

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

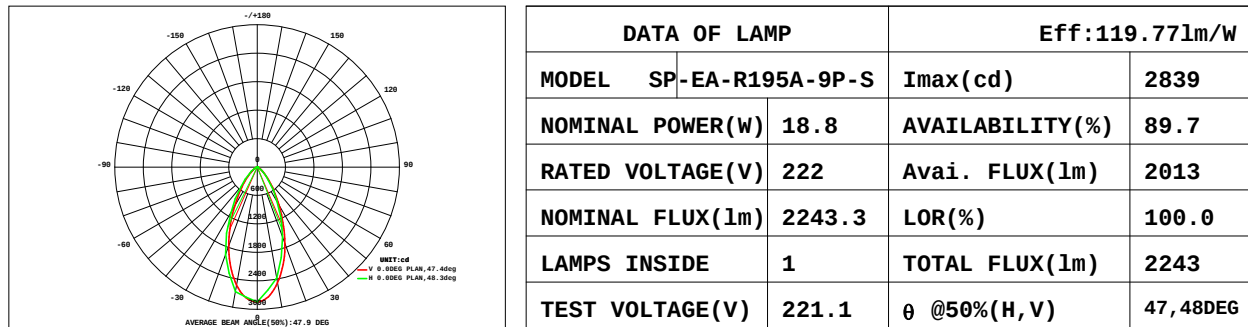
|                                                         |                |                                                                      |
|---------------------------------------------------------|----------------|----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) |                | 1265.6 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
| Beam Spread                                             | At 10% of Imax | 91.5V x 89.0H                                                        |
|                                                         | At 50% of Imax | 48.3V x 47.4H                                                        |
|                                                         | At 90% of Imax | 18.0V x 18.2H                                                        |
| Beam Flux                                               | Total          | 999.8 lumens per klm.                                                |
|                                                         | To 10% of Imax | 894.2 lumens per klm.                                                |
|                                                         | To 50% of Imax | 487.2 lumens per klm.                                                |
|                                                         | To 90% of Imax | 86.4 lumens per klm.                                                 |
| Upward LOR                                              |                | 0.0 %                                                                |
| Downward LOR                                            |                | 100.0 %                                                              |
| 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:2024-07-03

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                  |          |                       |
|------------------------------------------------------------------|----------|-----------------------|
| Test:U:221.1V I:0.1391A P:18.73W PF:0.6088 Lamp Flux:2243.3x1 lm |          |                       |
| NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S                         | TYPE:LED | WEIGHT:               |
| DIM.:                                                            | SPEC.:   | SERIAL No.:2024070007 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:     |



|                |      | AREA FLUX DIAGRAM |      |      |      |      |      |      |                  |      |      |      |      |      |      |      |      | UNIT:lm |      |      |      | $\Phi$ t | $\Phi$ a |
|----------------|------|-------------------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|------|---------|------|------|------|----------|----------|
| VERTICAL (DEG) | 72   | 0.00              | 0.00 | 0.00 | 0.01 | 0.03 | 0.12 | 0.21 | 0.28             | 0.30 | 0.28 | 0.21 | 0.12 | 0.04 | 0.03 | 0.01 | 0.00 | 0.00    | 0.00 | 1.66 | 0.00 |          |          |
|                | 64   | 0.00              | 0.00 | 0.05 | 0.21 | 0.41 | 0.63 | 0.86 | 1.03             | 1.13 | 1.12 | 1.00 | 0.81 | 0.59 | 0.38 | 0.19 | 0.04 | 0.00    | 0.00 | 8.46 | 0.00 |          |          |
|                | 56   | 0.00              | 0.05 | 0.22 | 0.51 | 0.89 | 1.35 | 1.84 | 2.25             | 2.49 | 2.48 | 2.23 | 1.82 | 1.33 | 0.87 | 0.50 | 0.22 | 0.05    | 0.00 | 19.1 | 0.00 |          |          |
|                | 48   | 0.01              | 0.14 | 0.44 | 0.90 | 1.57 | 2.46 | 3.49 | 4.47             | 5.11 | 5.14 | 4.56 | 3.60 | 2.53 | 1.59 | 0.91 | 0.44 | 0.14    | 0.01 | 37.5 | 9.64 |          |          |
|                | 40   | 0.04              | 0.27 | 0.71 | 1.44 | 2.62 | 4.34 | 6.46 | 8.56             | 9.92 | 9.93 | 8.64 | 6.57 | 4.41 | 2.60 | 1.40 | 0.66 | 0.24    | 0.03 | 68.9 | 51.3 |          |          |
|                | 32   | 0.08              | 0.38 | 0.97 | 2.09 | 4.15 | 7.36 | 11.4 | 15.4             | 17.8 | 17.8 | 15.2 | 11.3 | 7.33 | 4.08 | 2.06 | 0.94 | 0.35    | 0.06 | 119  | 107  |          |          |
|                | 24   | 0.11              | 0.47 | 1.25 | 2.86 | 6.03 | 11.1 | 17.9 | 25.1             | 29.8 | 29.8 | 25.1 | 18.2 | 11.4 | 6.17 | 2.89 | 1.24 | 0.46    | 0.10 | 190  | 180  |          |          |
|                |      | 0.13              | 0.54 | 1.45 | 3.50 | 7.65 | 14.6 | 24.4 | 34.9             | 41.7 | 42.1 | 35.8 | 25.6 | 15.6 | 8.24 | 3.75 | 1.55 | 0.57    | 0.14 | 262  | 254  |          |          |
|                |      | 0.15              | 0.59 | 1.62 | 4.01 | 8.96 | 17.5 | 29.7 | 42.5             | 50.9 | 51.4 | 43.5 | 31.0 | 18.5 | 9.60 | 4.30 | 1.73 | 0.63    | 0.16 | 317  | 309  |          |          |
|                |      | 0.17              | 0.65 | 1.76 | 4.39 | 9.80 | 19.2 | 32.4 | 45.8             | 54.4 | 54.3 | 45.3 | 32.0 | 18.8 | 9.60 | 4.27 | 1.70 | 0.60    | 0.15 | 335  | 327  |          |          |
|                |      | 0.16              | 0.60 | 1.63 | 4.00 | 8.87 | 17.2 | 29.1 | 41.3             | 49.1 | 49.2 | 41.4 | 29.2 | 17.4 | 8.99 | 4.04 | 1.64 | 0.59    | 0.15 | 305  | 297  |          |          |
|                | -24  | 0.13              | 0.52 | 1.37 | 3.21 | 6.99 | 13.2 | 21.7 | 30.9             | 37.0 | 37.3 | 31.7 | 22.6 | 13.8 | 7.39 | 3.44 | 1.45 | 0.54    | 0.14 | 233  | 224  |          |          |
|                | -32  | 0.09              | 0.42 | 1.08 | 2.43 | 5.03 | 9.23 | 14.8 | 20.5             | 24.4 | 24.7 | 21.3 | 15.6 | 9.89 | 5.44 | 2.64 | 1.18 | 0.45    | 0.11 | 159  | 149  |          |          |
|                | -40  | 0.06              | 0.32 | 0.83 | 1.75 | 3.36 | 5.85 | 8.96 | 11.9             | 13.8 | 14.0 | 12.2 | 9.19 | 6.06 | 3.47 | 1.80 | 0.86 | 0.34    | 0.07 | 94.8 | 81.1 |          |          |
|                | -48  | 0.04              | 0.23 | 0.60 | 1.18 | 2.07 | 3.30 | 4.84 | 6.20             | 6.96 | 6.87 | 5.99 | 4.60 | 3.14 | 1.95 | 1.12 | 0.55 | 0.21    | 0.02 | 49.9 | 24.4 |          |          |
|                | -56  | 0.00              | 0.11 | 0.34 | 0.67 | 1.13 | 1.68 | 2.25 | 2.77             | 3.09 | 3.09 | 2.81 | 2.33 | 1.74 | 1.17 | 0.69 | 0.34 | 0.10    | 0.01 | 24.3 | 0.00 |          |          |
| -64            | 0.00 | 0.01              | 0.14 | 0.33 | 0.58 | 0.87 | 1.19 | 1.46 | 1.63             | 1.64 | 1.50 | 1.24 | 0.94 | 0.63 | 0.36 | 0.15 | 0.03 | 0.00    | 12.7 | 0.00 |      |          |          |
| -72            | 0.00 | 0.00              | 0.02 | 0.07 | 0.19 | 0.33 | 0.48 | 0.61 | 0.70             | 0.70 | 0.64 | 0.52 | 0.38 | 0.23 | 0.09 | 0.03 | 0.00 | 0.00    | 4.99 | 0.00 |      |          |          |
|                | -72  | -64               | -56  | -48  | -40  | -32  | -24  | -16  | HORIZONTAL (DEG) |      |      |      | 16   | 24   | 32   | 40   | 48   | 56      | 64   | 72   |      |          |          |
| $\Phi$ t       | 1.15 | 5.30              | 14.5 | 33.6 | 70.3 | 130  | 212  | 296  | 350              | 352  | 299  | 216  | 134  | 72.4 | 34.5 | 14.8 | 5.31 | 1.15    | 2242 | ---  |      |          |          |
| $\Phi$ a       | 0.00 | 0.00              | 0.00 | 10.1 | 53.8 | 115  | 198  | 283  | 338              | 340  | 286  | 202  | 120  | 56.2 | 11.3 | 0.00 | 0.00 | 0.00    | ---  | 2013 |      |          |          |

one-half-peak spread: U:26.5,D:22.2 , L:24.2,R:23.6

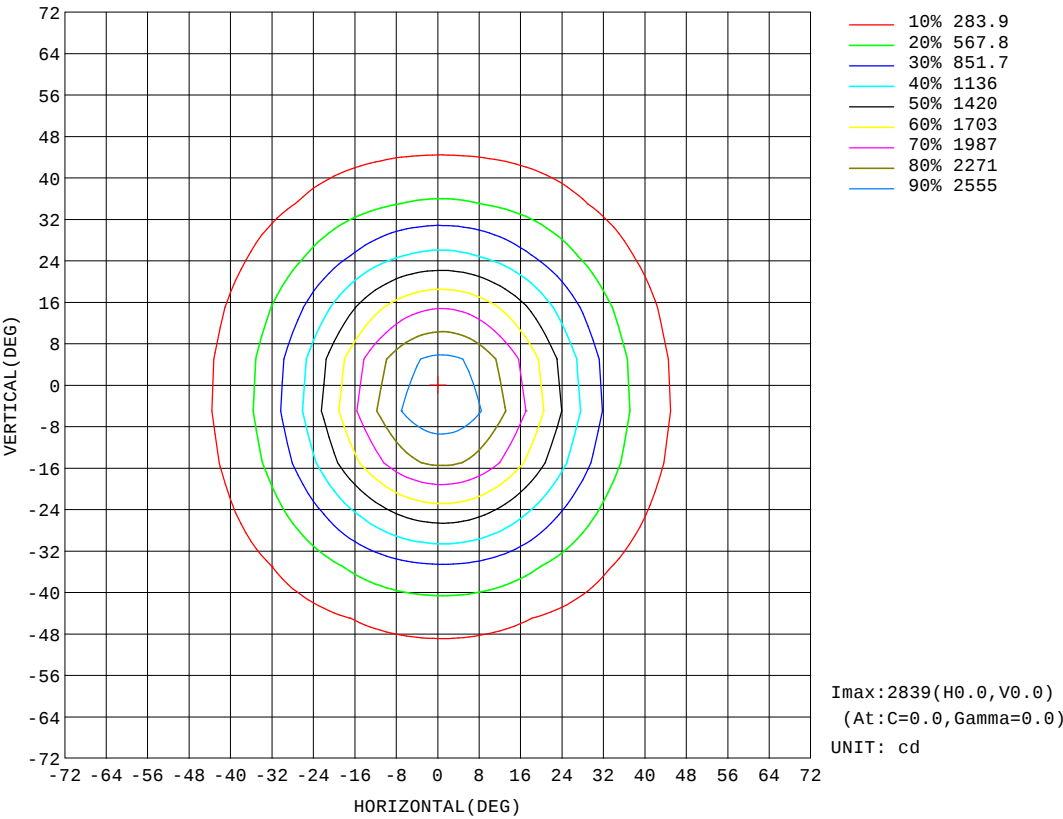
NEMA Beam Type: Type 5

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-07-03

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

|                                                                  |          |                       |
|------------------------------------------------------------------|----------|-----------------------|
| Test:U:221.1V I:0.1391A P:18.73W PF:0.6088 Lamp Flux:2243.3x1 lm |          |                       |
| NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S                         | TYPE:LED | WEIGHT:               |
| DIM.:                                                            | SPEC.:   | SERIAL No.:2024070007 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:     |

