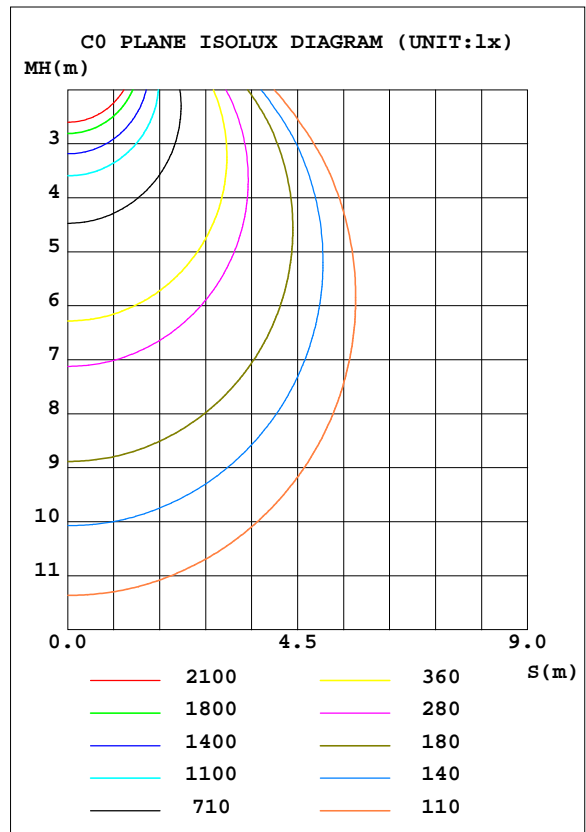
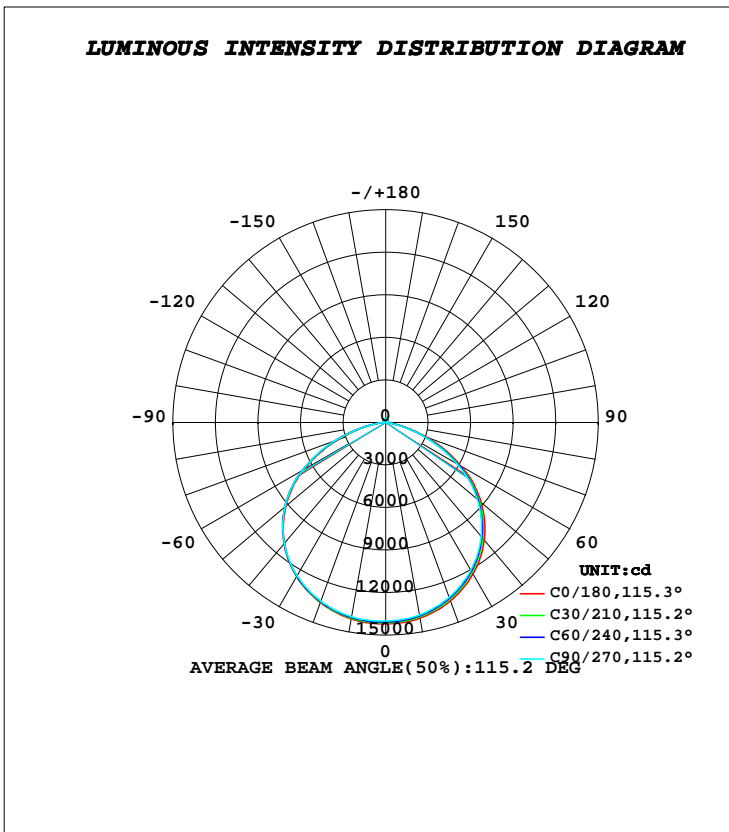


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 135.54 lm/W | | | |
|------------------|---------------|-----------------------------------|--------|--------------------|-----------|
| MODEL | IMSYLHU300WDL | I _{max} (cd) | 14205 | S/MH(C0/180) | 1.29 |
| NOMINAL POWER(W) | 300 | LOR(%) | 100.0 | S/MH(C90/270) | 1.28 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 41096 | η UP, DN(C0-180) | 1.3, 46.3 |
| NOMINAL FLUX(lm) | 41095.9 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 1.4, 51.0 |
| LAMPS INSIDE | 1 | η up(%) | 2.7 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 220.0 | η down(%) | 97.3 | CIBSE SHR MAX | 1.35 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017-09-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7100]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|----------|-----------------|--------------|------------|
| 10 | 1401 | 1388 | 1378 | 1369 | 1408 | 1399 | 1391 | 1383 | 0- 10 | 1333 | 1333 | 3.24,3.24 |
| 20 | 1338 | 1322 | 1311 | 1303 | 1352 | 1347 | 1341 | 1334 | 10- 20 | 3852 | 5186 | 12.6,12.6 |
| 30 | 1233 | 1215 | 1202 | 1195 | 1255 | 1254 | 1250 | 1243 | 20- 30 | 5925 | 11110 | 27,27 |
| 40 | 1081 | 1061 | 1047 | 1041 | 1111 | 1115 | 1113 | 1107 | 30- 40 | 7271 | 18381 | 44.7,44.7 |
| 50 | 880.2 | 857.7 | 844.7 | 838.3 | 921.1 | 927.7 | 928.4 | 925.6 | 40- 50 | 7647 | 26029 | 63.3,63.3 |
| 60 | 609.4 | 588.7 | 576.3 | 569.6 | 664.3 | 677.9 | 681.4 | 681.6 | 50- 60 | 6863 | 32891 | 80,80 |
| 70 | 309.2 | 287.0 | 276.4 | 272.0 | 359.2 | 378.3 | 385.2 | 386.1 | 60- 70 | 4775 | 37667 | 91.7,91.7 |
| 80 | 59.30 | 48.55 | 43.77 | 41.56 | 90.88 | 103.0 | 107.0 | 109.2 | 70- 80 | 2038 | 39704 | 96.6,96.6 |
| 90 | 6.977 | 7.109 | 7.152 | 7.104 | 11.33 | 11.11 | 10.97 | 10.86 | 80- 90 | 283.8 | 39988 | 97.3,97.3 |
| 100 | 9.794 | 9.964 | 10.02 | 9.958 | 13.36 | 13.08 | 12.91 | 12.79 | 90-100 | 111.4 | 40099 | 97.6,97.6 |
| 110 | 12.99 | 13.14 | 13.18 | 13.13 | 16.12 | 15.74 | 15.53 | 15.43 | 100-110 | 136.3 | 40236 | 97.9,97.9 |
| 120 | 16.13 | 16.26 | 16.27 | 16.24 | 19.15 | 18.75 | 18.50 | 18.41 | 110-120 | 158.0 | 40394 | 98.3,98.3 |
| 130 | 18.86 | 18.96 | 18.97 | 18.94 | 21.70 | 21.31 | 21.05 | 20.97 | 120-130 | 168.5 | 40562 | 98.7,98.7 |
| 140 | 21.21 | 21.31 | 21.33 | 21.25 | 23.63 | 23.27 | 22.97 | 22.92 | 130-140 | 163.7 | 40726 | 99.1,99.1 |
| 150 | 23.65 | 23.69 | 23.71 | 23.61 | 25.43 | 25.09 | 24.76 | 24.72 | 140-150 | 145.8 | 40872 | 99.5,99.5 |
| 160 | 26.34 | 26.37 | 26.37 | 26.25 | 27.46 | 27.13 | 26.79 | 26.73 | 150-160 | 117.5 | 40989 | 99.7,99.7 |
| 170 | 29.05 | 29.06 | 29.00 | 28.83 | 29.51 | 29.20 | 28.91 | 28.81 | 160-170 | 78.70 | 41068 | 99.9,99.9 |
| 180 | 30.18 | 30.12 | 30.00 | 29.76 | 30.30 | 30.12 | 29.90 | 29.76 | 170-180 | 28.14 | 41096 | 100,100 |
| DEG | LUMINOUS INTENSITY:×10cd | | | | | | | | | UNIT: lm | | |

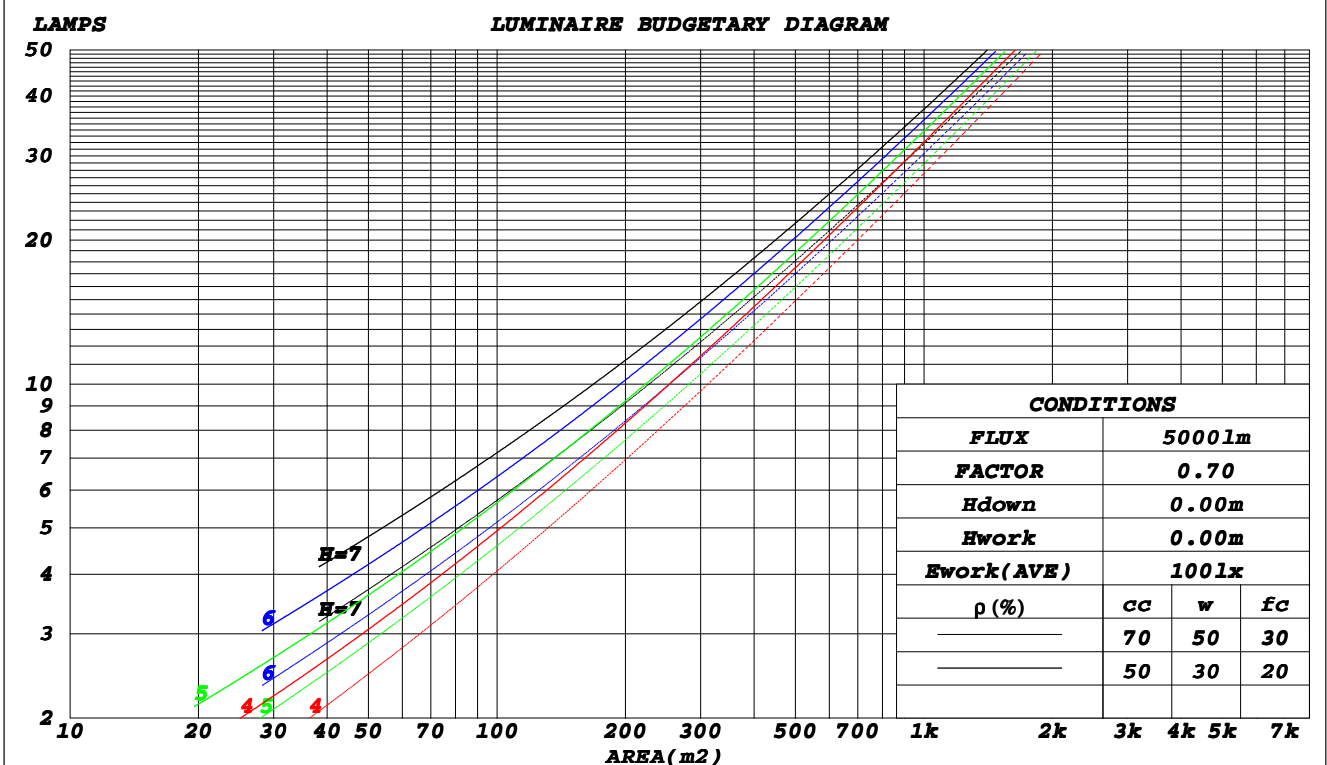
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7100]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.04 | 1.04 | 1.04 | .00 | .00 | .00 | .97 |
| 1.0 | 1.04 | 1.00 | .97 | 1.02 | .98 | .95 | .97 | .94 | .91 | .93 | .90 | .88 | .89 | .87 | .85 | .83 |
| 2.0 | .91 | .85 | .79 | .89 | .83 | .78 | .85 | .80 | .76 | .82 | .77 | .74 | .78 | .75 | .72 | .70 |
| 3.0 | .80 | .72 | .66 | .79 | .71 | .65 | .75 | .69 | .64 | .72 | .67 | .62 | .69 | .65 | .61 | .59 |
| 4.0 | .71 | .63 | .56 | .70 | .62 | .55 | .67 | .60 | .54 | .64 | .58 | .53 | .62 | .57 | .52 | .50 |
| 5.0 | .64 | .55 | .48 | .62 | .54 | .48 | .60 | .53 | .47 | .58 | .51 | .46 | .55 | .50 | .46 | .43 |
| 6.0 | .57 | .48 | .42 | .56 | .48 | .42 | .54 | .47 | .41 | .52 | .45 | .41 | .50 | .44 | .40 | .38 |
| 7.0 | .52 | .43 | .37 | .51 | .43 | .37 | .49 | .42 | .36 | .47 | .41 | .36 | .46 | .40 | .35 | .33 |
| 8.0 | .47 | .39 | .33 | .46 | .38 | .33 | .45 | .38 | .32 | .43 | .37 | .32 | .42 | .36 | .32 | .30 |
| 9.0 | .43 | .35 | .30 | .42 | .35 | .29 | .41 | .34 | .29 | .40 | .33 | .29 | .39 | .33 | .29 | .27 |
| 10.0 | .40 | .32 | .27 | .39 | .32 | .27 | .38 | .31 | .26 | .37 | .31 | .26 | .36 | .30 | .26 | .24 |



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.000m [K=0.7100]
 Remarks:

WEC AND CCEC

| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|------------------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .287 | .163 | .052 | .280 | .160 | .051 | .265 | .152 | .049 | .251 | .145 | .047 | .239 | .139 | .045 | |
| 2.0 | .277 | .152 | .047 | .270 | .149 | .046 | .257 | .143 | .044 | .245 | .138 | .043 | .234 | .132 | .042 | |
| 3.0 | .260 | .138 | .041 | .254 | .136 | .041 | .242 | .131 | .040 | .231 | .127 | .039 | .221 | .123 | .038 | |
| 4.0 | .242 | .126 | .037 | .236 | .124 | .037 | .226 | .120 | .036 | .216 | .116 | .035 | .208 | .113 | .034 | |
| 5.0 | .225 | .115 | .033 | .220 | .113 | .033 | .211 | .110 | .032 | .202 | .107 | .032 | .194 | .104 | .031 | |
| 6.0 | .209 | .105 | .030 | .205 | .104 | .030 | .197 | .101 | .029 | .189 | .098 | .029 | .182 | .096 | .028 | |
| 7.0 | .196 | .097 | .027 | .192 | .095 | .027 | .184 | .093 | .027 | .177 | .091 | .026 | .171 | .089 | .026 | |
| 8.0 | .183 | .089 | .025 | .180 | .088 | .025 | .173 | .086 | .025 | .167 | .084 | .024 | .161 | .082 | .024 | |
| 9.0 | .172 | .083 | .023 | .169 | .082 | .023 | .163 | .080 | .023 | .157 | .079 | .023 | .151 | .077 | .022 | |
| 10.0 | .162 | .078 | .022 | .159 | .077 | .021 | .153 | .075 | .021 | .148 | .074 | .021 | .143 | .072 | .021 | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|------------------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .211 | .211 | .211 | .180 | .180 | .180 | .123 | .123 | .123 | .071 | .071 | .071 | .023 | .023 | .023 | |
| 2.0 | .199 | .177 | .157 | .171 | .152 | .135 | .117 | .105 | .093 | .067 | .060 | .054 | .022 | .019 | .018 | |
| 3.0 | .191 | .153 | .121 | .164 | .132 | .104 | .112 | .091 | .073 | .065 | .053 | .043 | .021 | .017 | .014 | |
| 4.0 | .183 | .135 | .097 | .157 | .117 | .084 | .108 | .081 | .059 | .062 | .047 | .035 | .020 | .015 | .011 | |
| 5.0 | .176 | .122 | .080 | .151 | .105 | .070 | .104 | .073 | .049 | .060 | .043 | .029 | .019 | .014 | .010 | |
| 6.0 | .169 | .111 | .069 | .145 | .096 | .060 | .100 | .067 | .042 | .058 | .040 | .025 | .019 | .013 | .008 | |
| 7.0 | .162 | .103 | .061 | .139 | .089 | .053 | .096 | .063 | .038 | .056 | .037 | .022 | .018 | .012 | .007 | |
| 8.0 | .155 | .096 | .055 | .134 | .083 | .048 | .092 | .059 | .034 | .054 | .034 | .020 | .017 | .011 | .007 | |
| 9.0 | .149 | .091 | .050 | .128 | .079 | .044 | .089 | .055 | .031 | .052 | .033 | .019 | .017 | .011 | .006 | |
| 10.0 | .143 | .086 | .047 | .123 | .074 | .041 | .085 | .052 | .029 | .050 | .031 | .017 | .016 | .010 | .006 | |
| 10.0 | .138 | .081 | .044 | .119 | .071 | .038 | .082 | .050 | .027 | .048 | .029 | .016 | .016 | .010 | .005 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7100]
Remarks:

Uncorrected UGR Table

| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |

| 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 | 29.7 | 31.2 | 30.0 | 31.4 | 31.7 | 29.5 | 31.0 | 29.8 | 31.2 | 31.5 |
| 3H | 30.8 | 32.2 | 31.2 | 32.4 | 32.7 | 30.5 | 31.9 | 30.9 | 32.1 | 32.4 |
| 4H | 31.1 | 32.3 | 31.4 | 32.6 | 32.9 | 30.7 | 32.0 | 31.1 | 32.3 | 32.6 |
| 6H | 31.1 | 32.3 | 31.5 | 32.6 | 32.9 | 30.7 | 31.9 | 31.1 | 32.2 | 32.5 |
| 8H | 31.1 | 32.2 | 31.4 | 32.5 | 32.9 | 30.7 | 31.8 | 31.0 | 32.1 | 32.5 |
| 12H | 31.0 | 32.1 | 31.4 | 32.4 | 32.8 | 30.6 | 31.7 | 31.0 | 32.1 | 32.4 |
| 4H 2H | 30.2 | 31.5 | 30.5 | 31.8 | 32.1 | 30.0 | 31.3 | 30.4 | 31.6 | 31.9 |
| 3H | 31.4 | 32.5 | 31.8 | 32.8 | 33.2 | 31.1 | 32.2 | 31.5 | 32.6 | 32.9 |
| 4H | 31.7 | 32.7 | 32.1 | 33.0 | 33.4 | 31.4 | 32.4 | 31.8 | 32.7 | 33.1 |
| 6H | 31.8 | 32.6 | 32.2 | 33.0 | 33.5 | 31.4 | 32.3 | 31.8 | 32.7 | 33.1 |
| 8H | 31.7 | 32.5 | 32.2 | 33.0 | 33.4 | 31.4 | 32.2 | 31.8 | 32.6 | 33.0 |
| 12H | 31.7 | 32.4 | 32.2 | 32.9 | 33.3 | 31.3 | 32.1 | 31.8 | 32.5 | 33.0 |
| 8H 4H | 31.7 | 32.5 | 32.2 | 32.9 | 33.4 | 31.4 | 32.2 | 31.9 | 32.6 | 33.1 |
| 6H | 31.8 | 32.5 | 32.3 | 32.9 | 33.4 | 31.5 | 32.2 | 32.0 | 32.6 | 33.1 |
| 8H | 31.8 | 32.4 | 32.3 | 32.9 | 33.4 | 31.5 | 32.0 | 32.0 | 32.5 | 33.0 |
| 12H | 31.8 | 32.3 | 32.3 | 32.8 | 33.3 | 31.4 | 31.9 | 31.9 | 32.4 | 33.0 |
| 12H 4H | 31.7 | 32.4 | 32.1 | 32.8 | 33.3 | 31.4 | 32.1 | 31.8 | 32.6 | 33.0 |
| 6H | 31.8 | 32.4 | 32.3 | 32.8 | 33.4 | 31.4 | 32.0 | 31.9 | 32.5 | 33.0 |
| 8H | 31.8 | 32.3 | 32.3 | 32.8 | 33.3 | 31.4 | 31.9 | 31.9 | 32.4 | 33.0 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.2 / - 0.3 | | | | | + 0.3 / - 0.4 | | | | |
| 1.5H | + 0.3 / - 0.4 | | | | | + 0.3 / - 0.5 | | | | |
| 2.0H | + 0.5 / - 0.5 | | | | | + 0.5 / - 0.5 | | | | |

CIE Pub.117 Corrected 41096 lm Total Lamp Luminous Flux.(8log(F/F0) = 12.9)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-09-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7100]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |

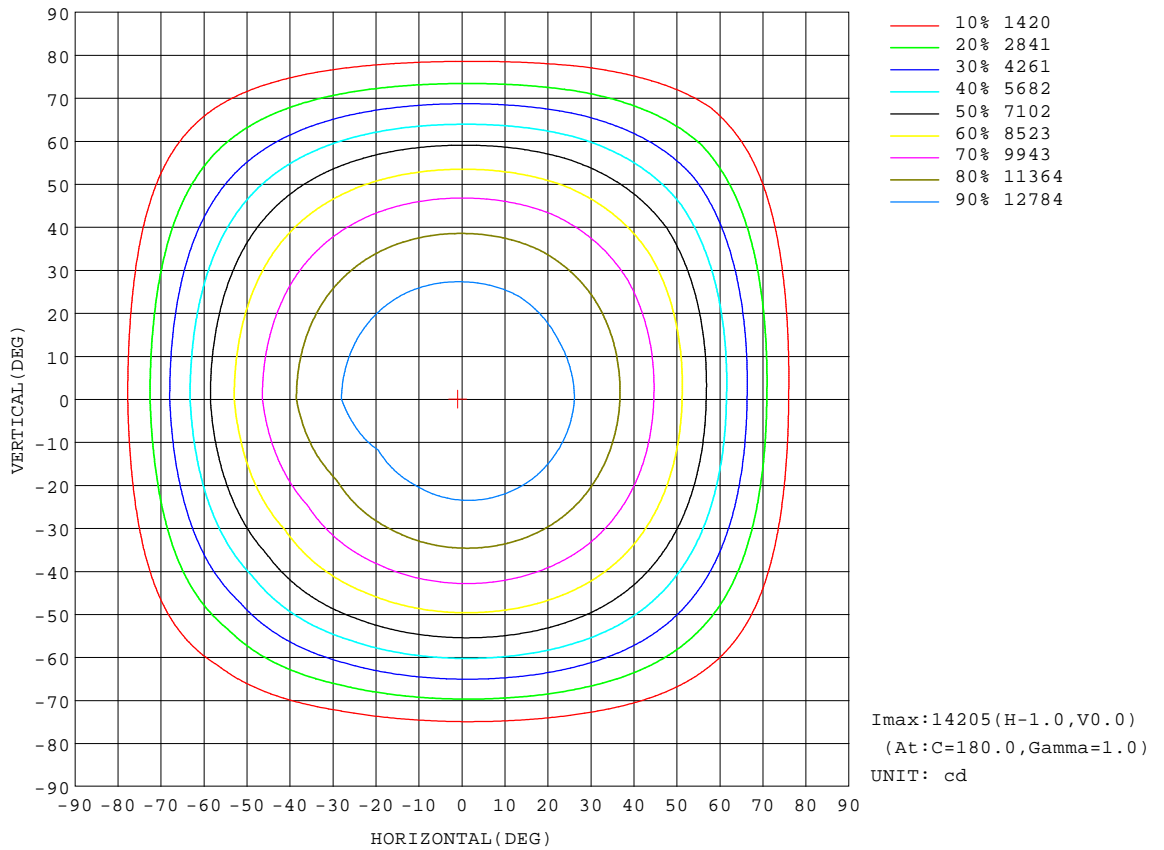
| REFLECTANCE | | | | | | | | | | |
|---|---|-----|------------------|-----|-----|-----|----------------------|-----|-----|---------------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| k = 0.60 | 57 | 46 | 39 | 56 | 45 | 39 | 55 | 45 | 38 | 32 |
| 0.80 | 68 | 56 | 49 | 66 | 56 | 49 | 64 | 55 | 48 | 41 |
| 1.00 | 76 | 65 | 58 | 75 | 65 | 58 | 72 | 66 | 57 | 50 |
| 1.25 | 83 | 73 | 66 | 82 | 72 | 66 | 79 | 71 | 65 | 57 |
| 1.50 | 88 | 79 | 72 | 87 | 78 | 71 | 83 | 76 | 70 | 62 |
| 2.00 | 95 | 87 | 81 | 93 | 86 | 80 | 90 | 83 | 78 | 70 |
| 2.50 | 99 | 92 | 86 | 97 | 90 | 85 | 93 | 87 | 83 | 74 |
| 3.00 | 102 | 96 | 91 | 100 | 94 | 89 | 96 | 91 | 87 | 78 |
| 4.00 | 106 | 101 | 97 | 104 | 99 | 95 | 99 | 95 | 92 | 82 |
| 5.00 | 109 | 104 | 100 | 106 | 102 | 98 | 101 | 98 | 95 | 85 |
| 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:DAMIN
Test Date:2017-09-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7100]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |



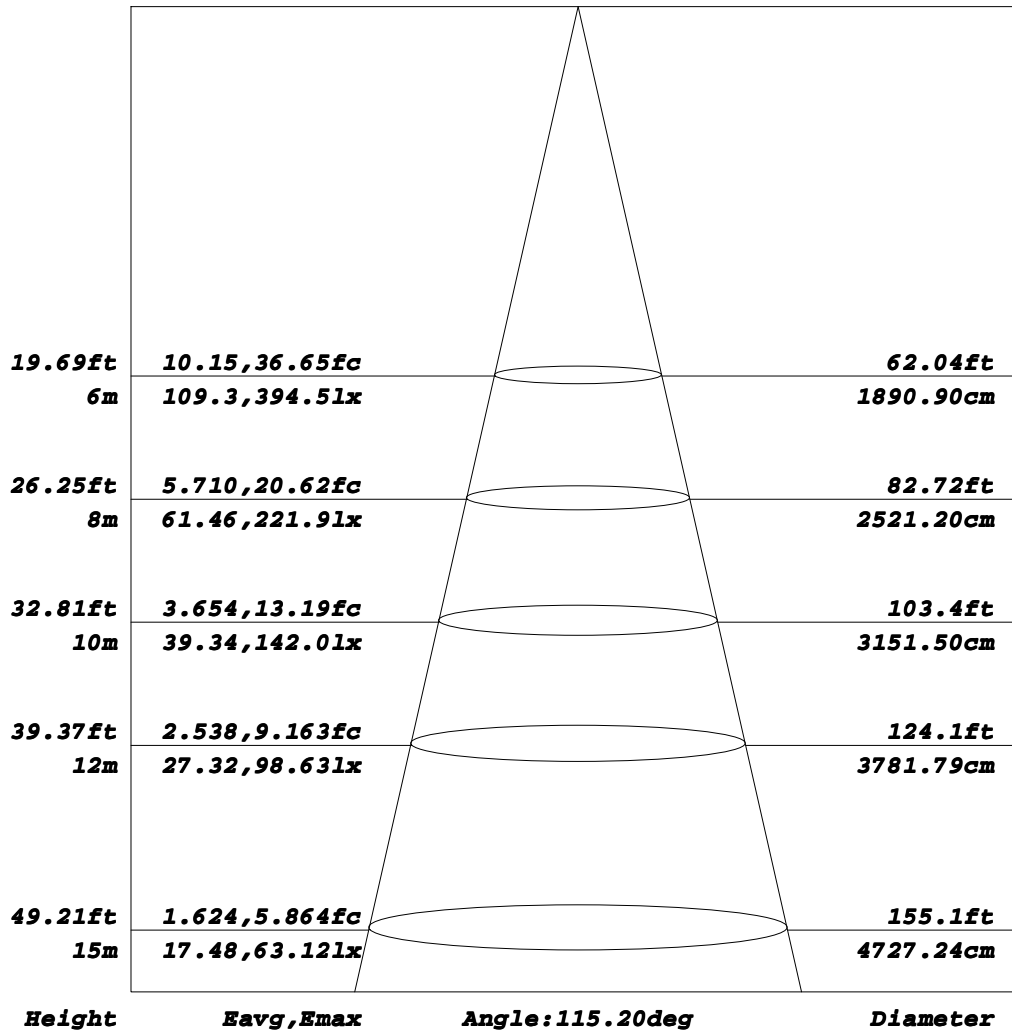
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-09-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7100]
Remarks:

AAI Figure

| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |

Flux out:31649 lm



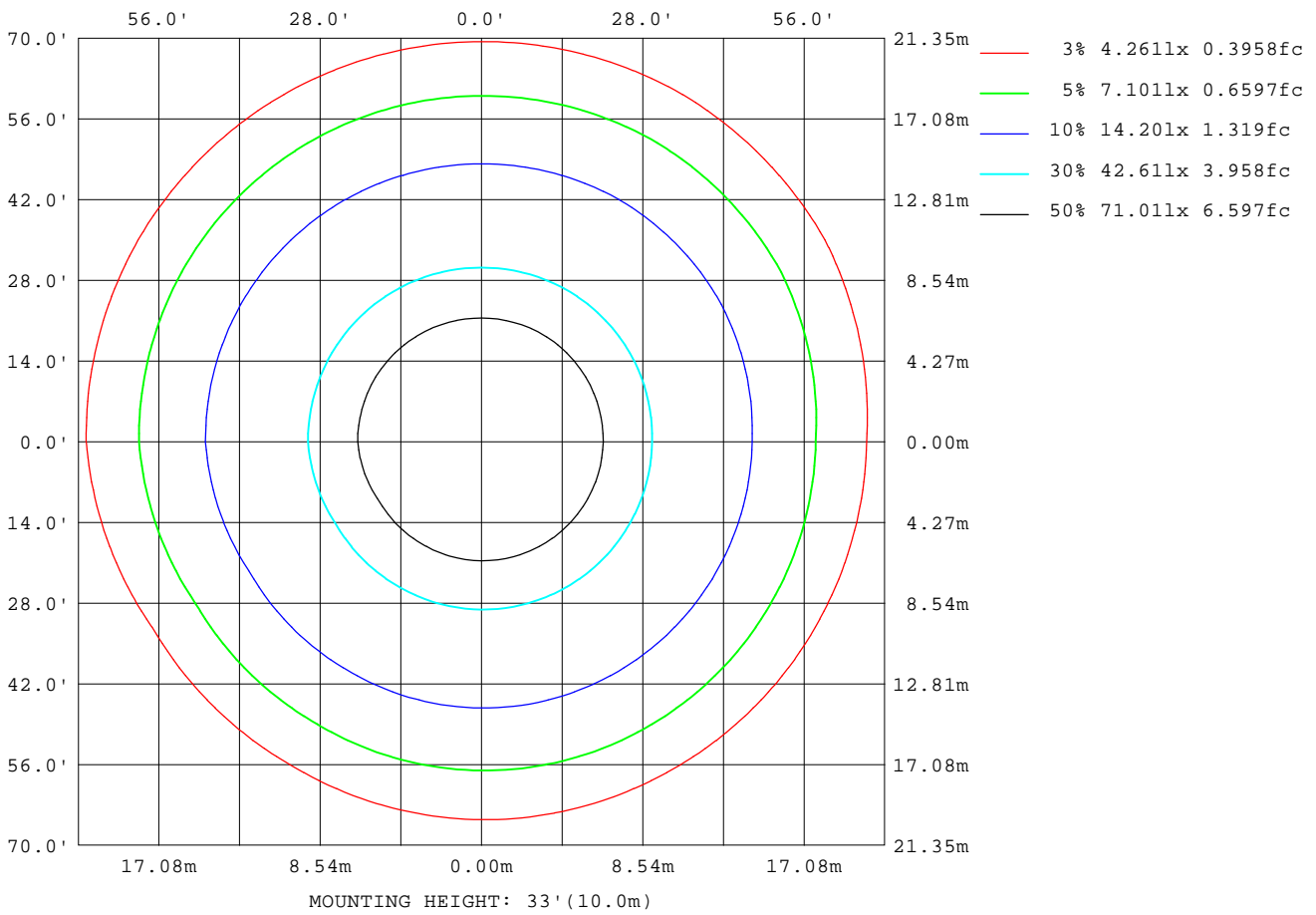
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017-09-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7100]
Remarks:

ISOLUX DIAGRAM

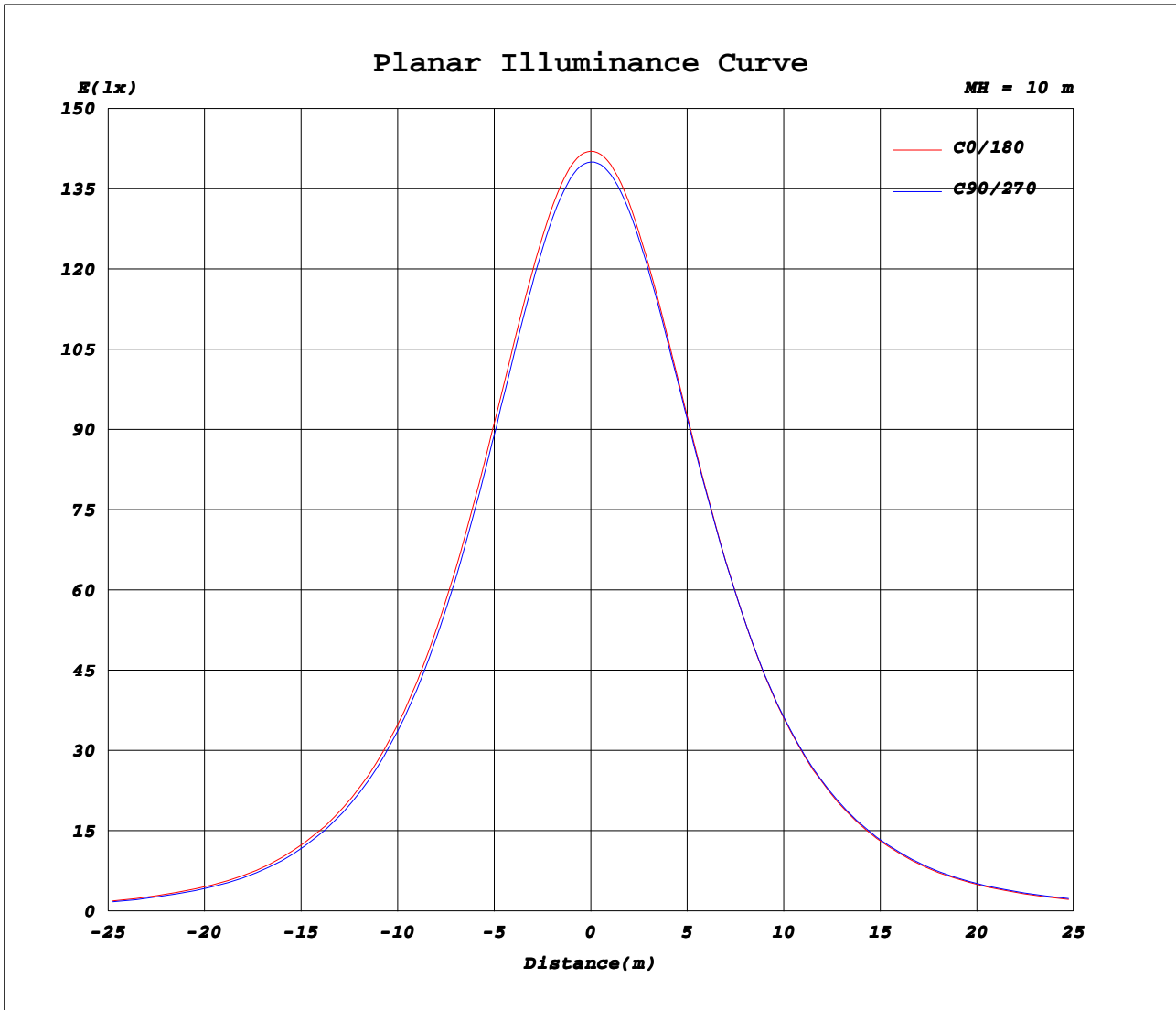
| | | |
|--|----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.:310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017-09-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7100]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017-09-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7100]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------|--|
| Test:U:220.1V I:1.385A P:303.2W PF:0.9880 Lamp Flux:41095.9x1 lm | | |
| NAME: GKU-300W | TYPE:LED | |
| DIM.: 460*460mm | SUR.: 310*310mm | |
| MFR.: GRANDOL INDUSTRY LTD | | |

Table--1

UNIT: x10cd

| C (DEG) \ γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0 | 1420 | 1413 | 1406 | 1400 | 1395 | 1389 | 1420 | 1413 | 1406 | 1400 | 1395 | 1389 | | | | | | | |
| 5 | 1416 | 1408 | 1401 | 1394 | 1388 | 1384 | 1419 | 1412 | 1406 | 1400 | 1394 | 1389 | | | | | | | |
| 10 | 1401 | 1391 | 1384 | 1378 | 1371 | 1367 | 1408 | 1402 | 1397 | 1391 | 1387 | 1380 | | | | | | | |
| 15 | 1375 | 1364 | 1357 | 1350 | 1342 | 1340 | 1384 | 1381 | 1376 | 1371 | 1368 | 1360 | | | | | | | |
| 20 | 1338 | 1326 | 1318 | 1311 | 1303 | 1302 | 1352 | 1349 | 1345 | 1341 | 1338 | 1330 | | | | | | | |
| 25 | 1291 | 1278 | 1270 | 1264 | 1254 | 1255 | 1309 | 1307 | 1304 | 1301 | 1298 | 1289 | | | | | | | |
| 30 | 1233 | 1219 | 1210 | 1202 | 1194 | 1195 | 1255 | 1255 | 1253 | 1250 | 1248 | 1238 | | | | | | | |
| 35 | 1163 | 1148 | 1139 | 1130 | 1123 | 1125 | 1189 | 1191 | 1190 | 1187 | 1186 | 1175 | | | | | | | |
| 40 | 1081 | 1066 | 1055 | 1047 | 1038 | 1043 | 1111 | 1115 | 1116 | 1113 | 1113 | 1102 | | | | | | | |
| 45 | 986 | 971 | 959 | 953 | 943 | 948 | 1022 | 1027 | 1029 | 1027 | 1029 | 1016 | | | | | | | |
| 50 | 880 | 864 | 852 | 845 | 835 | 842 | 921 | 927 | 929 | 928 | 933 | 918 | | | | | | | |
| 55 | 760 | 741 | 730 | 723 | 713 | 721 | 803 | 811 | 816 | 815 | 821 | 805 | | | | | | | |
| 60 | 609 | 593 | 584 | 576 | 564 | 575 | 664 | 675 | 680 | 681 | 689 | 675 | | | | | | | |
| 65 | 466 | 447 | 436 | 429 | 419 | 429 | 515 | 530 | 535 | 537 | 543 | 531 | | | | | | | |
| 70 | 309 | 292 | 282 | 276 | 267 | 277 | 359 | 375 | 381 | 385 | 393 | 379 | | | | | | | |
| 75 | 168 | 153 | 145 | 141 | 132 | 143 | 212 | 226 | 232 | 235 | 244 | 230 | | | | | | | |
| 80 | 59.3 | 50.7 | 46.4 | 43.8 | 38.8 | 44.3 | 90.9 | 100 | 106 | 107 | 114 | 105 | | | | | | | |
| 85 | 9.10 | 7.84 | 7.68 | 7.46 | 7.14 | 7.35 | 21.2 | 24.6 | 26.6 | 27.4 | 30.7 | 26.6 | | | | | | | |
| 90 | 6.98 | 7.12 | 7.10 | 7.15 | 7.15 | 7.06 | 11.3 | 11.1 | 11.1 | 11.0 | 10.9 | 10.9 | | | | | | | |
| 95 | 8.31 | 8.48 | 8.46 | 8.53 | 8.51 | 8.42 | 12.2 | 12.0 | 11.9 | 11.8 | 11.7 | 11.7 | | | | | | | |
| 100 | 9.79 | 9.98 | 9.95 | 10.0 | 10.0 | 9.91 | 13.4 | 13.1 | 13.0 | 12.9 | 12.8 | 12.8 | | | | | | | |
| 105 | 11.3 | 11.5 | 11.5 | 11.6 | 11.6 | 11.5 | 14.7 | 14.4 | 14.3 | 14.2 | 14.0 | 14.1 | | | | | | | |
| 110 | 13.0 | 13.1 | 13.1 | 13.2 | 13.2 | 13.1 | 16.1 | 15.8 | 15.7 | 15.5 | 15.4 | 15.5 | | | | | | | |
| 115 | 14.6 | 14.7 | 14.7 | 14.8 | 14.8 | 14.7 | 17.7 | 17.3 | 17.2 | 17.0 | 16.9 | 17.0 | | | | | | | |
| 120 | 16.1 | 16.3 | 16.2 | 16.3 | 16.3 | 16.2 | 19.2 | 18.8 | 18.7 | 18.5 | 18.4 | 18.4 | | | | | | | |
| 125 | 17.6 | 17.7 | 17.6 | 17.7 | 17.7 | 17.6 | 20.5 | 20.2 | 20.0 | 19.9 | 19.8 | 19.8 | | | | | | | |
| 130 | 18.9 | 19.0 | 18.9 | 19.0 | 19.0 | 18.9 | 21.7 | 21.4 | 21.2 | 21.1 | 21.0 | 21.0 | | | | | | | |
| 135 | 20.0 | 20.2 | 20.1 | 20.2 | 20.2 | 20.0 | 22.7 | 22.4 | 22.2 | 22.1 | 22.0 | 22.0 | | | | | | | |
| 140 | 21.2 | 21.4 | 21.3 | 21.3 | 21.3 | 21.2 | 23.6 | 23.4 | 23.2 | 23.0 | 22.9 | 22.9 | | | | | | | |
| 145 | 22.4 | 22.5 | 22.4 | 22.5 | 22.5 | 22.4 | 24.5 | 24.2 | 24.1 | 23.8 | 23.8 | 23.8 | | | | | | | |
| 150 | 23.7 | 23.7 | 23.7 | 23.7 | 23.6 | 23.6 | 25.4 | 25.1 | 25.0 | 24.8 | 24.7 | 24.7 | | | | | | | |
| 155 | 24.9 | 25.0 | 24.9 | 25.0 | 24.9 | 24.8 | 26.4 | 26.1 | 26.0 | 25.7 | 25.7 | 25.7 | | | | | | | |
| 160 | 26.3 | 26.4 | 26.3 | 26.4 | 26.3 | 26.2 | 27.5 | 27.2 | 27.1 | 26.8 | 26.8 | 26.7 | | | | | | | |
| 165 | 27.8 | 27.8 | 27.7 | 27.8 | 27.7 | 27.6 | 28.5 | 28.3 | 28.2 | 27.9 | 27.9 | 27.8 | | | | | | | |
| 170 | 29.1 | 29.1 | 29.0 | 29.0 | 28.9 | 28.8 | 29.5 | 29.2 | 29.2 | 28.9 | 28.9 | 28.8 | | | | | | | |
| 175 | 29.8 | 29.9 | 29.7 | 29.7 | 29.5 | 29.4 | 30.0 | 29.9 | 29.8 | 29.6 | 29.5 | 29.4 | | | | | | | |
| 180 | 30.2 | 30.2 | 30.0 | 30.0 | 29.8 | 29.8 | 30.3 | 30.1 | 30.1 | 29.9 | 29.9 | 29.7 | | | | | | | |

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γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7100]
Remarks: