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Nata

| | |
|-----------------------------------|---------------------|
| LumCAT: 1-0919-M | |
| Luminaire: 92.70.124.00 | |
| Report No: 210715-B006 | Voltage(V): 36.5100 |
| Test No: 210715-C006 | Current(A): 0.3050 |
| LampCAT: Fortimo LED SLM 1202 G7N | Power (W): 11.1350 |
| Lamp flux(lm): 1428.3 | PF: 0.0000 |
| Number of Lamps: 1 | Ballast type: DC |
| Length(mm): 570 | Width(mm): 45 |
| Phm Type: C | Height(mm): 20 |

Photometric Results

Lumens(lm): 1101.36
Efficiency(%): 77.11%
Lumens(lm)/Power(W): 98.91
Central intensity(cd): 5134.078
Maximum intensity(cd): 5134.078
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=26.4
 [C90/270]Total=26.4
Field angle(10%Imax): [C0/180]Total=43.9
 [C90/270]Total=43.9
Maximum s/h(1/2): C0_180=0.45 C90_270=0.45
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.11%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.587%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 5134.078 | 0.000 | 0 | .000% | .000% |
| 1.0 | 5116.500 | 4.905 | 4.905 | .343% | .445% |
| 2.0 | 5064.820 | 14.613 | 19.518 | 1.023% | 1.772% |
| 3.0 | 4971.445 | 24.003 | 43.521 | 1.681% | 3.952% |
| 4.0 | 4864.289 | 32.923 | 76.445 | 2.305% | 6.941% |
| 5.0 | 4743.773 | 41.333 | 117.778 | 2.894% | 10.694% |
| 6.0 | 4590.211 | 49.053 | 166.831 | 3.434% | 15.148% |
| 7.0 | 4381.523 | 55.687 | 222.518 | 3.899% | 20.204% |
| 8.0 | 4169.602 | 61.199 | 283.717 | 4.285% | 25.761% |
| 9.0 | 3903.891 | 65.431 | 349.148 | 4.581% | 31.702% |
| 10.0 | 3593.953 | 67.853 | 417.001 | 4.751% | 37.862% |
| 11.0 | 3302.438 | 68.909 | 485.91 | 4.825% | 44.119% |
| 12.0 | 2983.148 | 68.710 | 554.62 | 4.811% | 50.358% |
| 13.0 | 2630.109 | 66.615 | 621.236 | 4.664% | 56.406% |
| 14.0 | 2310.469 | 63.239 | 684.475 | 4.428% | 62.148% |
| 15.0 | 2014.734 | 59.378 | 743.853 | 4.157% | 67.540% |
| 16.0 | 1716.961 | 54.680 | 798.533 | 3.828% | 72.504% |
| 17.0 | 1458.886 | 49.456 | 847.989 | 3.463% | 76.995% |
| 18.0 | 1182.480 | 43.550 | 891.54 | 3.049% | 80.949% |
| 19.0 | 1018.596 | 38.294 | 929.834 | 2.681% | 84.426% |
| 20.0 | 833.252 | 33.894 | 963.728 | 2.373% | 87.504% |
| 21.0 | 658.041 | 28.636 | 992.364 | 2.005% | 90.104% |
| 22.0 | 507.649 | 23.425 | 1015.789 | 1.640% | 92.231% |
| 23.0 | 378.302 | 18.590 | 1034.378 | 1.302% | 93.918% |
| 24.0 | 280.680 | 14.408 | 1048.786 | 1.009% | 95.227% |
| 25.0 | 161.339 | 10.051 | 1058.837 | .704% | 96.139% |
| 26.0 | 89.803 | 5.928 | 1064.765 | .415% | 96.677% |
| 27.0 | 43.847 | 3.270 | 1068.035 | .229% | 96.974% |
| 28.0 | 22.542 | 1.681 | 1069.715 | .118% | 97.127% |
| 29.0 | 15.159 | 0.986 | 1070.702 | .069% | 97.217% |
| 30.0 | 12.016 | 0.734 | 1071.436 | .051% | 97.283% |
| 31.0 | 10.484 | 0.626 | 1072.062 | .044% | 97.340% |
| 32.0 | 9.605 | 0.576 | 1072.637 | .040% | 97.392% |
| 33.0 | 8.930 | 0.546 | 1073.183 | .038% | 97.442% |
| 34.0 | 8.297 | 0.521 | 1073.705 | .036% | 97.489% |
| 35.0 | 7.840 | 0.501 | 1074.206 | .035% | 97.535% |
| 36.0 | 7.446 | 0.487 | 1074.692 | .034% | 97.579% |
| 37.0 | 7.116 | 0.475 | 1075.167 | .033% | 97.622% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 6.841 | 0.466 | 1075.633 | .033% | 97.664% |
| 39.0 | 6.595 | 0.459 | 1076.092 | .032% | 97.706% |
| 40.0 | 6.398 | 0.453 | 1076.545 | .032% | 97.747% |
| 41.0 | 6.244 | 0.450 | 1076.995 | .032% | 97.788% |
| 42.0 | 6.103 | 0.449 | 1077.444 | .031% | 97.829% |
| 43.0 | 5.991 | 0.448 | 1077.892 | .031% | 97.869% |
| 44.0 | 5.885 | 0.448 | 1078.34 | .031% | 97.910% |
| 45.0 | 5.787 | 0.449 | 1078.789 | .031% | 97.951% |
| 46.0 | 5.702 | 0.449 | 1079.238 | .031% | 97.992% |
| 47.0 | 5.639 | 0.451 | 1079.689 | .032% | 98.033% |
| 48.0 | 5.590 | 0.454 | 1080.143 | .032% | 98.074% |
| 49.0 | 5.527 | 0.457 | 1080.599 | .032% | 98.115% |
| 50.0 | 5.477 | 0.459 | 1081.058 | .032% | 98.157% |
| 51.0 | 5.428 | 0.461 | 1081.52 | .032% | 98.199% |
| 52.0 | 5.393 | 0.464 | 1081.984 | .033% | 98.241% |
| 53.0 | 5.337 | 0.467 | 1082.451 | .033% | 98.283% |
| 54.0 | 5.309 | 0.469 | 1082.92 | .033% | 98.326% |
| 55.0 | 5.266 | 0.472 | 1083.392 | .033% | 98.369% |
| 56.0 | 5.245 | 0.475 | 1083.867 | .033% | 98.412% |
| 57.0 | 5.210 | 0.478 | 1084.345 | .033% | 98.455% |
| 58.0 | 5.189 | 0.481 | 1084.826 | .034% | 98.499% |
| 59.0 | 5.168 | 0.484 | 1085.31 | .034% | 98.543% |
| 60.0 | 5.126 | 0.486 | 1085.796 | .034% | 98.587% |
| 61.0 | 5.119 | 0.489 | 1086.285 | .034% | 98.631% |
| 62.0 | 5.105 | 0.493 | 1086.778 | .034% | 98.676% |
| 63.0 | 5.077 | 0.495 | 1087.273 | .035% | 98.721% |
| 64.0 | 5.055 | 0.497 | 1087.77 | .035% | 98.766% |
| 65.0 | 5.041 | 0.500 | 1088.27 | .035% | 98.812% |
| 66.0 | 5.041 | 0.503 | 1088.773 | .035% | 98.857% |
| 67.0 | 5.020 | 0.506 | 1089.279 | .035% | 98.903% |
| 68.0 | 4.985 | 0.507 | 1089.786 | .035% | 98.949% |
| 69.0 | 4.985 | 0.509 | 1090.294 | .036% | 98.995% |
| 70.0 | 4.978 | 0.512 | 1090.806 | .036% | 99.042% |
| 71.0 | 4.971 | 0.514 | 1091.32 | .036% | 99.089% |
| 72.0 | 4.957 | 0.516 | 1091.837 | .036% | 99.136% |
| 73.0 | 4.950 | 0.518 | 1092.355 | .036% | 99.183% |
| 74.0 | 4.943 | 0.520 | 1092.875 | .036% | 99.230% |
| 75.0 | 4.929 | 0.522 | 1093.396 | .037% | 99.277% |

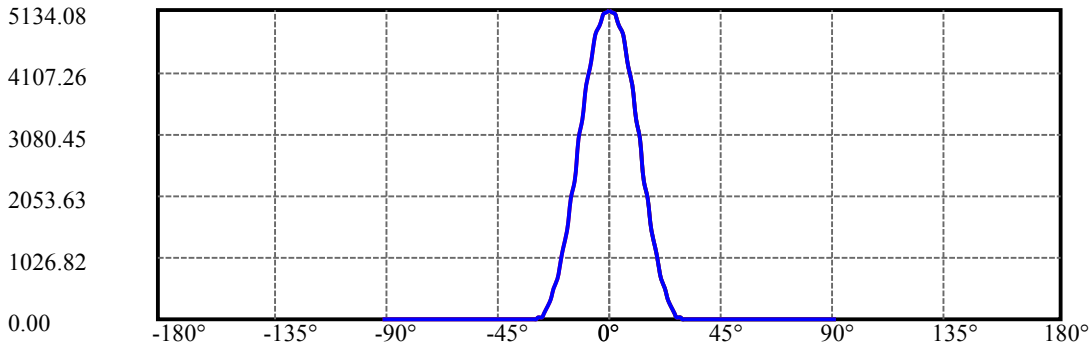
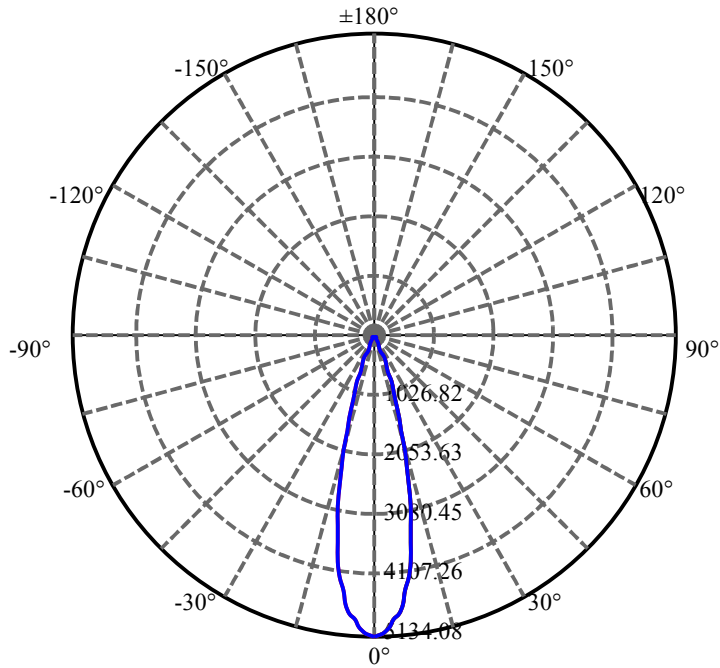
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 4.922 | 0.523 | 1093.919 | .037% | 99.325% |
| 77.0 | 4.922 | 0.525 | 1094.444 | .037% | 99.372% |
| 78.0 | 4.915 | 0.527 | 1094.971 | .037% | 99.420% |
| 79.0 | 4.908 | 0.528 | 1095.498 | .037% | 99.468% |
| 80.0 | 4.908 | 0.529 | 1096.028 | .037% | 99.516% |
| 81.0 | 4.915 | 0.531 | 1096.559 | .037% | 99.564% |
| 82.0 | 4.908 | 0.533 | 1097.091 | .037% | 99.613% |
| 83.0 | 4.901 | 0.533 | 1097.625 | .037% | 99.661% |
| 84.0 | 4.901 | 0.534 | 1098.159 | .037% | 99.710% |
| 85.0 | 4.873 | 0.533 | 1098.692 | .037% | 99.758% |
| 86.0 | 4.873 | 0.533 | 1099.225 | .037% | 99.806% |
| 87.0 | 4.859 | 0.533 | 1099.757 | .037% | 99.855% |
| 88.0 | 4.873 | 0.533 | 1100.29 | .037% | 99.903% |
| 89.0 | 4.866 | 0.534 | 1100.824 | .037% | 99.952% |
| 90.0 | 4.866 | 0.534 | 1101.358 | .037% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1071.44 | 75.01% | 97.28% |
| 0-40 | 1076.55 | 75.37% | 97.75% |
| 0-60 | 1085.80 | 76.02% | 98.59% |
| 0-90 | 1100.82 | 77.07% | 99.95% |
| 0-120 | 1100.82 | 77.07% | 99.95% |
| 0-180 | 1101.36 | 77.11% | 100.00% |
| 60-90 | 15.51 | 1.09% | 1.41% |
| 90-120 | 0.00 | 0.00% | 0.00% |
| 90-130 | 0.00 | 0.00% | 0.00% |
| 90-150 | 0.00 | 0.00% | 0.00% |
| 90-180 | 0.00 | 0.00% | 0.00% |
| 0-17.76 | 881.09 | 61.69% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 417.00 |
| 10-20 | 546.73 |
| 20-30 | 107.71 |
| 30-40 | 5.11 |
| 40-50 | 4.51 |
| 50-60 | 4.74 |
| 60-70 | 5.01 |
| 70-80 | 5.22 |
| 80-90 | 4.80 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |



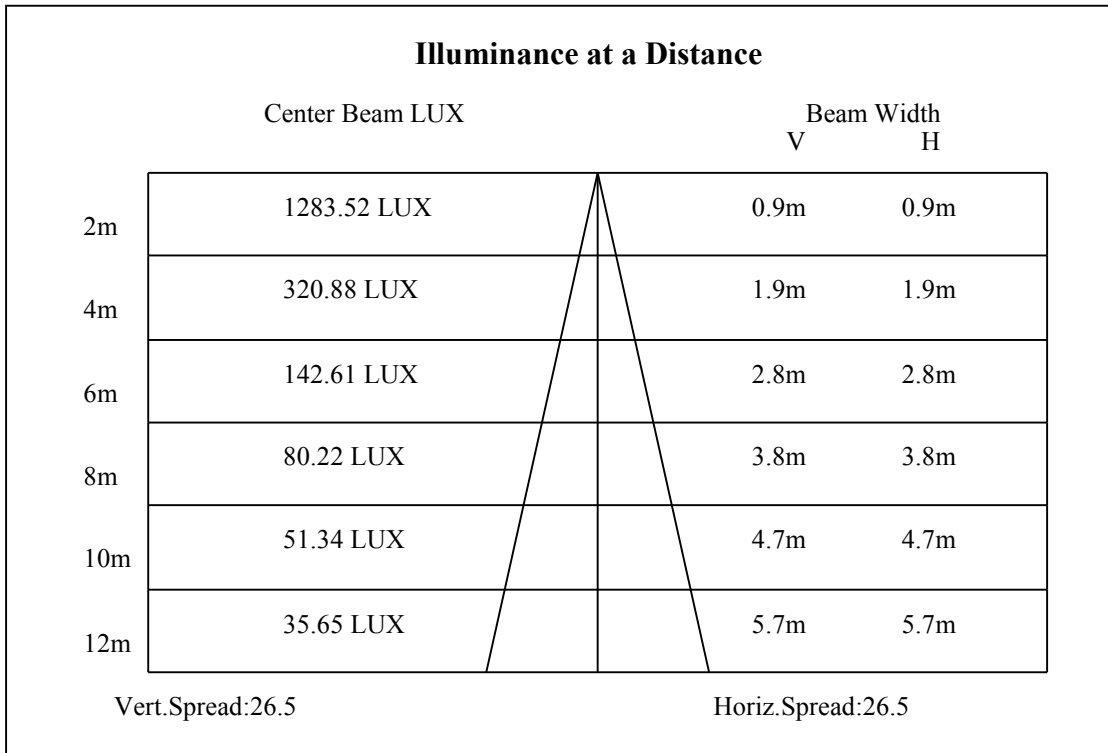
C0(Max): ———

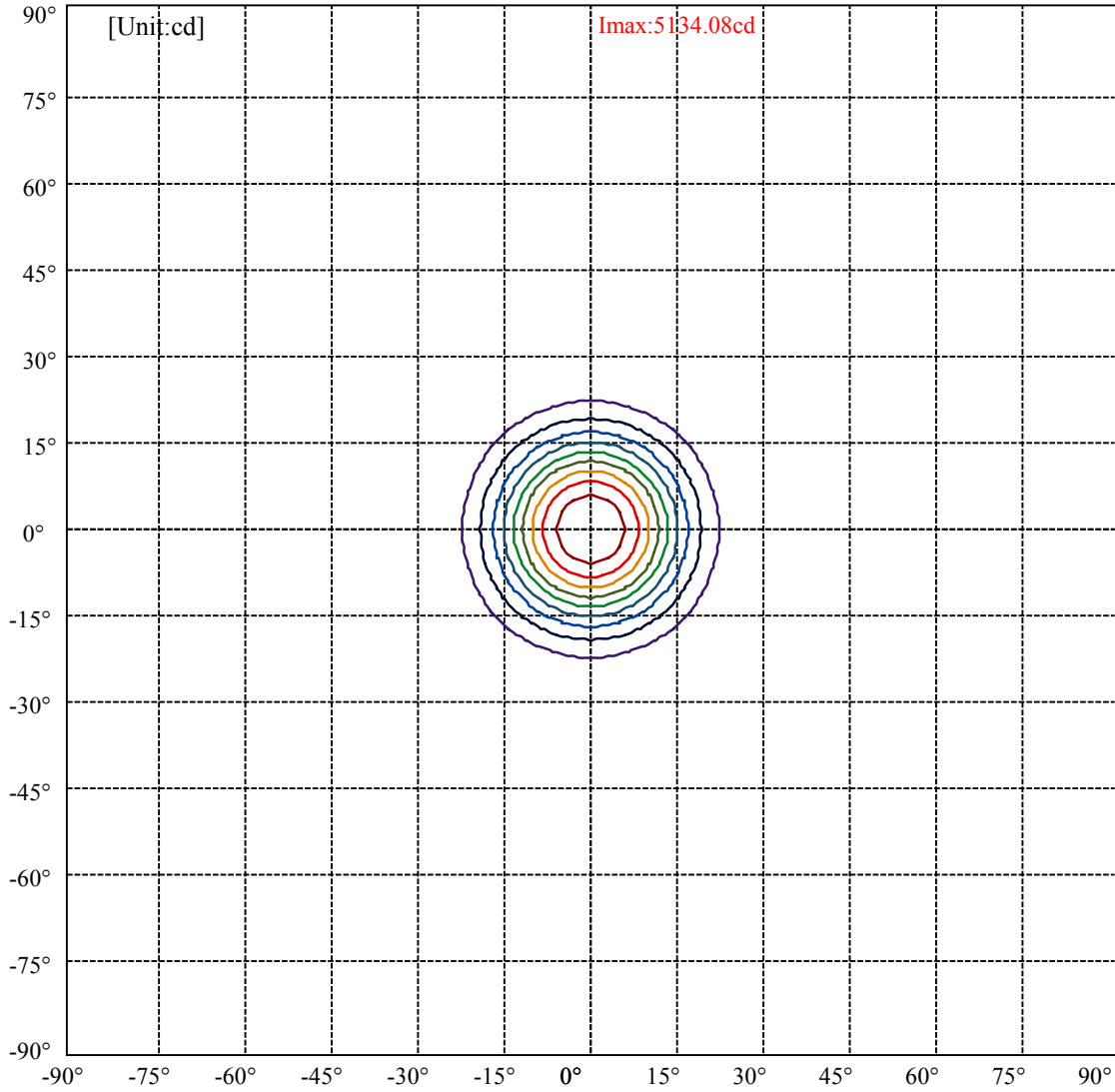
C0/C180: ———

C90/C270: ———

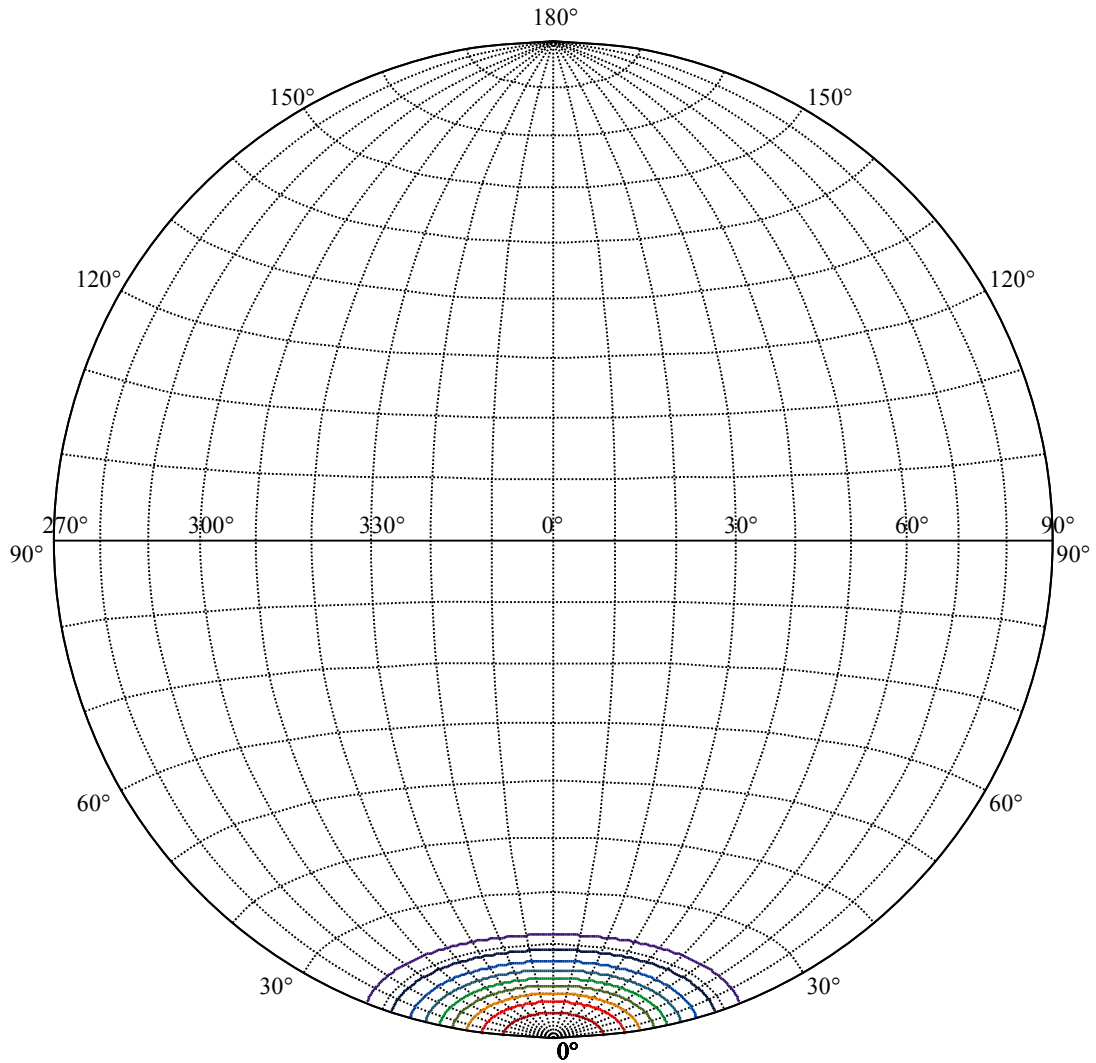
Field angle(10%Imax):C0/180Left:22.0 Right:22.0
:C90/270Left:22.0 Right:22.0

Beam Angle(50%Imax):C0/180Left:13.2 Right:13.2
:C90/270Left:13.2 Right:13.2





| | |
|-------------------|---|
| (10%Imax) 513.408 | — |
| (20%Imax) 1026.82 | — |
| (30%Imax) 1540.22 | — |
| (40%Imax) 2053.63 | — |
| (50%Imax) 2567.04 | — |
| (60%Imax) 3080.45 | — |
| (70%Imax) 3593.85 | — |
| (80%Imax) 4107.26 | — |
| (90%Imax) 4620.67 | — |



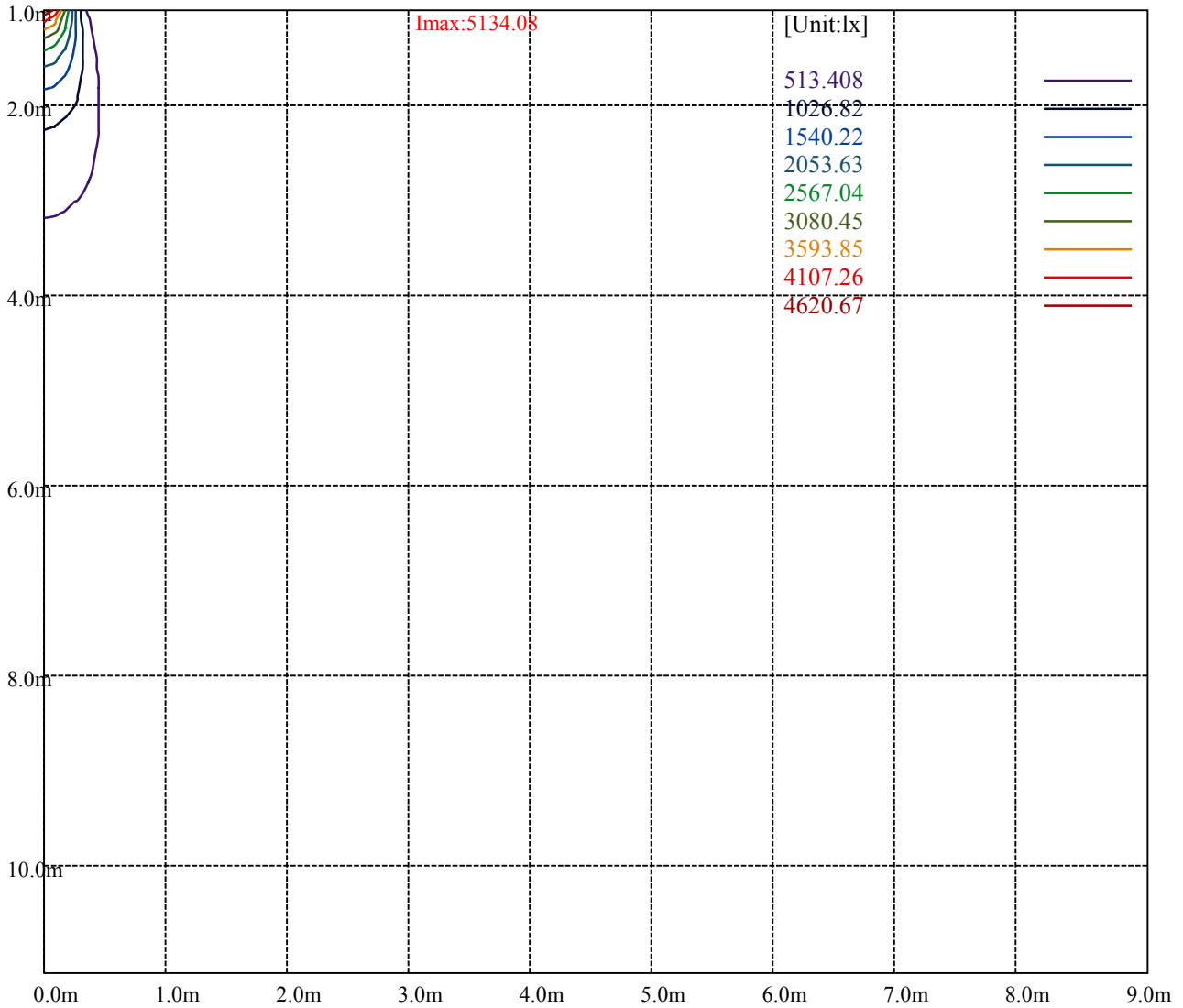
House

[Unit:cd]

Road

Imax:5134.08

| | |
|-------------------|---|
| (10%Imax) 513.408 | — |
| (20%Imax) 1026.82 | — |
| (30%Imax) 1540.22 | — |
| (40%Imax) 2053.63 | — |
| (50%Imax) 2567.04 | — |
| (60%Imax) 3080.45 | — |
| (70%Imax) 3593.85 | — |
| (80%Imax) 4107.26 | — |
| (90%Imax) 4620.67 | — |



Luminance Table

| | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
| C0 | 221 | 217 | 219 | 226 | 238 | 255 | 279 | 313 | 358 |
| C45 | 238 | 237 | 241 | 252 | 269 | 294 | 328 | 377 | 447 |
| C90 | 308 | 319 | 341 | 377 | 433 | 518 | 656 | 919 | 1556 |

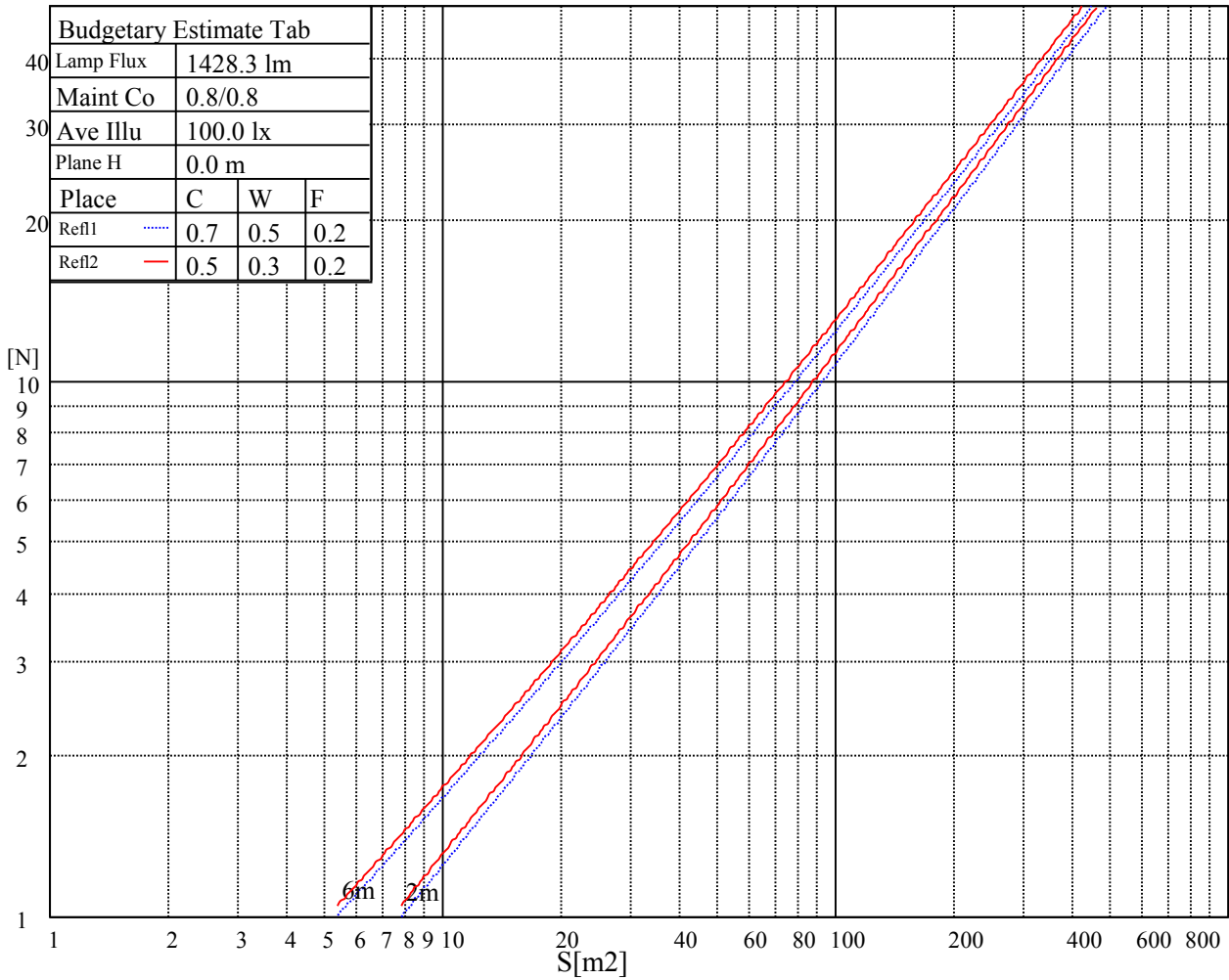
| | | | | | | | | |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
| 465 | 465 | 465 | 742 | 742 | 742 | 2180 | 2180 | 2180 |

Glare Table

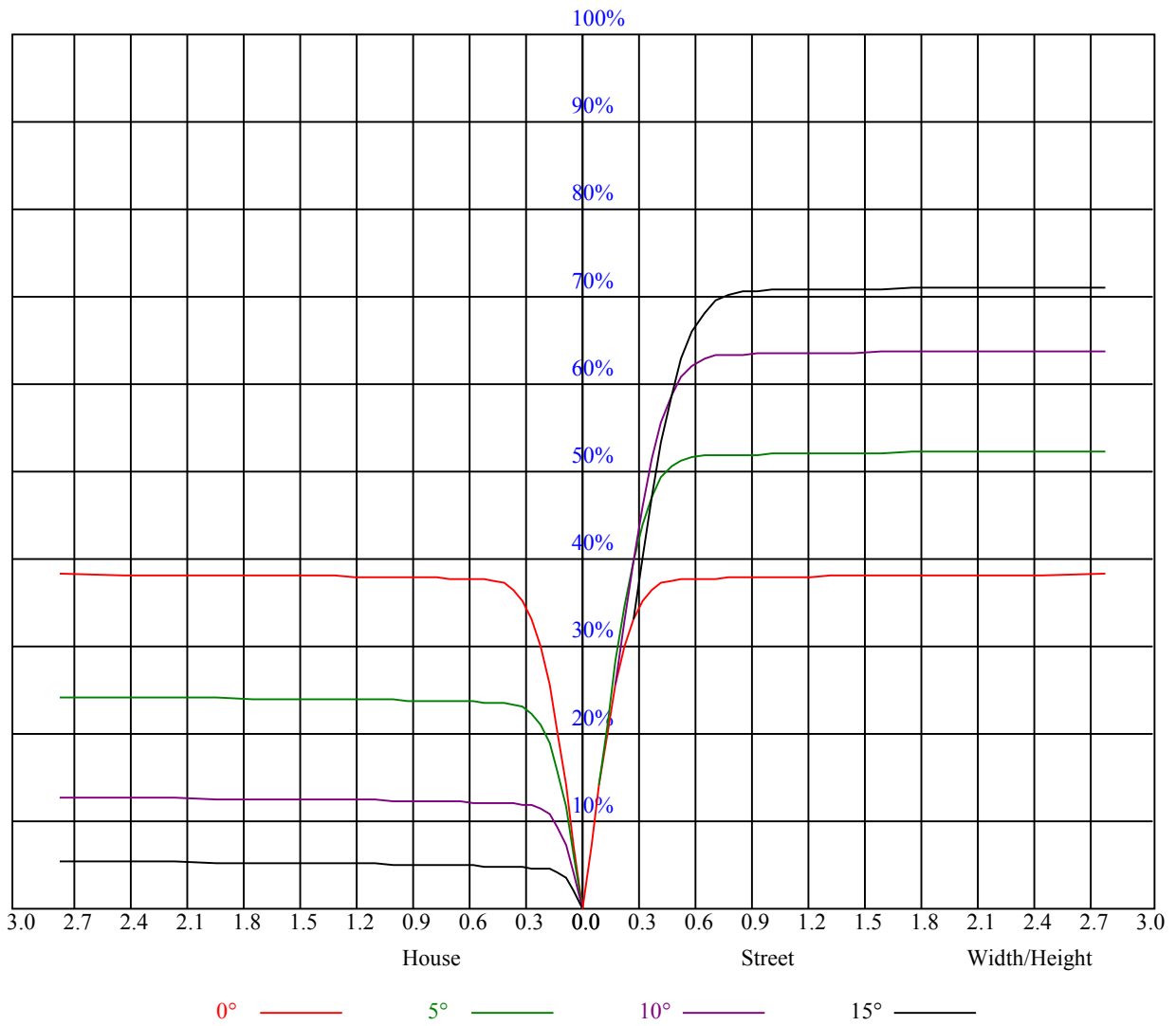
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |

Luminance Limiting Curve





| RHOCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 |
|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | COEFFICIENTS OF UTILIZATION RHOFC=20 CU | | | | | | | | | | | | | | | |
| 0 | 0.92 | 0.92 | 0.92 | 0.90 | 0.90 | 0.90 | 0.86 | 0.86 | 0.86 | 0.82 | 0.82 | 0.82 | 0.79 | 0.79 | 0.79 | 0.77 |
| 1 | 0.87 | 0.85 | 0.84 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.79 | 0.78 | 0.77 | 0.76 | 0.76 | 0.74 |
| 2 | 0.83 | 0.81 | 0.79 | 0.82 | 0.80 | 0.78 | 0.79 | 0.78 | 0.76 | 0.77 | 0.76 | 0.75 | 0.75 | 0.74 | 0.73 | 0.72 |
| 3 | 0.80 | 0.77 | 0.75 | 0.79 | 0.76 | 0.74 | 0.77 | 0.75 | 0.73 | 0.75 | 0.73 | 0.72 | 0.73 | 0.72 | 0.71 | 0.70 |
| 4 | 0.77 | 0.74 | 0.72 | 0.76 | 0.73 | 0.71 | 0.75 | 0.72 | 0.70 | 0.73 | 0.71 | 0.70 | 0.72 | 0.70 | 0.69 | 0.68 |
| 5 | 0.74 | 0.71 | 0.69 | 0.74 | 0.71 | 0.69 | 0.72 | 0.70 | 0.68 | 0.71 | 0.69 | 0.68 | 0.70 | 0.68 | 0.67 | 0.66 |
| 6 | 0.72 | 0.69 | 0.67 | 0.71 | 0.69 | 0.67 | 0.70 | 0.68 | 0.66 | 0.70 | 0.67 | 0.66 | 0.69 | 0.67 | 0.65 | 0.65 |
| 7 | 0.70 | 0.67 | 0.65 | 0.69 | 0.67 | 0.65 | 0.69 | 0.66 | 0.64 | 0.68 | 0.66 | 0.64 | 0.67 | 0.65 | 0.64 | 0.63 |
| 8 | 0.68 | 0.65 | 0.63 | 0.68 | 0.65 | 0.63 | 0.67 | 0.64 | 0.63 | 0.66 | 0.64 | 0.62 | 0.66 | 0.64 | 0.62 | 0.61 |
| 9 | 0.66 | 0.63 | 0.61 | 0.66 | 0.63 | 0.61 | 0.65 | 0.63 | 0.61 | 0.65 | 0.63 | 0.61 | 0.64 | 0.62 | 0.61 | 0.60 |
| 10 | 0.65 | 0.62 | 0.60 | 0.64 | 0.62 | 0.60 | 0.64 | 0.61 | 0.60 | 0.63 | 0.61 | 0.59 | 0.63 | 0.61 | 0.59 | 0.59 |



Intensity data(cd)

| | | | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| C/γ(°) | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 |
| 0.0 | 5131.13 | 5132.25 | 5080.50 | 4973.06 | 4851.00 | 4716.56 | 4547.81 | 4366.69 | 4160.81 |
| 45.0 | 5141.25 | 5130.56 | 5064.19 | 4961.25 | 4834.13 | 4714.31 | 4566.94 | 4374.00 | 4171.50 |
| 90.0 | 5127.75 | 5107.50 | 5057.44 | 4961.25 | 4883.63 | 4778.44 | 4618.69 | 4407.19 | 4194.00 |
| 135.0 | 5136.19 | 5118.19 | 5087.25 | 5018.06 | 4950.56 | 4859.44 | 4740.75 | 4590.00 | 4397.63 |
| 180.0 | 5131.13 | 5104.69 | 5059.13 | 4956.75 | 4850.44 | 4744.13 | 4615.31 | 4398.75 | 4190.06 |
| 225.0 | 5141.25 | 5118.19 | 5069.25 | 4966.88 | 4869.00 | 4764.38 | 4602.38 | 4392.56 | 4179.94 |
| 270.0 | 5127.75 | 5122.69 | 5073.75 | 5016.94 | 4892.63 | 4741.88 | 4593.38 | 4347.56 | 4133.25 |
| 315.0 | 5136.19 | 5097.94 | 5027.06 | 4917.38 | 4782.94 | 4631.06 | 4436.44 | 4175.44 | 3929.63 |
| 360.0 | 5131.13 | 5132.25 | 5080.50 | 4973.06 | 4851.00 | 4716.56 | 4547.81 | 4366.69 | 4160.81 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 3840.75 | 3562.31 | 3265.31 | 2913.19 | 2559.94 | 2260.13 | 1940.06 | 1649.25 | 1413.00 |
| 45.0 | 3900.38 | 3585.38 | 3284.44 | 2971.13 | 2585.81 | 2283.19 | 2000.25 | 1680.19 | 1437.75 |
| 90.0 | 3930.19 | 3634.31 | 3348.56 | 3013.88 | 2707.31 | 2369.81 | 2053.13 | 1792.13 | 1548.00 |
| 135.0 | 4130.44 | 3885.19 | 3618.00 | 3327.75 | 2952.00 | 2643.75 | 2347.88 | 2003.63 | 1734.75 |
| 180.0 | 3956.06 | 3629.25 | 3352.50 | 3058.88 | 2713.50 | 2372.06 | 2088.00 | 1784.25 | 1538.44 |
| 225.0 | 3918.38 | 3617.44 | 3328.31 | 2986.31 | 2670.75 | 2328.19 | 2010.38 | 1743.19 | 1495.13 |
| 270.0 | 3893.06 | 3556.69 | 3258.00 | 2947.50 | 2556.00 | 2249.44 | 1964.25 | 1636.88 | 1396.69 |
| 315.0 | 3661.88 | 3281.06 | 2964.38 | 2646.56 | 2295.56 | 1977.19 | 1713.94 | 1446.19 | 1107.34 |
| 360.0 | 3840.75 | 3562.31 | 3265.31 | 2913.19 | 2559.94 | 2260.13 | 1940.06 | 1649.25 | 1413.00 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1180.69 | 995.63 | 807.19 | 631.69 | 493.31 | 361.13 | 302.06 | 146.08 | 83.36 |
| 45.0 | 1236.94 | 1010.25 | 808.88 | 653.06 | 507.38 | 379.69 | 296.44 | 162.23 | 86.23 |
| 90.0 | 1112.68 | 1063.41 | 882.56 | 695.31 | 537.30 | 408.04 | 296.83 | 174.15 | 103.16 |
| 135.0 | 1501.31 | 1247.63 | 1016.44 | 836.44 | 669.38 | 513.00 | 377.44 | 285.19 | 160.03 |
| 180.0 | 1118.70 | 1020.77 | 861.08 | 676.46 | 511.54 | 387.79 | 271.52 | 156.94 | 92.59 |
| 225.0 | 1113.98 | 1018.86 | 841.28 | 641.25 | 498.43 | 378.28 | 249.19 | 151.03 | 82.52 |
| 270.0 | 1185.19 | 971.44 | 784.69 | 623.25 | 476.44 | 337.50 | 286.31 | 136.46 | 71.16 |
| 315.0 | 1010.36 | 820.80 | 663.92 | 506.87 | 367.43 | 261.00 | 165.66 | 78.64 | 39.38 |
| 360.0 | 1180.69 | 995.63 | 807.19 | 631.69 | 493.31 | 361.13 | 302.06 | 146.08 | 83.36 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 36.90 | 19.13 | 14.29 | 12.32 | 10.74 | 9.90 | 9.28 | 8.44 | 7.99 |
| 45.0 | 39.38 | 20.76 | 13.61 | 11.36 | 9.96 | 9.23 | 8.61 | 8.10 | 7.65 |
| 90.0 | 51.19 | 24.53 | 14.91 | 11.53 | 10.13 | 9.23 | 8.66 | 8.10 | 7.65 |
| 135.0 | 80.10 | 37.69 | 22.16 | 14.06 | 10.97 | 9.96 | 9.17 | 8.44 | 7.99 |
| 180.0 | 48.54 | 23.91 | 15.02 | 11.53 | 10.18 | 9.23 | 8.61 | 8.04 | 7.59 |
| 225.0 | 40.50 | 21.88 | 15.13 | 12.15 | 11.03 | 10.07 | 9.23 | 8.61 | 8.10 |
| 270.0 | 33.13 | 18.11 | 13.84 | 12.04 | 10.74 | 9.96 | 9.23 | 8.49 | 8.04 |
| 315.0 | 21.04 | 14.34 | 12.32 | 11.14 | 10.13 | 9.28 | 8.66 | 8.16 | 7.71 |
| 360.0 | 36.90 | 19.13 | 14.29 | 12.32 | 10.74 | 9.90 | 9.28 | 8.44 | 7.99 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 7.59 | 7.20 | 6.86 | 6.64 | 6.41 | 6.24 | 6.08 | 5.96 | 5.85 |
| 45.0 | 7.37 | 7.09 | 6.81 | 6.58 | 6.41 | 6.30 | 6.13 | 6.02 | 5.91 |
| 90.0 | 7.26 | 6.98 | 6.75 | 6.47 | 6.30 | 6.19 | 6.02 | 5.96 | 5.85 |
| 135.0 | 7.54 | 7.14 | 6.86 | 6.64 | 6.47 | 6.24 | 6.13 | 5.96 | 5.85 |
| 180.0 | 7.20 | 6.92 | 6.69 | 6.41 | 6.24 | 6.08 | 5.96 | 5.85 | 5.79 |
| 225.0 | 7.65 | 7.31 | 7.03 | 6.75 | 6.53 | 6.36 | 6.19 | 6.08 | 5.96 |
| 270.0 | 7.65 | 7.31 | 6.98 | 6.75 | 6.53 | 6.36 | 6.24 | 6.13 | 6.02 |
| 315.0 | 7.31 | 6.98 | 6.75 | 6.53 | 6.30 | 6.19 | 6.08 | 5.96 | 5.85 |
| 360.0 | 7.59 | 7.20 | 6.86 | 6.64 | 6.41 | 6.24 | 6.08 | 5.96 | 5.85 |

Intensity data(cd)

| | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------|------|
| C/γ(°) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
| 0.0 | 5.74 | 5.63 | 5.63 | 5.51 | 5.46 | 5.40 | 5.40 | 5.29 | 5.23 |
| 45.0 | 5.79 | 5.74 | 5.68 | 5.68 | 5.57 | 5.51 | 5.46 | 5.46 | 5.40 |
| 90.0 | 5.74 | 5.68 | 5.57 | 5.57 | 5.51 | 5.46 | 5.40 | 5.40 | 5.34 |
| 135.0 | 5.79 | 5.68 | 5.63 | 5.57 | 5.51 | 5.46 | 5.40 | 5.34 | 5.29 |
| 180.0 | 5.68 | 5.63 | 5.51 | 5.46 | 5.40 | 5.34 | 5.34 | 5.29 | 5.23 |
| 225.0 | 5.91 | 5.79 | 5.74 | 5.68 | 5.63 | 5.57 | 5.51 | 5.51 | 5.46 |
| 270.0 | 5.91 | 5.79 | 5.74 | 5.68 | 5.63 | 5.63 | 5.51 | 5.51 | 5.40 |
| 315.0 | 5.74 | 5.68 | 5.63 | 5.57 | 5.51 | 5.46 | 5.40 | 5.34 | 5.34 |
| 360.0 | 5.74 | 5.63 | 5.63 | 5.51 | 5.46 | 5.40 | 5.40 | 5.29 | 5.23 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 5.23 | 5.18 | 5.18 | 5.12 | 5.12 | 5.06 | 5.01 | 5.01 | 5.01 |
| 45.0 | 5.40 | 5.34 | 5.29 | 5.29 | 5.29 | 5.23 | 5.23 | 5.18 | 5.18 |
| 90.0 | 5.29 | 5.29 | 5.23 | 5.23 | 5.18 | 5.18 | 5.12 | 5.18 | 5.18 |
| 135.0 | 5.29 | 5.23 | 5.23 | 5.18 | 5.18 | 5.18 | 5.12 | 5.12 | 5.06 |
| 180.0 | 5.18 | 5.18 | 5.12 | 5.12 | 5.06 | 5.06 | 5.06 | 5.01 | 5.01 |
| 225.0 | 5.40 | 5.34 | 5.34 | 5.29 | 5.29 | 5.23 | 5.23 | 5.23 | 5.18 |
| 270.0 | 5.40 | 5.34 | 5.34 | 5.29 | 5.29 | 5.29 | 5.18 | 5.18 | 5.18 |
| 315.0 | 5.29 | 5.23 | 5.23 | 5.18 | 5.12 | 5.12 | 5.06 | 5.06 | 5.06 |
| 360.0 | 5.23 | 5.18 | 5.18 | 5.12 | 5.12 | 5.06 | 5.01 | 5.01 | 5.01 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 4.95 | 4.95 | 4.95 | 4.95 | 4.89 | 4.89 | 4.89 | 4.89 | 4.89 |
| 45.0 | 5.18 | 5.12 | 5.12 | 5.12 | 5.12 | 5.06 | 5.06 | 5.06 | 5.06 |
| 90.0 | 5.12 | 5.12 | 5.06 | 5.06 | 5.06 | 5.01 | 5.01 | 5.01 | 5.01 |
| 135.0 | 5.01 | 5.06 | 5.01 | 5.01 | 5.01 | 4.95 | 4.95 | 4.95 | 4.95 |
| 180.0 | 4.95 | 4.95 | 4.95 | 4.95 | 4.89 | 4.89 | 4.89 | 4.84 | 4.84 |
| 225.0 | 5.18 | 5.12 | 5.12 | 5.12 | 5.12 | 5.06 | 5.06 | 5.06 | 5.06 |
| 270.0 | 5.18 | 5.12 | 5.12 | 5.12 | 5.12 | 5.06 | 5.06 | 5.06 | 5.01 |
| 315.0 | 5.06 | 5.01 | 5.01 | 5.01 | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 |
| 360.0 | 4.95 | 4.95 | 4.95 | 4.95 | 4.89 | 4.89 | 4.89 | 4.89 | 4.89 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 4.84 | 4.84 | 4.84 | 4.78 | 4.84 | 4.84 | 4.84 | 4.84 | 4.78 |
| 45.0 | 5.06 | 5.06 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 |
| 90.0 | 5.01 | 5.01 | 5.01 | 5.01 | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 |
| 135.0 | 4.95 | 4.95 | 4.95 | 4.89 | 4.89 | 4.89 | 4.89 | 4.89 | 4.89 |
| 180.0 | 4.89 | 4.84 | 4.84 | 4.84 | 4.78 | 4.84 | 4.78 | 4.78 | 4.78 |
| 225.0 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 |
| 270.0 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.95 | 5.01 |
| 315.0 | 4.89 | 4.89 | 4.89 | 4.89 | 4.89 | 4.84 | 4.84 | 4.84 | 4.84 |
| 360.0 | 4.84 | 4.84 | 4.84 | 4.78 | 4.84 | 4.84 | 4.84 | 4.84 | 4.78 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 4.78 | 4.84 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 |
| 45.0 | 5.01 | 5.01 | 4.95 | 5.01 | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 |
| 90.0 | 4.95 | 4.95 | 4.95 | 4.95 | 4.89 | 4.95 | 4.89 | 4.95 | 4.89 |
| 135.0 | 4.89 | 4.89 | 4.89 | 4.89 | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 |
| 180.0 | 4.78 | 4.78 | 4.78 | 4.78 | 4.73 | 4.73 | 4.73 | 4.78 | 4.78 |
| 225.0 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.95 | 4.95 | 4.95 | 4.95 |
| 270.0 | 5.01 | 4.95 | 5.01 | 4.95 | 4.95 | 4.95 | 4.89 | 4.89 | 4.89 |
| 315.0 | 4.89 | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 |
| 360.0 | 4.78 | 4.84 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 | 4.78 |

Intensity data(cd)

| | |
|----------------------------|------|
| C/ γ ($^{\circ}$) | 90.0 |
| 0.0 | 4.78 |
| 45.0 | 4.95 |
| 90.0 | 4.89 |
| 135.0 | 4.84 |
| 180.0 | 4.73 |
| 225.0 | 5.01 |
| 270.0 | 4.89 |
| 315.0 | 4.84 |
| 360.0 | 4.78 |