41 | 2.66 | 4.29 | 6.16 | 8.12 | 10.0 | 11.7 | 12.9 | 13.7 | 14.0 |
| -150               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.34 | 0.81 | 1.55 | 2.55 | 3.78 | 5.10 | 6.42 | 7.59 | 8.55 | 9.16 | 9.42 |
| -140               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.17 | 0.36 | 0.68 | 1.12 | 1.71 | 2.37 | 3.04 | 3.68 | 4.20 | 4.53 | 4.66 |
| -130               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.11 | 0.23 | 0.42 | 0.60 | 0.81 | 1.03 | 1.26 | 1.40 | 1.53 | 1.59 |
| -120               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.13 | 0.17 | 0.25 | 0.33 | 0.38 | 0.41 | 0.45 | 0.48 |
| -110               | 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 | 0.05 | 0.05 | 0.04 | 0.07 | 0.11 |
| -100               | 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 |
| -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 | 0.00 | 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 |
| -40                | 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 |
| -30                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.06 | 0.20 | 0.21 | 0.31 | 0.36 | 0.41 | 0.38 | 0.34 | 0.28 | 0.17 | 0.16 | 0.09 |
| -20                | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.16 | 0.29 | 0.52 | 0.75 | 0.98 | 1.19 | 1.50 | 2.10 | 8.14 | 56.6 | 228  | 447  | 624  | 680  |
| -10                | 0.00 | 0.00 | 0.00 | 0.04 | 0.18 | 0.37 | 0.65 | 0.96 | 1.34 | 1.81 | 3.76 | 9.86 | 34.0 | 170  | 570  | 1244 | 1902 | 2265 | 2363 |
| 0                  | 0.00 | 0.00 | 0.00 | 0.06 | 0.30 | 0.59 | 0.91 | 1.37 | 1.93 | 4.20 | 10.6 | 26.5 | 90.7 | 372  | 1028 | 1874 | 2453 | 2635 | 2632 |
| 10                 | 0.00 | 0.00 | 0.03 | 0.15 | 0.43 | 0.77 | 1.20 | 1.77 | 3.27 | 7.65 | 17.2 | 42.9 | 113  | 323  | 755  | 1368 | 1923 | 2242 | 2308 |
| 20                 | 0.00 | 0.01 | 0.06 | 0.21 | 0.51 | 0.89 | 1.35 | 2.11 | 4.25 | 9.26 | 19.0 | 43.0 | 87.8 | 175  | 307  | 504  | 752  | 951  | 1019 |
| 30                 | 0.00 | 0.00 | 0.08 | 0.26 | 0.55 | 0.91 | 1.38 | 2.06 | 3.99 | 8.29 | 15.7 | 31.7 | 57.9 | 94.0 | 136  | 174  | 205  | 229  | 235  |
| 40                 | 0.00 | 0.00 | 0.08 | 0.25 | 0.53 | 0.86 | 1.27 | 1.90 | 3.14 | 5.94 | 10.7 | 18.7 | 32.0 | 47.7 | 65.3 | 79.8 | 91.0 | 98.0 | 99.9 |
| 50                 | 0.00 | 0.00 | 0.06 | 0.23 | 0.47 | 0.75 | 1.14 | 1.58 | 2.24 | 3.48 | 5.80 | 9.36 | 14.4 | 21.5 | 28.4 | 34.5 | 39.0 | 41.7 | 42.5 |
| 60                 | 0.00 | 0.00 | 0.03 | 0.18 | 0.38 | 0.65 | 0.94 | 1.27 | 1.62 | 2.04 | 2.79 | 3.90 | 5.53 | 7.47 | 9.46 | 11.4 | 13.3 | 14.3 | 14.7 |
| 70                 | 0.00 | 0.00 | 0.00 | 0.15 | 0.29 | 0.51 | 0.74 | 0.97 | 1.19 | 1.45 | 1.72 | 1.98 | 2.28 | 2.61 | 3.06 | 3.44 | 3.78 | 3.96 | 4.05 |
| 80                 | 0.00 | 0.00 | 0.00 | 0.08 | 0.18 | 0.37 | 0.53 | 0.67 | 0.83 | 1.01 | 1.17 | 1.31 | 1.45 | 1.59 | 1.72 | 1.78 | 1.84 | 1.89 | 1.94 |
| 90                 | 0.00 | 0.00 | 0.00 | 0.07 | 0.13 | 0.24 | 0.35 | 0.44 | 0.53 | 0.65 | 0.77 | 0.82 | 0.88 | 0.98 | 1.08 | 1.10 | 1.12 | 1.15 | 1.19 |
| 100                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.17 | 0.22 | 0.28 | 0.36 | 0.43 | 0.46 | 0.48 | 0.54 | 0.60 | 0.61 | 0.62 | 0.65 | 0.68 |