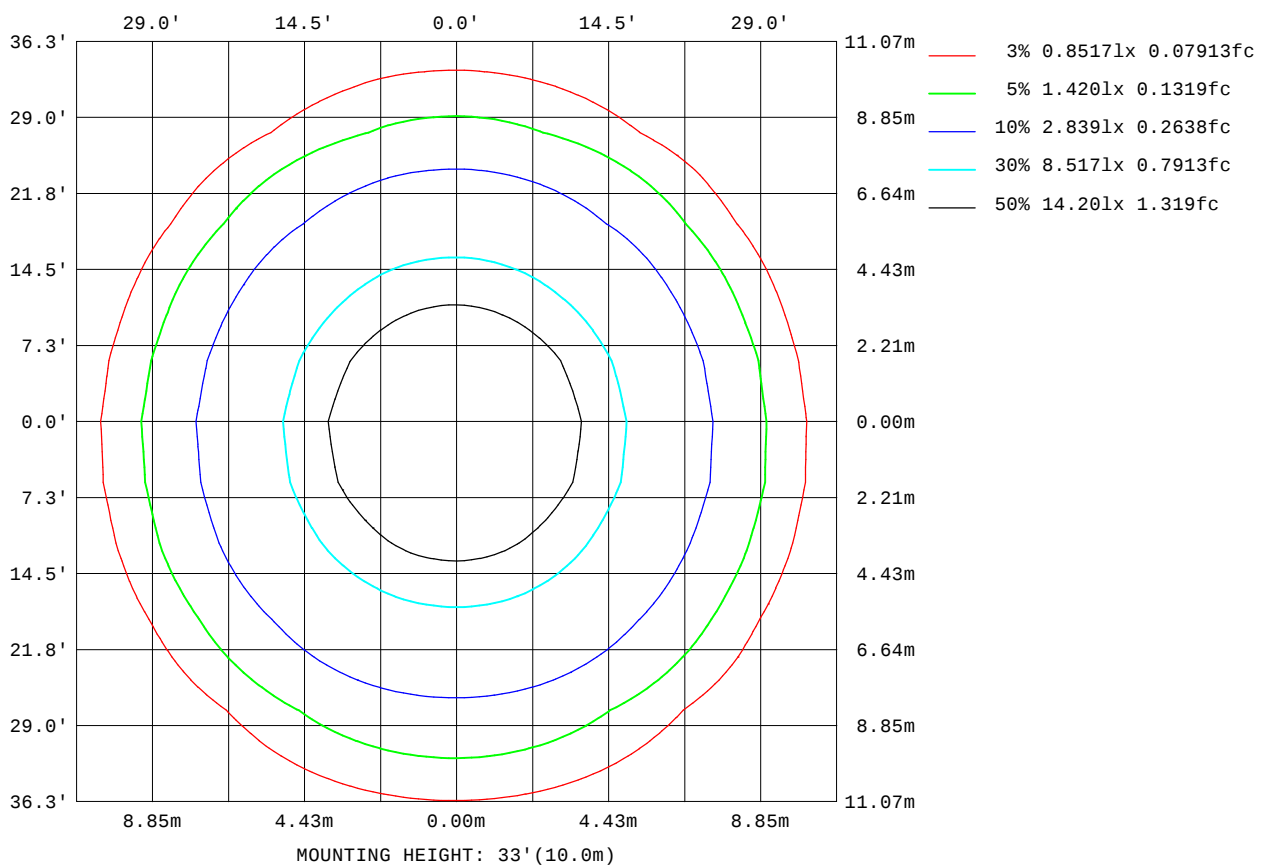


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-07-03

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                  |          |                       |
|------------------------------------------------------------------|----------|-----------------------|
| Test:U:221.1V I:0.1391A P:18.73W PF:0.6088 Lamp Flux:2243.3x1 lm |          |                       |
| NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S                         | TYPE:LED | WEIGHT:               |
| DIM.:                                                            | SPEC.:   | SERIAL No.:2024070007 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:     |

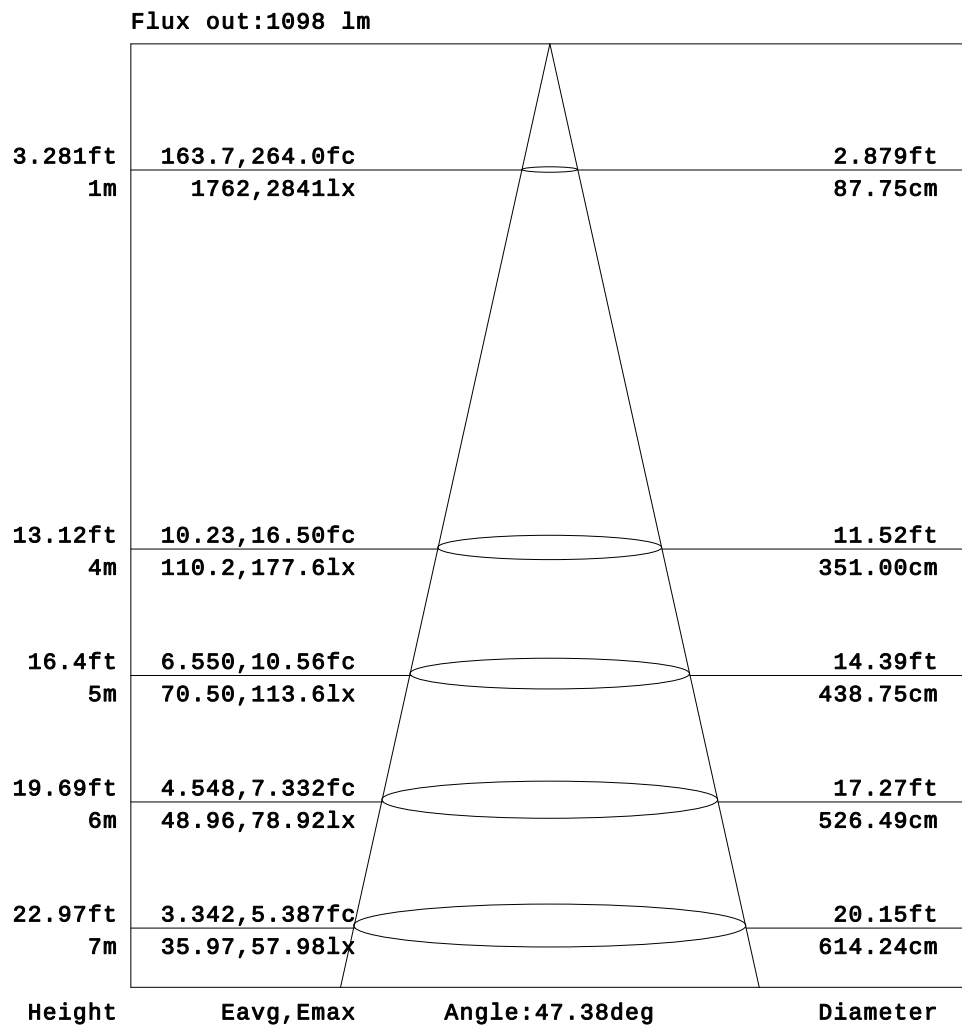


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-07-03

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                  |          |                       |
|------------------------------------------------------------------|----------|-----------------------|
| Test:U:221.1V I:0.1391A P:18.73W PF:0.6088 Lamp Flux:2243.3x1 lm |          |                       |
| NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S                         | TYPE:LED | WEIGHT:               |
| DIM.:                                                            | SPEC.:   | SERIAL No.:2024070007 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:     |

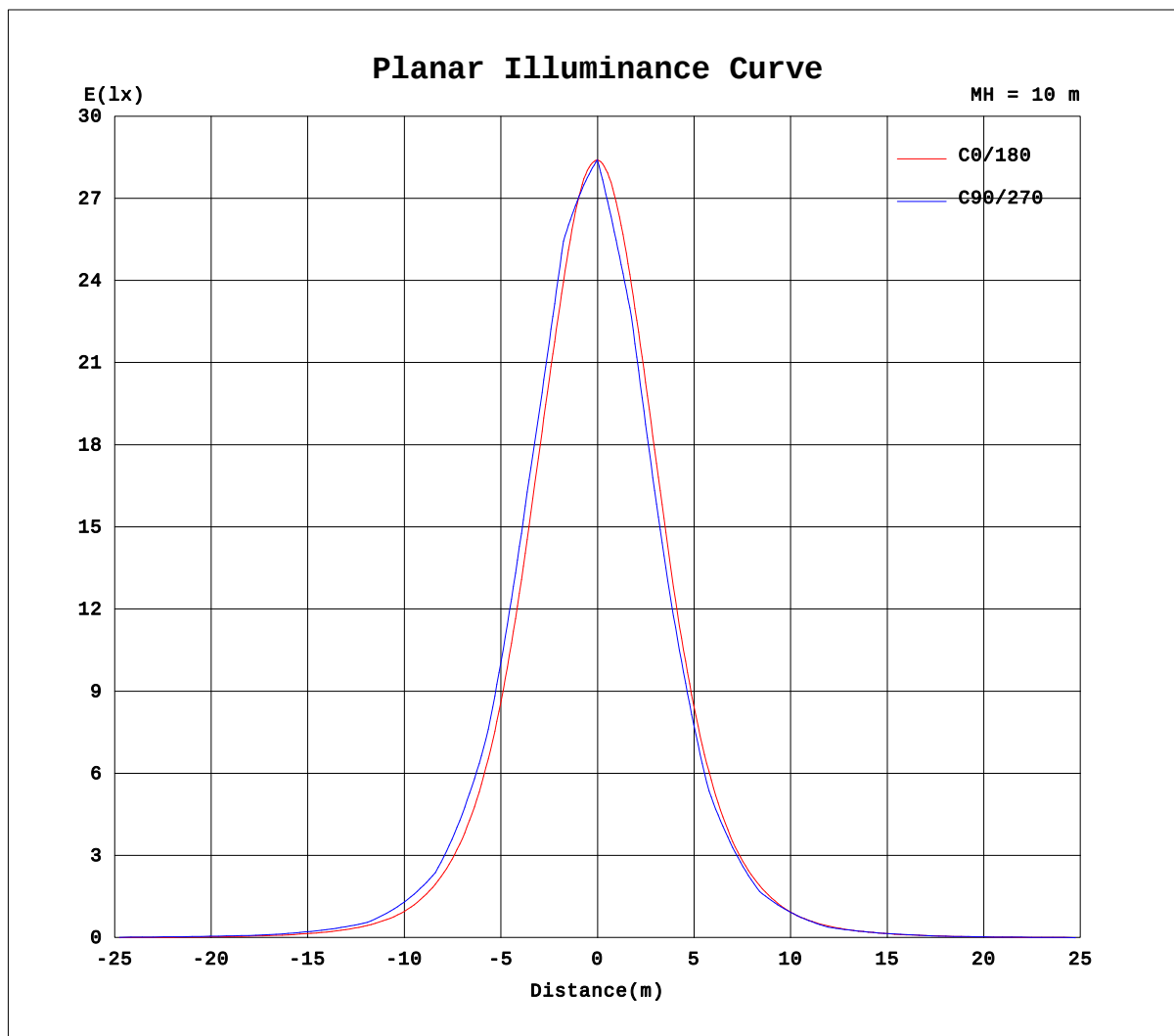


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-07-03

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
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: 2024-07-03

V( $\beta$ ) Range: -80 - 80DEG  
V( $\beta$ ) Interval: 5.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity: 83%  
Test Distance: 8.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                  |          |                       |
|------------------------------------------------------------------|----------|-----------------------|
| Test:U:221.1V I:0.1391A P:18.73W PF:0.6088 Lamp Flux:2243.3x1 lm |          |                       |
| NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S                         | TYPE:LED | WEIGHT:               |
| DIM.:                                                            | SPEC.:   | SERIAL No.:2024070007 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:     |

