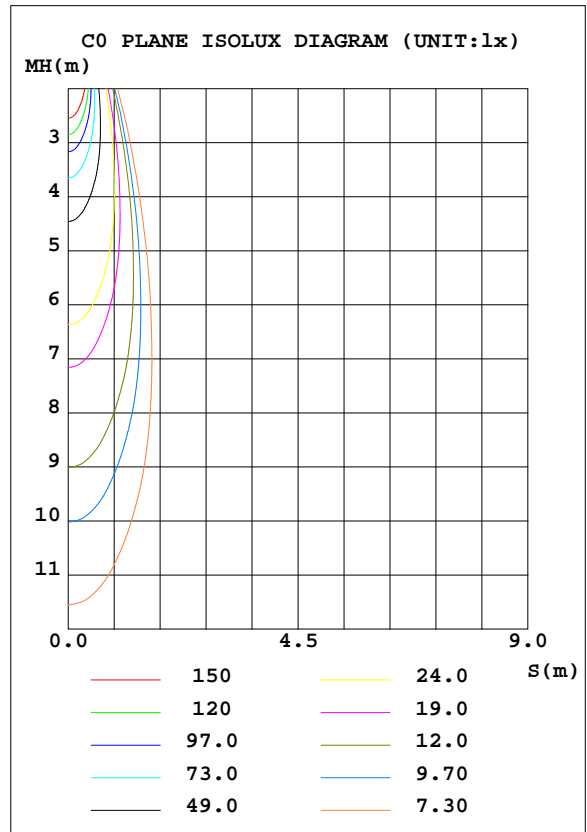
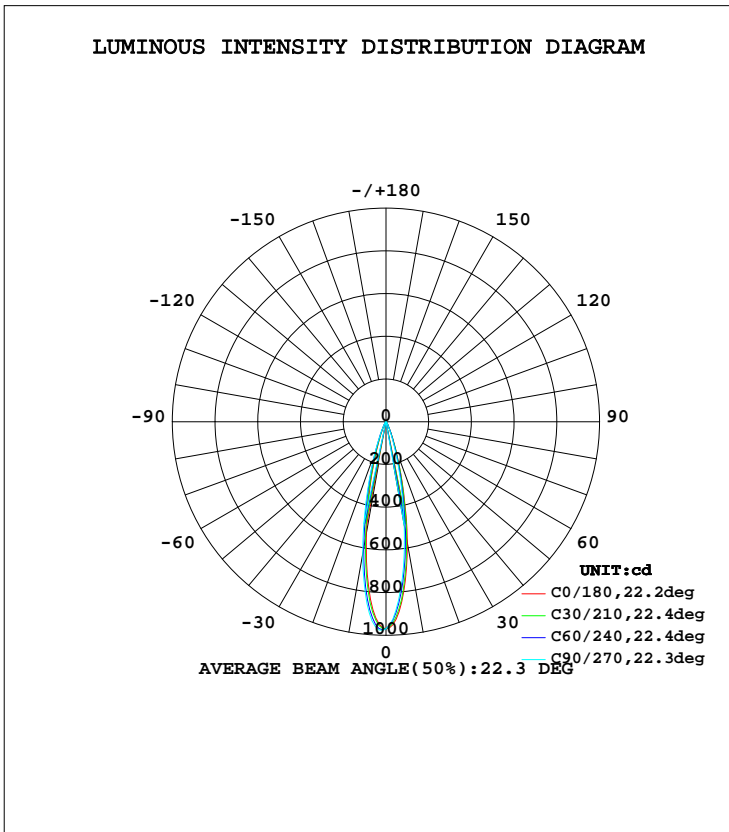


LUMINAIRE PHOTOMETRIC TEST REPORT

|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP     |          | PHOTOMETRIC DATA Eff: 104.78 lm/W |        |                    |           |
|------------------|----------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | CREE-XTE | I <sub>max</sub> (cd)             | 979.2  | S/MH(C0/180)       | 0.39      |
| NOMINAL POWER(W) | 1        | LOR(%)                            | 90.8   | S/MH(C90/270)      | 0.35      |
| RATED VOLTAGE(V) | 3.5      | TOTAL FLUX(lm)                    | 196.15 | η UP, DN(C0-180)   | 0.0, 41.7 |
| NOMINAL FLUX(lm) | 216      | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 0.0, 49.1 |
| LAMPS INSIDE     | 1        | η up(%)                           | 0.0    | CIBSE SHR NOM      | 0.00      |
| TEST VOLTAGE(V)  | 3.5      | η down(%)                         | 90.8   | CIBSE SHR MAX      | 1.00      |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum,lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------------|
| 10       | 575.2                 | 540.2  | 492.4  | 472.1  | 530.9  | 577.8  | 629.3  | 653.5  | 0- 10    | 71.15       | 71.15        | 36.3,32.9       |
| 20       | 120.3                 | 116.2  | 95.19  | 89.16  | 101.2  | 124.7  | 140.7  | 157.3  | 10- 20   | 79.75       | 150.9        | 76.9,69.9       |
| 30       | 21.43                 | 20.59  | 18.60  | 18.17  | 18.85  | 22.79  | 23.70  | 25.79  | 20- 30   | 23.91       | 174.8        | 89.1,80.9       |
| 40       | 8.604                 | 8.066  | 7.731  | 7.784  | 8.066  | 8.418  | 8.560  | 9.086  | 30- 40   | 8.141       | 183.0        | 93.3,84.7       |
| 50       | 4.454                 | 4.724  | 4.824  | 5.310  | 5.294  | 5.601  | 5.354  | 5.064  | 40- 50   | 4.903       | 187.9        | 95.8,87         |
| 60       | 3.110                 | 3.272  | 3.283  | 3.637  | 3.537  | 3.744  | 3.537  | 3.506  | 50- 60   | 3.844       | 191.7        | 97.7,88.7       |
| 70       | 1.844                 | 1.906  | 1.811  | 1.813  | 2.031  | 1.933  | 1.930  | 2.049  | 60- 70   | 2.653       | 194.4        | 99.1,90         |
| 80       | 0.7933                | 0.7660 | 0.6683 | 0.6691 | 0.7846 | 0.7431 | 0.7671 | 0.8770 | 70- 80   | 1.364       | 195.7        | 99.8,90.6       |
| 90       | 0.0926                | 0.1048 | 0.0390 | 0.1204 | 0.1206 | 0.1242 | 0.0714 | 0.1605 | 80- 90   | 0.4333      | 196.1        | 100,90.8        |
| 100      |                       |        |        |        |        |        |        |        | 90-100   |             |              |                 |
| 110      |                       |        |        |        |        |        |        |        | 100-110  |             |              |                 |
| 120      |                       |        |        |        |        |        |        |        | 110-120  |             |              |                 |
| 130      |                       |        |        |        |        |        |        |        | 120-130  |             |              |                 |
| 140      |                       |        |        |        |        |        |        |        | 130-140  |             |              |                 |
| 150      |                       |        |        |        |        |        |        |        | 140-150  |             |              |                 |
| 160      |                       |        |        |        |        |        |        |        | 150-160  |             |              |                 |
| 170      |                       |        |        |        |        |        |        |        | 160-170  |             |              |                 |
| 180      |                       |        |        |        |        |        |        |        | 170-180  |             |              |                 |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |                 |

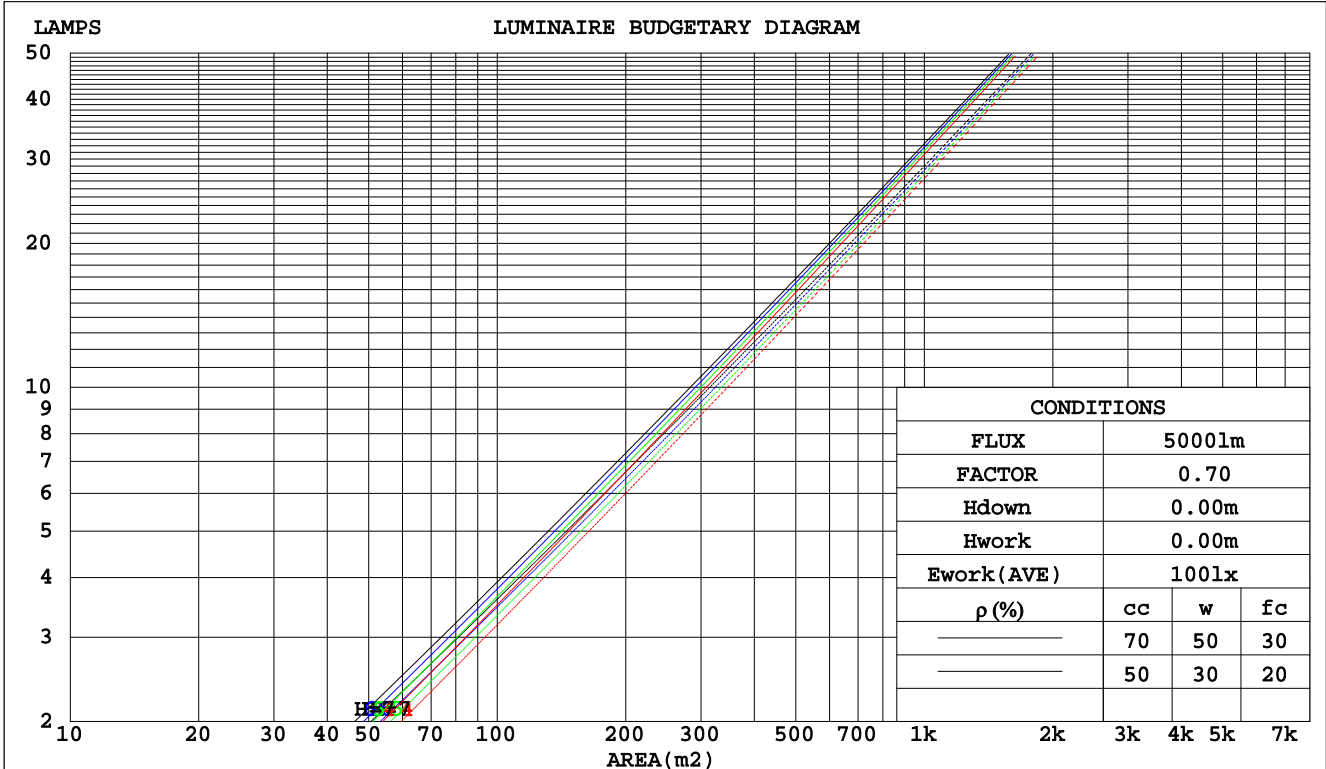
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Zhu  
 Test Date:2018-10-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity:65.0%  
 Test Distance:5.833m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |

|      |                       |      |      |      |      |      |                                 |      |      |     |     |     |     |     |     |     |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30% |     |     | 10% |     |     | 0   |
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |     |     |     |     |     |     |     |
| 0.0  | 1.08                  | 1.08 | 1.08 | 1.06 | 1.06 | 1.06 | 1.01                            | 1.01 | 1.01 | .97 | .97 | .97 | .93 | .93 | .93 | .91 |
| 1.0  | 1.02                  | .90  | .98  | .90  | .98  | .97  | .96                             | .95  | .94  | .93 | .92 | .91 | .90 | .89 | .88 | .87 |
| 2.0  | .97                   | .94  | .91  | .95  | .92  | .90  | .92                             | .90  | .88  | .90 | .88 | .86 | .87 | .86 | .85 | .83 |
| 3.0  | .92                   | .88  | .86  | .91  | .88  | .85  | .89                             | .86  | .84  | .86 | .84 | .82 | .84 | .83 | .81 | .80 |
| 4.0  | .88                   | .84  | .81  | .87  | .84  | .81  | .85                             | .82  | .80  | .84 | .81 | .79 | .82 | .80 | .78 | .77 |
| 5.0  | .85                   | .81  | .78  | .84  | .80  | .77  | .82                             | .79  | .77  | .81 | .78 | .76 | .80 | .77 | .75 | .74 |
| 6.0  | .82                   | .78  | .75  | .81  | .77  | .74  | .80                             | .76  | .74  | .79 | .76 | .73 | .78 | .75 | .73 | .72 |
| 7.0  | .79                   | .75  | .72  | .78  | .75  | .72  | .77                             | .74  | .71  | .76 | .73 | .71 | .75 | .73 | .71 | .70 |
| 8.0  | .76                   | .72  | .70  | .76  | .72  | .70  | .75                             | .72  | .69  | .74 | .71 | .69 | .74 | .71 | .69 | .68 |
| 9.0  | .74                   | .70  | .68  | .74  | .70  | .68  | .73                             | .70  | .67  | .72 | .69 | .67 | .72 | .69 | .67 | .66 |
| 10.0 | .72                   | .68  | .66  | .72  | .68  | .66  | .71                             | .68  | .66  | .71 | .67 | .65 | .70 | .67 | .65 | .64 |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

WEC AND CCEC

|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .136                  | .078 | .025 | .130 | .074 | .024 | .119                            | .068 | .022 | .109 | .063 | .020 | .099 | .057 | .019 |   |
| 2.0  | .126                  | .069 | .021 | .121 | .067 | .021 | .112                            | .062 | .019 | .103 | .058 | .018 | .095 | .054 | .017 |   |
| 3.0  | .117                  | .062 | .019 | .113 | .061 | .018 | .105                            | .057 | .017 | .098 | .054 | .016 | .091 | .051 | .016 |   |
| 4.0  | .109                  | .057 | .017 | .106 | .055 | .016 | .099                            | .053 | .016 | .093 | .050 | .015 | .087 | .047 | .014 |   |
| 5.0  | .102                  | .052 | .015 | .099 | .051 | .015 | .094                            | .049 | .014 | .088 | .047 | .014 | .083 | .045 | .013 |   |
| 6.0  | .096                  | .048 | .014 | .094 | .047 | .014 | .089                            | .046 | .013 | .084 | .044 | .013 | .080 | .042 | .013 |   |
| 7.0  | .091                  | .045 | .013 | .089 | .044 | .013 | .085                            | .043 | .012 | .081 | .041 | .012 | .077 | .040 | .012 |   |
| 8.0  | .086                  | .042 | .012 | .084 | .042 | .012 | .081                            | .040 | .011 | .077 | .039 | .011 | .074 | .038 | .011 |   |
| 9.0  | .082                  | .040 | .011 | .080 | .039 | .011 | .077                            | .038 | .011 | .074 | .037 | .011 | .071 | .036 | .010 |   |
| 10.0 | .078                  | .038 | .010 | .077 | .037 | .010 | .074                            | .036 | .010 | .071 | .035 | .010 | .068 | .034 | .010 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .173                  | .173 | .173 | .148 | .148 | .148 | .101                                       | .101 | .101 | .058 | .058 | .058 | .019 | .019 | .019 |   |
| 1.0  | .154                  | .143 | .133 | .132 | .123 | .115 | .090                                       | .084 | .079 | .052 | .049 | .046 | .017 | .016 | .015 |   |
| 2.0  | .138                  | .120 | .106 | .118 | .104 | .091 | .081                                       | .072 | .064 | .047 | .042 | .037 | .015 | .013 | .012 |   |
| 3.0  | .125                  | .103 | .086 | .107 | .089 | .074 | .073                                       | .062 | .052 | .042 | .036 | .031 | .014 | .012 | .010 |   |
| 4.0  | .114                  | .089 | .070 | .097 | .077 | .061 | .067                                       | .054 | .043 | .039 | .031 | .025 | .012 | .010 | .008 |   |
| 5.0  | .104                  | .078 | .059 | .089 | .068 | .051 | .062                                       | .047 | .036 | .036 | .028 | .021 | .012 | .009 | .007 |   |
| 6.0  | .096                  | .069 | .050 | .083 | .060 | .043 | .057                                       | .042 | .031 | .033 | .025 | .018 | .011 | .008 | .006 |   |
| 7.0  | .089                  | .062 | .042 | .077 | .053 | .037 | .053                                       | .037 | .026 | .031 | .022 | .016 | .010 | .007 | .005 |   |
| 8.0  | .083                  | .056 | .037 | .072 | .048 | .032 | .050                                       | .034 | .023 | .029 | .020 | .013 | .009 | .007 | .004 |   |
| 9.0  | .078                  | .050 | .032 | .067 | .044 | .028 | .047                                       | .031 | .020 | .027 | .018 | .012 | .009 | .006 | .004 |   |
| 10.0 | .073                  | .046 | .028 | .063 | .040 | .024 | .044                                       | .028 | .017 | .026 | .017 | .010 | .008 | .005 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

|  |                  |      |      |      |       |                |      |      |      |                   |  |  |  |  |
|--|------------------|------|------|------|-------|----------------|------|------|------|-------------------|--|--|--|--|
| NAME: KB-H15-25P-XP                                |                  |      |      |      | TYPE: |                |      |      |      | WEIGHT:           |  |  |  |  |
| SPEC.:   |                  |      |      |      | DIM.: |                |      |      |      | SERIAL No.:       |  |  |  |  |
| MFR.: Kingbrite                                    |                  |      |      |      | SUR.: |                |      |      |      | PROTECTION ANGLE: |  |  |  |  |
| ceiling/cavity                                     | 0.7              | 0.7  | 0.5  | 0.5  | 0.3   | 0.7            | 0.7  | 0.5  | 0.5  | 0.3               |  |  |  |  |
| walls  | 0.5              | 0.3  | 0.5  | 0.3  | 0.3   | 0.5            | 0.3  | 0.5  | 0.3  | 0.3               |  |  |  |  |
| working plane                                      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2   | 0.2            | 0.2  | 0.2  | 0.2  | 0.2               |  |  |  |  |
| Room dimensions                                    | Viewed crosswise |      |      |      |       | Viewed endwise |      |      |      |                   |  |  |  |  |
| x = 2H y = 2H                                      | -3.3             | -2.6 | -3.1 | -2.5 | -2.3  | -3.3           | -2.6 | -3.1 | -2.5 | -2.3              |  |  |  |  |
| 3H   | -2.1             | -1.5 | -1.9 | -1.3 | -1.1  | -2.2           | -1.5 | -2.0 | -1.4 | -1.2              |  |  |  |  |
| 4H   | -1.7             | -1.0 | -1.4 | -0.8 | -0.6  | -1.8           | -1.2 | -1.5 | -1.0 | -0.8              |  |  |  |  |
| 6H   | -1.3             | -0.7 | -1.0 | -0.5 | -0.3  | -1.5           | -0.9 | -1.3 | -0.7 | -0.5              |  |  |  |  |
| 8H   | -1.2             | -0.6 | -0.9 | -0.4 | -0.1  | -1.5           | -0.9 | -1.2 | -0.6 | -0.4              |  |  |  |  |
| 12H  | -1.1             | -0.6 | -0.8 | -0.3 | -0.0  | -1.4           | -0.9 | -1.1 | -0.6 | -0.3              |  |  |  |  |
| 4H 2H  | -2.8             | -2.1 | -2.5 | -1.9 | -1.7  | -2.8           | -2.2 | -2.5 | -1.9 | -1.7              |  |  |  |  |
| 3H   | -1.4             | -0.9 | -1.1 | -0.6 | -0.3  | -1.5           | -0.9 | -1.2 | -0.7 | -0.4              |  |  |  |  |
| 4H   | -0.8             | -0.3 | -0.5 | -0.0 | 0.3   | -1.0           | -0.5 | -0.7 | -0.2 | 0.1               |  |  |  |  |
| 6H   | -0.4             | 0.1  | -0.0 | 0.4  | 0.7   | -0.7           | -0.2 | -0.3 | 0.1  | 0.5               |  |  |  |  |
| 8H   | -0.2             | 0.2  | 0.2  | 0.5  | 0.9   | -0.5           | -0.1 | -0.2 | 0.2  | 0.6               |  |  |  |  |
| 12H  | -0.1             | 0.3  | 0.3  | 0.7  | 1.0   | -0.5           | -0.1 | -0.1 | 0.3  | 0.7               |  |  |  |  |
| 8H 4H  | -0.7             | -0.2 | -0.3 | 0.1  | 0.5   | -0.8           | -0.4 | -0.4 | -0.1 | 0.3               |  |  |  |  |
| 6H   | -0.1             | 0.3  | 0.3  | 0.7  | 1.1   | -0.4           | -0.0 | 0.1  | 0.4  | 0.8               |  |  |  |  |
| 8H   | 0.2              | 0.5  | 0.6  | 0.9  | 1.3   | -0.2           | 0.1  | 0.3  | 0.6  | 1.0               |  |  |  |  |
| 12H  | 0.4              | 0.6  | 0.8  | 1.1  | 1.5   | -0.0           | 0.2  | 0.4  | 0.7  | 1.1               |  |  |  |  |
| 12H 4H   | -0.7             | -0.3 | -0.3 | 0.1  | 0.5   | -0.8           | -0.4 | -0.4 | -0.1 | 0.3               |  |  |  |  |
| 6H   | -0.1             | 0.2  | 0.4  | 0.7  | 1.1   | -0.3           | -0.0 | 0.1  | 0.4  | 0.8               |  |  |  |  |
| 8H   | 0.2              | 0.5  | 0.7  | 0.9  | 1.4   | -0.1           | 0.2  | 0.4  | 0.6  | 1.1               |  |  |  |  |
| Variations with the observer position at spacings: |                  |      |      |      |       |                |      |      |      |                   |  |  |  |  |
| S = 1.0H   | + 0.3 / - 0.4    |      |      |      |       | + 0.3 / - 0.4  |      |      |      |                   |  |  |  |  |
| 1.5H   | + 0.4 / - 0.4    |      |      |      |       | + 0.3 / - 0.2  |      |      |      |                   |  |  |  |  |
| 2.0H   | + 0.2 / - 0.4    |      |      |      |       | + 0.3 / - 0.3  |      |      |      |                   |  |  |  |  |

CIE Pub.117 Corrected 216.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -5.3)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |

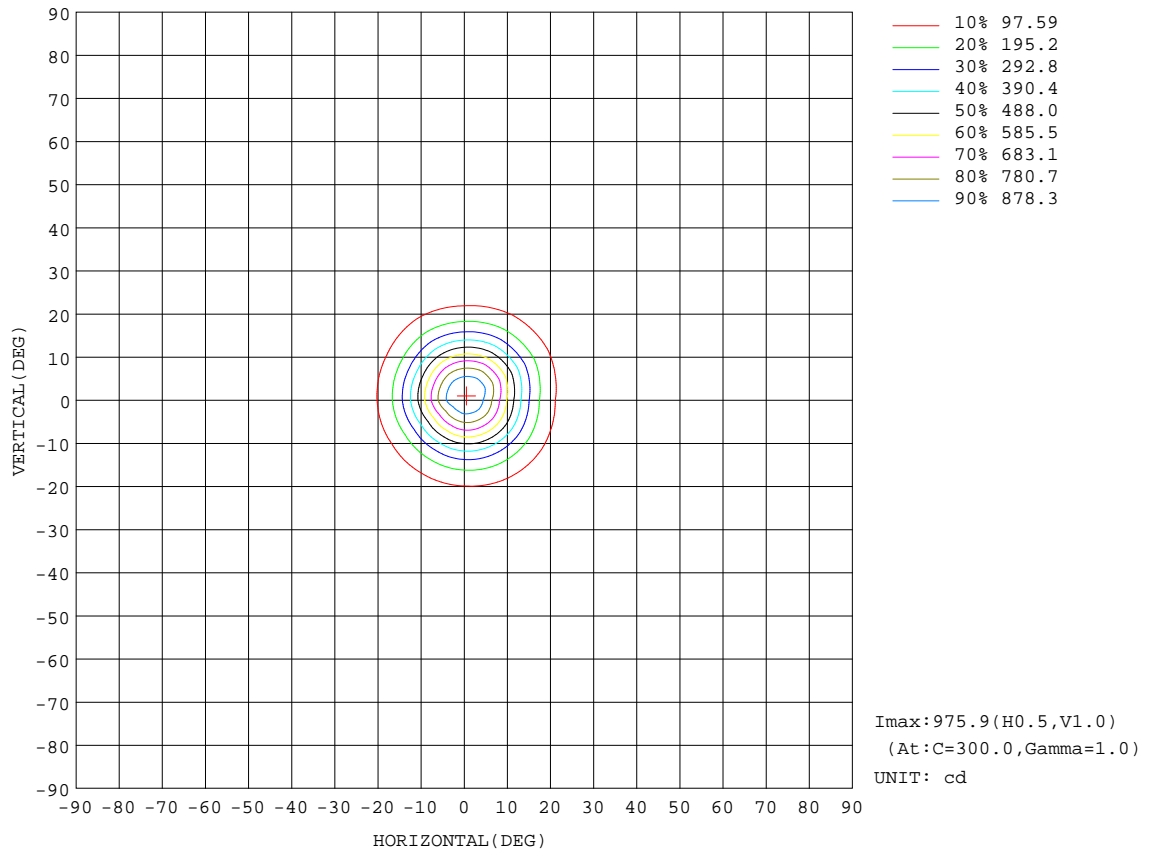
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 79   | 74  | 70        | 79  | 73  | 70  | 78            | 73  | 70  | 67     |
| 0.80                             | 86   | 81  | 77        | 85  | 80  | 77  | 84            | 80  | 77  | 73     |
| 1.00                             | 90   | 85  | 81        | 89  | 84  | 81  | 88            | 84  | 81  | 77     |
| 1.25                             | 93   | 89  | 85        | 92  | 88  | 85  | 91            | 87  | 84  | 81     |
| 1.50                             | 96   | 92  | 88        | 95  | 91  | 88  | 93            | 89  | 87  | 83     |
| 2.00                             | 98   | 94  | 91        | 97  | 93  | 91  | 95            | 92  | 89  | 85     |
| 2.50                             | 100  | 96  | 94        | 98  | 95  | 93  | 96            | 93  | 91  | 86     |
| 3.00                             | 101  | 98  | 96        | 100 | 97  | 95  | 97            | 94  | 93  | 87     |
| 4.00                             | 103  | 101 | 99        | 101 | 99  | 97  | 98            | 96  | 95  | 88     |
| 5.00                             | 104  | 102 | 101       | 102 | 101 | 99  | 99            | 98  | 96  | 89     |
| ROOM INDEX                       | UF(total)                                    |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |

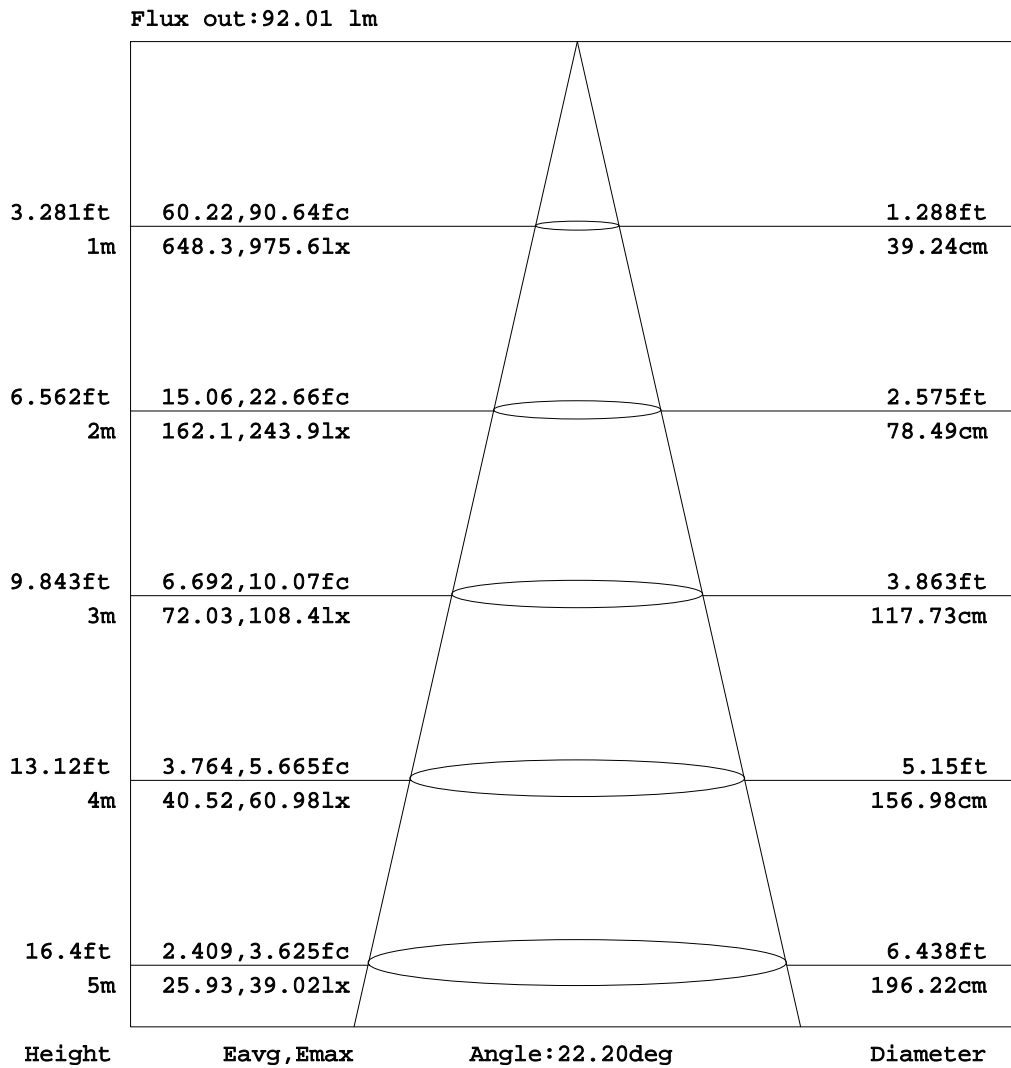


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

AAI Figure

|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |



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

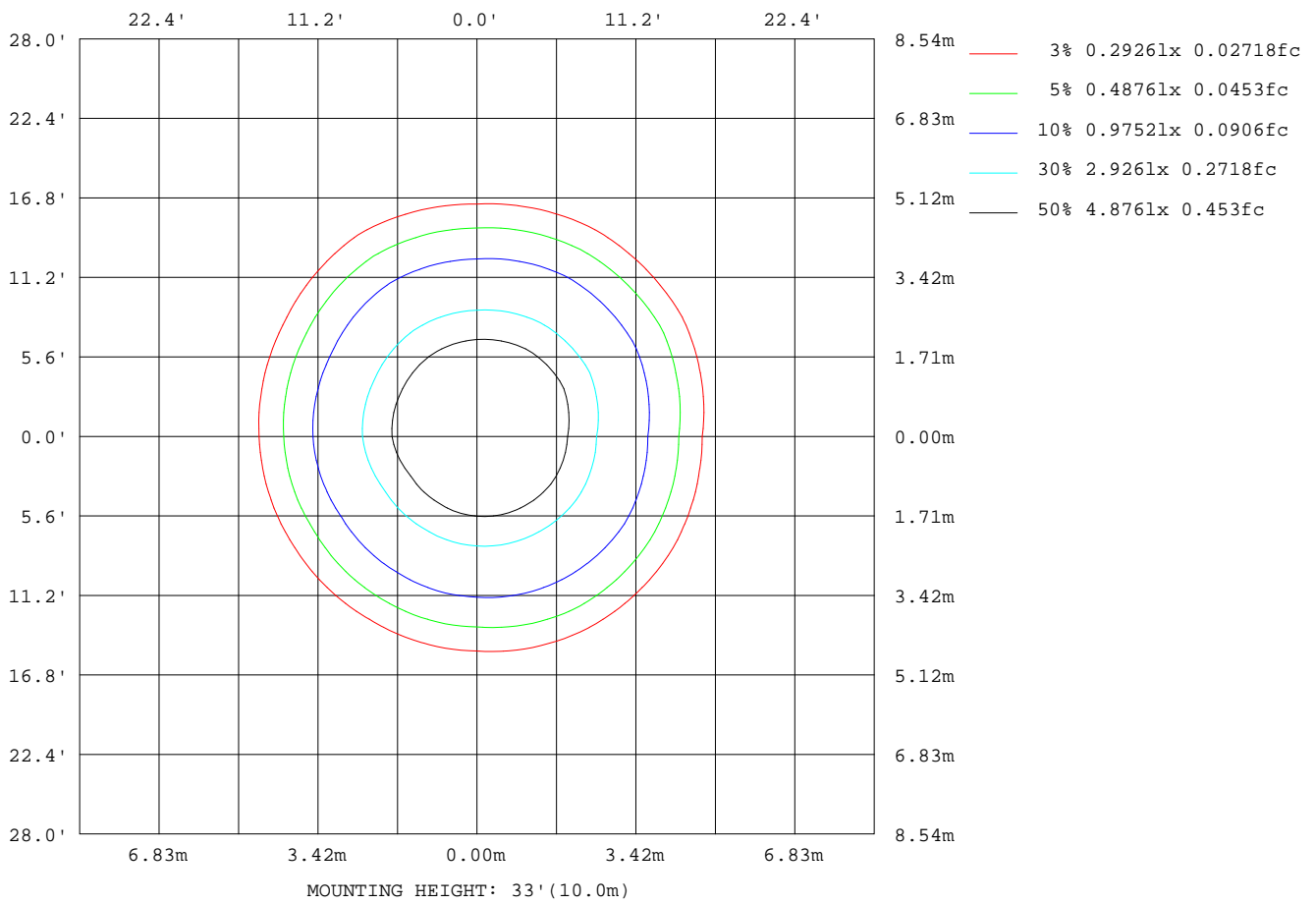
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

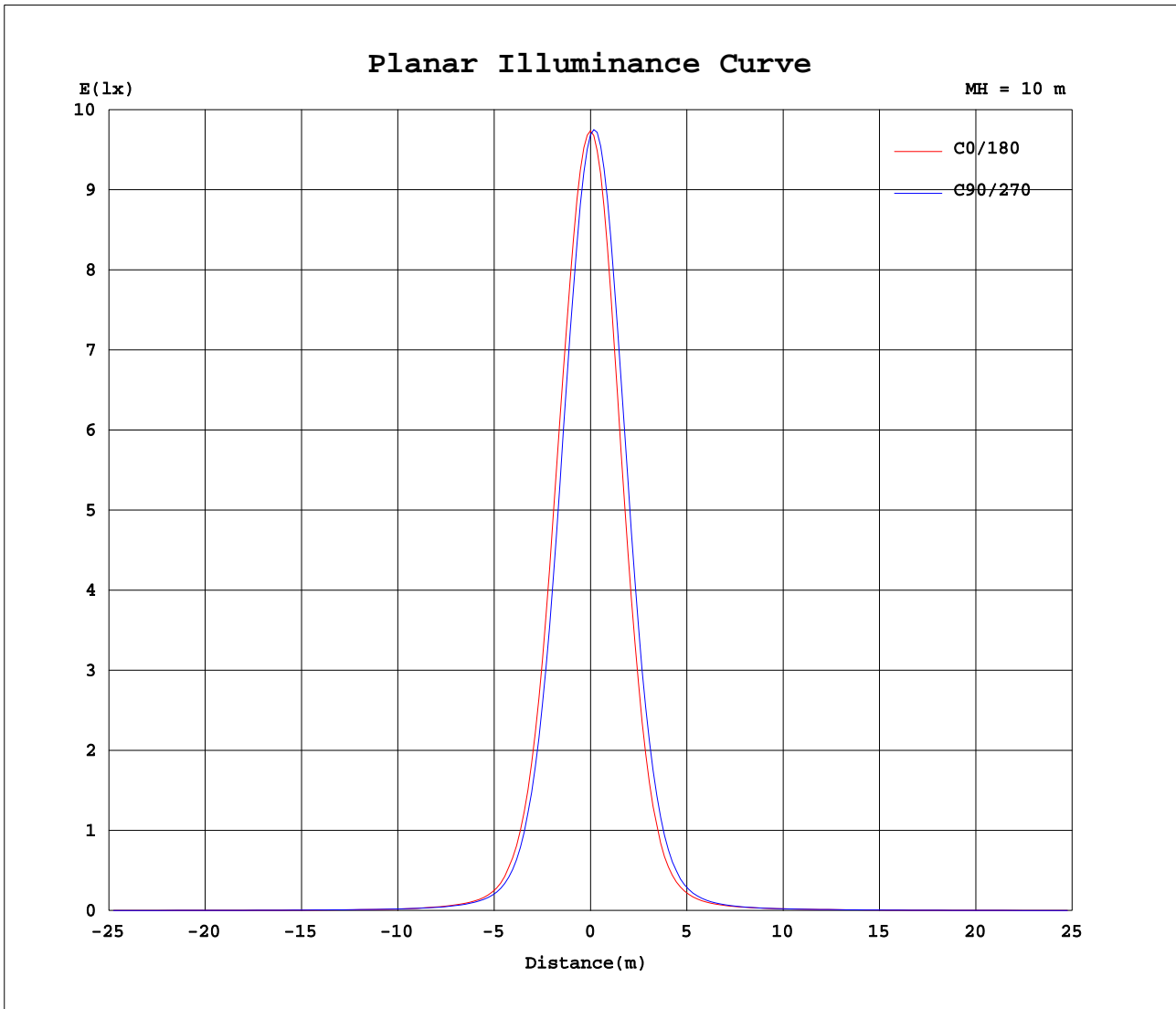
|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zhu  
 Test Date: 2018-10-22

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.280  
 Humidity: 65.0%  
 Test Distance: 5.833m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                     |       |                   |
|---------------------|-------|-------------------|
| NAME: KB-H15-25P-XP | TYPE: | WEIGHT:           |
| SPEC.:              | DIM.: | SERIAL No.:       |
| MFR.: Kingbrite     | SUR.: | PROTECTION ANGLE: |

Table--1

UNIT: cd

| C(DEG)\γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |  |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0              | 969  | 969  | 969  | 969  | 969  | 969  | 969  | 969  | 969  | 969  | 969  | 969  |  |  |  |  |  |  |  |
| 5              | 847  | 836  | 808  | 789  | 777  | 781  | 835  | 852  | 882  | 900  | 917  | 905  |  |  |  |  |  |  |  |
| 10             | 575  | 558  | 523  | 492  | 471  | 473  | 531  | 554  | 601  | 629  | 658  | 649  |  |  |  |  |  |  |  |
| 15             | 293  | 286  | 261  | 239  | 225  | 225  | 260  | 279  | 318  | 334  | 360  | 357  |  |  |  |  |  |  |  |
| 20             | 120  | 123  | 109  | 95.2 | 89.0 | 89.3 | 101  | 112  | 138  | 141  | 158  | 157  |  |  |  |  |  |  |  |
| 25             | 45.8 | 46.6 | 42.8 | 37.3 | 35.6 | 36.7 | 39.5 | 44.5 | 54.3 | 53.2 | 60.9 | 61.5 |  |  |  |  |  |  |  |
| 30             | 21.4 | 21.1 | 20.0 | 18.6 | 17.9 | 18.4 | 18.9 | 20.7 | 24.9 | 23.7 | 26.1 | 25.5 |  |  |  |  |  |  |  |
| 35             | 13.0 | 12.5 | 12.0 | 11.3 | 11.0 | 11.1 | 11.5 | 11.8 | 13.4 | 13.2 | 14.2 | 14.1 |  |  |  |  |  |  |  |
| 40             | 8.60 | 8.15 | 7.98 | 7.73 | 7.65 | 7.91 | 8.07 | 8.13 | 8.71 | 8.56 | 9.13 | 9.04 |  |  |  |  |  |  |  |
| 45             | 5.62 | 5.90 | 5.76 | 5.91 | 6.13 | 6.34 | 6.38 | 6.62 | 6.60 | 6.44 | 6.40 | 6.33 |  |  |  |  |  |  |  |
| 50             | 4.45 | 4.68 | 4.77 | 4.82 | 5.32 | 5.30 | 5.29 | 5.64 | 5.56 | 5.35 | 5.11 | 5.02 |  |  |  |  |  |  |  |
| 55             | 3.75 | 4.01 | 4.03 | 3.99 | 4.44 | 4.57 | 4.41 | 4.66 | 4.65 | 4.46 | 4.49 | 4.20 |  |  |  |  |  |  |  |
| 60             | 3.11 | 3.28 | 3.26 | 3.28 | 3.58 | 3.69 | 3.54 | 3.83 | 3.65 | 3.54 | 3.63 | 3.38 |  |  |  |  |  |  |  |
| 65             | 2.48 | 2.66 | 2.56 | 2.54 | 2.61 | 2.72 | 2.74 | 2.81 | 2.72 | 2.69 | 2.78 | 2.73 |  |  |  |  |  |  |  |
| 70             | 1.84 | 1.97 | 1.84 | 1.81 | 1.78 | 1.85 | 2.03 | 1.96 | 1.91 | 1.93 | 2.05 | 2.05 |  |  |  |  |  |  |  |
| 75             | 1.28 | 1.32 | 1.22 | 1.17 | 1.13 | 1.16 | 1.36 | 1.27 | 1.24 | 1.28 | 1.39 | 1.45 |  |  |  |  |  |  |  |
| 80             | 0.79 | 0.80 | 0.73 | 0.67 | 0.65 | 0.68 | 0.78 | 0.75 | 0.73 | 0.77 | 0.84 | 0.91 |  |  |  |  |  |  |  |
| 85             | 0.39 | 0.43 | 0.37 | 0.30 | 0.32 | 0.33 | 0.32 | 0.40 | 0.37 | 0.39 | 0.43 | 0.51 |  |  |  |  |  |  |  |
| 90             | 0.09 | 0.13 | 0.08 | 0.04 | 0.10 | 0.15 | 0.12 | 0.15 | 0.10 | 0.07 | 0.12 | 0.20 |  |  |  |  |  |  |  |

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