

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                    |                         |
|------------------------------------|-------------------------|
| Maximum Intensity                  | 989.3 cd per klm.       |
| (Luminaire orientation as tested.) | 1.5 degrees vertical    |
|                                    | 10.0 degrees horizontal |

|             |                |               |
|-------------|----------------|---------------|
| Beam Spread | At 10% of Imax | 70.1V x 87.9H |
|             | At 50% of Imax | 49.8V x 65.9H |
|             | At 90% of Imax | 13.4V x 44.2H |

|           |                |                       |
|-----------|----------------|-----------------------|
| Beam Flux | Total          | 835.6 lumens per klm. |
|           | To 10% of Imax | 797.0 lumens per klm. |
|           | To 50% of Imax | 585.7 lumens per klm. |
|           | To 90% of Imax | 139.3 lumens per klm. |

|              |        |
|--------------|--------|
| Upward LOR   | 0.0 %  |
| Downward LOR | 83.6 % |

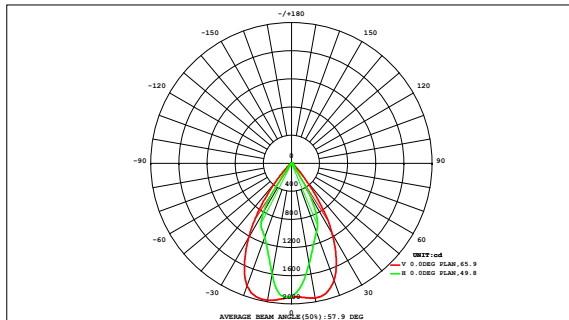
|   |        |
|---|--------|
| Luminaire Efficiency (Light Output Ratio) | 83.5 % |
|---|--------|

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 29 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|                             |                        |                  |
|-----------------------------|------------------------|------------------|
| NAME: 93ZFLD2030/BL         | TYPE: 93ZFLD2030/BL    | WEIGHT: 1        |
| SPEC.:                      | DIM.: 275 x 34 x 68    | SERIAL No.: 0    |
| MFR.: Elmark Industries JSC | SUR.: 8 square 20 x 20 | Shielding Angle: |



| DATA OF LAMP      |               | PHOTOMETRIC DATA |          |
|-------------------|---------------|------------------|----------|
| MODEL             | 93ZFLD2030/BL | Imax (cd)        | 1979     |
| NOMINAL POWER (W) | 20            | AVAILABILITY (%) | 79.8     |
| RATED VOLTAGE (V) | 230           | Avai. FLUX (lm)  | 1596     |
| NOMINAL FLUX (lm) | 2000          | LOR (%)          | 83.5     |
| LAMPS INSIDE      | 1             | TOTAL FLUX (lm)  | 1670     |
| TEST VOLTAGE (V)  | 230           | θ @50% (H,V)     | 66,50DEG |

| VERTICAL (DEG)   | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT:lm |      | Φ t  | Φ a  |
|------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|------|
|                  | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.03 | 0.00 |
| 90               | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.08 | 0.00 |
| 80               | 0.00              | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.07 | 0.09 | 0.10 | 0.10 | 0.09 | 0.07 | 0.04 | 0.02 | 0.01 | 0.00 | 0.00    | 0.00 | 0.66 | 0.00 |
| 70               | 0.00              | 0.00 | 0.00 | 0.03 | 0.07 | 0.13 | 0.21 | 0.27 | 0.29 | 0.29 | 0.28 | 0.22 | 0.14 | 0.07 | 0.03 | 0.00 | 0.00    | 0.00 | 2.02 | 0.00 |
| 60               | 0.00              | 0.00 | 0.01 | 0.07 | 0.19 | 0.42 | 0.74 | 0.96 | 1.08 | 1.09 | 1.01 | 0.79 | 0.46 | 0.20 | 0.07 | 0.01 | 0.00    | 0.00 | 7.12 | 0.00 |
| 50               | 0.00              | 0.00 | 0.03 | 0.17 | 0.65 | 2.96 | 7.39 | 10.5 | 10.9 | 11.1 | 10.8 | 7.86 | 3.30 | 0.74 | 0.17 | 0.03 | 0.00    | 0.00 | 66.6 | 53.6 |
| 40               | 0.00              | 0.00 | 0.06 | 0.33 | 1.83 | 9.57 | 22.8 | 30.4 | 30.8 | 31.2 | 31.3 | 24.0 | 10.5 | 2.08 | 0.32 | 0.05 | 0.00    | 0.00 | 195  | 190  |
| 30               | 0.00              | 0.00 | 0.07 | 0.48 | 3.04 | 14.8 | 31.9 | 40.9 | 40.9 | 41.4 | 41.9 | 33.6 | 16.0 | 3.36 | 0.46 | 0.07 | 0.00    | 0.00 | 269  | 264  |
| 20               | 0.00              | 0.00 | 0.08 | 0.57 | 3.65 | 18.3 | 40.0 | 53.7 | 56.1 | 56.5 | 55.1 | 42.3 | 19.8 | 4.12 | 0.55 | 0.08 | 0.00    | 0.00 | 351  | 346  |
| 10               | 0.00              | 0.00 | 0.08 | 0.56 | 3.52 | 17.5 | 38.0 | 50.7 | 52.3 | 52.9 | 52.1 | 40.2 | 19.0 | 4.06 | 0.55 | 0.08 | 0.00    | 0.00 | 332  | 327  |
| 0                | 0.00              | 0.00 | 0.07 | 0.46 | 2.65 | 13.1 | 28.6 | 37.3 | 37.6 | 38.1 | 38.5 | 30.6 | 14.4 | 3.10 | 0.45 | 0.07 | 0.00    | 0.00 | 245  | 240  |
| -10              | 0.00              | 0.00 | 0.05 | 0.30 | 1.51 | 7.60 | 18.1 | 24.7 | 25.5 | 25.9 | 25.6 | 19.3 | 8.34 | 1.68 | 0.30 | 0.05 | 0.00    | 0.00 | 159  | 153  |
| -20              | 0.00              | 0.00 | 0.03 | 0.15 | 0.51 | 1.86 | 4.16 | 5.39 | 5.63 | 5.64 | 5.43 | 4.27 | 1.99 | 0.54 | 0.14 | 0.03 | 0.00    | 0.00 | 35.8 | 21.1 |
| -30              | 0.00              | 0.00 | 0.01 | 0.06 | 0.15 | 0.32 | 0.52 | 0.66 | 0.74 | 0.75 | 0.69 | 0.56 | 0.34 | 0.16 | 0.06 | 0.01 | 0.00    | 0.00 | 5.04 | 0.00 |
| -40              | 0.00              | 0.00 | 0.00 | 0.02 | 0.05 | 0.10 | 0.16 | 0.20 | 0.21 | 0.21 | 0.20 | 0.17 | 0.11 | 0.05 | 0.02 | 0.00 | 0.00    | 0.00 | 1.51 | 0.00 |
| -50              | 0.00              | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.07 | 0.06 | 0.05 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00    | 0.00 | 0.45 | 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 | 0.04 | 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 | 0.02 | 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 | 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 | 0.00 |
| HORIZONTAL (DEG) |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |      |      |      |
| Φ t              | 0.00              | 0.03 | 0.52 | 3.19 | 17.8 | 86.8 | 193  | 256  | 262  | 265  | 263  | 204  | 94.5 | 20.2 | 3.14 | 0.52 | 0.03    | 0.00 | 1670 | ---  |
| Φ a              | 0.00              | 0.00 | 0.00 | 0.00 | 5.57 | 80.9 | 188  | 251  | 257  | 260  | 258  | 199  | 89.0 | 8.42 | 0.00 | 0.00 | 0.00    | 0.00 | ---  | 1596 |

one-half-peak spread: U:23.1,D:24.7 , L:22.8,R:23.4

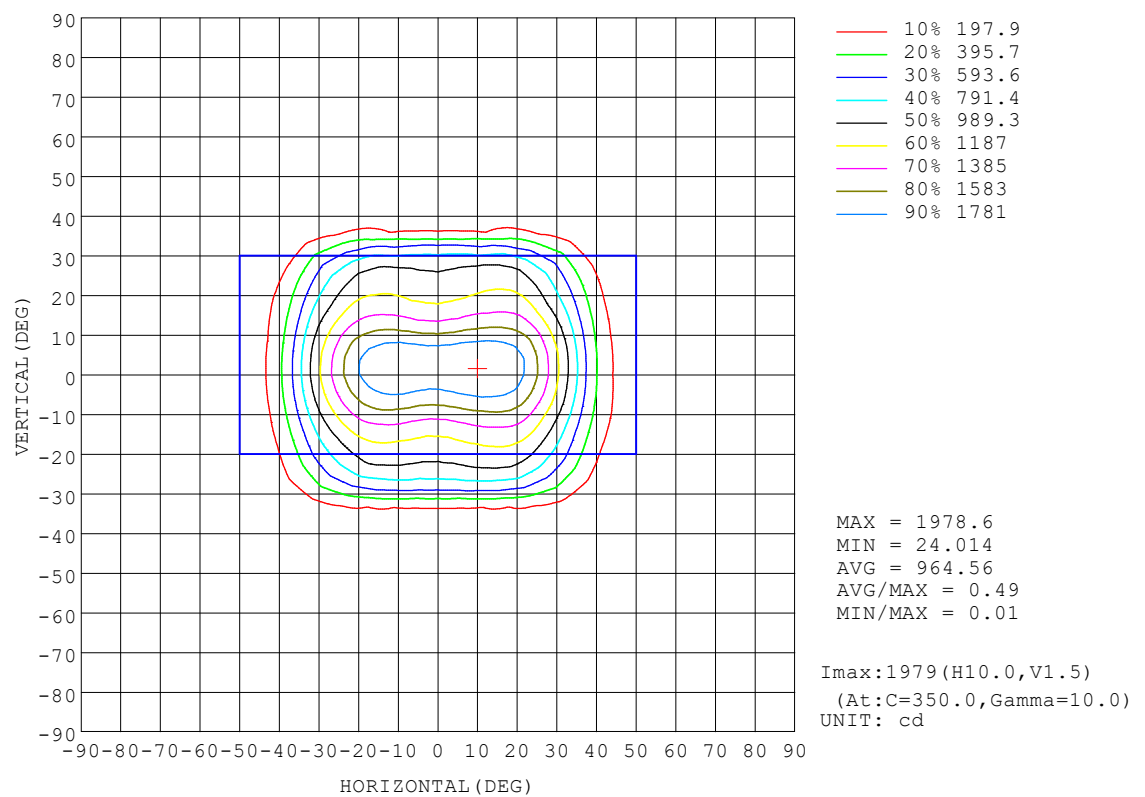
NEMA Beam Type: Type 5

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:29 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

|                             |                        |                  |
|-----------------------------|------------------------|------------------|
| NAME: 93ZFLD2030/BL         | TYPE: 93ZFLD2030/BL    | WEIGHT: 1        |
| SPEC.:                      | DIM.: 275 x 34 x 68    | SERIAL No.: 0    |
| MFR.: Elmark Industries JSC | SUR.: 8 square 20 x 20 | Shielding Angle: |

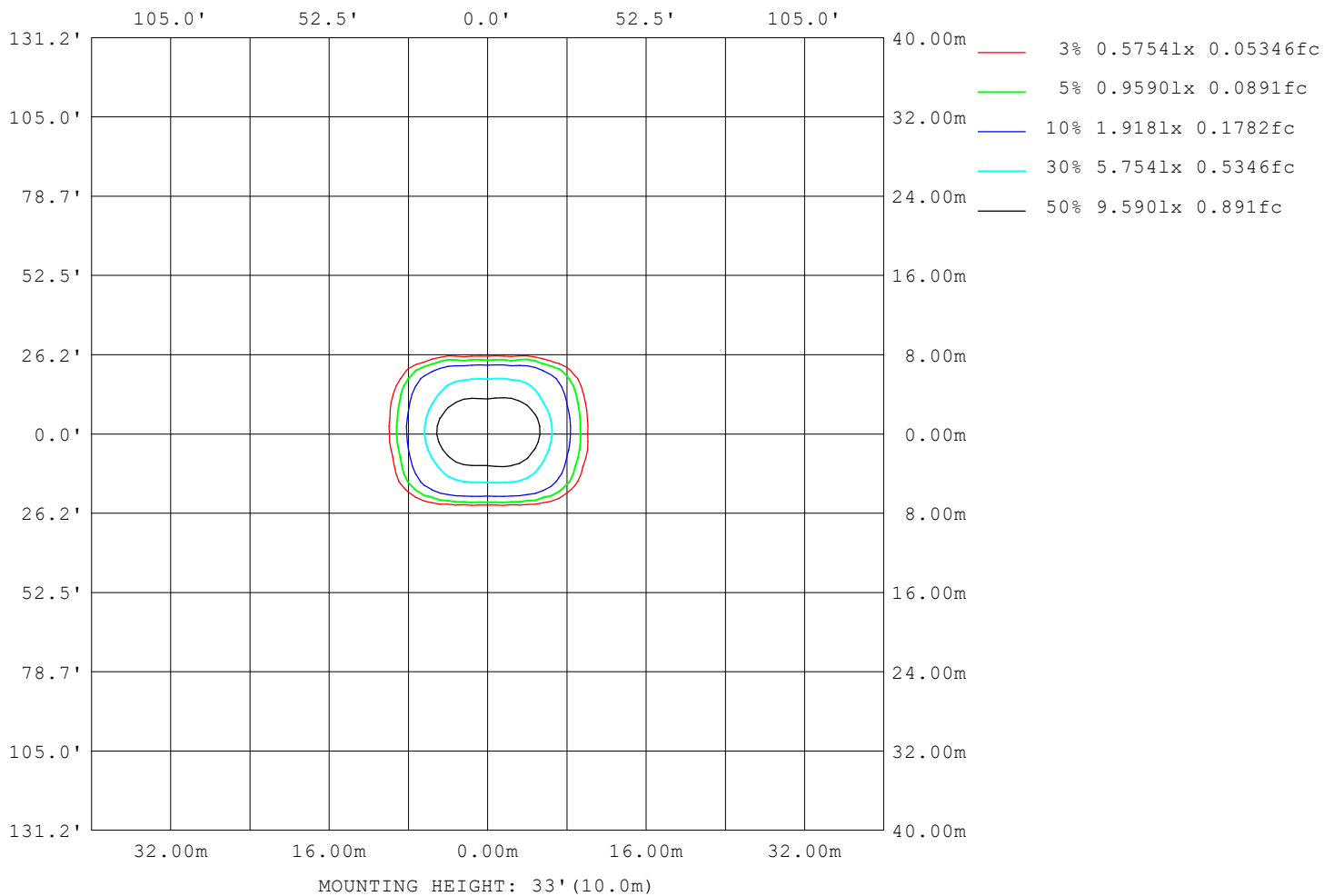


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:29 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

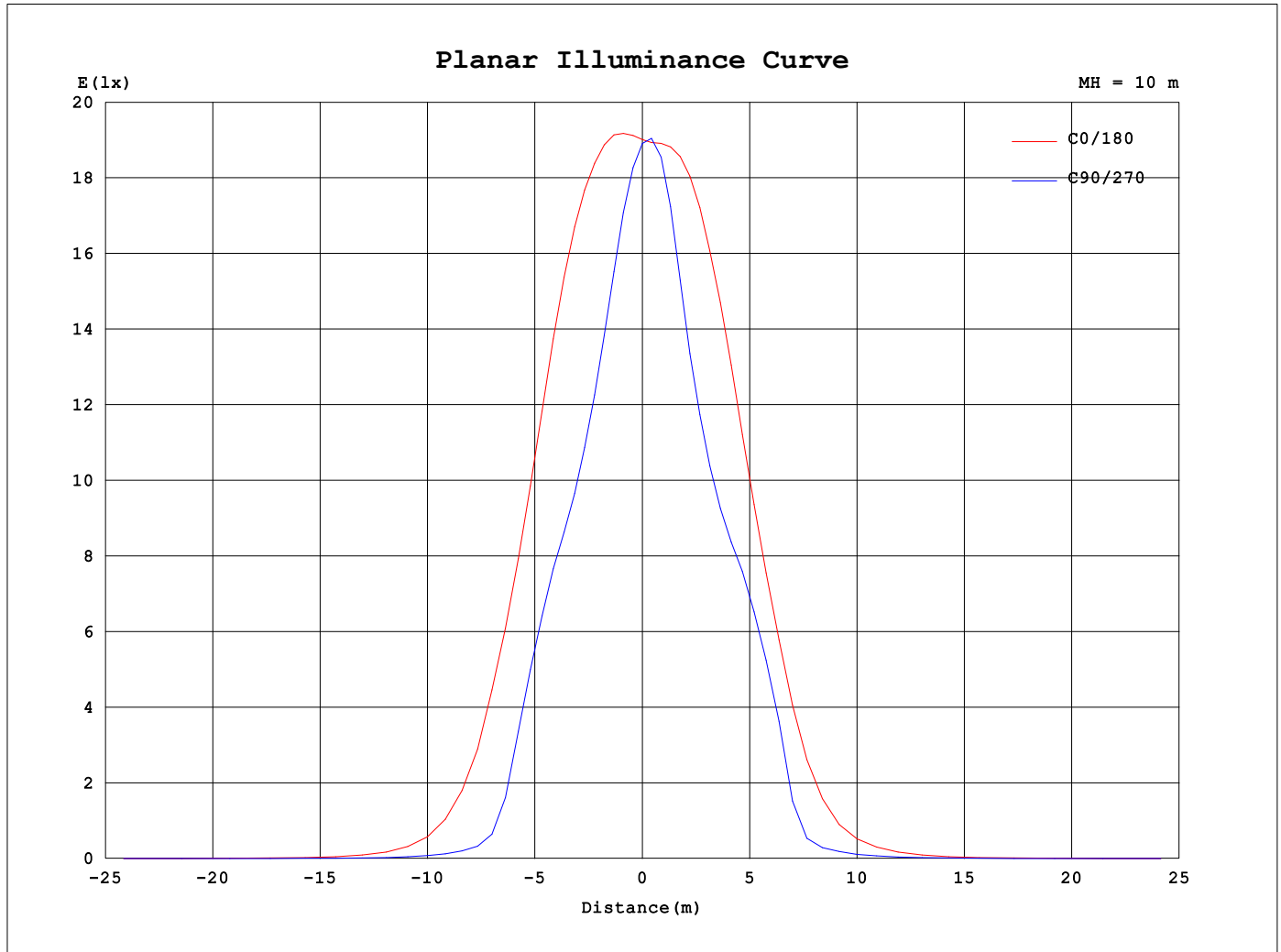
|                             |                        |                  |
|-----------------------------|------------------------|------------------|
| NAME: 93ZFLD2030/BL         | TYPE: 93ZFLD2030/BL    | WEIGHT: 1        |
| SPEC.:                      | DIM.: 275 x 34 x 68    | SERIAL No.: 0    |
| MFR.: Elmark Industries JSC | SUR.: 8 square 20 x 20 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 29 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

# Planar Illuminance Curve

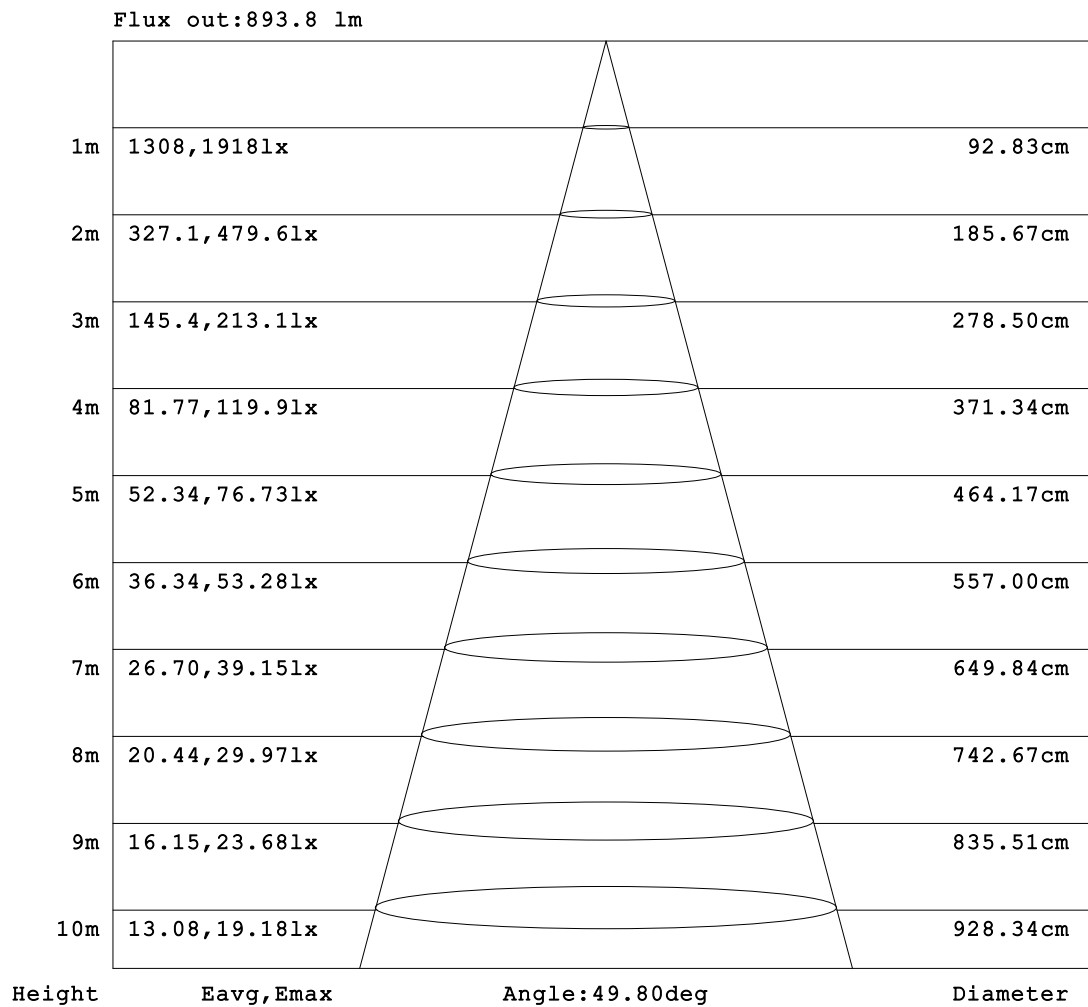


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 29 August 2022

γ Range: 0 - 90DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

**AAI Figure**

|                             |                        |                  |
|-----------------------------|------------------------|------------------|
| NAME: 93ZFLD2030/BL         | TYPE: 93ZFLD2030/BL    | WEIGHT: 1        |
| SPEC.:                      | DIM.: 275 x 34 x 68    | SERIAL No.: 0    |
| MFR.: Elmark Industries JSC | SUR.: 8 square 20 x 20 | Shielding Angle: |



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

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:29 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                             |                        |                  |
|-----------------------------|------------------------|------------------|
| NAME: 93ZFLD2030/BL         | TYPE: 93ZFLD2030/BL    | WEIGHT: 1        |
| SPEC.:                      | DIM.: 275 x 34 x 68    | SERIAL No.: 0    |
| MFR.: Elmark Industries JSC | SUR.: 8 square 20 x 20 | 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                | 0.10 | 0.08 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| -85                | 0.10 | 0.08 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 |
| -80                | 0.10 | 0.08 | 0.06 | 0.06 | 0.07 | 0.07 | 0.06 | 0.06 | 0.07 | 0.06 | 0.05 | 0.06 | 0.07 | 0.06 | 0.05 | 0.06 | 0.07 | 0.06 | 0.04 |
| -75                | 0.10 | 0.08 | 0.06 | 0.07 | 0.08 | 0.08 | 0.06 | 0.08 | 0.09 | 0.09 | 0.08 | 0.09 | 0.10 | 0.09 | 0.08 | 0.09 | 0.10 | 0.09 | 0.07 |
| -70                | 0.10 | 0.08 | 0.06 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.14 | 0.17 | 0.19 | 0.29 | 0.32 | 0.40 | 0.52 | 0.60 | 0.61 | 0.61 | 0.58 |
| -65                | 0.10 | 0.08 | 0.07 | 0.07 | 0.09 | 0.11 | 0.12 | 0.16 | 0.32 | 0.52 | 0.77 | 1.01 | 1.28 | 1.56 | 1.87 | 2.09 | 2.23 | 2.28 | 2.27 |
| -60                | 0.10 | 0.08 | 0.07 | 0.07 | 0.11 | 0.14 | 0.18 | 0.43 | 0.82 | 1.21 | 1.63 | 2.13 | 2.62 | 3.08 | 3.52 | 3.82 | 3.94 | 4.01 | 4.00 |
| -55                | 0.10 | 0.08 | 0.07 | 0.08 | 0.13 | 0.18 | 0.44 | 0.99 | 1.63 | 2.21 | 2.98 | 3.81 | 4.63 | 5.41 | 5.96 | 6.36 | 6.49 | 6.55 | 6.53 |
| -50                | 0.10 | 0.08 | 0.07 | 0.09 | 0.15 | 0.32 | 1.00 | 1.90 | 2.81 | 3.80 | 4.99 | 6.59 | 8.19 | 9.49 | 10.4 | 11.0 | 11.3 | 11.5 | 11.5 |
| -45                | 0.10 | 0.08 | 0.07 | 0.10 | 0.17 | 0.57 | 1.85 | 3.21 | 4.53 | 6.34 | 8.41 | 11.7 | 14.6 | 17.4 | 19.4 | 20.6 | 21.8 | 22.3 | 22.5 |
| -40                | 0.10 | 0.08 | 0.08 | 0.11 | 0.22 | 1.22 | 2.93 | 5.09 | 7.49 | 11.1 | 16.5 | 23.6 | 31.6 | 37.9 | 39.5 | 43.0 | 45.0 | 45.0 | 45.5 |
| -35                | 0.10 | 0.09 | 0.08 | 0.12 | 0.40 | 1.95 | 4.33 | 7.75 | 12.6 | 20.2 | 35.6 | 57.9 | 95.4 | 115  | 132  | 133  | 137  | 122  | 118  |
| -30                | 0.10 | 0.09 | 0.09 | 0.13 | 0.57 | 2.79 | 5.91 | 11.2 | 20.7 | 37.1 | 77.2 | 159  | 290  | 382  | 461  | 510  | 517  | 511  | 519  |
| -25                | 0.10 | 0.09 | 0.09 | 0.13 | 0.92 | 3.60 | 7.63 | 15.3 | 31.4 | 60.8 | 142  | 296  | 498  | 677  | 816  | 867  | 885  | 865  | 864  |
| -20                | 0.10 | 0.09 | 0.09 | 0.13 | 1.29 | 4.43 | 9.44 | 19.0 | 40.7 | 86.9 | 195  | 411  | 673  | 870  | 1022 | 1091 | 1080 | 1054 | 1041 |
| -15                | 0.10 | 0.09 | 0.09 | 0.13 | 1.59 | 5.01 | 11.0 | 23.3 | 50.5 | 109  | 245  | 506  | 814  | 1039 | 1210 | 1271 | 1263 | 1224 | 1207 |
| -10                | 0.10 | 0.09 | 0.09 | 0.13 | 1.80 | 5.42 | 11.9 | 26.1 | 58.2 | 128  | 300  | 612  | 959  | 1227 | 1430 | 1516 | 1513 | 1465 | 1450 |
| -5                 | 0.10 | 0.09 | 0.09 | 0.12 | 1.92 | 5.67 | 12.5 | 27.7 | 63.1 | 141  | 337  | 695  | 1087 | 1400 | 1634 | 1754 | 1779 | 1740 | 1728 |
| 0                  | 0.10 | 0.10 | 0.10 | 0.11 | 1.96 | 5.74 | 12.6 | 28.1 | 64.8 | 147  | 353  | 739  | 1163 | 1507 | 1773 | 1911 | 1944 | 1914 | 1902 |
| 5                  | 0.10 | 0.10 | 0.10 | 0.11 | 1.95 | 5.71 | 12.6 | 28.1 | 64.6 | 146  | 352  | 730  | 1141 | 1480 | 1738 | 1873 | 1913 | 1892 | 1877 |
| 10                 | 0.10 | 0.10 | 0.10 | 0.11 | 1.86 | 5.51 | 12.1 | 26.8 | 61.0 | 136  | 326  | 672  | 1048 | 1343 | 1559 | 1649 | 1662 | 1625 | 1601 |
| 15                 | 0.10 | 0.09 | 0.10 | 0.12 | 1.67 | 5.13 | 11.2 | 24.3 | 54.4 | 124  | 281  | 581  | 916  | 1156 | 1333 | 1391 | 1379 | 1325 | 1303 |
| 20                 | 0.10 | 0.09 | 0.10 | 0.12 | 1.40 | 4.59 | 9.76 | 20.3 | 45.2 | 100  | 240  | 485  | 782  | 1001 | 1153 | 1194 | 1183 | 1140 | 1116 |
| 25                 | 0.10 | 0.09 | 0.10 | 0.11 | 1.04 | 3.82 | 8.13 | 16.7 | 35.7 | 72.9 | 174  | 375  | 634  | 846  | 1008 | 1070 | 1064 | 1034 | 1020 |
| 30                 | 0.10 | 0.09 | 0.10 | 0.11 | 0.68 | 3.09 | 6.56 | 12.7 | 24.0 | 46.4 | 102  | 230  | 438  | 588  | 723  | 798  | 786  | 810  | 808  |
| 35                 | 0.10 | 0.09 | 0.10 | 0.11 | 0.45 | 2.28 | 5.03 | 8.99 | 15.0 | 25.8 | 48.4 | 99.0 | 167  | 229  | 320  | 306  | 311  | 298  | 277  |
| 40                 | 0.10 | 0.09 | 0.10 | 0.11 | 0.18 | 1.53 | 3.57 | 6.11 | 9.16 | 13.9 | 21.7 | 33.7 | 47.7 | 58.6 | 61.3 | 68.3 | 68.0 | 66.1 | 64.9 |
| 45                 | 0.10 | 0.09 | 0.10 | 0.10 | 0.12 | 0.80 | 2.35 | 4.00 | 5.72 | 7.97 | 10.7 | 15.1 | 19.0 | 23.7 | 27.4 | 29.5 | 31.9 | 32.8 | 32.9 |
| 50                 | 0.10 | 0.09 | 0.10 | 0.10 | 0.10 | 0.35 | 1.35 | 2.45 | 3.63 | 4.86 | 6.35 | 8.37 | 10.5 | 12.7 | 14.2 | 15.3 | 16.1 | 16.4 | 16.3 |
| 55                 | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 | 0.12 | 0.61 | 1.35 | 2.17 | 2.93 | 3.89 | 4.93 | 6.06 | 7.23 | 7.97 | 8.57 | 8.82 | 8.91 | 8.83 |
| 60                 | 0.10 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 | 0.19 | 0.62 | 1.17 | 1.70 | 2.26 | 2.89 | 3.58 | 4.21 | 4.75 | 5.13 | 5.31 | 5.36 | 5.30 |
| 65                 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.21 | 0.49 | 0.82 | 1.19 | 1.55 | 1.97 | 2.36 | 2.76 | 3.05 | 3.25 | 3.30 | 3.26 |
| 70                 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.12 | 0.27 | 0.41 | 0.59 | 0.78 | 1.00 | 1.23 | 1.41 | 1.57 | 1.62 | 1.60 |
| 75                 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.10 | 0.10 | 0.11 | 0.13 | 0.13 | 0.11 | 0.10 | 0.11 | 0.13 |
| 80                 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.10 |
| 85                 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 |
| 90                 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:29 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                             |                        |                  |
|-----------------------------|------------------------|------------------|
| NAME: 93ZFLD2030/BL         | TYPE: 93ZFLD2030/BL    | WEIGHT: 1        |
| SPEC.:                      | DIM.: 275 x 34 x 68    | SERIAL No.: 0    |
| MFR.: Elmark Industries JSC | SUR.: 8 square 20 x 20 | 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                | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |  |
| -85                | 0.05 | 0.05 | 0.05 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |  |
| -80                | 0.06 | 0.07 | 0.06 | 0.05 | 0.06 | 0.07 | 0.06 | 0.05 | 0.07 | 0.08 | 0.07 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |  |
| -75                | 0.09 | 0.10 | 0.09 | 0.08 | 0.09 | 0.10 | 0.09 | 0.09 | 0.10 | 0.10 | 0.08 | 0.07 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |  |
| -70                | 0.61 | 0.62 | 0.63 | 0.56 | 0.44 | 0.35 | 0.31 | 0.21 | 0.19 | 0.15 | 0.11 | 0.09 | 0.09 | 0.09 | 0.07 | 0.07 | 0.07 | 0.07 |  |
| -65                | 2.31 | 2.29 | 2.19 | 2.00 | 1.69 | 1.40 | 1.10 | 0.83 | 0.57 | 0.36 | 0.19 | 0.13 | 0.12 | 0.10 | 0.08 | 0.07 | 0.07 | 0.07 |  |
| -60                | 4.07 | 4.07 | 4.00 | 3.73 | 3.29 | 2.83 | 2.32 | 1.77 | 1.30 | 0.89 | 0.48 | 0.19 | 0.15 | 0.12 | 0.08 | 0.07 | 0.07 | 0.07 |  |
| -55                | 6.66 | 6.70 | 6.64 | 6.28 | 5.75 | 4.99 | 4.13 | 3.21 | 2.37 | 1.73 | 1.06 | 0.48 | 0.19 | 0.14 | 0.09 | 0.07 | 0.07 | 0.07 |  |
| -50                | 11.7 | 11.7 | 11.5 | 11.0 | 10.1 | 8.81 | 7.13 | 5.37 | 4.04 | 2.94 | 1.97 | 1.04 | 0.34 | 0.15 | 0.10 | 0.08 | 0.08 | 0.08 |  |
| -45                | 22.8 | 22.6 | 21.6 | 20.5 | 18.5 | 15.7 | 12.6 | 9.06 | 6.67 | 4.71 | 3.27 | 1.88 | 0.62 | 0.18 | 0.11 | 0.08 | 0.08 | 0.07 |  |
| -40                | 45.9 | 46.3 | 44.7 | 41.4 | 39.6 | 33.6 | 25.3 | 17.8 | 11.6 | 7.67 | 5.10 | 2.93 | 1.26 | 0.24 | 0.12 | 0.09 | 0.08 | 0.07 |  |
| -35                | 123  | 136  | 133  | 133  | 115  | 99.3 | 61.9 | 39.1 | 21.4 | 12.8 | 7.67 | 4.30 | 1.97 | 0.46 | 0.14 | 0.09 | 0.08 | 0.07 |  |
| -30                | 513  | 518  | 518  | 480  | 397  | 305  | 169  | 89.9 | 39.7 | 20.9 | 11.0 | 5.84 | 2.81 | 0.67 | 0.16 | 0.10 | 0.08 | 0.07 |  |
| -25                | 877  | 905  | 901  | 862  | 721  | 534  | 330  | 160  | 66.6 | 31.9 | 15.0 | 7.51 | 3.60 | 1.02 | 0.18 | 0.11 | 0.08 | 0.07 |  |
| -20                | 1071 | 1110 | 1129 | 1087 | 940  | 724  | 457  | 227  | 97.6 | 41.6 | 18.7 | 9.28 | 4.44 | 1.40 | 0.19 | 0.12 | 0.08 | 0.07 |  |
| -15                | 1245 | 1290 | 1309 | 1274 | 1117 | 872  | 563  | 289  | 126  | 52.2 | 23.0 | 10.8 | 5.04 | 1.70 | 0.21 | 0.12 | 0.08 | 0.07 |  |
| -10                | 1487 | 1535 | 1551 | 1501 | 1299 | 1020 | 672  | 349  | 158  | 60.1 | 25.5 | 11.7 | 5.48 | 1.93 | 0.22 | 0.13 | 0.08 | 0.07 |  |
| -5                 | 1766 | 1804 | 1798 | 1716 | 1484 | 1152 | 760  | 388  | 169  | 64.4 | 26.8 | 12.3 | 5.76 | 2.07 | 0.23 | 0.13 | 0.08 | 0.07 |  |
| 0                  | 1940 | 1976 | 1963 | 1854 | 1591 | 1222 | 812  | 401  | 164  | 65.2 | 27.0 | 12.4 | 5.86 | 2.13 | 0.24 | 0.13 | 0.08 | 0.07 |  |
| 5                  | 1906 | 1937 | 1923 | 1821 | 1572 | 1208 | 797  | 400  | 164  | 65.1 | 26.8 | 12.2 | 5.75 | 2.08 | 0.22 | 0.13 | 0.08 | 0.07 |  |
| 10                 | 1644 | 1684 | 1692 | 1637 | 1433 | 1108 | 732  | 372  | 153  | 61.2 | 25.4 | 11.7 | 5.48 | 1.95 | 0.21 | 0.13 | 0.08 | 0.07 |  |
| 15                 | 1346 | 1401 | 1423 | 1393 | 1221 | 962  | 632  | 324  | 136  | 54.6 | 22.9 | 10.7 | 5.04 | 1.74 | 0.19 | 0.12 | 0.08 | 0.07 |  |
| 20                 | 1156 | 1201 | 1225 | 1207 | 1052 | 813  | 528  | 268  | 112  | 45.1 | 19.3 | 9.32 | 4.45 | 1.44 | 0.17 | 0.12 | 0.08 | 0.07 |  |
| 25                 | 1049 | 1086 | 1103 | 1058 | 893  | 676  | 414  | 202  | 85.1 | 35.7 | 16.1 | 7.84 | 3.71 | 1.07 | 0.15 | 0.11 | 0.08 | 0.07 |  |
| 30                 | 824  | 802  | 827  | 764  | 629  | 471  | 261  | 128  | 51.7 | 24.0 | 12.3 | 6.36 | 3.01 | 0.71 | 0.13 | 0.11 | 0.08 | 0.07 |  |
| 35                 | 302  | 317  | 316  | 336  | 242  | 181  | 109  | 59.5 | 27.8 | 15.1 | 8.86 | 4.92 | 2.24 | 0.47 | 0.12 | 0.10 | 0.08 | 0.07 |  |
| 40                 | 66.7 | 69.1 | 70.7 | 64.3 | 62.2 | 51.6 | 36.7 | 23.7 | 14.7 | 9.41 | 6.09 | 3.53 | 1.52 | 0.19 | 0.11 | 0.10 | 0.08 | 0.07 |  |
| 45                 | 33.5 | 33.1 | 31.1 | 29.3 | 25.6 | 20.7 | 16.4 | 11.5 | 8.40 | 5.93 | 4.02 | 2.35 | 0.83 | 0.12 | 0.10 | 0.09 | 0.08 | 0.07 |  |
| 50                 | 16.7 | 16.6 | 16.0 | 15.1 | 13.6 | 11.4 | 8.99 | 6.77 | 5.10 | 3.74 | 2.50 | 1.37 | 0.37 | 0.10 | 0.10 | 0.09 | 0.08 | 0.07 |  |
| 55                 | 9.04 | 9.07 | 8.93 | 8.42 | 7.72 | 6.47 | 5.23 | 4.10 | 3.07 | 2.24 | 1.38 | 0.64 | 0.13 | 0.09 | 0.09 | 0.09 | 0.08 | 0.07 |  |
| 60                 | 5.42 | 5.43 | 5.31 | 4.97 | 4.44 | 3.78 | 3.03 | 2.35 | 1.75 | 1.20 | 0.64 | 0.20 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.07 |  |
| 65                 | 3.33 | 3.32 | 3.15 | 2.88 | 2.47 | 2.06 | 1.61 | 1.22 | 0.84 | 0.50 | 0.22 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.07 |  |
| 70                 | 1.64 | 1.61 | 1.47 | 1.30 | 1.06 | 0.83 | 0.62 | 0.43 | 0.27 | 0.12 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.07 |  |
| 75                 | 0.11 | 0.10 | 0.12 | 0.13 | 0.14 | 0.11 | 0.09 | 0.10 | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 | 0.07 |  |
| 80                 | 0.08 | 0.07 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 | 0.07 |  |
| 85                 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 | 0.07 |  |
| 90                 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.08 | 0.07 |  |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:29 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks: