

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                                         |                                                                       |
|---------------------------------------------------------|-----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) | 11786.8 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
|---------------------------------------------------------|-----------------------------------------------------------------------|

|             |                |               |
|-------------|----------------|---------------|
| Beam Spread | At 10% of Imax | 30.8V x 26.9H |
|             | At 50% of Imax | 10.2V x 13.5H |
|             | At 90% of Imax | 3.5V x 5.4H   |

|           |                |                       |
|-----------|----------------|-----------------------|
| Beam Flux | Total          | 976.4 lumens per klm. |
|           | To 10% of Imax | 713.7 lumens per klm. |
|           | To 50% of Imax | 309.1 lumens per klm. |
|           | To 90% of Imax | 31.4 lumens per klm.  |

|              |        |
|--------------|--------|
| Upward LOR   | 0.0 %  |
| Downward LOR | 97.6 % |

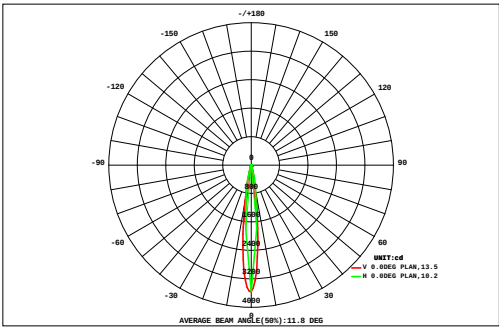
|                                          |         |
|------------------------------------------|---------|
| Luminaire Efficiency(Light Output Ratio) | 100.0 % |
|------------------------------------------|---------|

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

### LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:277.9V I:0.0465A P:6.359W PF:0.4918 Freq:50.00Hz Lamp Flux:301.732x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM-G                                   | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080020 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



| DATA OF LAMP              |         | Eff:47.45lm/W   |          |
|---------------------------|---------|-----------------|----------|
| MODE:SP-PZT-R110-3P-RDM-G |         | Imax(cd)        | 3556     |
| NOMINAL POWER(W)          | 6       | AVAILABILITY(%) | 76.4     |
| RATED VOLTAGE(V)          | 277     | Avai. FLUX(lm)  | 230.5    |
| NOMINAL FLUX(lm)          | 301.732 | LOR(%)          | 100.0    |
| LAMPS INSIDE              | 1       | TOTAL FLUX(lm)  | 301.7    |
| TEST VOLTAGE(V)           | 277     | θ @50%(H,V)     | 13,10DEG |