| 110                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.07 | 0.11 | 0.10 | 0.17 | 0.19 | 0.19 | 0.22 | 0.27 | 0.28 | 0.29 | 0.31 | 0.33 |
| 120                | 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 | 0.01 | 0.03 | 0.04 | 0.04 | 0.06 | 0.09 |
| 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 | 0.00 | 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 | 0.00 | 0.00 | 0.01 | 0.19 | 0.37 | 0.56 | 0.70 | 0.74 |
| 150                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.68 | 1.38 | 2.22 | 3.04 | 3.74 | 4.23 | 4.41 |
| 160                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.43 | 1.26 | 2.50 | 4.01 | 5.62 | 7.11 | 8.32 | 9.11 | 9.40 |
| 170                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 1.12 | 2.52 | 4.37 | 6.47 | 8.56 | 10.3 | 11.5 | 12.2 | 12.5 |
| 180                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.53 | 1.58 | 3.20 | 5.30 | 7.63 | 9.85 | 11.7 | 13.0 | 14.0 | 14.5 |

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ADMIN  
Test Date:2026-02-10

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:12.14V I:1.243A P:13.96W PF:0.9244 Freq:59.99Hz Lamp Flux:950.808x1 lm |                          |                                  |
| NAME: LED LANDSCAPE LIGHT                                                     | TYPE:Aluminum Spot Light | WEIGHT:                          |
| SPEC.:15W 2700K 40°LENS                                                       | DIM.:                    | SERIAL No.:1                     |
| MFR.: Lumien Enterprise,Inc.                                                  | SUR.:                    | Shielding Angle:Downlight 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               | 14.5 | 14.3 | 13.9 | 12.8 | 10.9 | 8.50 | 6.08 | 3.85 | 2.08 | 0.86 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -170               | 14.8 | 14.6 | 13.9 | 12.4 | 10.3 | 8.04 | 5.73 | 3.64 | 1.97 | 0.85 | 0.25 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -160               | 13.7 | 13.0 | 11.7 | 10.1 | 8.23 | 6.27 | 4.37 | 2.75 | 1.43 | 0.60 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -150               | 9.20 | 8.61 | 7.68 | 6.52 | 5.19 | 3.83 | 2.59 | 1.58 | 0.81 | 0.34 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -140               | 4.55 | 4.22 | 3.71 | 3.07 | 2.39 | 1.74 | 1.13 | 0.70 | 0.38 | 0.18 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -130               | 1.53 | 1.41 | 1.27 | 1.03 | 0.82 | 0.62 | 0.43 | 0.26 | 0.14 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -120               | 0.44 | 0.41 | 0.39 | 0.34 | 0.28 | 0.17 | 0.14 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -110               | 0.07 | 0.04 | 0.05 | 0.05 | 0.02 | 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 |  |
| -100               | 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 |  |
| -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 | 0.00 | 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 |  |
| -50                | 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 |  |
| -40                | 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 |  |
| -30                | 0.12 | 0.10 | 0.18 | 0.23 | 0.25 | 0.26 | 0.22 | 0.14 | 0.15 | 0.11 | 0.02 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -20                | 610  | 426  | 208  | 43.6 | 5.78 | 1.52 | 1.24 | 1.00 | 0.80 | 0.59 | 0.39 | 0.25 | 0.06 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 |  |
| -10                | 2164 | 1758 | 1142 | 559  | 194  | 39.0 | 8.39 | 2.87 | 1.60 | 1.21 | 0.86 | 0.56 | 0.33 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 |  |
| 0                  | 2553 | 2304 | 1749 | 985  | 383  | 103  | 27.4 | 9.48 | 3.55 | 1.87 | 1.34 | 0.91 | 0.57 | 0.30 | 0.09 | 0.00 | 0.00 | 0.00 |  |
| 10                 | 2189 | 1854 | 1315 | 748  | 328  | 115  | 43.8 | 17.2 | 7.28 | 3.08 | 1.74 | 1.19 | 0.76 | 0.43 | 0.16 | 0.04 | 0.00 | 0.00 |  |
| 20                 | 946  | 747  | 504  | 303  | 170  | 85.1 | 42.2 | 18.8 | 8.88 | 4.02 | 2.05 | 1.33 | 0.87 | 0.52 | 0.21 | 0.06 | 0.00 | 0.00 |  |
| 30                 | 228  | 204  | 173  | 133  | 91.1 | 55.9 | 30.7 | 15.2 | 7.86 | 3.75 | 1.98 | 1.36 | 0.91 | 0.55 | 0.25 | 0.08 | 0.00 | 0.00 |  |
| 40                 | 98.0 | 90.8 | 79.2 | 64.3 | 46.4 | 30.8 | 18.0 | 10.3 | 5.57 | 2.92 | 1.83 | 1.27 | 0.87 | 0.53 | 0.25 | 0.07 | 0.00 | 0.00 |  |
| 50                 | 41.6 | 38.7 | 34.1 | 27.7 | 20.8 | 13.8 | 8.92 | 5.51 | 3.30 | 2.15 | 1.57 | 1.14 | 0.76 | 0.47 | 0.23 | 0.05 | 0.00 | 0.00 |  |
| 60                 | 14.2 | 13.1 | 11.2 | 9.22 | 7.23 | 5.33 | 3.77 | 2.70 | 2.01 | 1.61 | 1.28 | 0.96 | 0.66 | 0.40 | 0.18 | 0.02 | 0.00 | 0.00 |  |
| 70                 | 3.95 | 3.77 | 3.42 | 3.03 | 2.60 | 2.25 | 1.99 | 1.73 | 1.44 | 1.19 | 0.97 | 0.76 | 0.52 | 0.29 | 0.13 | 0.00 | 0.00 | 0.00 |  |
| 80                 | 1.89 | 1.83 | 1.77 | 1.70 | 1.60 | 1.47 | 1.32 | 1.19 | 1.01 | 0.83 | 0.68 | 0.55 | 0.39 | 0.20 | 0.07 | 0.00 | 0.00 | 0.00 |  |
| 90                 | 1.14 | 1.09 | 1.09 | 1.09 | 1.00 | 0.91 | 0.85 | 0.79 | 0.68 | 0.56 | 0.46 | 0.36 | 0.24 | 0.11 | 0.06 | 0.00 | 0.00 | 0.00 |  |
| 100                | 0.65 | 0.62 | 0.62 | 0.62 | 0.56 | 0.53 | 0.50 | 0.45 | 0.37 | 0.28 | 0.23 | 0.18 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 110                | 0.33 | 0.31 | 0.30 | 0.28 | 0.24 | 0.25 | 0.23 | 0.19 | 0.15 | 0.10 | 0.06 | 0.05 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 120                | 0.05 | 0.04 | 0.06 | 0.08 | 0.03 | 0.02 | 0.04 | 0.03 | 0.01 | 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 | 0.00 |  |
| 140                | 0.71 | 0.56 | 0.40 | 0.18 | 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 |  |
| 150                | 4.27 | 3.83 | 3.14 | 2.30 | 1.43 | 0.71 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 160                | 9.17 | 8.45 | 7.28 | 5.81 | 4.18 | 2.61 | 1.30 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 170                | 12.3 | 11.7 | 10.5 | 8.82 | 6.71 | 4.53 | 2.60 | 1.15 | 0.33 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 180                | 14.5 | 14.3 | 13.9 | 12.8 | 10.9 | 8.50 | 6.08 | 3.85 | 2.08 | 0.86 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |

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