

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                                         |                                                                      |
|---------------------------------------------------------|----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) | 1697.3 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
|---------------------------------------------------------|----------------------------------------------------------------------|

|             |                |               |
|-------------|----------------|---------------|
| Beam Spread | At 10% of Imax | 71.7V x 71.1H |
|             | At 50% of Imax | 43.7V x 43.3H |
|             | At 90% of Imax | 23.4V x 24.1H |

|           |                |                       |
|-----------|----------------|-----------------------|
| Beam Flux | Total          | 999.1 lumens per klm. |
|           | To 10% of Imax | 893.4 lumens per klm. |
|           | To 50% of Imax | 582.7 lumens per klm. |
|           | To 90% of Imax | 204.0 lumens per klm. |

|              |        |
|--------------|--------|
| Upward LOR   | 0.0 %  |
| Downward LOR | 99.9 % |

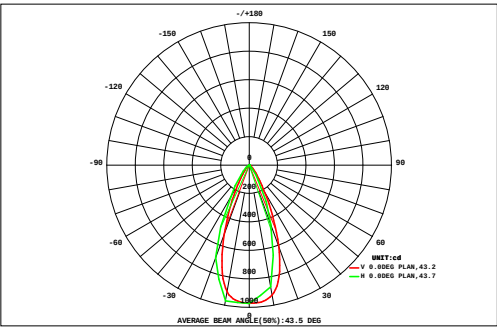
|                                          |         |
|------------------------------------------|---------|
| Luminaire Efficiency(Light Output Ratio) | 100.0 % |
|------------------------------------------|---------|

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-05

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:120.7V I:0.1657A P:11.35W PF:0.5672 Freq:50.00Hz Lamp Flux:572.052x1 lm |          |                       |
| NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-R                                  | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080024 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



| DATA OF LAMP                 |         | Eff:50.42lm/W   |          |
|------------------------------|---------|-----------------|----------|
| MODEL: SP-PZT-R170-12P-RDM-R |         | Imax(cd)        | 970.9    |
| NOMINAL POWER(W)             | 11      | AVAILABILITY(%) | 89.7     |
| RATED VOLTAGE(V)             | 120     | Avai. FLUX(lm)  | 513.1    |
| NOMINAL FLUX(lm)             | 572.052 | LOR(%)          | 100.0    |
| LAMPS INSIDE                 | 1       | TOTAL FLUX(lm)  | 572.1    |
| TEST VOLTAGE(V)              | 120     | θ @50%(H,V)     | 43,44DEG |

| AREA FLUX DIAGRAM |      |      |      |      |      |      |      |      |                   |      |      |      |      |      |      |      | UNIT:lm | Φ t   | Φ a  |
|-------------------|------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|------|---------|-------|------|
| 72                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.02              | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00    | 0.11  | 0.00 |
| 64                | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.13 | 0.20 | 0.25 | 0.28              | 0.27 | 0.23 | 0.16 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00    | 1.64  | 0.00 |
| 56                | 0.00 | 0.00 | 0.00 | 0.06 | 0.18 | 0.31 | 0.44 | 0.55 | 0.60              | 0.60 | 0.53 | 0.41 | 0.27 | 0.13 | 0.03 | 0.00 | 0.00    | 4.12  | 0.00 |
| 48                | 0.00 | 0.00 | 0.03 | 0.16 | 0.35 | 0.57 | 0.82 | 1.06 | 1.21              | 1.21 | 1.04 | 0.79 | 0.53 | 0.30 | 0.11 | 0.01 | 0.00    | 8.20  | 0.00 |
| 40                | 0.00 | 0.00 | 0.09 | 0.29 | 0.57 | 0.97 | 1.54 | 2.19 | 2.64              | 2.62 | 2.10 | 1.45 | 0.89 | 0.48 | 0.22 | 0.04 | 0.00    | 16.1  | 7.91 |
| 32                | 0.00 | 0.01 | 0.15 | 0.40 | 0.84 | 1.63 | 2.96 | 4.72 | 5.97              | 5.85 | 4.39 | 2.70 | 1.46 | 0.72 | 0.32 | 0.09 | 0.00    | 32.2  | 27.8 |
| 24                | 0.00 | 0.03 | 0.18 | 0.51 | 1.19 | 2.73 | 5.91 | 10.2 | 13.1              | 12.8 | 9.58 | 5.34 | 2.42 | 1.04 | 0.43 | 0.14 | 0.01    | 65.5  | 62.1 |
|                   | 0.00 | 0.03 | 0.20 | 0.57 | 1.46 | 3.80 | 8.73 | 14.5 | 17.5              | 17.6 | 14.5 | 8.49 | 3.56 | 1.34 | 0.51 | 0.17 | 0.01    | 93.0  | 90.0 |
|                   | 0.00 | 0.03 | 0.21 | 0.60 | 1.62 | 4.47 | 10.5 | 16.8 | 19.3              | 19.4 | 16.7 | 10.2 | 4.16 | 1.46 | 0.53 | 0.17 | 0.02    | 106   | 103  |
|                   | 0.00 | 0.03 | 0.21 | 0.59 | 1.63 | 4.52 | 10.4 | 16.1 | 18.2              | 18.1 | 15.5 | 9.12 | 3.66 | 1.27 | 0.46 | 0.14 | 0.01    | 100.0 | 97.1 |
|                   | 0.00 | 0.02 | 0.16 | 0.47 | 1.19 | 3.08 | 7.27 | 12.5 | 15.7              | 15.4 | 11.9 | 6.55 | 2.70 | 1.02 | 0.39 | 0.11 | 0.00    | 78.5  | 75.3 |
|                   | 0.00 | 0.00 | 0.09 | 0.31 | 0.76 | 1.67 | 3.49 | 6.16 | 8.22              | 8.18 | 6.01 | 3.42 | 1.63 | 0.70 | 0.27 | 0.06 | 0.00    | 41.0  | 37.2 |
| -24               | 0.00 | 0.00 | 0.04 | 0.18 | 0.44 | 0.90 | 1.62 | 2.58 | 3.40              | 3.42 | 2.56 | 1.55 | 0.83 | 0.40 | 0.15 | 0.02 | 0.00    | 18.1  | 12.3 |
| -32               | 0.00 | 0.00 | 0.01 | 0.08 | 0.22 | 0.41 | 0.60 | 0.73 | 0.84              | 0.84 | 0.72 | 0.53 | 0.33 | 0.16 | 0.04 | 0.00 | 0.00    | 5.49  | 0.00 |
| -40               | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.14 | 0.20 | 0.25 | 0.27              | 0.27 | 0.23 | 0.15 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00    | 1.70  | 0.00 |
| -48               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.06              | 0.05 | 0.03 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00    | 0.24  | 0.00 |
| -56               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01              | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.04  | 0.00 |
| -64               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00 |
| -72               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00 |
|                   | -72  | -64  | -56  | -48  | -40  | -32  | -24  | -16  | HORIZONTAL( DEG ) | 16   | 24   | 32   | 40   | 48   | 56   | 64   | 72      |       |      |
| Φ t               | 0.00 | 0.16 | 1.37 | 4.22 | 10.5 | 25.3 | 54.7 | 88.7 | 107               | 107  | 86.0 | 50.8 | 22.6 | 9.06 | 3.47 | 0.96 | 0.05    | 0.00  | 572  |
| Φ a               | 0.00 | 0.00 | 0.00 | 0.00 | 3.38 | 20.2 | 50.6 | 84.6 | 103               | 103  | 81.8 | 46.9 | 17.6 | 1.85 | 0.00 | 0.00 | 0.00    | 0.00  | 513  |

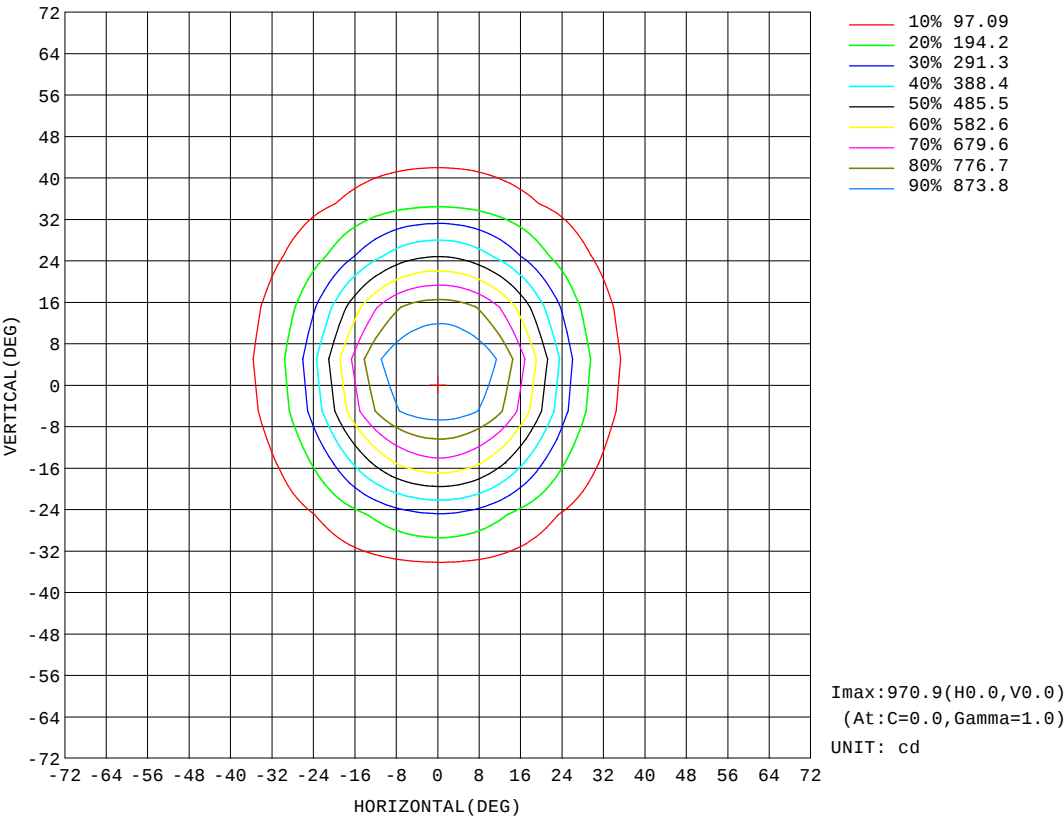
one-half-peak spread: U:19.0,D:24.9 , L:22.7,R:20.8 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-05

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:

ISOCANDELA DIAGRAM

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.7V I:0.1657A P:11.35W PF:0.5672 Freq:50.00Hz Lamp Flux:572.052x1 lm |          |                       |
| NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-R                                  | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080024 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

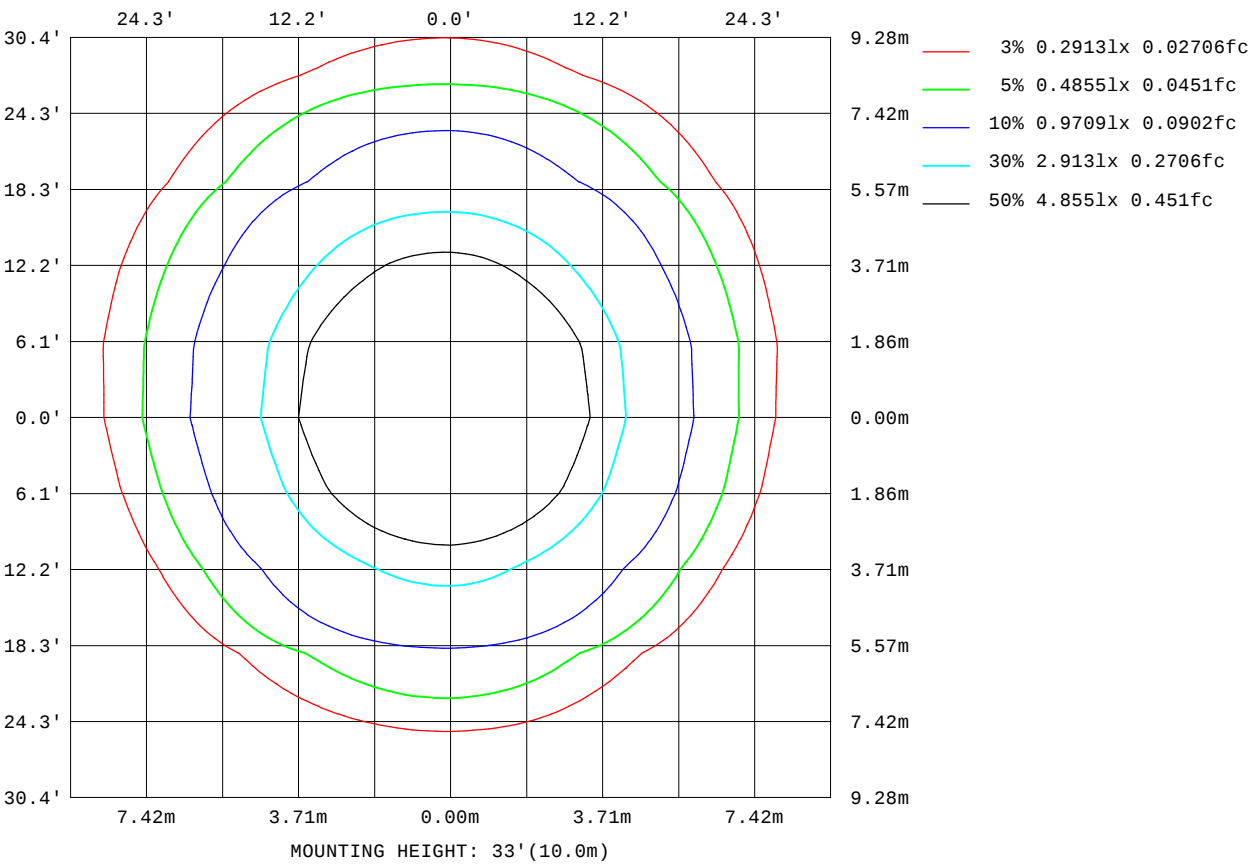


H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-05

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

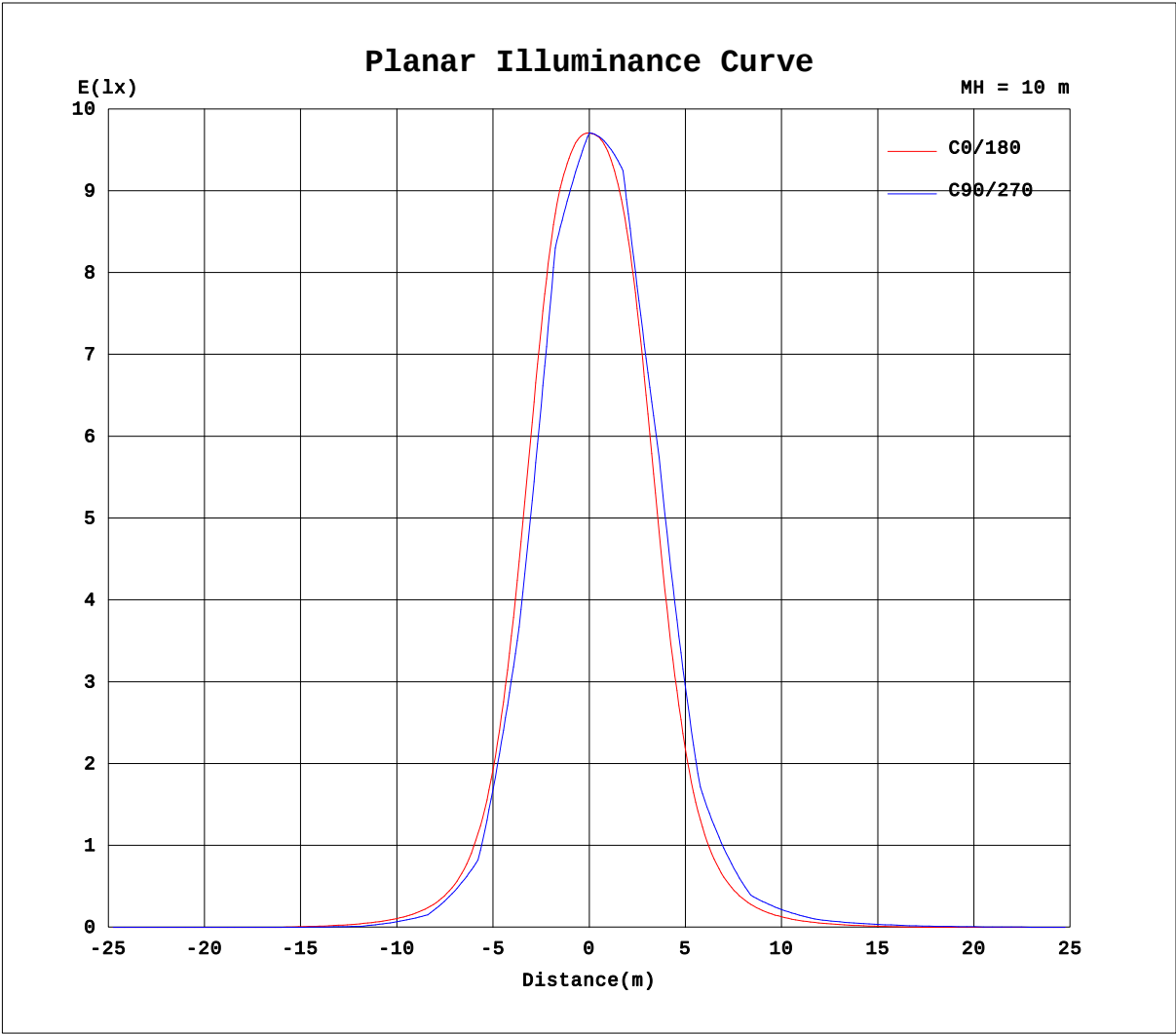
|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.7V I:0.1657A P:11.35W PF:0.5672 Freq:50.00Hz Lamp Flux:572.052x1 lm |          |                       |
| NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-R                                  | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080024 |
| 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:2025-08-05

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

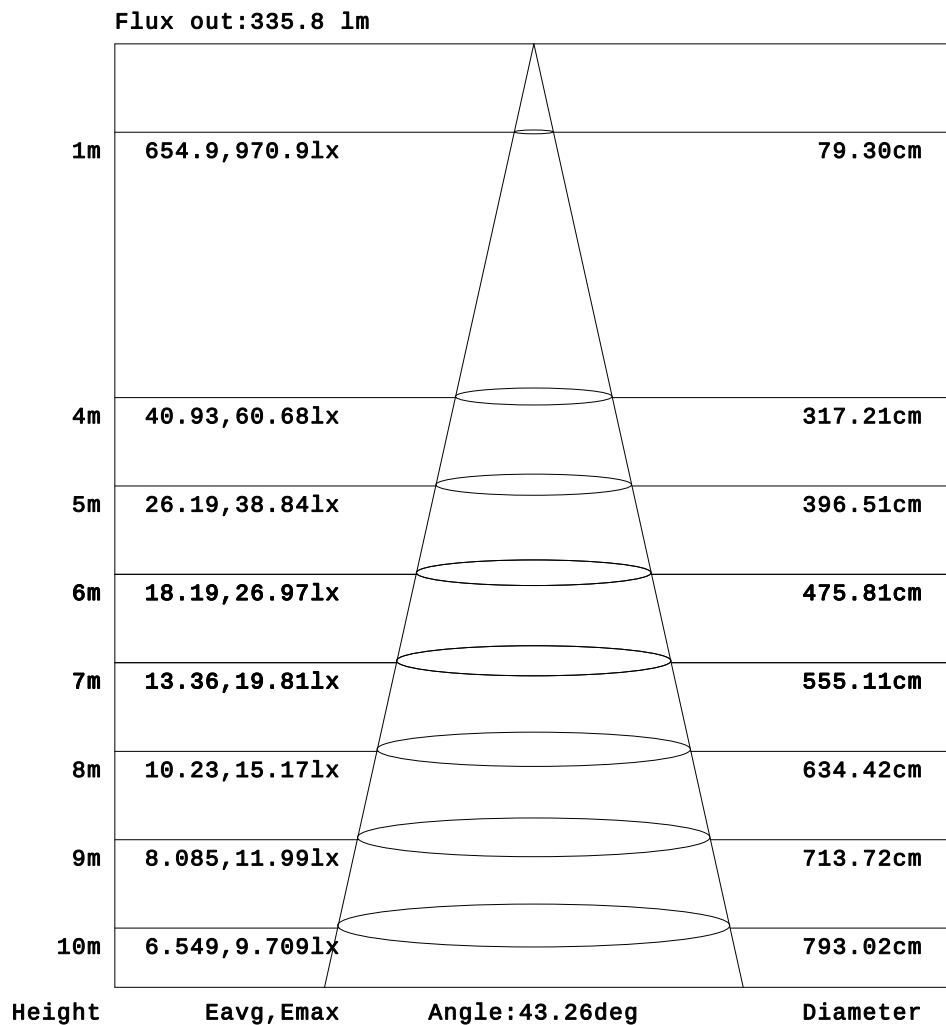


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-05

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:120.7V I:0.1657A P:11.35W PF:0.5672 Freq:50.00Hz Lamp Flux:572.052x1 lm |          |                       |
| NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-R                                  | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080024 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



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: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-05

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:120.7V I:0.1657A P:11.35W PF:0.5672 Freq:50.00Hz Lamp Flux:572.052x1 lm |          |                       |
| NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-R                                  | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080024 |
| 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 | 0.69 | 1.66     | 2.42 | 2.83 |
| -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 | 1.80 | 3.65 | 5.08     | 5.67 | 5.23 |
| -45              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 2.40 | 4.51 | 6.65 | 9.11 | 12.1 | 15.2 | 17.7     | 19.5 | 20.0 |
| -40              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.16 | 5.69 | 9.82 | 14.3 | 19.2 | 23.7 | 27.8 | 31.3     | 33.8 | 34.7 |
| -35              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.74 | 4.79 | 10.3 | 16.9 | 25.1 | 35.0 | 46.1 | 57.5 | 68.5     | 77.3 | 80.9 |
| -30              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.64 | 10.4 | 17.4 | 27.0 | 39.6 | 55.1 | 73.1 | 91.6 | 110      | 123  | 127  |
| -25              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.56 | 6.70 | 13.9 | 23.7 | 37.7 | 58.3 | 87.7 | 129  | 179  | 230      | 268  | 285  |
| -20              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.42 | 11.4 | 20.8 | 34.8 | 55.5 | 87.1 | 135  | 204  | 288  | 368      | 424  | 442  |
| -15              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 5.07 | 13.0 | 23.6 | 39.9 | 65.7 | 109  | 184  | 296  | 430  | 550      | 627  | 656  |
| -10              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.16 | 8.71 | 18.3 | 31.9 | 53.5 | 89.8 | 156  | 272  | 441  | 623  | 770      | 848  | 869  |
| -5               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 8.60 | 18.1 | 31.8 | 54.1 | 93.3 | 165  | 295  | 481  | 682  | 829      | 900  | 920  |
| 0                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.48 | 12.0 | 22.5 | 38.9 | 67.1 | 119  | 216  | 384  | 605  | 812  | 927      | 966  | 971  |
| 5                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 10.2 | 20.0 | 35.1 | 59.9 | 104  | 185  | 328  | 531  | 746  | 893      | 954  | 969  |
| 10               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.80 | 12.0 | 22.4 | 39.2 | 66.4 | 113  | 200  | 346  | 547  | 754  | 896      | 953  | 968  |
| 15               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.77 | 9.52 | 18.9 | 32.9 | 54.3 | 89.0 | 150  | 253  | 404  | 578  | 722      | 804  | 830  |
| 20               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.69 | 10.4 | 20.1 | 33.8 | 53.6 | 84.0 | 133  | 213  | 330  | 467  | 592      | 672  | 691  |
| 25               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 6.95 | 15.5 | 26.4 | 41.4 | 63.0 | 95.3 | 145  | 218  | 308  | 394      | 457  | 478  |
| 30               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 6.63 | 15.0 | 24.2 | 36.6 | 52.8 | 74.1 | 103  | 140  | 184  | 228      | 256  | 264  |
| 35               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 10.2 | 18.0 | 27.5 | 39.2 | 53.8 | 72.4 | 95.7 | 123  | 150      | 169  | 176  |
| 40               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.87 | 8.48 | 15.3 | 22.6 | 31.0 | 40.3 | 50.5 | 61.3 | 72.0 | 81.1     | 86.8 | 88.4 |
| 45               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 3.68 | 9.32 | 15.3 | 22.0 | 28.9 | 36.1 | 43.4 | 50.5 | 56.7     | 60.8 | 62.3 |
| 50               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 5.69 | 10.6 | 15.8 | 20.4 | 24.7 | 28.4 | 31.7 | 34.3     | 35.8 | 36.1 |
| 55               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 2.37 | 4.79 | 8.69 | 12.6 | 16.2 | 19.2 | 21.8 | 23.8     | 25.0 | 25.3 |
| 60               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 3.26 | 6.33 | 8.99 | 11.1 | 12.7 | 13.8     | 14.4 | 14.5 |
| 65               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.31 | 2.87 | 4.26 | 5.35 | 6.21 | 6.83     | 7.18 | 7.26 |
| 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:2025-08-05

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:120.7V I:0.1657A P:11.35W PF:0.5672 Freq:50.00Hz Lamp Flux:572.052x1 lm |          |                       |
| NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-R                                  | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080024 |
| 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              | 2.18 | 1.49 | 0.81 | 0.03 | 0.00 | 0.00 | 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              | 4.09 | 2.74 | 1.30 | 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 |
| -45              | 19.2 | 17.4 | 14.4 | 10.7 | 7.86 | 5.31 | 2.95 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -40              | 33.8 | 31.1 | 26.1 | 20.1 | 14.7 | 9.65 | 5.03 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -35              | 77.9 | 69.5 | 57.1 | 44.0 | 32.2 | 22.1 | 14.3 | 7.89 | 3.49 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -30              | 119  | 103  | 82.8 | 62.9 | 45.4 | 31.2 | 20.8 | 12.6 | 5.62 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -25              | 271  | 230  | 176  | 125  | 84.8 | 55.4 | 35.4 | 21.9 | 12.2 | 4.35 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -20              | 409  | 336  | 249  | 170  | 111  | 70.3 | 43.7 | 26.9 | 15.3 | 6.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -15              | 631  | 554  | 433  | 299  | 185  | 109  | 64.1 | 38.2 | 22.4 | 11.6 | 3.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -10              | 830  | 730  | 563  | 378  | 223  | 126  | 71.6 | 42.0 | 24.6 | 13.1 | 3.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -5               | 903  | 838  | 692  | 488  | 296  | 165  | 90.7 | 51.7 | 30.2 | 16.7 | 6.93 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 0                | 958  | 903  | 744  | 516  | 306  | 167  | 90.0 | 50.8 | 29.3 | 16.0 | 6.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 5                | 959  | 905  | 757  | 540  | 329  | 183  | 100  | 57.0 | 33.3 | 18.5 | 8.37 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 10               | 948  | 863  | 689  | 473  | 280  | 157  | 88.8 | 51.6 | 30.3 | 16.4 | 6.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 15               | 808  | 728  | 585  | 410  | 254  | 148  | 86.7 | 51.6 | 31.0 | 17.3 | 7.40 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 20               | 646  | 545  | 412  | 278  | 176  | 108  | 67.3 | 41.8 | 25.5 | 13.6 | 4.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 25               | 456  | 393  | 307  | 217  | 145  | 93.7 | 60.7 | 38.7 | 24.2 | 13.4 | 4.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 30               | 247  | 209  | 165  | 124  | 89.8 | 63.5 | 43.8 | 29.0 | 18.2 | 9.20 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 35               | 169  | 148  | 121  | 94.6 | 71.4 | 52.2 | 37.0 | 24.9 | 15.7 | 7.73 | 1.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 40               | 84.9 | 76.8 | 66.4 | 55.4 | 44.6 | 34.2 | 24.8 | 16.7 | 9.84 | 3.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 45               | 60.7 | 56.1 | 49.5 | 42.1 | 34.5 | 26.9 | 19.5 | 12.7 | 6.88 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 50               | 35.1 | 32.9 | 29.7 | 25.8 | 21.4 | 16.6 | 11.3 | 6.31 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 55               | 24.7 | 23.2 | 20.9 | 17.9 | 14.5 | 10.6 | 6.40 | 3.63 | 1.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 60               | 13.7 | 12.6 | 10.9 | 8.71 | 6.07 | 3.05 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 65               | 6.96 | 6.43 | 5.64 | 4.60 | 3.31 | 1.84 | 0.23 | 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 |

H(β) Range:-90 - 90DEG  
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Temperature:28.0DEG  
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