|             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| Table--1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT: cd |      |      |
| H(°) \ V(°) | -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 | 1.80 | 3.72 | 5.68 | 7.65 | 9.63 | 11.5 | 13.1     | 14.3 | 14.8 |
| -70         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 4.36 | 8.23 | 12.1 | 16.1 | 20.0 | 23.7 | 26.8     | 29.0 | 29.5 |
| -65         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.22 | 7.05 | 10.8 | 16.6 | 22.9 | 29.2 | 35.7 | 42.1 | 47.9 | 52.8     | 56.1 | 57.3 |
| -60         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 8.06 | 15.6 | 23.1 | 31.4 | 40.0 | 48.8 | 57.9 | 66.7 | 74.3 | 80.4     | 84.1 | 85.0 |
| -55         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 6.13 | 15.1 | 25.1 | 36.1 | 48.6 | 62.6 | 77.8 | 93.7 | 110  | 124  | 137      | 145  | 148  |
| -50         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.47 | 14.4 | 26.1 | 38.7 | 53.8 | 71.2 | 91.0 | 113  | 136  | 159  | 180  | 197      | 208  | 212  |
| -45         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.45 | 19.2 | 33.4 | 50.5 | 71.0 | 96.6 | 128  | 166  | 209  | 256  | 299  | 336      | 361  | 371  |
| -40         | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | 14.3 | 29.2 | 47.1 | 69.7 | 97.5 | 134  | 180  | 235  | 299  | 370  | 435  | 487      | 520  | 531  |
| -35         | 0.00 | 0.00 | 0.00 | 0.00 | 2.10 | 15.5 | 32.1 | 52.9 | 80.2 | 116  | 168  | 235  | 321  | 420  | 530  | 637  | 728      | 793  | 822  |
| -30         | 0.00 | 0.00 | 0.00 | 0.00 | 7.15 | 22.8 | 42.4 | 68.5 | 103  | 154  | 225  | 321  | 444  | 583  | 734  | 877  | 1001     | 1084 | 1115 |
| -25         | 0.00 | 0.00 | 0.00 | 0.00 | 6.45 | 22.8 | 43.7 | 72.2 | 112  | 170  | 258  | 381  | 537  | 724  | 937  | 1151 | 1343     | 1479 | 1537 |
| -20         | 0.00 | 0.00 | 0.00 | 0.00 | 12.0 | 30.4 | 55.1 | 89.7 | 140  | 218  | 336  | 496  | 701  | 947  | 1229 | 1504 | 1751     | 1910 | 1961 |
| -15         | 0.00 | 0.00 | 0.00 | 0.00 | 9.57 | 27.9 | 52.6 | 87.8 | 140  | 221  | 345  | 520  | 750  | 1037 | 1371 | 1710 | 2009     | 2223 | 2311 |
| -10         | 0.00 | 0.00 | 0.00 | 0.01 | 13.9 | 34.2 | 62.4 | 103  | 167  | 266  | 417  | 625  | 903  | 1255 | 1653 | 2042 | 2371     | 2591 | 2663 |
| -5          | 0.00 | 0.00 | 0.00 | 0.00 | 10.8 | 30.3 | 57.1 | 96.2 | 155  | 248  | 395  | 597  | 872  | 1220 | 1625 | 2036 | 2387     | 2642 | 2750 |
| 0           | 0.00 | 0.00 | 0.00 | 0.00 | 14.7 | 35.6 | 65.4 | 109  | 174  | 279  | 445  | 666  | 967  | 1340 | 1768 | 2181 | 2526     | 2763 | 2839 |
| 5           | 0.00 | 0.00 | 0.00 | 0.00 | 10.1 | 29.3 | 55.7 | 94.1 | 150  | 241  | 381  | 575  | 835  | 1162 | 1542 | 1932 | 2265     | 2504 | 2605 |
| 10          | 0.00 | 0.00 | 0.00 | 0.01 | 12.4 | 32.1 | 59.5 | 98.7 | 157  | 249  | 387  | 576  | 822  | 1130 | 1477 | 1830 | 2116     | 2310 | 2374 |
| 15          | 0.00 | 0.00 | 0.00 | 0.00 | 7.48 | 25.2 | 48.7 | 82.0 | 129  | 202  | 310  | 463  | 658  | 899  | 1178 | 1469 | 1721     | 1897 | 1971 |
| 20          | 0.00 | 0.00 | 0.00 | 0.00 | 9.09 | 26.6 | 49.6 | 81.6 | 126  | 192  | 286  | 421  | 582  | 778  | 997  | 1218 | 1409     | 1532 | 1570 |
| 25          | 0.00 | 0.00 | 0.00 | 0.00 | 3.48 | 18.7 | 38.1 | 64.1 | 98.8 | 147  | 218  | 316  | 437  | 583  | 745  | 910  | 1056     | 1157 | 1198 |
| 30          | 0.00 | 0.00 | 0.00 | 0.00 | 3.27 | 17.8 | 35.8 | 58.9 | 88.3 | 128  | 184  | 256  | 347  | 451  | 560  | 665  | 754      | 808  | 824  |
| 35          | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 10.5 | 25.7 | 44.2 | 67.5 | 96.9 | 136  | 186  | 249  | 320  | 396  | 471  | 538      | 583  | 601  |
| 40          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.82 | 22.3 | 37.9 | 57.1 | 79.6 | 106  | 139  | 177  | 220  | 263  | 306  | 345      | 369  | 377  |
| 45          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 12.5 | 25.3 | 40.1 | 57.0 | 76.4 | 99.6 | 126  | 155  | 185  | 213  | 239      | 256  | 264  |
| 50          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.68 | 18.2 | 29.4 | 41.7 | 55.2 | 70.0 | 86.0 | 102  | 118  | 132  | 142      | 148  | 150  |
| 55          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.84 | 8.00 | 16.5 | 25.9 | 36.0 | 46.6 | 58.0 | 69.5 | 80.5 | 90.3 | 97.9     | 103  | 105  |
| 60          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 7.30 | 14.2 | 20.9 | 27.7 | 34.6 | 41.2 | 47.3 | 52.2 | 56.0     | 58.1 | 58.6 |
| 65          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.94 | 6.41 | 9.80 | 13.1 | 18.0 | 22.6 | 26.8 | 30.3 | 32.9     | 34.4 | 34.7 |
| 70          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 3.23 | 5.77 | 7.86 | 9.52 | 10.6     | 11.0 | 10.7 |
| 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 | 1.32 | 2.65 | 3.74 | 4.62 | 5.20     | 5.48 | 5.41 |
| 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:2024-07-03

V(β) Range:-80 - 80DEG  
V(β) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                  |          |                       |
|------------------------------------------------------------------|----------|-----------------------|
| Test:U:221.1V I:0.1391A P:18.73W PF:0.6088 Lamp Flux:2243.3x1 lm |          |                       |
| NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S                         | TYPE:LED | WEIGHT:               |
| DIM.:                                                            | SPEC.:   | SERIAL No.:2024070007 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION 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              | 14.5 | 13.7 | 12.5 | 11.0 | 9.27 | 7.30 | 5.16 | 2.82 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -70              | 28.8 | 27.1 | 24.4 | 21.4 | 17.8 | 13.7 | 9.44 | 4.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -65              | 56.5 | 54.1 | 50.1 | 44.9 | 39.0 | 32.8 | 26.0 | 19.2 | 12.3 | 8.03 | 3.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -60              | 83.5 | 79.7 | 73.8 | 66.1 | 57.9 | 49.2 | 39.9 | 31.1 | 22.6 | 14.4 | 5.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -55              | 146  | 140  | 129  | 115  | 99.9 | 83.8 | 68.1 | 53.3 | 39.9 | 28.1 | 17.0 | 7.38 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -50              | 207  | 196  | 179  | 159  | 136  | 112  | 90.1 | 69.9 | 52.2 | 37.3 | 24.1 | 12.5 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -45              | 365  | 344  | 310  | 268  | 223  | 178  | 139  | 105  | 77.6 | 55.3 | 36.8 | 21.8 | 8.61 | 0.47 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -40              | 517  | 480  | 426  | 360  | 292  | 228  | 173  | 128  | 93.4 | 65.1 | 43.1 | 25.6 | 11.4 | 0.01 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -35              | 809  | 756  | 669  | 565  | 454  | 351  | 259  | 183  | 129  | 89.1 | 58.8 | 36.1 | 18.8 | 4.33 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -30              | 1087 | 1001 | 873  | 725  | 573  | 435  | 310  | 214  | 147  | 99.4 | 64.3 | 38.9 | 20.2 | 4.78 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -25              | 1508 | 1395 | 1216 | 1002 | 784  | 588  | 422  | 288  | 192  | 126  | 81.3 | 49.3 | 26.8 | 9.79 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -20              | 1899 | 1727 | 1477 | 1190 | 912  | 669  | 473  | 318  | 207  | 132  | 83.5 | 49.5 | 26.1 | 8.60 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -15              | 2264 | 2086 | 1807 | 1472 | 1130 | 828  | 582  | 393  | 251  | 159  | 100  | 59.6 | 32.8 | 13.4 | 0.08 | 0.00 | 0.00     | 0.00 |  |
| -10              | 2578 | 2346 | 2008 | 1615 | 1219 | 877  | 607  | 404  | 252  | 158  | 98.0 | 57.2 | 30.7 | 11.4 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| -5               | 2693 | 2471 | 2140 | 1746 | 1333 | 966  | 671  | 448  | 283  | 177  | 109  | 64.2 | 35.4 | 14.8 | 0.11 | 0.00 | 0.00     | 0.00 |  |
| 0                | 2744 | 2476 | 2122 | 1710 | 1288 | 924  | 634  | 418  | 262  | 163  | 99.5 | 57.7 | 30.8 | 11.1 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 5                | 2552 | 2343 | 2032 | 1657 | 1268 | 923  | 643  | 430  | 271  | 170  | 105  | 62.2 | 34.2 | 13.9 | 0.03 | 0.00 | 0.00     | 0.00 |  |
| 10               | 2300 | 2094 | 1801 | 1447 | 1101 | 799  | 557  | 371  | 232  | 147  | 91.4 | 53.7 | 28.3 | 9.59 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 15               | 1930 | 1778 | 1548 | 1268 | 984  | 727  | 517  | 349  | 224  | 143  | 90.7 | 54.3 | 29.2 | 10.7 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 20               | 1514 | 1378 | 1189 | 972  | 757  | 563  | 402  | 271  | 178  | 115  | 73.4 | 43.4 | 21.9 | 5.32 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 25               | 1171 | 1081 | 949  | 791  | 630  | 478  | 346  | 240  | 162  | 108  | 69.6 | 41.9 | 21.7 | 5.63 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 30               | 800  | 739  | 649  | 545  | 439  | 335  | 243  | 173  | 121  | 82.8 | 53.3 | 31.4 | 14.5 | 0.80 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 35               | 589  | 550  | 491  | 418  | 342  | 268  | 199  | 145  | 104  | 72.1 | 47.3 | 28.1 | 12.5 | 1.46 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 40               | 367  | 342  | 305  | 261  | 215  | 172  | 131  | 99.0 | 72.7 | 50.4 | 32.9 | 18.0 | 4.87 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 45               | 259  | 244  | 221  | 193  | 162  | 132  | 103  | 79.0 | 58.7 | 41.3 | 26.7 | 13.8 | 3.68 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 50               | 147  | 139  | 127  | 113  | 97.0 | 80.4 | 64.8 | 50.5 | 37.4 | 25.9 | 15.2 | 4.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 55               | 103  | 97.8 | 90.1 | 80.7 | 69.7 | 58.1 | 46.9 | 36.5 | 26.6 | 17.4 | 8.74 | 3.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 60               | 57.2 | 54.1 | 49.5 | 43.9 | 37.6 | 31.1 | 24.6 | 18.5 | 12.0 | 5.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 65               | 33.8 | 31.5 | 28.3 | 24.4 | 20.0 | 16.2 | 13.0 | 9.86 | 6.68 | 3.32 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |  |
| 70               | 9.63 | 7.87 | 5.64 | 3.16 | 0.63 | 0.00 | 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               | 4.95 | 4.13 | 3.07 | 1.83 | 0.58 | 0.00 | 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  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-07-03

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks: