

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                    |                        |
|------------------------------------|------------------------|
| Maximum Intensity                  | 407.5 cd per klm.      |
| (Luminaire orientation as tested.) | 0.0 degrees vertical   |
|                                    | 0.0 degrees horizontal |

|             |                |                 |
|-------------|----------------|-----------------|
| Beam Spread | At 10% of Imax | 156.3V x 173.1H |
|             | At 50% of Imax | 94.5V x 97.4H   |
|             | At 90% of Imax | 35.1V x 33.6H   |

|           |                |                       |
|-----------|----------------|-----------------------|
| Beam Flux | Total          | 997.0 lumens per klm. |
|           | To 10% of Imax | 983.5 lumens per klm. |
|           | To 50% of Imax | 601.1 lumens per klm. |
|           | To 90% of Imax | 107.0 lumens per klm. |

|              |        |
|--------------|--------|
| Upward LOR   | 0.0 %  |
| Downward LOR | 99.7 % |

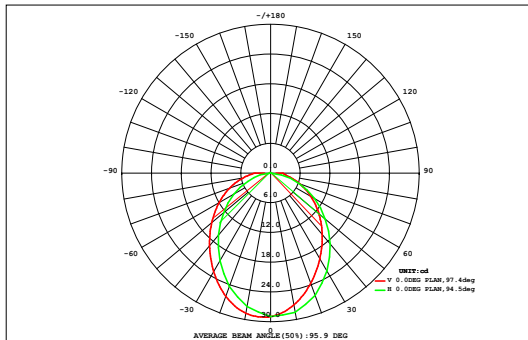
|                                           |         |
|-------------------------------------------|---------|
| Luminaire Efficiency (Light Output Ratio) | 100.0 % |
|-------------------------------------------|---------|

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:23.5DEG  
Operators:QC1  
Test Date:2020-11-10

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:34%  
Test Distance:8.300m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                  |          |                      |
|------------------------------------------------------------------|----------|----------------------|
| Test:U:24.00V I:0.1080A P:2.592W PF:1.000 Lamp Flux:71.4115x1 lm |          |                      |
| NAME: LLS-COVE1-W40-8W-24V-R                                     | TYPE:LED | WEIGHT:              |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202010033 |
| MFR.: 中山市泰然光电科技有限公司                                              | SUR.:    | PROTECTION ANGLE:    |



| DATA OF LAMP             |         | Eff:27.55lm/W   |          |
|--------------------------|---------|-----------------|----------|
| MODELLS-COVE1-W40-8W-24V |         | Imax(cd)        | 29.10    |
| NOMINAL POWER(W)         | 2.6     | AVAILABILITY(%) | 98.9     |
| RATED VOLTAGE(V)         | 24      | Avai. FLUX(lm)  | 70.62    |
| NOMINAL FLUX(lm)         | 71.4115 | LOR(%)          | 100.0    |
| LAMPS INSIDE             | 1       | TOTAL FLUX(lm)  | 71.41    |
| TEST VOLTAGE(V)          | 24      | θ @50%(H,V)     | 97,95DEG |

| 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 | 0.00 | 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 |
| 80             | 0.01              | 0.04 | 0.07 | 0.10 | 0.12 | 0.14 | 0.15 | 0.15 | 0.13             | 0.13 | 0.12 | 0.11 | 0.09 | 0.08 | 0.06 | 0.04 | 0.03    | 0.01 | 1.57 | 1.46 |
| 70             | 0.01              | 0.04 | 0.07 | 0.12 | 0.16 | 0.20 | 0.23 | 0.25 | 0.25             | 0.24 | 0.22 | 0.19 | 0.15 | 0.11 | 0.07 | 0.04 | 0.02    | 0.01 | 2.39 | 2.36 |
| 60             | 0.01              | 0.04 | 0.09 | 0.15 | 0.21 | 0.27 | 0.33 | 0.36 | 0.38             | 0.36 | 0.33 | 0.28 | 0.22 | 0.16 | 0.10 | 0.06 | 0.03    | 0.01 | 3.40 | 3.39 |
| 50             | 0.01              | 0.05 | 0.10 | 0.18 | 0.26 | 0.35 | 0.42 | 0.48 | 0.50             | 0.49 | 0.44 | 0.37 | 0.29 | 0.21 | 0.13 | 0.07 | 0.03    | 0.01 | 4.39 | 4.38 |
| 40             | 0.01              | 0.05 | 0.12 | 0.20 | 0.31 | 0.41 | 0.52 | 0.60 | 0.63             | 0.61 | 0.55 | 0.45 | 0.35 | 0.25 | 0.15 | 0.08 | 0.03    | 0.01 | 5.34 | 5.33 |
| 30             | 0.01              | 0.06 | 0.13 | 0.22 | 0.34 | 0.47 | 0.60 | 0.70 | 0.75             | 0.73 | 0.64 | 0.52 | 0.40 | 0.28 | 0.17 | 0.09 | 0.03    | 0.01 | 6.15 | 6.15 |
|                | 0.01              | 0.06 | 0.13 | 0.24 | 0.37 | 0.51 | 0.66 | 0.78 | 0.84             | 0.81 | 0.71 | 0.58 | 0.43 | 0.30 | 0.19 | 0.10 | 0.04    | 0.01 | 6.76 | 6.76 |
|                | 0.01              | 0.06 | 0.14 | 0.24 | 0.37 | 0.53 | 0.69 | 0.82 | 0.88             | 0.85 | 0.75 | 0.60 | 0.45 | 0.31 | 0.19 | 0.10 | 0.04    | 0.01 | 7.04 | 7.04 |
|                | 0.01              | 0.06 | 0.13 | 0.24 | 0.37 | 0.52 | 0.67 | 0.80 | 0.86             | 0.84 | 0.74 | 0.59 | 0.45 | 0.31 | 0.19 | 0.10 | 0.04    | 0.01 | 6.93 | 6.92 |
|                | 0.01              | 0.05 | 0.13 | 0.23 | 0.35 | 0.48 | 0.62 | 0.73 | 0.79             | 0.77 | 0.68 | 0.56 | 0.42 | 0.30 | 0.19 | 0.10 | 0.04    | 0.01 | 6.46 | 6.45 |
| -30            | 0.01              | 0.05 | 0.12 | 0.21 | 0.32 | 0.43 | 0.55 | 0.64 | 0.68             | 0.67 | 0.60 | 0.50 | 0.38 | 0.27 | 0.17 | 0.09 | 0.04    | 0.01 | 5.73 | 5.72 |
| -40            | 0.01              | 0.05 | 0.11 | 0.19 | 0.28 | 0.37 | 0.46 | 0.53 | 0.56             | 0.55 | 0.50 | 0.42 | 0.33 | 0.24 | 0.15 | 0.08 | 0.03    | 0.01 | 4.85 | 4.84 |
| -50            | 0.01              | 0.04 | 0.10 | 0.16 | 0.23 | 0.31 | 0.37 | 0.42 | 0.44             | 0.43 | 0.39 | 0.33 | 0.27 | 0.19 | 0.13 | 0.07 | 0.03    | 0.01 | 3.91 | 3.90 |
| -60            | 0.01              | 0.04 | 0.08 | 0.13 | 0.19 | 0.24 | 0.28 | 0.31 | 0.32             | 0.31 | 0.29 | 0.25 | 0.20 | 0.15 | 0.10 | 0.06 | 0.03    | 0.00 | 2.96 | 2.95 |
| -70            | 0.01              | 0.03 | 0.07 | 0.10 | 0.14 | 0.17 | 0.19 | 0.20 | 0.21             | 0.20 | 0.19 | 0.16 | 0.13 | 0.10 | 0.07 | 0.04 | 0.02    | 0.00 | 2.03 | 2.01 |
| -80            | 0.01              | 0.03 | 0.05 | 0.07 | 0.09 | 0.10 | 0.11 | 0.11 | 0.11             | 0.10 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 | 0.02    | 0.00 | 1.19 | 0.90 |
| -90            | 0.00              | 0.01 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02             | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01    | 0.00 | 0.33 | 0.05 |
|                | -90               | -80  | -70  | -60  | -50  | -40  | -30  | -20  | HORIZONTAL (DEG) | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90      |      |      |      |
| Φ t            | 0.17              | 0.75 | 1.65 | 2.80 | 4.13 | 5.53 | 6.86 | 7.90 | 8.36             | 8.11 | 7.25 | 6.02 | 4.65 | 3.32 | 2.13 | 1.17 | 0.49    | 0.11 | 71   | ---  |
| Φ a            | 0.14              | 0.74 | 1.65 | 2.79 | 4.11 | 5.50 | 6.83 | 7.86 | 8.31             | 8.05 | 7.19 | 5.96 | 4.59 | 3.26 | 2.08 | 1.10 | 0.42    | 0.04 | ---  | 71   |

one-half-peak spread: U:45.1,D:50.2 , L:50.1,R:47.1

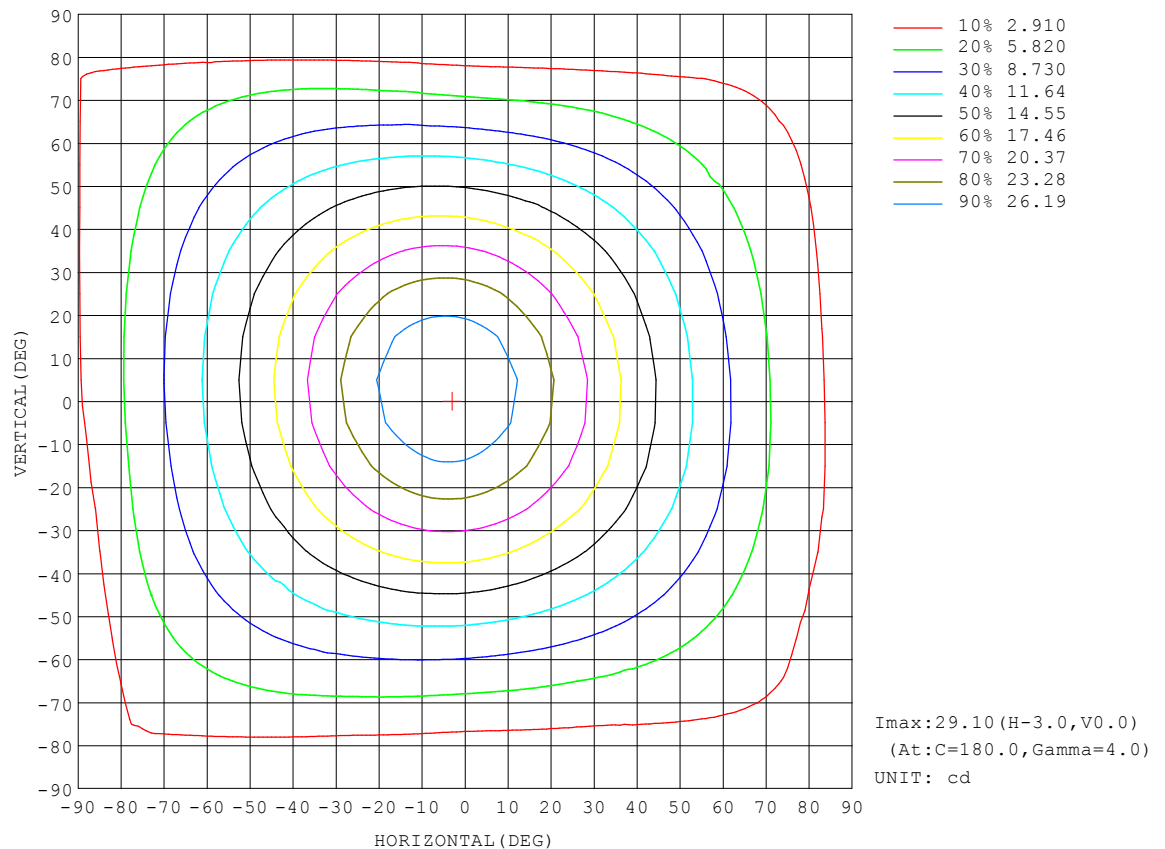
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:23.5DEG  
Operators:QC1  
Test Date:2020-11-10