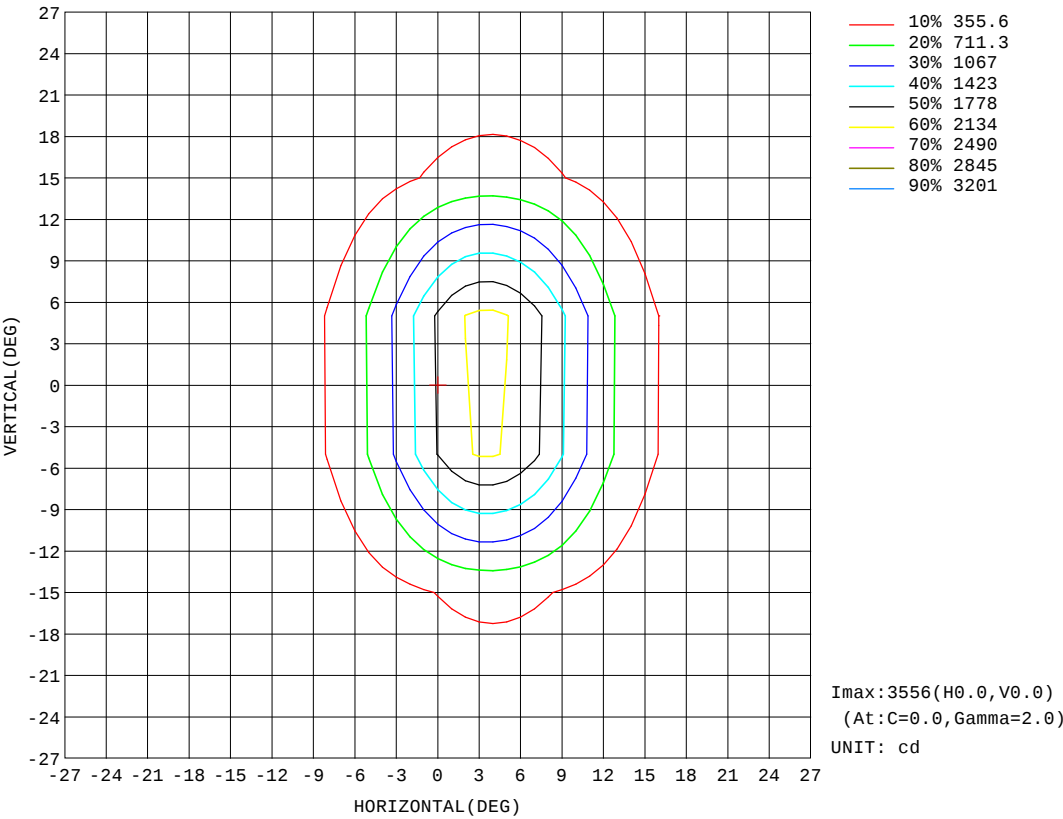
|                |      | AREA FLUX DIAGRAM |      |      |      |      |      |      |                  |      |      |      |      |      |      |      | UNIT:lm |      |      |      | Φ t  | Φ a |
|----------------|------|-------------------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|---------|------|------|------|------|-----|
| VERTICAL (DEG) | 27   | 0.04              | 0.05 | 0.06 | 0.07 | 0.09 | 0.10 | 0.12 | 0.13             | 0.14 | 0.15 | 0.14 | 0.14 | 0.12 | 0.11 | 0.09 | 0.08    | 0.06 | 0.05 | 1.74 | 0.00 |     |
|                | 24   | 0.03              | 0.05 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 | 0.20             | 0.22 | 0.24 | 0.24 | 0.23 | 0.21 | 0.18 | 0.16 | 0.13    | 0.10 | 0.08 | 2.63 | 0.00 |     |
|                | 21   | 0.06              | 0.07 | 0.10 | 0.12 | 0.16 | 0.19 | 0.23 | 0.27             | 0.30 | 0.31 | 0.30 | 0.27 | 0.23 | 0.20 | 0.16 | 0.13    | 0.10 | 0.08 | 3.27 | 0.00 |     |
|                | 18   | 0.08              | 0.10 | 0.13 | 0.17 | 0.21 | 0.26 | 0.31 | 0.35             | 0.37 | 0.37 | 0.34 | 0.30 | 0.25 | 0.21 | 0.16 | 0.13    | 0.10 | 0.07 | 3.91 | 0.00 |     |
|                | 15   | 0.06              | 0.08 | 0.11 | 0.15 | 0.22 | 0.33 | 0.49 | 0.76             | 1.15 | 1.52 | 1.63 | 1.41 | 1.01 | 0.66 | 0.43 | 0.29    | 0.20 | 0.14 | 10.6 | 6.35 |     |
|                | 12   | 0.07              | 0.10 | 0.14 | 0.21 | 0.31 | 0.48 | 0.77 | 1.21             | 1.76 | 2.15 | 2.13 | 1.71 | 1.17 | 0.75 | 0.48 | 0.32    | 0.21 | 0.15 | 14.1 | 10.1 |     |
|                | 9    | 0.12              | 0.16 | 0.23 | 0.34 | 0.54 | 0.84 | 1.36 | 2.13             | 2.80 | 2.91 | 2.36 | 1.55 | 0.92 | 0.57 | 0.36 | 0.23    | 0.16 | 0.11 | 17.7 | 13.7 |     |
|                |      | 0.09              | 0.13 | 0.19 | 0.28 | 0.44 | 0.72 | 1.28 | 2.44             | 4.07 | 5.38 | 5.38 | 4.25 | 2.66 | 1.42 | 0.74 | 0.42    | 0.26 | 0.17 | 30.3 | 26.9 |     |
|                |      | 0.06              | 0.09 | 0.13 | 0.20 | 0.31 | 0.56 | 1.16 | 2.71             | 5.40 | 8.07 | 8.74 | 7.26 | 4.61 | 2.37 | 1.18 | 0.63    | 0.37 | 0.23 | 44.1 | 41.0 |     |
|                |      | 0.13              | 0.19 | 0.29 | 0.48 | 0.88 | 1.83 | 4.16 | 7.77             | 10.8 | 10.8 | 8.29 | 4.78 | 2.20 | 1.01 | 0.51 | 0.30    | 0.19 | 0.13 | 54.7 | 51.6 |     |
|                |      | 0.13              | 0.18 | 0.28 | 0.46 | 0.83 | 1.70 | 3.84 | 7.19             | 10.1 | 10.2 | 8.01 | 4.76 | 2.27 | 1.06 | 0.54 | 0.32    | 0.20 | 0.13 | 52.2 | 49.1 |     |
|                |      | 0.06              | 0.08 | 0.10 | 0.13 | 0.15 | 0.14 | 0.13 | 0.35             | 1.40 | 3.61 | 4.91 | 4.74 | 3.34 | 1.84 | 0.96 | 0.53    | 0.32 | 0.20 | 23.0 | 20.5 |     |
|                |      | 0.08              | 0.11 | 0.15 | 0.21 | 0.29 | 0.43 | 0.63 | 0.87             | 1.05 | 1.63 | 2.06 | 1.98 | 1.47 | 0.90 | 0.52 | 0.32    | 0.21 | 0.14 | 13.0 | 9.35 |     |
|                |      | 0.11              | 0.15 | 0.21 | 0.30 | 0.46 | 0.66 | 0.87 | 0.92             | 0.58 | 0.13 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.08    | 0.08 | 0.07 | 4.68 | 0.70 |     |
|                |      | 0.04              | 0.06 | 0.08 | 0.11 | 0.14 | 0.19 | 0.25 | 0.34             | 0.52 | 0.82 | 1.01 | 0.96 | 0.74 | 0.52 | 0.35 | 0.24    | 0.17 | 0.12 | 6.67 | 1.30 |     |
|                |      | 0.03              | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.07             | 0.10 | 0.27 | 0.53 | 0.60 | 0.51 | 0.38 | 0.28 | 0.20    | 0.14 | 0.10 | 3.63 | 0.00 |     |
|                | 0.06 | 0.07              | 0.09 | 0.11 | 0.13 | 0.14 | 0.13 | 0.08 | 0.03             | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.04 | 0.04    | 0.04 | 1.07 | 0.00 |      |     |
|                | 0.03 | 0.04              | 0.06 | 0.07 | 0.09 | 0.09 | 0.09 | 0.08 | 0.10             | 0.10 | 0.11 | 0.10 | 0.10 | 0.09 | 0.07 | 0.06 | 0.05    | 0.04 | 1.38 | 0.00 |      |     |
|                | -27  | -24               | -21  | -18  | -15  | -12  | -9   | -6   | HORIZONTAL( DEG) |      |      |      | 6    | 9    | 12   | 15   | 18      | 21   | 24   | 27   |      |     |
| Φ t            | 1.27 | 1.78              | 2.49 | 3.57 | 5.41 | 8.88 | 16.1 | 27.9 | 40.9             | 48.7 | 46.2 | 35.0 | 21.8 | 12.3 | 7.09 | 4.42 | 2.96    | 2.06 | 289  | ---  |      |     |
| Φ a            | 0.00 | 0.00              | 0.00 | 0.00 | 0.90 | 3.82 | 11.8 | 24.5 | 38.5             | 46.4 | 44.0 | 32.5 | 18.2 | 7.54 | 2.33 | 0.00 | 0.00    | 0.00 | ---  | 231  |      |     |

one-half-peak spread: U:5.1,D:5.2 , L:6.1,R:7.5EMA Beam Type: Type 2 x 3 (H x V)

|                        |                                                  |
|------------------------|--------------------------------------------------|
| H(β) Range:-90 - 90DEG | V(B) Range:-80 - 80DEG                           |
| H(β) Interval: 1.0DEG  | V(B) Interval: 5.0DEG                            |
| Test Speed: HIGH       | Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354 |
| Temperature:28.0DEG    | Humidity:83%                                     |
| Operators:QC1          | Test Distance:8.300m [K=1.0000]                  |
| Test Date:2025-08-01   | Remarks:                                         |

ISOCANDELA DIAGRAM

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:277.9V I:0.0465A P:6.359W PF:0.4918 Freq:50.00Hz Lamp Flux:301.732x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM-G                                   | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080020 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

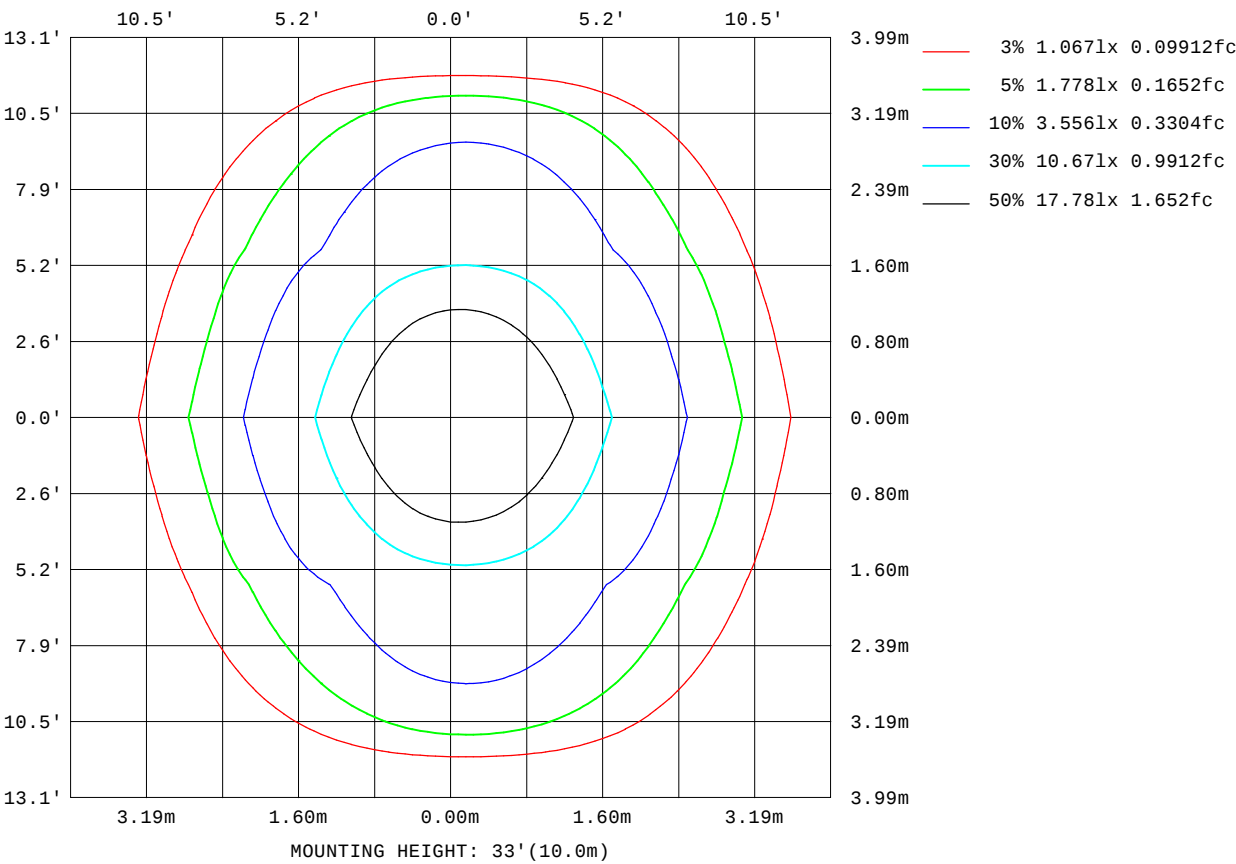


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

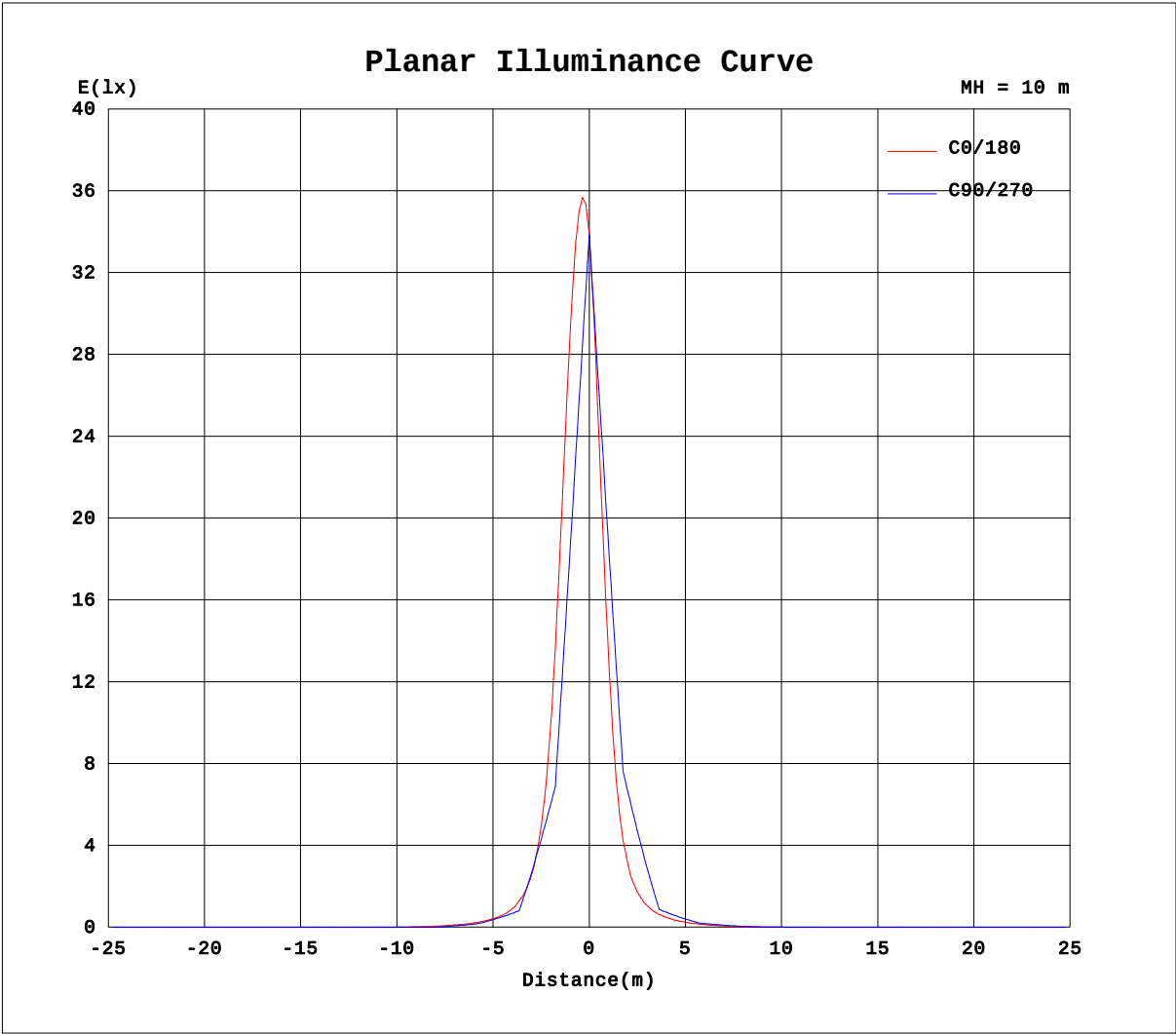
|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:277.9V I:0.0465A P:6.359W PF:0.4918 Freq:50.00Hz Lamp Flux:301.732x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM-G                                   | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080020 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

Planar Illuminance Curve

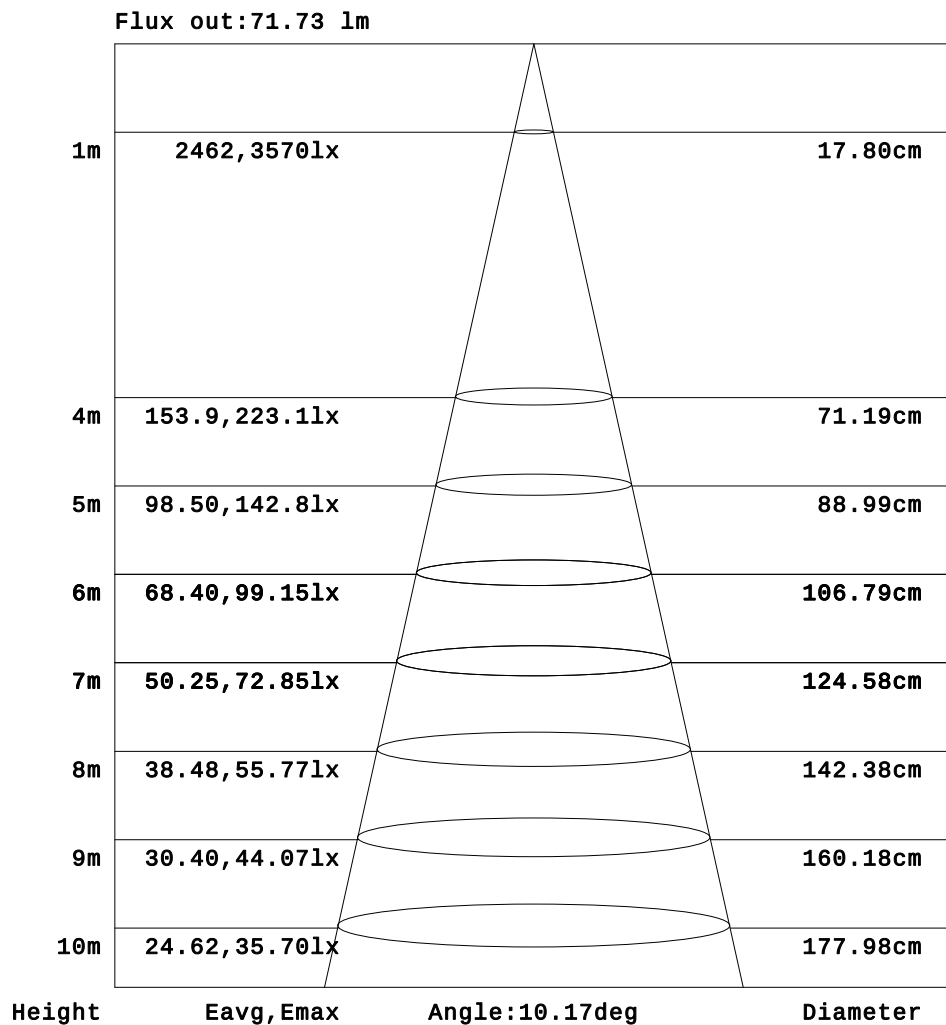


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:277.9V I:0.0465A P:6.359W PF:0.4918 Freq:50.00Hz Lamp Flux:301.732x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM-G                                   | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080020 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:277.9V I:0.0465A P:6.359W PF:0.4918 Freq:50.00Hz Lamp Flux:301.732x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM-G                                   | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080020 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

| 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    |  |
| -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 |  |
| -85              | 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 |  |
| -75              | 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 |  |
| -65              | 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 |  |
| -55              | 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 |  |
| -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 |  |
| -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 |  |
| -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 | 2.32 | 5.05 | 7.75 | 10.4     | 12.6 | 14.2 |  |
| -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 | 2.46 | 7.88 | 13.3 | 18.7 | 23.6     | 27.3 | 29.2 |  |
| -25              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 4.73 | 11.3 | 19.2 | 29.1 | 40.7     | 52.8 | 62.2 |  |
| -20              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 6.51 | 14.3 | 23.9 | 36.4 | 53.0 | 72.5     | 90.6 | 101  |  |
| -15              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 5.23 | 13.2 | 23.8 | 39.3 | 64.9 | 114      | 206  | 364  |  |
| -10              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 13.0 | 24.1 | 40.7 | 69.5 | 126  | 252      | 499  | 769  |  |
| -5               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.77 | 9.15 | 18.9 | 33.0 | 57.2 | 107  | 244      | 726  | 1789 |  |
| 0                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 7.07 | 16.2 | 29.1 | 50.7 | 94.0 | 212  | 658      | 2168 | 3556 |  |
| 5                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.20 | 9.47 | 19.1 | 33.1 | 57.4 | 108  | 247      | 739  | 1826 |  |
| 10               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 5.62 | 13.5 | 24.4 | 41.0 | 70.2 | 130  | 265      | 558  | 852  |  |
| 15               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 | 6.55 | 14.1 | 24.5 | 40.0 | 66.1 | 118      | 221  | 405  |  |
| 20               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 8.12 | 15.5 | 24.9 | 37.4 | 54.6 | 76.1     | 96.9 | 108  |  |
| 25               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.28 | 6.87 | 13.2 | 20.9 | 30.8 | 43.3     | 56.8 | 67.8 |  |
| 30               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.23 | 5.58 | 10.3 | 15.6 | 21.3 | 26.7     | 30.9 | 32.9 |  |
| 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 | 1.45 | 3.70 | 6.87 | 10.8 | 14.7     | 18.2 | 20.5 |  |
| 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 | 0.37 | 2.78 | 5.11 | 7.14     | 8.65 | 9.31 |  |
| 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 | 0.67 | 1.87 | 2.99     | 3.91 | 4.50 |  |
| 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 |  |
| 55               | 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 |  |
| 65               | 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 |  |
| 75               | 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 |  |
| 85               | 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 |  |

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:277.9V I:0.0465A P:6.359W PF:0.4918 Freq:50.00Hz Lamp Flux:301.732x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM-G                                   | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080020 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

|                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |  |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--|
| 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   |  |
| -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 |  |
| -85              | 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 |  |
| -75              | 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 |  |
| -65              | 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 |  |
| -55              | 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 |  |
| -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 |  |
| -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 |  |
| -35              | 14.6 | 13.8 | 11.9 | 9.39 | 6.41 | 3.09 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -30              | 28.4 | 25.5 | 20.9 | 15.3 | 8.98 | 1.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -25              | 64.8 | 58.8 | 47.5 | 35.2 | 23.9 | 14.3 | 6.53 | 2.86 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -20              | 95.8 | 79.2 | 59.2 | 41.2 | 27.1 | 16.5 | 8.42 | 2.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -15              | 435  | 300  | 162  | 88.6 | 51.5 | 30.9 | 17.9 | 8.93 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -10              | 636  | 340  | 165  | 85.8 | 48.8 | 28.5 | 16.0 | 7.24 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -5               | 2106 | 1229 | 435  | 164  | 78.4 | 43.3 | 24.8 | 13.3 | 5.31 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 0                | 2673 | 1007 | 305  | 120  | 60.2 | 33.5 | 18.8 | 9.19 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 5                | 2147 | 1253 | 439  | 165  | 78.8 | 43.7 | 25.3 | 13.9 | 5.91 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 10               | 704  | 358  | 169  | 86.9 | 49.6 | 29.5 | 17.1 | 8.45 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 15               | 479  | 326  | 168  | 90.7 | 53.0 | 32.5 | 19.8 | 10.8 | 4.13 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 20               | 102  | 83.0 | 61.7 | 43.2 | 29.4 | 19.1 | 11.1 | 4.83 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 25               | 70.3 | 63.3 | 51.1 | 38.3 | 27.3 | 18.5 | 11.4 | 5.56 | 1.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 30               | 32.3 | 29.5 | 24.9 | 19.5 | 14.1 | 9.05 | 4.44 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 35               | 21.2 | 20.2 | 17.9 | 14.5 | 10.7 | 6.87 | 3.58 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 40               | 9.23 | 8.41 | 6.92 | 4.99 | 2.70 | 0.23 | 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               | 4.68 | 4.49 | 3.95 | 3.09 | 2.06 | 0.85 | 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 |  |
| 55               | 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 |  |
| 65               | 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 |  |
| 75               | 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 |  |
| 85               | 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 |  |

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