

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|  |                |                        |
|--|----------------|------------------------|
| Maximum Intensity                        |                | 17264.5 cd per klm.    |
| (Luminaire orientation as tested.)       |                | 0.0 degrees vertical   |
|  |                | 0.0 degrees horizontal |
| Beam Spread                              | At 10% of Imax | 25.0V x 15.9H          |
|  | At 50% of Imax | 12.1V x 8.4H           |
|  | At 90% of Imax | 4.3V x 3.0H            |
| Beam Flux                                | Total          | 1001.9 lumens per klm. |
|  | To 10% of Imax | 726.9 lumens per klm.  |
|  | To 50% of Imax | 335.5 lumens per klm.  |
|  | To 90% of Imax | 69.5 lumens per klm.   |
|  | Upward LOR     | 2.1 %                  |
|  | Downward LOR   | 98.1 %                 |
| Luminaire Efficiency(Light Output Ratio) |                | 100.0 %                |

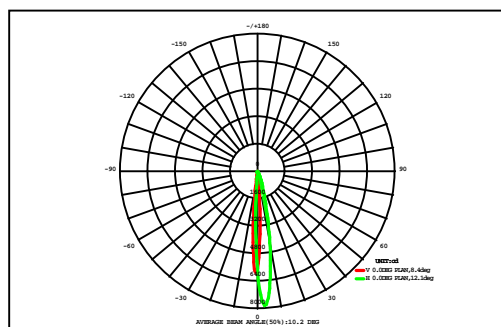
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H( $\theta$ ) Range:-90 - 90DEG  
H( $\theta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2018-04-19

V( $\theta$ ) Range:-180 - 180DEG  
V( $\theta$ ) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|   |                |                   |
|---|----------------|-------------------|
| Test:U:220.7V I:0.2427A P:25.05W PF:0.4677 Lamp Flux:460.547x1 lm |                |                   |
| NAME: L1909-A43-W-10-26W-3000K-5X10D-XPE2                         | TYPE:PROJECTOR | WEIGHT:           |
| SPEC.:  | DIM.:          | SERIAL No.:1      |
| MFR.: 广东亮美集照明科技有限公司   | SUR.:          | PROTECTION ANGLE: |



| DATA OF LAMP     |                 | Eff:18.38lm/W   |         |
|------------------|-----------------|-----------------|---------|
| MODEL            | CREE XPE2 3000K | Imax(cd)        | 7951    |
| NOMINAL POWER(W) | 26              | AVAILABILITY(%) | 72.2    |
| RATED VOLTAGE(V) | AC 220          | Avai. FLUX(lm)  | 332.5   |
| NOMINAL FLUX(lm) | 460.547         | LOR(%)          | 100.0   |
| LAMPS INSIDE     | 1               | TOTAL FLUX(lm)  | 460.5   |
| TEST VOLTAGE(V)  | AC 220          | q @50%(H,V)     | 8,12DEG |

| AREA FLUX DIAGRAM |     |      |      |      |      |      |      |      |      |                   |      |      |      |      |      |      | UNIT:lm |      |      | F t  | F a  |
|-------------------|-----|------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|---------|------|------|------|------|
| VERTICAL( DEG )   | 18  | 0.22 | 0.33 | 0.48 | 0.68 | 0.91 | 1.16 | 1.34 | 1.46 | 1.54              | 1.48 | 1.31 | 1.11 | 0.90 | 0.67 | 0.48 | 0.32    | 0.20 | 0.13 | 14.7 | 9.91 |
|                   | 16  | 0.25 | 0.38 | 0.57 | 0.82 | 1.13 | 1.53 | 1.86 | 2.05 | 2.17              | 2.08 | 1.79 | 1.47 | 1.13 | 0.80 | 0.54 | 0.35    | 0.21 | 0.14 | 19.3 | 15.2 |
|                   | 14  | 0.26 | 0.41 | 0.64 | 0.96 | 1.41 | 2.00 | 2.61 | 2.93 | 3.11              | 2.95 | 2.47 | 1.95 | 1.39 | 0.92 | 0.58 | 0.35    | 0.23 | 0.15 | 25.3 | 21.9 |
|                   | 12  | 0.24 | 0.41 | 0.68 | 1.11 | 1.74 | 2.55 | 3.49 | 4.09 | 4.38              | 4.10 | 3.34 | 2.51 | 1.65 | 1.00 | 0.58 | 0.37    | 0.23 | 0.14 | 32.6 | 29.5 |
|                   | 10  | 0.20 | 0.37 | 0.67 | 1.19 | 2.02 | 3.11 | 4.41 | 5.52 | 5.90              | 5.46 | 4.30 | 2.98 | 1.81 | 1.00 | 0.58 | 0.35    | 0.20 | 0.12 | 40.2 | 37.3 |
|                   | 8   | 0.13 | 0.26 | 0.55 | 1.11 | 2.08 | 3.53 | 5.24 | 6.91 | 7.53              | 6.88 | 5.19 | 3.31 | 1.82 | 0.99 | 0.53 | 0.27    | 0.14 | 0.08 | 46.6 | 44.0 |
|                   | 6   | 0.12 | 0.20 | 0.38 | 0.83 | 1.83 | 3.52 | 5.80 | 7.94 | 8.95              | 8.06 | 5.79 | 3.36 | 1.74 | 0.82 | 0.36 | 0.18    | 0.11 | 0.08 | 50.1 | 47.5 |
|                   | 4   | 0.11 | 0.18 | 0.32 | 0.66 | 1.42 | 3.02 | 5.51 | 8.24 | 9.52              | 8.50 | 5.78 | 3.13 | 1.36 | 0.57 | 0.28 | 0.16    | 0.10 | 0.07 | 48.9 | 46.5 |
|                   | 2   | 0.08 | 0.13 | 0.21 | 0.44 | 1.04 | 2.31 | 4.56 | 7.06 | 8.35              | 7.45 | 4.80 | 2.38 | 0.99 | 0.43 | 0.21 | 0.12    | 0.08 | 0.06 | 40.7 | 38.1 |
|                   | 0   | 0.07 | 0.09 | 0.14 | 0.25 | 0.60 | 1.43 | 3.07 | 4.94 | 5.87              | 4.97 | 3.14 | 1.49 | 0.59 | 0.27 | 0.14 | 0.09    | 0.07 | 0.05 | 27.3 | 24.9 |
|                   | -2  | 0.07 | 0.08 | 0.11 | 0.16 | 0.30 | 0.70 | 1.49 | 2.49 | 3.06              | 2.57 | 1.52 | 0.76 | 0.32 | 0.17 | 0.11 | 0.08    | 0.07 | 0.05 | 14.1 | 11.2 |
|                   | -4  | 0.06 | 0.07 | 0.09 | 0.11 | 0.16 | 0.31 | 0.52 | 0.92 | 1.09              | 0.94 | 0.56 | 0.31 | 0.17 | 0.12 | 0.09 | 0.07    | 0.06 | 0.05 | 5.72 | 1.90 |
|                   | -6  | 0.06 | 0.07 | 0.08 | 0.10 | 0.12 | 0.15 | 0.22 | 0.27 | 0.33              | 0.28 | 0.20 | 0.15 | 0.12 | 0.10 | 0.08 | 0.07    | 0.06 | 0.06 | 2.52 | 0.00 |
|                   | -8  | 0.07 | 0.07 | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 | 0.15 | 0.15              | 0.14 | 0.13 | 0.12 | 0.10 | 0.09 | 0.08 | 0.08    | 0.07 | 0.06 | 1.85 | 0.00 |
|                   | -10 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.12 | 0.13              | 0.12 | 0.12 | 0.11 | 0.10 | 0.09 | 0.09 | 0.08    | 0.07 | 0.07 | 1.77 | 0.00 |
|                   | -12 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.12 | 0.12 | 0.12              | 0.12 | 0.11 | 0.11 | 0.10 | 0.10 | 0.09 | 0.09    | 0.08 | 0.08 | 1.80 | 0.00 |
|                   | -14 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.12              | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.09    | 0.09 | 0.08 | 1.84 | 0.00 |
|                   | -16 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12              | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.09    | 0.09 | 0.08 | 1.88 | 0.00 |
|                   | -18 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12              | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.09    | 0.09 | 0.08 | 1.88 | 0.00 |
|                   |     | -18  | -16  | -14  | -12  | -10  | -8   | -6   | -4   | HORIZONTAL( DEG ) | 4    | 6    | 8    | 10   | 12   | 14   | 16      | 18   |      |      |      |
| F t               |     | 2.26 | 3.40 | 5.37 | 8.90 | 15.3 | 25.9 | 40.7 | 55.4 | 62.4              | 56.3 | 40.8 | 25.5 | 14.5 | 8.34 | 5.03 | 3.22    | 2.18 | 1.55 | 377  | ---  |
| F a               |     | 0.00 | 0.00 | 0.00 | 4.00 | 12.5 | 24.2 | 39.4 | 54.2 | 61.1              | 55.1 | 39.2 | 24.0 | 11.8 | 2.48 | 0.00 | 0.00    | 0.00 | 0.00 | ---  | 328  |

one-half-peak spread: U:4.6,D:7.6 , L:4.2,R:4.2 NEMA Beam Type: Type 1 x 2 (H x V)

H(h) Range:-90 - 90DEG  
H(h) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2018-04-19

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|   |                |                   |
|---|----------------|-------------------|
| Test:U:220.7V I:0.2427A P:25.05W PF:0.4677 Lamp Flux:460.547x1 lm |                |                   |
| NAME: L1909-A43-W-10-26W-3000K-5X10D-XPE2                         | TYPE:PROJECTOR | WEIGHT:           |
| SPEC.:  | DIM.:          | SERIAL No.:1      |
| MFR.: 广东亮美集照明科技有限公司   | SUR.:          | PROTECTION ANGLE: |

Conical surface Flux(90deg):

446.1 lm

%lum = 96.7%

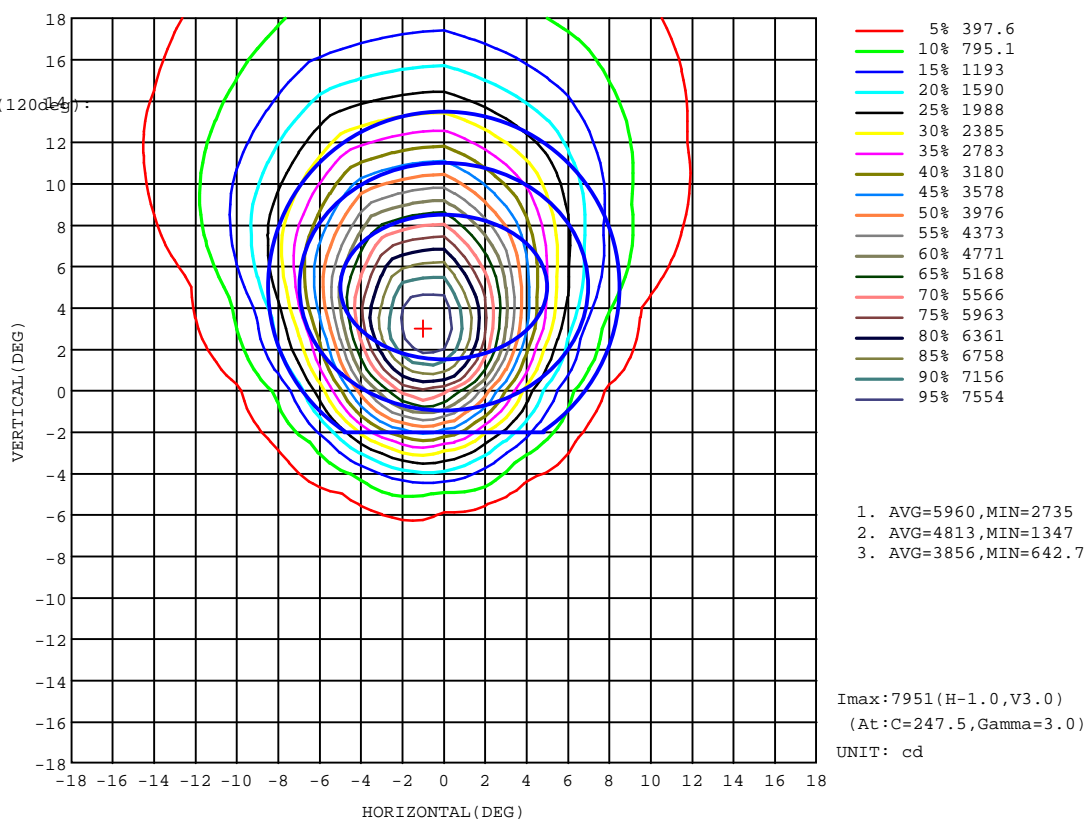
%lamp = 96.9%

Conical surface Flux(120deg):

448.58 lm

%lum = 97.2%

%lamp = 97.4%



H(B) Range:-90 - 90DEG

H(B) Interval: 0.5DEG

Test Speed: HIGH

Temperature:30DEG

Operators:Matthew

Test Date:2018-04-19

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290

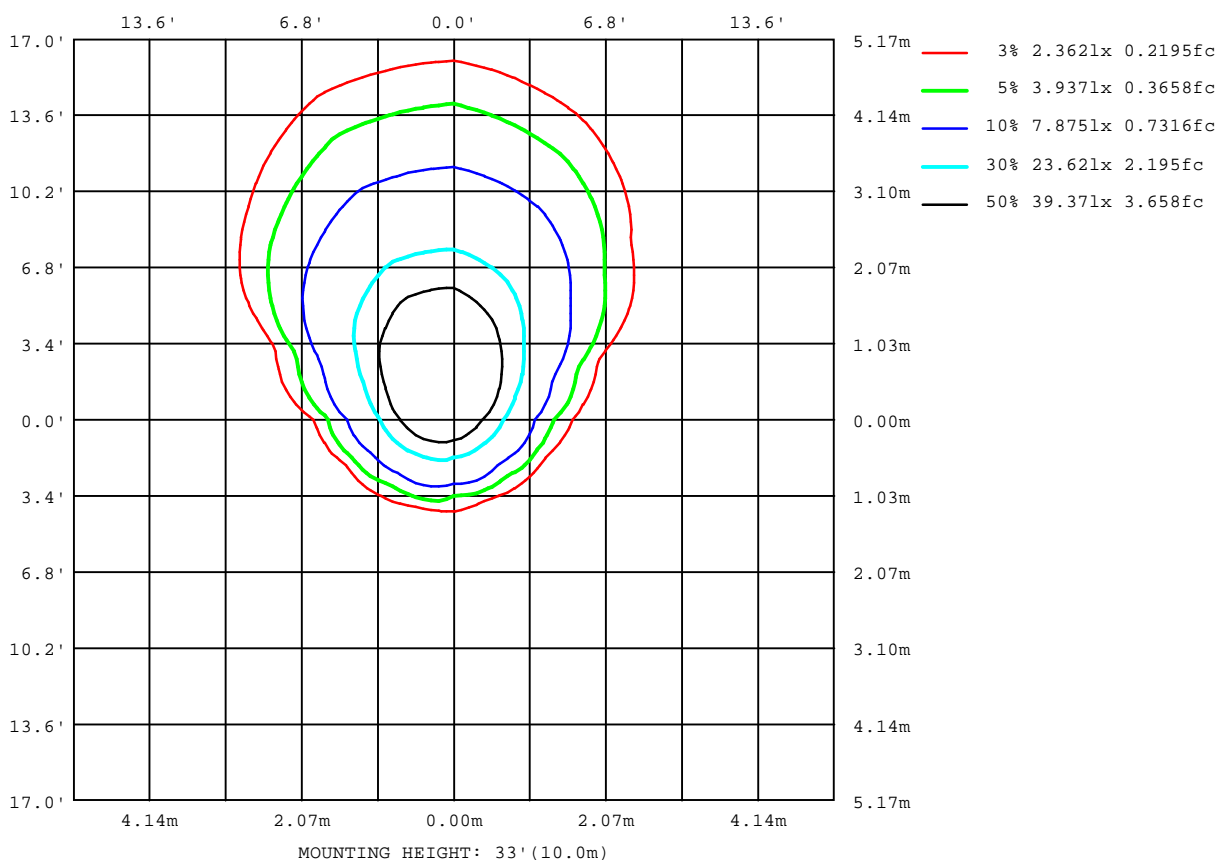
Humidity:65.0%

Test Distance:11.510m [K=1.0000]

Remarks:

## ISOLUX DIAGRAM

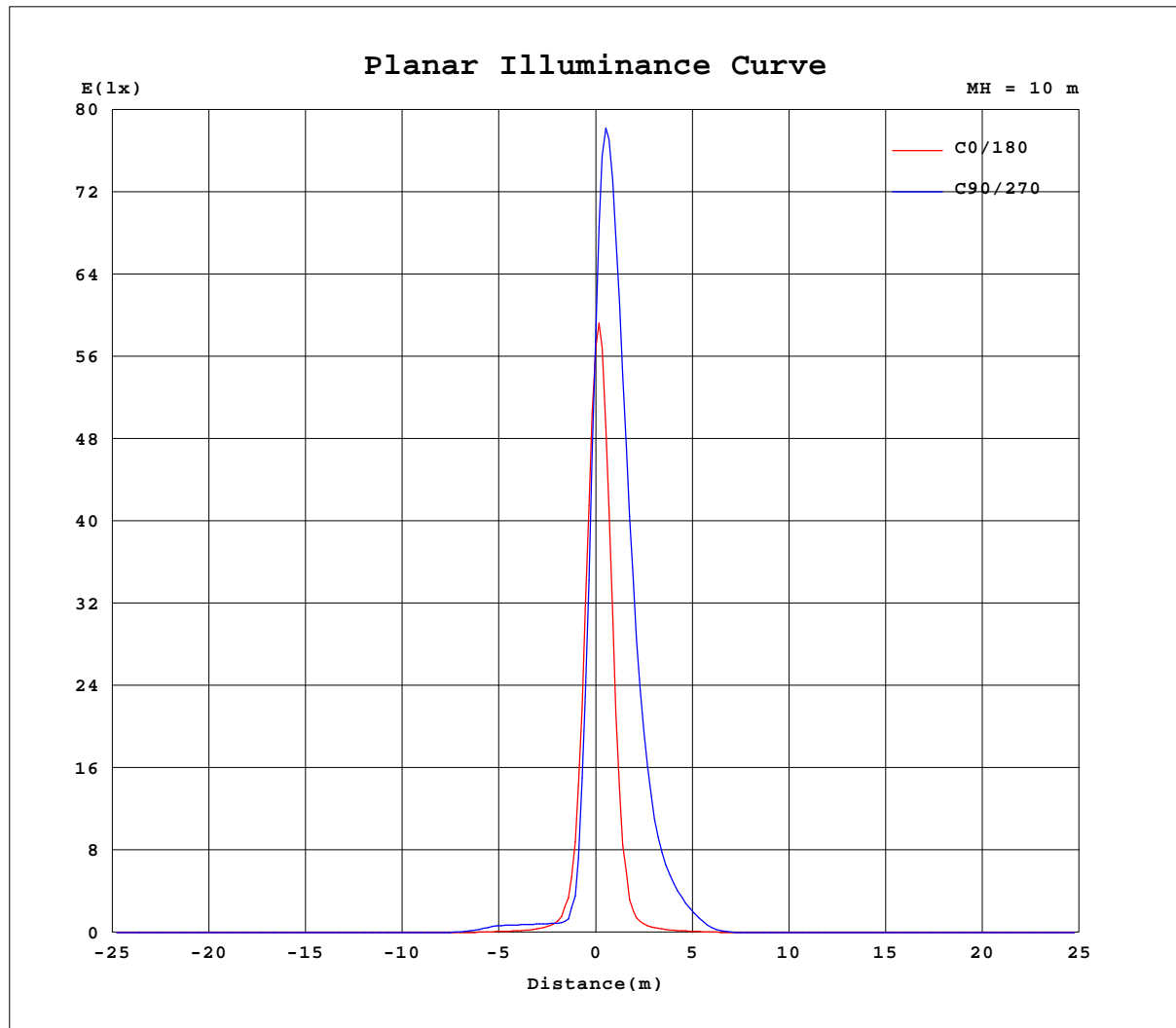
|   |                |                   |
|---|----------------|-------------------|
| Test:U:220.7V I:0.2427A P:25.05W PF:0.4677 Lamp Flux:460.547x1 lm |                |                   |
| NAME: L1909-A43-W-10-26W-3000K-5X10D-XPE2                         | TYPE:PROJECTOR | WEIGHT:           |
| SPEC.:  | DIM.:          | SERIAL No.:1      |
| MFR.: 广东亮美集照明科技有限公司   | SUR.:          | PROTECTION ANGLE: |



H(b) Range:-90 - 90DEG  
H(b) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2018-04-19

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



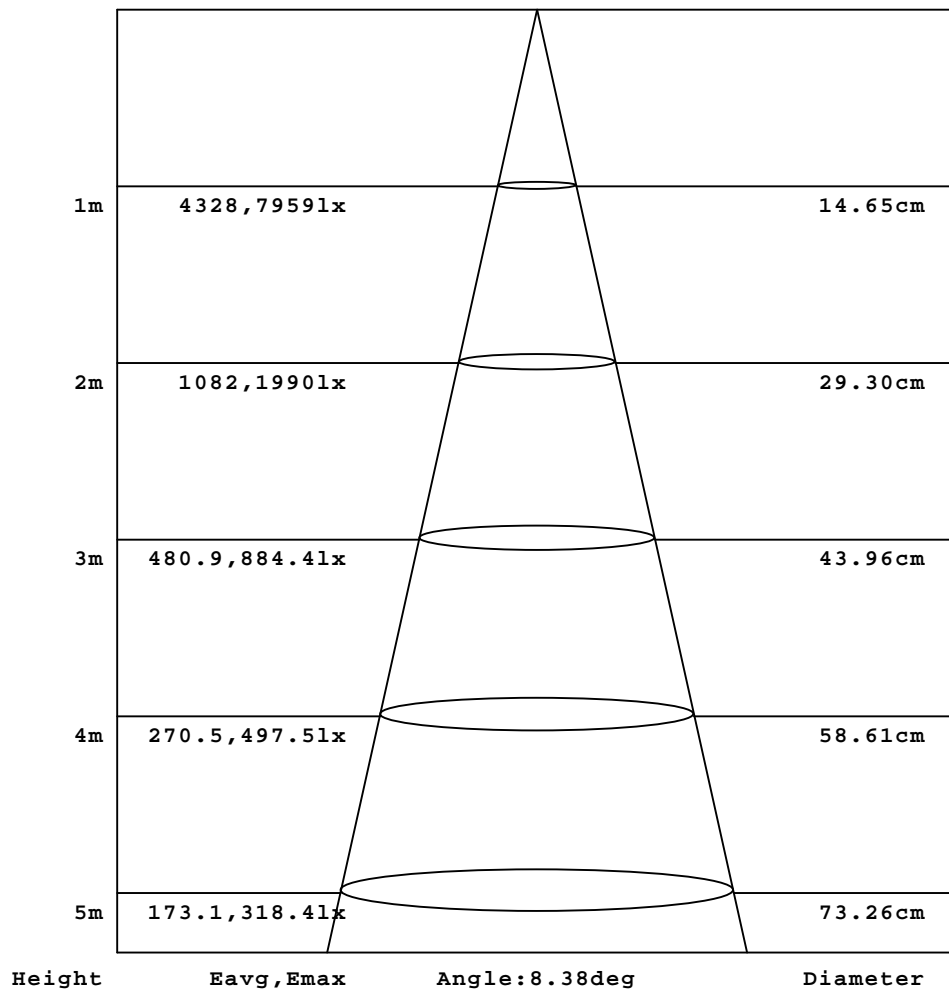
H(b) Range:-90 - 90DEG  
H(b) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2018-04-19

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## AAI Figure

|   |                |                   |
|---|----------------|-------------------|
| Test:U:220.7V I:0.2427A P:25.05W PF:0.4677 Lamp Flux:460.547x1 lm |                |                   |
| NAME: L1909-A43-W-10-26W-3000K-5X10D-XPE2                         | TYPE:PROJECTOR | WEIGHT:           |
| SPEC.:  | DIM.:          | SERIAL No.:1      |
| MFR.: 广东亮美集照明科技有限公司   | SUR.:          | PROTECTION ANGLE: |

Flux out:104.1 lm



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

H( $\theta$ ) Range: -90 - 90DEG  
H( $\theta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature: 30DEG  
Operators: Matthew  
Test Date: 2018-04-19

V(B) Range: -180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity: 65.0%  
Test Distance: 11.510m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                |                   |
|---|----------------|-------------------|
| Test:U:220.7V I:0.2427A P:25.05W PF:0.4677 Lamp Flux:460.547x1 lm |                |                   |
| NAME: L1909-A43-W-10-26W-3000K-5X10D-XPE2                         | TYPE:PROJECTOR | WEIGHT:           |
| SPEC.:  | DIM.:          | SERIAL No.:1      |
| MFR.: 广东亮美集照明科技有限公司   | 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    |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -180        | 0.91 | 0.47 | 0.09 | 0.01 | 0.01 | 0.05 | 0.14 | 0.18 | 0.23 | 0.50 | 1.39 | 2.89 | 3.79 | 4.14 | 4.32 | 4.48 | 4.55 | 4.21 | 3.90 |
| -170        | 0.91 | 0.50 | 0.17 | 0.09 | 0.09 | 0.14 | 0.26 | 0.41 | 0.66 | 1.01 | 2.00 | 3.98 | 5.29 | 4.80 | 4.51 | 4.50 | 4.49 | 4.24 | 3.99 |
| -160        | 0.91 | 0.54 | 0.26 | 0.19 | 0.17 | 0.22 | 0.35 | 0.54 | 0.92 | 1.37 | 1.99 | 3.47 | 5.41 | 6.00 | 5.15 | 4.69 | 4.57 | 4.53 | 4.54 |
| -150        | 0.91 | 0.59 | 0.35 | 0.29 | 0.26 | 0.29 | 0.41 | 0.59 | 0.87 | 1.32 | 1.72 | 2.25 | 3.44 | 5.01 | 6.16 | 6.45 | 6.21 | 5.91 | 5.81 |
| -140        | 0.91 | 0.65 | 0.46 | 0.41 | 0.41 | 0.38 | 0.45 | 0.56 | 0.67 | 0.88 | 1.26 | 1.67 | 2.05 | 2.62 | 3.43 | 4.37 | 5.09 | 5.61 | 5.93 |
| -130        | 0.91 | 0.71 | 0.57 | 0.55 | 0.58 | 0.58 | 0.51 | 0.49 | 0.50 | 0.59 | 0.72 | 0.93 | 1.23 | 1.60 | 1.94 | 2.19 | 2.35 | 2.48 | 2.55 |
| -120        | 0.91 | 0.77 | 0.69 | 0.69 | 0.76 | 0.85 | 0.74 | 0.59 | 0.51 | 0.49 | 0.49 | 0.53 | 0.63 | 0.76 | 0.90 | 0.99 | 1.07 | 1.13 | 1.16 |
| -110        | 0.91 | 0.82 | 0.80 | 0.82 | 0.90 | 0.99 | 0.95 | 0.89 | 0.81 | 0.72 | 0.62 | 0.55 | 0.50 | 0.48 | 0.47 | 0.47 | 0.46 | 0.45 | 0.44 |
| -100        | 0.91 | 0.88 | 0.89 | 0.93 | 0.99 | 1.04 | 1.04 | 1.03 | 1.03 | 1.01 | 0.97 | 0.91 | 0.86 | 0.80 | 0.76 | 0.75 | 0.74 | 0.73 | 0.73 |
| -90         | 0.91 | 0.94 | 0.98 | 1.02 | 1.06 | 1.08 | 1.09 | 1.09 | 1.10 | 1.11 | 1.08 | 1.05 | 1.03 | 1.00 | 0.99 | 1.00 | 1.01 | 1.02 | 1.03 |
| -80         | 0.91 | 0.98 | 1.05 | 1.10 | 1.16 | 1.20 | 1.24 | 1.27 | 1.30 | 1.34 | 1.34 | 1.34 | 1.33 | 1.33 | 1.34 | 1.37 | 1.39 | 1.41 | 1.43 |
| -70         | 0.91 | 1.01 | 1.10 | 1.16 | 1.25 | 1.34 | 1.38 | 1.38 | 1.39 | 1.38 | 1.36 | 1.35 | 1.38 | 1.41 | 1.43 | 1.44 | 1.45 | 1.47 | 1.48 |
| -60         | 0.91 | 1.04 | 1.12 | 1.20 | 1.26 | 1.36 | 1.37 | 1.30 | 1.27 | 1.27 | 1.27 | 1.32 | 1.35 | 1.37 | 1.36 | 1.43 | 1.49 | 1.55 | 1.60 |
| -50         | 0.91 | 1.06 | 1.13 | 1.14 | 1.18 | 1.25 | 1.28 | 1.28 | 1.36 | 1.44 | 1.50 | 1.56 | 1.64 | 1.72 | 1.79 | 1.85 | 1.94 | 2.01 | 2.05 |
| -40         | 0.91 | 1.07 | 1.11 | 1.05 | 1.10 | 1.17 | 1.29 | 1.48 | 1.62 | 1.73 | 1.86 | 1.99 | 2.16 | 2.40 | 2.70 | 3.17 | 3.75 | 4.28 | 4.39 |
| -30         | 0.91 | 1.07 | 1.05 | 0.96 | 1.00 | 1.17 | 1.41 | 1.65 | 1.87 | 2.05 | 2.28 | 2.64 | 3.43 | 6.59 | 14.8 | 32.1 | 51.6 | 64.0 | 68.8 |
| -20         | 0.91 | 1.06 | 0.98 | 0.89 | 0.97 | 1.21 | 1.49 | 1.75 | 2.02 | 2.35 | 2.79 | 4.01 | 10.8 | 36.6 | 70.2 | 84.9 | 89.4 | 93.4 | 97.5 |
| -10         | 0.91 | 1.05 | 0.92 | 0.82 | 0.95 | 1.23 | 1.52 | 1.81 | 2.15 | 2.66 | 3.57 | 6.73 | 21.7 | 40.9 | 52.1 | 65.5 | 81.5 | 101  | 108  |
| 0           | 0.91 | 1.05 | 0.87 | 0.75 | 0.91 | 1.20 | 1.51 | 1.81 | 2.21 | 2.88 | 4.09 | 7.09 | 15.0 | 25.0 | 40.3 | 79.1 | 338  | 3126 | 5693 |
| 10          | 0.91 | 1.04 | 0.86 | 0.73 | 0.89 | 1.18 | 1.49 | 1.82 | 2.24 | 2.97 | 4.35 | 7.14 | 13.3 | 25.2 | 81.4 | 334  | 1247 | 3261 | 4241 |
| 20          | 0.91 | 1.04 | 0.87 | 0.72 | 0.84 | 1.12 | 1.41 | 1.73 | 2.13 | 2.72 | 3.78 | 5.65 | 10.3 | 28.5 | 83.7 | 227  | 476  | 703  | 798  |
| 30          | 0.91 | 1.04 | 0.89 | 0.70 | 0.76 | 1.01 | 1.27 | 1.55 | 1.87 | 2.19 | 2.62 | 3.37 | 4.80 | 7.68 | 14.6 | 36.4 | 76.1 | 107  | 119  |
| 40          | 0.91 | 1.04 | 0.94 | 0.71 | 0.69 | 0.85 | 1.08 | 1.29 | 1.50 | 1.69 | 1.86 | 2.05 | 2.40 | 2.95 | 3.63 | 4.39 | 5.14 | 5.75 | 6.00 |
| 50          | 0.91 | 1.03 | 0.98 | 0.75 | 0.64 | 0.69 | 0.84 | 0.99 | 1.13 | 1.27 | 1.38 | 1.52 | 1.69 | 1.87 | 2.06 | 2.20 | 2.30 | 2.37 | 2.39 |
| 60          | 0.91 | 1.01 | 0.99 | 0.86 | 0.66 | 0.59 | 0.60 | 0.68 | 0.77 | 0.86 | 0.95 | 1.07 | 1.18 | 1.30 | 1.39 | 1.43 | 1.45 | 1.45 | 1.43 |
| 70          | 0.91 | 0.99 | 1.01 | 0.95 | 0.84 | 0.67 | 0.57 | 0.53 | 0.51 | 0.48 | 0.52 | 0.61 | 0.68 | 0.74 | 0.79 | 0.80 | 0.80 | 0.79 | 0.78 |
| 80          | 0.91 | 0.95 | 0.99 | 1.00 | 0.97 | 0.92 | 0.87 | 0.81 | 0.73 | 0.66 | 0.59 | 0.52 | 0.48 | 0.44 | 0.43 | 0.43 | 0.42 | 0.41 | 0.41 |
| 90          | 0.91 | 0.93 | 0.95 | 0.96 | 0.98 | 0.99 | 0.97 | 0.96 | 0.94 | 0.93 | 0.92 | 0.90 | 0.88 | 0.87 | 0.87 | 0.88 | 0.90 | 0.91 | 0.92 |
| 100         | 0.91 | 0.86 | 0.85 | 0.85 | 0.85 | 0.82 | 0.76 | 0.71 | 0.66 | 0.62 | 0.61 | 0.61 | 0.61 | 0.63 | 0.62 | 0.59 | 0.57 | 0.55 | 0.54 |
| 110         | 0.91 | 0.81 | 0.73 | 0.64 | 0.54 | 0.45 | 0.35 | 0.28 | 0.22 | 0.17 | 0.14 | 0.14 | 0.15 | 0.17 | 0.17 | 0.15 | 0.13 | 0.11 | 0.10 |
| 120         | 0.91 | 0.75 | 0.58 | 0.41 | 0.28 | 0.21 | 0.13 | 0.07 | 0.05 | 0.04 | 0.05 | 0.06 | 0.08 | 0.09 | 0.09 | 0.10 | 0.12 | 0.14 | 0.16 |
| 130         | 0.91 | 0.69 | 0.44 | 0.23 | 0.13 | 0.08 | 0.04 | 0.03 | 0.04 | 0.06 | 0.10 | 0.16 | 0.18 | 0.20 | 0.19 | 0.22 | 0.25 | 0.29 | 0.32 |
| 140         | 0.91 | 0.62 | 0.31 | 0.12 | 0.06 | 0.03 | 0.02 | 0.03 | 0.06 | 0.14 | 0.20 | 0.23 | 0.25 | 0.27 | 0.32 | 0.36 | 0.48 | 0.59 | 0.66 |
| 150         | 0.91 | 0.57 | 0.23 | 0.06 | 0.03 | 0.02 | 0.03 | 0.07 | 0.11 | 0.15 | 0.19 | 0.30 | 0.52 | 0.97 | 1.57 | 2.06 | 2.38 | 2.62 | 2.70 |
| 160         | 0.91 | 0.52 | 0.16 | 0.04 | 0.02 | 0.03 | 0.06 | 0.13 | 0.15 | 0.18 | 0.31 | 0.88 | 1.93 | 2.83 | 3.38 | 3.67 | 3.79 | 3.88 | 3.93 |
| 170         | 0.91 | 0.49 | 0.12 | 0.02 | 0.01 | 0.04 | 0.11 | 0.16 | 0.18 | 0.34 | 0.88 | 2.13 | 3.21 | 3.76 | 4.04 | 4.26 | 4.44 | 4.47 | 4.52 |
| 180         | 0.91 | 0.47 | 0.09 | 0.01 | 0.01 | 0.05 | 0.14 | 0.18 | 0.23 | 0.50 | 1.39 | 2.89 | 3.79 | 4.14 | 4.32 | 4.48 | 4.55 | 4.21 | 3.96 |

H(h) Range:-90 - 90DEG

H(h) Interval: 0.5DEG

Test Speed: HIGH

Temperature:30DEG

Operators:Matthew

Test Date:2018-04-19

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290

Humidity:65.0%

Test Distance:11.510m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |  |  |  |  |  |  |  |  |                |  |  |  |  |  |                   |  |  |
|---|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|-------------------|--|--|
| Test:U:220.7V I:0.2427A P:25.05W PF:0.4677 Lamp Flux:460.547x1 lm |  |  |  |  |  |  |  |  |                |  |  |  |  |  |                   |  |  |
| NAME: L1909-A43-W-10-26W-3000K-5X10D-XPE2                         |  |  |  |  |  |  |  |  | TYPE:PROJECTOR |  |  |  |  |  | WEIGHT:           |  |  |
| SPEC.:  |  |  |  |  |  |  |  |  | DIM.:          |  |  |  |  |  | SERIAL No.:1      |  |  |
| MFR.: 广东亮美集照明科技有限公司   |  |  |  |  |  |  |  |  | SUR.:          |  |  |  |  |  | PROTECTION ANGLE: |  |  |

Table--2

UNIT: cd

| H(°) \ V(°) | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -180        | 3.57 | 4.43 | 4.44 | 4.25 | 3.98 | 4.52 | 4.50 | 2.60 | 1.36 | 1.09 | 0.68 | 0.35 | 0.27 | 0.32 | 0.63 | 0.96 | 1.08 | 1.09 |
| -170        | 3.95 | 4.34 | 4.50 | 4.51 | 4.34 | 5.06 | 4.68 | 2.67 | 1.48 | 1.19 | 0.73 | 0.39 | 0.29 | 0.33 | 0.62 | 0.95 | 1.07 | 1.09 |
| -160        | 4.52 | 4.59 | 4.68 | 4.88 | 5.59 | 5.55 | 3.85 | 2.11 | 1.45 | 1.15 | 0.65 | 0.39 | 0.29 | 0.34 | 0.65 | 0.96 | 1.07 | 1.09 |
| -150        | 5.88 | 6.21 | 6.55 | 6.46 | 5.55 | 3.94 | 2.47 | 1.71 | 1.37 | 0.89 | 0.54 | 0.36 | 0.29 | 0.38 | 0.71 | 0.97 | 1.07 | 1.09 |
| -140        | 5.77 | 5.39 | 4.77 | 3.77 | 2.84 | 2.16 | 1.75 | 1.37 | 0.92 | 0.61 | 0.42 | 0.30 | 0.29 | 0.48 | 0.79 | 0.99 | 1.07 | 1.09 |
| -130        | 2.50 | 2.40 | 2.27 | 2.05 | 1.73 | 1.37 | 1.02 | 0.74 | 0.54 | 0.39 | 0.30 | 0.27 | 0.38 | 0.64 | 0.87 | 1.01 | 1.06 | 1.09 |
| -120        | 1.15 | 1.11 | 1.04 | 0.96 | 0.80 | 0.63 | 0.48 | 0.36 | 0.32 | 0.31 | 0.33 | 0.44 | 0.61 | 0.80 | 0.94 | 1.02 | 1.07 | 1.09 |
| -110        | 0.44 | 0.43 | 0.42 | 0.41 | 0.39 | 0.38 | 0.39 | 0.42 | 0.48 | 0.56 | 0.66 | 0.75 | 0.82 | 0.92 | 0.98 | 1.04 | 1.07 | 1.09 |
| -100        | 0.70 | 0.68 | 0.66 | 0.65 | 0.67 | 0.72 | 0.77 | 0.83 | 0.88 | 0.90 | 0.92 | 0.93 | 0.96 | 0.98 | 1.02 | 1.05 | 1.07 | 1.09 |
| -90         | 1.01 | 0.99 | 0.96 | 0.94 | 0.94 | 0.97 | 1.00 | 1.03 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 | 1.02 | 1.04 | 1.05 | 1.07 | 1.09 |
| -80         | 1.42 | 1.39 | 1.37 | 1.34 | 1.32 | 1.32 | 1.32 | 1.31 | 1.29 | 1.24 | 1.20 | 1.14 | 1.10 | 1.08 | 1.07 | 1.07 | 1.08 | 1.09 |
| -70         | 1.50 | 1.51 | 1.52 | 1.54 | 1.51 | 1.47 | 1.45 | 1.45 | 1.43 | 1.38 | 1.33 | 1.28 | 1.21 | 1.16 | 1.11 | 1.08 | 1.08 | 1.09 |
| -60         | 1.58 | 1.57 | 1.55 | 1.54 | 1.49 | 1.45 | 1.40 | 1.36 | 1.28 | 1.22 | 1.20 | 1.23 | 1.22 | 1.19 | 1.15 | 1.10 | 1.08 | 1.09 |
| -50         | 1.95 | 1.85 | 1.74 | 1.64 | 1.55 | 1.47 | 1.40 | 1.33 | 1.23 | 1.14 | 1.06 | 1.03 | 1.10 | 1.16 | 1.16 | 1.12 | 1.09 | 1.09 |
| -40         | 3.99 | 3.30 | 2.66 | 2.21 | 1.87 | 1.62 | 1.44 | 1.32 | 1.20 | 1.08 | 0.99 | 0.96 | 0.99 | 1.06 | 1.13 | 1.12 | 1.09 | 1.09 |
| -30         | 61.3 | 45.8 | 24.8 | 10.1 | 4.40 | 2.52 | 1.86 | 1.50 | 1.25 | 1.07 | 1.04 | 1.02 | 0.98 | 0.98 | 1.08 | 1.12 | 1.09 | 1.09 |
| -20         | 92.8 | 89.0 | 82.7 | 61.3 | 26.9 | 7.01 | 2.92 | 1.91 | 1.59 | 1.39 | 1.25 | 1.14 | 1.04 | 0.96 | 1.01 | 1.11 | 1.09 | 1.09 |
| -10         | 92.4 | 73.9 | 61.0 | 50.3 | 37.6 | 16.6 | 5.07 | 2.98 | 2.21 | 1.78 | 1.50 | 1.29 | 1.11 | 0.96 | 0.96 | 1.10 | 1.09 | 1.09 |
| 0           | 1457 | 169  | 57.1 | 32.2 | 21.6 | 12.5 | 5.91 | 3.80 | 2.76 | 2.12 | 1.72 | 1.42 | 1.16 | 0.97 | 0.93 | 1.08 | 1.09 | 1.09 |
| 10          | 2264 | 613  | 186  | 50.6 | 18.2 | 10.1 | 5.82 | 3.82 | 2.71 | 2.06 | 1.66 | 1.37 | 1.12 | 0.93 | 0.90 | 1.06 | 1.09 | 1.09 |
| 20          | 607  | 356  | 148  | 43.8 | 15.6 | 7.31 | 4.61 | 3.22 | 2.36 | 1.87 | 1.53 | 1.28 | 1.05 | 0.87 | 0.87 | 1.05 | 1.09 | 1.09 |
| 30          | 91.3 | 52.8 | 22.7 | 9.69 | 5.78 | 3.94 | 2.87 | 2.24 | 1.87 | 1.58 | 1.33 | 1.12 | 0.94 | 0.81 | 0.87 | 1.05 | 1.09 | 1.09 |
| 40          | 5.50 | 4.70 | 3.87 | 3.18 | 2.57 | 2.09 | 1.78 | 1.62 | 1.45 | 1.28 | 1.11 | 0.95 | 0.79 | 0.76 | 0.89 | 1.05 | 1.09 | 1.09 |
| 50          | 2.31 | 2.19 | 2.04 | 1.88 | 1.69 | 1.52 | 1.35 | 1.23 | 1.12 | 1.00 | 0.87 | 0.73 | 0.68 | 0.74 | 0.94 | 1.07 | 1.09 | 1.09 |
| 60          | 1.42 | 1.39 | 1.35 | 1.30 | 1.20 | 1.09 | 0.97 | 0.86 | 0.77 | 0.68 | 0.62 | 0.61 | 0.64 | 0.85 | 1.02 | 1.08 | 1.09 | 1.09 |
| 70          | 0.78 | 0.77 | 0.76 | 0.74 | 0.69 | 0.62 | 0.55 | 0.51 | 0.51 | 0.54 | 0.61 | 0.74 | 0.90 | 1.03 | 1.08 | 1.09 | 1.09 | 1.09 |
| 80          | 0.41 | 0.42 | 0.43 | 0.43 | 0.47 | 0.54 | 0.63 | 0.73 | 0.84 | 0.92 | 0.99 | 1.04 | 1.08 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| 90          | 0.93 | 0.93 | 0.93 | 0.94 | 0.95 | 0.96 | 0.98 | 1.00 | 1.02 | 1.03 | 1.05 | 1.06 | 1.08 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| 100         | 0.55 | 0.57 | 0.60 | 0.63 | 0.63 | 0.61 | 0.60 | 0.60 | 0.61 | 0.64 | 0.68 | 0.72 | 0.77 | 0.87 | 0.98 | 1.05 | 1.08 | 1.09 |
| 110         | 0.11 | 0.13 | 0.14 | 0.17 | 0.17 | 0.15 | 0.13 | 0.13 | 0.13 | 0.18 | 0.24 | 0.30 | 0.38 | 0.61 | 0.82 | 0.98 | 1.07 | 1.09 |
| 120         | 0.15 | 0.13 | 0.11 | 0.10 | 0.10 | 0.09 | 0.08 | 0.06 | 0.05 | 0.05 | 0.06 | 0.09 | 0.17 | 0.43 | 0.70 | 0.92 | 1.06 | 1.09 |
| 130         | 0.30 | 0.28 | 0.26 | 0.25 | 0.25 | 0.25 | 0.23 | 0.17 | 0.10 | 0.05 | 0.03 | 0.03 | 0.13 | 0.35 | 0.62 | 0.89 | 1.05 | 1.09 |
| 140         | 0.63 | 0.54 | 0.41 | 0.36 | 0.33 | 0.30 | 0.29 | 0.26 | 0.23 | 0.13 | 0.04 | 0.05 | 0.11 | 0.30 | 0.58 | 0.87 | 1.04 | 1.09 |
| 150         | 2.69 | 2.54 | 2.32 | 1.93 | 1.33 | 0.76 | 0.42 | 0.26 | 0.22 | 0.19 | 0.16 | 0.10 | 0.13 | 0.27 | 0.57 | 0.87 | 1.05 | 1.09 |
| 160         | 3.86 | 3.78 | 3.71 | 3.53 | 3.14 | 2.47 | 1.42 | 0.57 | 0.38 | 0.41 | 0.30 | 0.19 | 0.17 | 0.27 | 0.56 | 0.88 | 1.05 | 1.09 |
| 170         | 4.38 | 4.34 | 4.18 | 4.03 | 3.82 | 3.75 | 3.11 | 1.65 | 0.87 | 0.75 | 0.49 | 0.28 | 0.22 | 0.29 | 0.58 | 0.91 | 1.06 | 1.09 |
| 180         | 3.57 | 4.43 | 4.44 | 4.25 | 3.98 | 4.52 | 4.50 | 2.60 | 1.36 | 1.09 | 0.68 | 0.35 | 0.27 | 0.32 | 0.63 | 0.96 | 1.08 | 1.09 |

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