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:34%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|                                                                  |          |                      |
|------------------------------------------------------------------|----------|----------------------|
| Test:U:24.00V I:0.1080A P:2.592W PF:1.000 Lamp Flux:71.4115x1 lm |          |                      |
| NAME: LLS-COVE1-W40-8W-24V-R                                     | TYPE:LED | WEIGHT:              |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202010033 |
| MFR.: 中山市泰然光电科技有限公司                                              | SUR.:    | PROTECTION ANGLE:    |

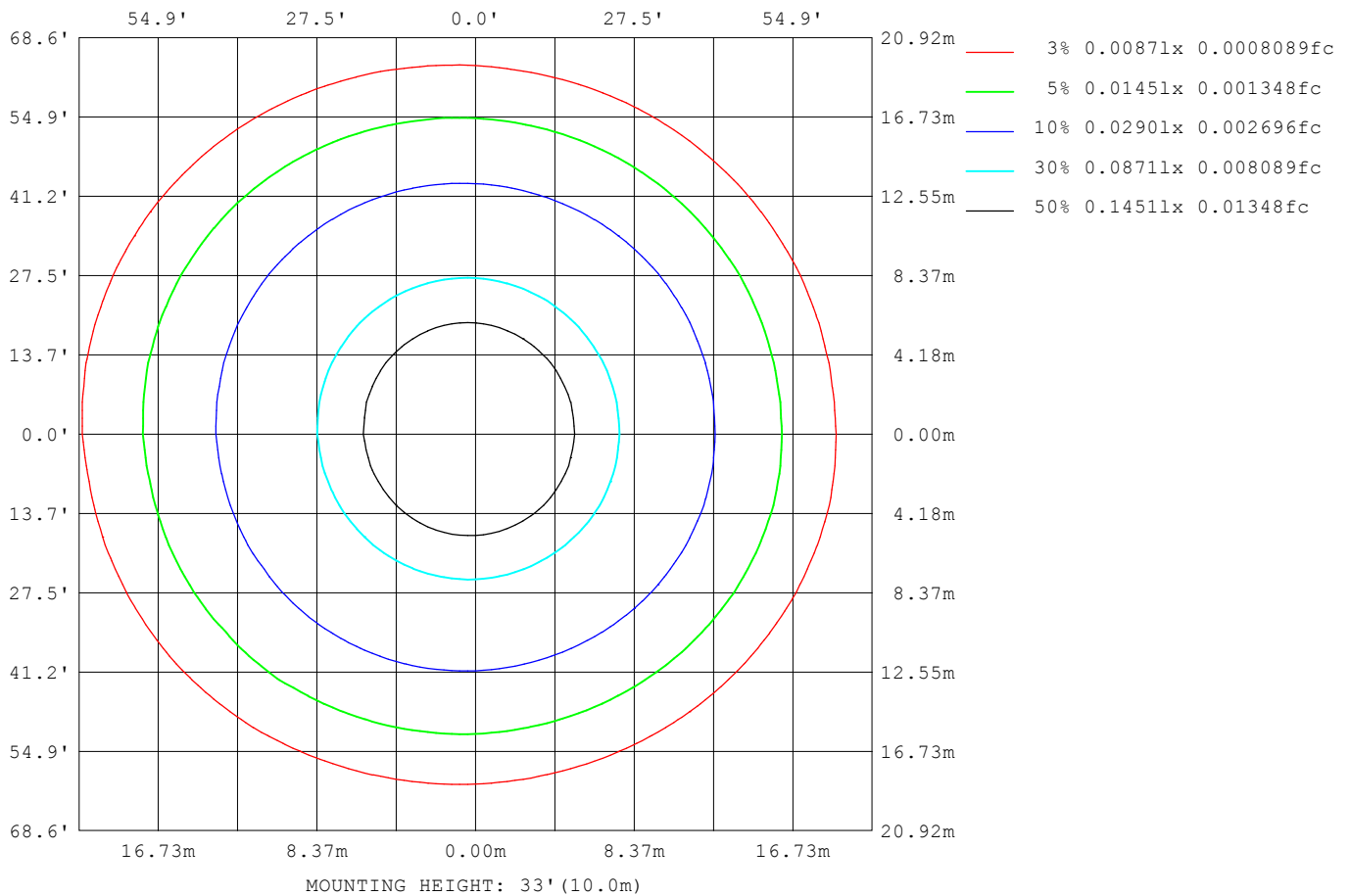


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:23.5DEG  
Operators:QC1  
Test Date:2020-11-10

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:34%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                  |          |                      |
|------------------------------------------------------------------|----------|----------------------|
| Test:U:24.00V I:0.1080A P:2.592W PF:1.000 Lamp Flux:71.4115x1 lm |          |                      |
| NAME: LLS-COVE1-W40-8W-24V-R                                     | TYPE:LED | WEIGHT:              |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202010033 |
| MFR.: 中山市泰然光电科技有限公司                                              | SUR.:    | PROTECTION ANGLE:    |

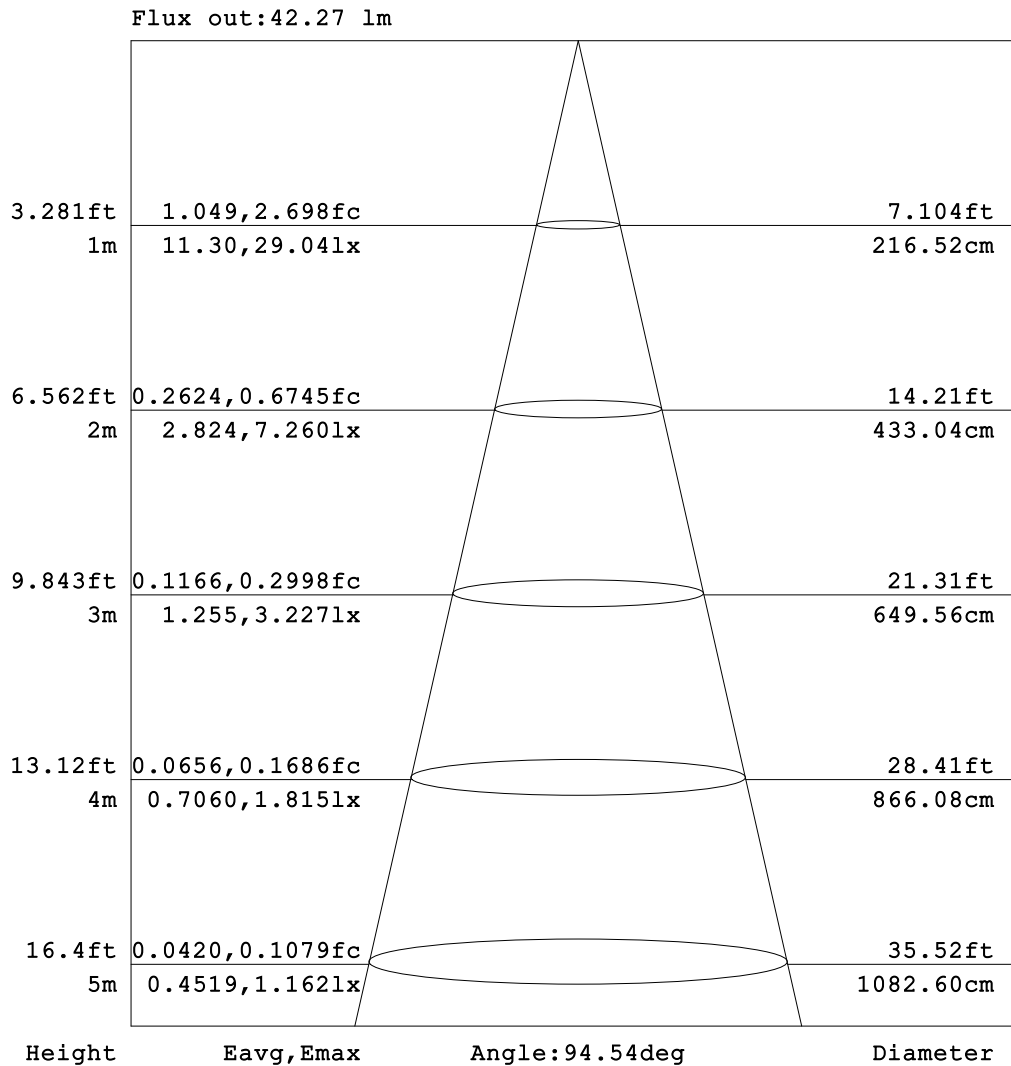


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:23.5DEG  
Operators:QC1  
Test Date:2020-11-10

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:34%  
Test Distance:8.300m [K=1.0000]  
Remarks:

### AAI Figure

|                                                                  |          |                      |
|------------------------------------------------------------------|----------|----------------------|
| Test:U:24.00V I:0.1080A P:2.592W PF:1.000 Lamp Flux:71.4115x1 lm |          |                      |
| NAME: LLS-COVE1-W40-8W-24V-R                                     | TYPE:LED | WEIGHT:              |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202010033 |
| MFR.: 中山市泰然光电科技有限公司                                              | SUR.:    | PROTECTION ANGLE:    |

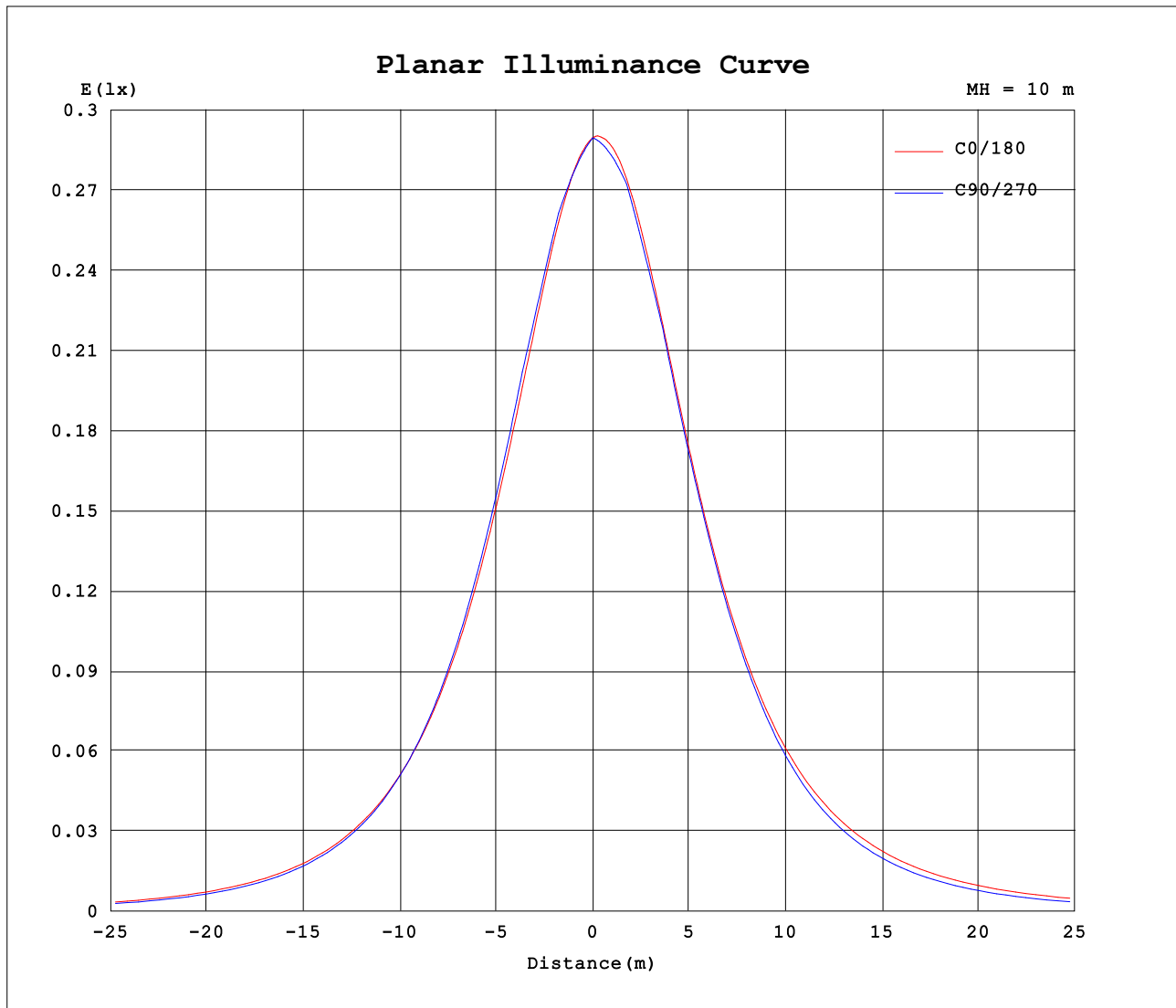


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 23.5DEG  
Operators: QC1  
Test Date: 2020-11-10

V(B) Range: -80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity: 34%  
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:23.5DEG  
Operators:QC1  
Test Date:2020-11-10

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:34%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                  |          |                      |
|------------------------------------------------------------------|----------|----------------------|
| Test:U:24.00V I:0.1080A P:2.592W PF:1.000 Lamp Flux:71.4115x1 lm |          |                      |
| NAME: LLS-COVE1-W40-8W-24V-R                                     | TYPE:LED | WEIGHT:              |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202010033 |
| MFR.: 中山市泰然光电科技有限公司                                              | SUR.:    | PROTECTION 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                | 1.55 | 1.57 | 2.27 | 2.86 | 3.37 | 3.37 | 3.37 | 3.36 | 3.28  | 3.18 | 3.04 | 2.87 | 2.71 | 2.59 | 2.55 | 2.45 | 2.34 | 2.22 | 2.12 |
| -75                | 1.51 | 1.66 | 2.45 | 3.27 | 3.80 | 3.93 | 4.04 | 4.14 | 4.18  | 4.19 | 4.17 | 4.09 | 4.01 | 3.94 | 3.92 | 3.85 | 3.76 | 3.62 | 3.53 |
| -70                | 1.47 | 1.75 | 2.64 | 3.67 | 4.22 | 4.48 | 4.71 | 4.91 | 5.07  | 5.20 | 5.29 | 5.31 | 5.31 | 5.30 | 5.28 | 5.24 | 5.17 | 5.03 | 4.94 |
| -65                | 1.44 | 1.87 | 2.95 | 4.09 | 4.65 | 5.05 | 5.42 | 5.76 | 6.06  | 6.31 | 6.53 | 6.68 | 6.81 | 6.89 | 6.95 | 6.97 | 6.94 | 6.87 | 6.79 |
| -60                | 1.41 | 1.99 | 3.26 | 4.51 | 5.07 | 5.62 | 6.13 | 6.61 | 7.04  | 7.43 | 7.77 | 8.06 | 8.30 | 8.48 | 8.61 | 8.70 | 8.71 | 8.71 | 8.63 |
| -55                | 1.25 | 2.23 | 3.48 | 4.84 | 5.52 | 6.21 | 6.86 | 7.48 | 8.06  | 8.59 | 9.07 | 9.48 | 9.84 | 10.1 | 10.4 | 10.5 | 10.6 | 10.6 | 10.5 |
| -50                | 1.10 | 2.46 | 3.71 | 5.17 | 5.98 | 6.80 | 7.59 | 8.35 | 9.08  | 9.75 | 10.4 | 10.9 | 11.4 | 11.8 | 12.1 | 12.3 | 12.5 | 12.5 | 12.4 |
| -45                | 1.10 | 2.54 | 4.17 | 5.45 | 6.38 | 7.33 | 8.25 | 9.13 | 10.00 | 10.8 | 11.5 | 12.2 | 12.9 | 13.4 | 13.8 | 14.2 | 14.4 | 14.4 | 14.4 |
| -40                | 1.11 | 2.62 | 4.63 | 5.72 | 6.78 | 7.85 | 8.90 | 9.92 | 10.9  | 11.9 | 12.7 | 13.6 | 14.4 | 15.0 | 15.6 | 16.0 | 16.3 | 16.4 | 16.4 |
| -35                | 1.16 | 2.88 | 4.82 | 5.97 | 7.13 | 8.32 | 9.48 | 10.6 | 11.7  | 12.8 | 13.9 | 14.9 | 15.8 | 16.7 | 17.4 | 18.0 | 18.3 | 18.5 | 18.4 |
| -30                | 1.22 | 3.15 | 5.02 | 6.22 | 7.48 | 8.78 | 10.1 | 11.3 | 12.6  | 13.8 | 15.0 | 16.2 | 17.3 | 18.3 | 19.2 | 19.9 | 20.4 | 20.5 | 20.4 |
| -25                | 1.23 | 3.48 | 5.12 | 6.41 | 7.76 | 9.14 | 10.5 | 11.9 | 13.2  | 14.6 | 16.0 | 17.3 | 18.6 | 19.8 | 20.8 | 21.7 | 22.2 | 22.5 | 22.4 |
| -20                | 1.24 | 3.81 | 5.22 | 6.59 | 8.03 | 9.50 | 11.0 | 12.4 | 13.9  | 15.4 | 16.9 | 18.4 | 19.9 | 21.2 | 22.4 | 23.4 | 24.1 | 24.4 | 24.4 |
| -15                | 1.26 | 3.97 | 5.33 | 6.76 | 8.24 | 9.77 | 11.3 | 12.9 | 14.4  | 16.0 | 17.6 | 19.3 | 20.9 | 22.4 | 23.8 | 24.9 | 25.6 | 26.0 | 25.9 |
| -10                | 1.27 | 4.13 | 5.44 | 6.92 | 8.45 | 10.0 | 11.6 | 13.3 | 14.9  | 16.6 | 18.4 | 20.1 | 21.9 | 23.5 | 25.1 | 26.3 | 27.2 | 27.5 | 27.4 |
| -5                 | 1.28 | 4.18 | 5.53 | 7.03 | 8.60 | 10.2 | 11.8 | 13.5 | 15.2  | 17.0 | 18.8 | 20.6 | 22.4 | 24.2 | 25.8 | 27.1 | 27.9 | 28.3 | 28.2 |
| 0                  | 1.29 | 4.23 | 5.61 | 7.14 | 8.75 | 10.4 | 12.1 | 13.8 | 15.5  | 17.3 | 19.2 | 21.1 | 23.0 | 24.8 | 26.5 | 27.8 | 28.7 | 29.1 | 29.0 |
| 5                  | 1.82 | 4.27 | 5.63 | 7.15 | 8.74 | 10.4 | 12.0 | 13.7 | 15.5  | 17.3 | 19.1 | 21.0 | 22.9 | 24.7 | 26.3 | 27.7 | 28.5 | 28.9 | 28.7 |
| 10                 | 2.35 | 4.30 | 5.64 | 7.16 | 8.74 | 10.4 | 12.0 | 13.7 | 15.4  | 17.2 | 19.1 | 20.9 | 22.8 | 24.6 | 26.2 | 27.5 | 28.4 | 28.7 | 28.5 |
| 15                 | 2.45 | 4.29 | 5.62 | 7.09 | 8.63 | 10.2 | 11.8 | 13.4 | 15.1  | 16.8 | 18.6 | 20.4 | 22.1 | 23.8 | 25.3 | 26.5 | 27.3 | 27.6 | 27.4 |
| 20                 | 2.55 | 4.28 | 5.59 | 7.03 | 8.53 | 10.1 | 11.6 | 13.1 | 14.8  | 16.5 | 18.1 | 19.8 | 21.4 | 23.0 | 24.4 | 25.5 | 26.2 | 26.4 | 26.3 |
| 25                 | 2.59 | 4.26 | 5.50 | 6.87 | 8.30 | 9.76 | 11.2 | 12.7 | 14.2  | 15.8 | 17.3 | 18.8 | 20.3 | 21.7 | 22.9 | 23.8 | 24.5 | 24.7 | 24.5 |
| 30                 | 2.63 | 4.25 | 5.41 | 6.70 | 8.06 | 9.46 | 10.9 | 12.3 | 13.7  | 15.1 | 16.5 | 17.8 | 19.1 | 20.4 | 21.4 | 22.2 | 22.8 | 22.9 | 22.7 |
| 35                 | 2.62 | 4.17 | 5.26 | 6.46 | 7.73 | 9.03 | 10.3 | 11.6 | 12.9  | 14.1 | 15.4 | 16.6 | 17.7 | 18.7 | 19.6 | 20.3 | 20.7 | 20.8 | 20.7 |
| 40                 | 2.61 | 4.10 | 5.11 | 6.22 | 7.40 | 8.60 | 9.78 | 11.0 | 12.1  | 13.2 | 14.3 | 15.3 | 16.3 | 17.1 | 17.8 | 18.4 | 18.7 | 18.8 | 18.7 |
| 45                 | 2.63 | 4.04 | 4.95 | 5.95 | 7.01 | 8.07 | 9.13 | 10.2 | 11.2  | 12.1 | 13.1 | 13.9 | 14.7 | 15.4 | 15.9 | 16.4 | 16.6 | 16.7 | 16.5 |
| 50                 | 2.65 | 3.99 | 4.79 | 5.69 | 6.61 | 7.55 | 8.47 | 9.38 | 10.3  | 11.1 | 11.8 | 12.5 | 13.1 | 13.7 | 14.1 | 14.4 | 14.5 | 14.5 | 14.4 |
| 55                 | 2.65 | 3.88 | 4.59 | 5.36 | 6.15 | 6.95 | 7.73 | 8.48 | 9.20  | 9.88 | 10.5 | 11.0 | 11.5 | 11.9 | 12.2 | 12.4 | 12.5 | 12.5 | 12.3 |
| 60                 | 2.65 | 3.77 | 4.38 | 5.03 | 5.69 | 6.34 | 6.99 | 7.58 | 8.15  | 8.68 | 9.14 | 9.54 | 9.86 | 10.1 | 10.3 | 10.4 | 10.4 | 10.4 | 10.2 |
| 65                 | 2.67 | 3.72 | 4.21 | 4.72 | 5.23 | 5.75 | 6.24 | 6.69 | 7.11  | 7.49 | 7.80 | 8.07 | 8.25 | 8.37 | 8.42 | 8.45 | 8.37 | 8.29 | 8.14 |
| 70                 | 2.69 | 3.66 | 4.03 | 4.41 | 4.78 | 5.15 | 5.49 | 5.79 | 6.07  | 6.29 | 6.47 | 6.60 | 6.63 | 6.62 | 6.57 | 6.54 | 6.37 | 6.20 | 6.05 |
| 75                 | 2.69 | 3.54 | 3.81 | 4.06 | 4.30 | 4.52 | 4.64 | 4.87 | 5.01  | 5.11 | 5.15 | 5.15 | 5.08 | 4.98 | 4.85 | 4.71 | 4.50 | 4.31 | 4.16 |
| 80                 | 2.69 | 3.41 | 3.60 | 3.72 | 3.82 | 3.89 | 3.80 | 3.95 | 3.95  | 3.93 | 3.84 | 3.70 | 3.54 | 3.34 | 3.12 | 2.88 | 2.63 | 2.41 | 2.26 |
| 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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:23.5DEG  
Operators:QC1  
Test Date:2020-11-10

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:34%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                  |          |                      |
|------------------------------------------------------------------|----------|----------------------|
| Test:U:24.00V I:0.1080A P:2.592W PF:1.000 Lamp Flux:71.4115x1 lm |          |                      |
| NAME: LLS-COVE1-W40-8W-24V-R                                     | TYPE:LED | WEIGHT:              |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202010033 |
| MFR.: 中山市泰然光电科技有限公司                                              | 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                | 2.10 | 2.08 | 2.07 | 2.05 | 2.00 | 1.91 | 1.91 | 2.05 | 2.09 | 2.15 | 2.23 | 2.30 | 2.37 | 2.45 | 2.18 | 1.74 | 1.25 | 1.31 |  |
| -75                | 3.46 | 3.42 | 3.35 | 3.26 | 3.16 | 3.05 | 2.97 | 2.95 | 2.89 | 2.82 | 2.76 | 2.70 | 2.65 | 2.61 | 2.36 | 1.79 | 1.25 | 1.26 |  |
| -70                | 4.83 | 4.77 | 4.64 | 4.47 | 4.33 | 4.19 | 4.02 | 3.86 | 3.69 | 3.48 | 3.28 | 3.11 | 2.92 | 2.77 | 2.55 | 1.84 | 1.26 | 1.21 |  |
| -65                | 6.66 | 6.53 | 6.34 | 6.12 | 5.89 | 5.64 | 5.37 | 5.06 | 4.75 | 4.40 | 4.05 | 3.72 | 3.38 | 3.08 | 2.78 | 2.03 | 1.36 | 1.19 |  |
| -60                | 8.48 | 8.28 | 8.05 | 7.77 | 7.45 | 7.10 | 6.71 | 6.27 | 5.81 | 5.32 | 4.82 | 4.32 | 3.84 | 3.40 | 3.02 | 2.23 | 1.46 | 1.17 |  |
| -55                | 10.3 | 10.1 | 9.77 | 9.41 | 8.99 | 8.52 | 8.02 | 7.46 | 6.86 | 6.24 | 5.59 | 4.95 | 4.31 | 3.72 | 3.21 | 2.41 | 1.57 | 1.05 |  |
| -50                | 12.2 | 11.9 | 11.5 | 11.0 | 10.5 | 9.95 | 9.33 | 8.64 | 7.91 | 7.15 | 6.37 | 5.58 | 4.78 | 4.04 | 3.39 | 2.58 | 1.69 | 0.92 |  |
| -45                | 14.1 | 13.8 | 13.3 | 12.7 | 12.1 | 11.4 | 10.6 | 9.80 | 8.94 | 8.05 | 7.13 | 6.21 | 5.28 | 4.40 | 3.62 | 2.86 | 1.76 | 0.91 |  |
| -40                | 16.1 | 15.7 | 15.1 | 14.4 | 13.6 | 12.8 | 11.9 | 11.0 | 9.96 | 8.95 | 7.90 | 6.84 | 5.77 | 4.76 | 3.85 | 3.14 | 1.83 | 0.90 |  |
| -35                | 18.1 | 17.6 | 16.8 | 16.0 | 15.1 | 14.1 | 13.1 | 12.0 | 10.9 | 9.72 | 8.55 | 7.37 | 6.20 | 5.07 | 4.05 | 3.22 | 2.14 | 0.93 |  |
| -30                | 20.1 | 19.4 | 18.6 | 17.6 | 16.6 | 15.4 | 14.2 | 13.0 | 11.8 | 10.5 | 9.21 | 7.91 | 6.63 | 5.38 | 4.24 | 3.29 | 2.44 | 0.96 |  |
| -25                | 22.0 | 21.2 | 20.2 | 19.1 | 17.9 | 16.6 | 15.2 | 13.8 | 12.5 | 11.1 | 9.73 | 8.34 | 6.97 | 5.63 | 4.41 | 3.39 | 2.62 | 0.98 |  |
| -20                | 23.8 | 23.0 | 21.9 | 20.6 | 19.2 | 17.7 | 16.2 | 14.7 | 13.2 | 11.7 | 10.2 | 8.77 | 7.31 | 5.88 | 4.57 | 3.49 | 2.81 | 1.00 |  |
| -15                | 25.3 | 24.4 | 23.1 | 21.6 | 20.1 | 18.5 | 16.9 | 15.2 | 13.6 | 12.1 | 10.5 | 9.01 | 7.49 | 6.01 | 4.64 | 3.50 | 2.79 | 0.98 |  |
| -10                | 26.8 | 25.7 | 24.3 | 22.7 | 21.0 | 19.3 | 17.5 | 15.8 | 14.1 | 12.5 | 10.8 | 9.25 | 7.67 | 6.13 | 4.70 | 3.51 | 2.77 | 0.96 |  |
| -5                 | 27.5 | 26.4 | 24.9 | 23.2 | 21.4 | 19.6 | 17.8 | 16.0 | 14.3 | 12.6 | 10.9 | 9.31 | 7.71 | 6.15 | 4.71 | 3.51 | 2.78 | 1.04 |  |
| 0                  | 28.2 | 27.0 | 25.5 | 23.7 | 21.8 | 19.9 | 18.0 | 16.2 | 14.4 | 12.7 | 11.0 | 9.38 | 7.75 | 6.18 | 4.72 | 3.52 | 2.79 | 1.12 |  |
| 5                  | 28.0 | 26.8 | 25.3 | 23.5 | 21.7 | 19.8 | 17.9 | 16.1 | 14.3 | 12.6 | 10.9 | 9.30 | 7.67 | 6.10 | 4.65 | 3.47 | 2.76 | 1.51 |  |
| 10                 | 27.8 | 26.6 | 25.1 | 23.4 | 21.5 | 19.7 | 17.8 | 16.0 | 14.2 | 12.5 | 10.9 | 9.21 | 7.59 | 6.03 | 4.59 | 3.42 | 2.72 | 1.90 |  |
| 15                 | 26.7 | 25.6 | 24.2 | 22.5 | 20.8 | 19.0 | 17.3 | 15.5 | 13.8 | 12.2 | 10.6 | 8.97 | 7.40 | 5.88 | 4.50 | 3.38 | 2.74 | 1.98 |  |
| 20                 | 25.6 | 24.6 | 23.2 | 21.7 | 20.1 | 18.4 | 16.7 | 15.1 | 13.4 | 11.9 | 10.3 | 8.73 | 7.20 | 5.73 | 4.40 | 3.34 | 2.76 | 2.06 |  |
| 25                 | 23.9 | 23.0 | 21.8 | 20.4 | 19.0 | 17.4 | 15.9 | 14.3 | 12.8 | 11.3 | 9.83 | 8.34 | 6.89 | 5.50 | 4.25 | 3.25 | 2.72 | 2.06 |  |
| 30                 | 22.2 | 21.4 | 20.3 | 19.1 | 17.8 | 16.4 | 15.0 | 13.6 | 12.2 | 10.8 | 9.37 | 7.95 | 6.58 | 5.26 | 4.09 | 3.17 | 2.69 | 2.06 |  |
| 35                 | 20.3 | 19.5 | 18.7 | 17.6 | 16.4 | 15.2 | 13.9 | 12.7 | 11.4 | 10.1 | 8.76 | 7.45 | 6.19 | 4.98 | 3.92 | 3.10 | 2.70 | 2.09 |  |
| 40                 | 18.3 | 17.7 | 17.0 | 16.0 | 15.0 | 14.0 | 12.8 | 11.7 | 10.5 | 9.34 | 8.14 | 6.95 | 5.79 | 4.69 | 3.75 | 3.04 | 2.70 | 2.11 |  |
| 45                 | 16.2 | 15.7 | 15.1 | 14.3 | 13.4 | 12.5 | 11.5 | 10.5 | 9.51 | 8.45 | 7.39 | 6.33 | 5.31 | 4.35 | 3.54 | 2.94 | 2.66 | 2.12 |  |
| 50                 | 14.1 | 13.7 | 13.1 | 12.5 | 11.8 | 11.1 | 10.3 | 9.39 | 8.49 | 7.56 | 6.63 | 5.72 | 4.82 | 4.01 | 3.33 | 2.85 | 2.62 | 2.13 |  |
| 55                 | 12.1 | 11.7 | 11.3 | 10.8 | 10.2 | 9.57 | 8.89 | 8.17 | 7.41 | 6.63 | 5.85 | 5.09 | 4.36 | 3.70 | 3.16 | 2.80 | 2.63 | 2.14 |  |
| 60                 | 10.0 | 9.74 | 9.42 | 9.03 | 8.58 | 8.08 | 7.52 | 6.95 | 6.34 | 5.71 | 5.08 | 4.46 | 3.89 | 3.38 | 2.99 | 2.75 | 2.64 | 2.15 |  |
| 65                 | 7.97 | 7.76 | 7.51 | 7.22 | 6.89 | 6.52 | 6.11 | 5.68 | 5.22 | 4.76 | 4.30 | 3.85 | 3.44 | 3.08 | 2.83 | 2.68 | 2.59 | 2.14 |  |
| 70                 | 5.92 | 5.78 | 5.61 | 5.42 | 5.21 | 4.97 | 4.70 | 4.41 | 4.10 | 3.81 | 3.51 | 3.23 | 2.98 | 2.78 | 2.67 | 2.61 | 2.54 | 2.12 |  |
| 75                 | 4.05 | 3.98 | 3.89 | 3.80 | 3.70 | 3.59 | 3.47 | 3.35 | 3.19 | 3.05 | 2.92 | 2.80 | 2.70 | 2.63 | 2.60 | 2.57 | 2.54 | 2.13 |  |
| 80                 | 2.19 | 2.17 | 2.17 | 2.18 | 2.20 | 2.21 | 2.24 | 2.29 | 2.28 | 2.30 | 2.34 | 2.37 | 2.42 | 2.47 | 2.54 | 2.53 | 2.53 | 2.13 |  |
| 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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:23.5DEG  
Operators:QC1  
Test Date:2020-11-10

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
Humidity:34%  
Test Distance:8.300m [K=1.0000]  
Remarks: