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Nata

| | |
|----------------------------|---------------------|
| LumCAT: 2-2181-M | |
| Luminaire: BJB 47.360.1040 | |
| Report No: NATA0100 | Voltage(V): 35.6700 |
| Test No: GC2020021313 | Current(A): 0.5970 |
| LampCAT: CREE CXA1830 | Power (W): 21.3000 |
| Lamp flux(lm): 3088.0 | PF: 0.0000 |
| Number of Lamps: 1 | Ballast type: DC |
| Length(mm): 0 | Width(mm): 0 |
| Phm Type: C | Height(mm): 0 |

Photometric Results

Lumens(lm): 2430.90
Efficiency(%): 78.72%
Lumens(lm)/Power(W): 114.13
Central intensity(cd): 10940.060
Maximum intensity(cd): 10940.060
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=25.0
 [C90/270]Total=25.0
Field angle(10%Imax): [C0/180]Total=47.2
 [C90/270]Total=47.2
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
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(%): 78.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.276%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 10940.063 | 0.000 | 0 | .000% | .000% |
| 1.0 | 10901.109 | 10.451 | 10.451 | .338% | .430% |
| 2.0 | 10741.711 | 31.064 | 41.514 | 1.006% | 1.708% |
| 3.0 | 10522.336 | 50.857 | 92.371 | 1.647% | 3.800% |
| 4.0 | 10248.820 | 69.528 | 161.899 | 2.252% | 6.660% |
| 5.0 | 9833.906 | 86.395 | 248.294 | 2.798% | 10.214% |
| 6.0 | 9378.984 | 100.969 | 349.262 | 3.270% | 14.368% |
| 7.0 | 8887.359 | 113.379 | 462.641 | 3.672% | 19.032% |
| 8.0 | 8280.844 | 122.870 | 585.511 | 3.979% | 24.086% |
| 9.0 | 7685.438 | 129.398 | 714.909 | 4.190% | 29.409% |
| 10.0 | 7051.359 | 133.363 | 848.272 | 4.319% | 34.895% |
| 11.0 | 6375.305 | 134.160 | 982.431 | 4.345% | 40.414% |
| 12.0 | 5789.180 | 132.975 | 1115.407 | 4.306% | 45.884% |
| 13.0 | 5165.086 | 130.000 | 1245.406 | 4.210% | 51.232% |
| 14.0 | 4563.211 | 124.521 | 1369.928 | 4.032% | 56.355% |
| 15.0 | 4073.555 | 118.569 | 1488.497 | 3.840% | 61.232% |
| 16.0 | 3615.609 | 112.668 | 1601.165 | 3.649% | 65.867% |
| 17.0 | 3113.578 | 104.792 | 1705.956 | 3.394% | 70.178% |
| 18.0 | 2747.461 | 96.636 | 1802.592 | 3.129% | 74.153% |
| 19.0 | 2415.938 | 89.833 | 1892.425 | 2.909% | 77.849% |
| 20.0 | 2066.344 | 82.038 | 1974.463 | 2.657% | 81.223% |
| 21.0 | 1774.477 | 73.752 | 2048.214 | 2.388% | 84.257% |
| 22.0 | 1507.894 | 65.961 | 2114.175 | 2.136% | 86.971% |
| 23.0 | 1242.696 | 57.715 | 2171.89 | 1.869% | 89.345% |
| 24.0 | 994.226 | 48.907 | 2220.797 | 1.584% | 91.357% |
| 25.0 | 787.402 | 40.510 | 2261.307 | 1.312% | 93.023% |
| 26.0 | 580.310 | 32.285 | 2293.592 | 1.045% | 94.351% |
| 27.0 | 403.910 | 24.079 | 2317.671 | .780% | 95.342% |
| 28.0 | 273.438 | 17.149 | 2334.82 | .555% | 96.047% |
| 29.0 | 141.638 | 10.860 | 2345.68 | .352% | 96.494% |
| 30.0 | 61.221 | 5.477 | 2351.157 | .177% | 96.720% |
| 31.0 | 28.758 | 2.504 | 2353.661 | .081% | 96.823% |
| 32.0 | 20.018 | 1.397 | 2355.058 | .045% | 96.880% |
| 33.0 | 18.513 | 1.135 | 2356.194 | .037% | 96.927% |
| 34.0 | 17.698 | 1.096 | 2357.289 | .035% | 96.972% |
| 35.0 | 16.973 | 1.077 | 2358.366 | .035% | 97.016% |
| 36.0 | 16.446 | 1.064 | 2359.43 | .034% | 97.060% |
| 37.0 | 16.038 | 1.059 | 2360.49 | .034% | 97.103% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 15.694 | 1.059 | 2361.549 | .034% | 97.147% |
| 39.0 | 15.398 | 1.061 | 2362.61 | .034% | 97.191% |
| 40.0 | 15.195 | 1.067 | 2363.677 | .035% | 97.235% |
| 41.0 | 15.033 | 1.076 | 2364.754 | .035% | 97.279% |
| 42.0 | 14.843 | 1.085 | 2365.839 | .035% | 97.324% |
| 43.0 | 14.738 | 1.096 | 2366.935 | .035% | 97.369% |
| 44.0 | 14.660 | 1.110 | 2368.044 | .036% | 97.414% |
| 45.0 | 14.597 | 1.124 | 2369.169 | .036% | 97.460% |
| 46.0 | 14.597 | 1.142 | 2370.31 | .037% | 97.507% |
| 47.0 | 14.632 | 1.163 | 2371.473 | .038% | 97.555% |
| 48.0 | 14.681 | 1.185 | 2372.658 | .038% | 97.604% |
| 49.0 | 14.773 | 1.210 | 2373.867 | .039% | 97.654% |
| 50.0 | 14.906 | 1.237 | 2375.105 | .040% | 97.705% |
| 51.0 | 15.040 | 1.267 | 2376.372 | .041% | 97.757% |
| 52.0 | 15.152 | 1.296 | 2377.667 | .042% | 97.810% |
| 53.0 | 15.251 | 1.323 | 2378.99 | .043% | 97.864% |
| 54.0 | 15.377 | 1.350 | 2380.34 | .044% | 97.920% |
| 55.0 | 15.455 | 1.376 | 2381.716 | .045% | 97.977% |
| 56.0 | 15.560 | 1.401 | 2383.118 | .045% | 98.034% |
| 57.0 | 15.694 | 1.429 | 2384.547 | .046% | 98.093% |
| 58.0 | 15.813 | 1.457 | 2386.004 | .047% | 98.153% |
| 59.0 | 15.961 | 1.485 | 2387.489 | .048% | 98.214% |
| 60.0 | 16.137 | 1.516 | 2389.006 | .049% | 98.277% |
| 61.0 | 16.341 | 1.550 | 2390.555 | .050% | 98.340% |
| 62.0 | 16.516 | 1.583 | 2392.139 | .051% | 98.405% |
| 63.0 | 16.685 | 1.615 | 2393.753 | .052% | 98.472% |
| 64.0 | 16.819 | 1.644 | 2395.397 | .053% | 98.539% |
| 65.0 | 16.875 | 1.667 | 2397.065 | .054% | 98.608% |
| 66.0 | 16.791 | 1.680 | 2398.745 | .054% | 98.677% |
| 67.0 | 16.671 | 1.683 | 2400.427 | .054% | 98.746% |
| 68.0 | 16.390 | 1.675 | 2402.102 | .054% | 98.815% |
| 69.0 | 16.038 | 1.654 | 2403.756 | .054% | 98.883% |
| 70.0 | 15.701 | 1.630 | 2405.386 | .053% | 98.950% |
| 71.0 | 15.286 | 1.602 | 2406.988 | .052% | 99.016% |
| 72.0 | 14.773 | 1.563 | 2408.551 | .051% | 99.081% |
| 73.0 | 14.358 | 1.523 | 2410.074 | .049% | 99.143% |
| 74.0 | 13.985 | 1.490 | 2411.564 | .048% | 99.205% |
| 75.0 | 13.514 | 1.453 | 2413.017 | .047% | 99.264% |

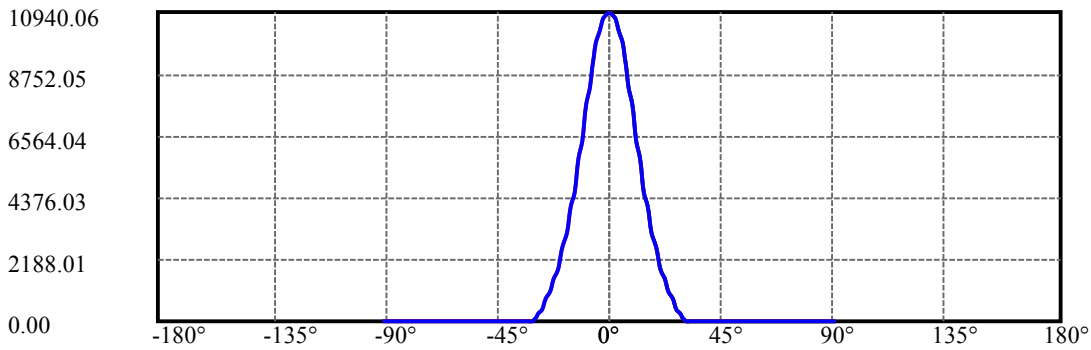
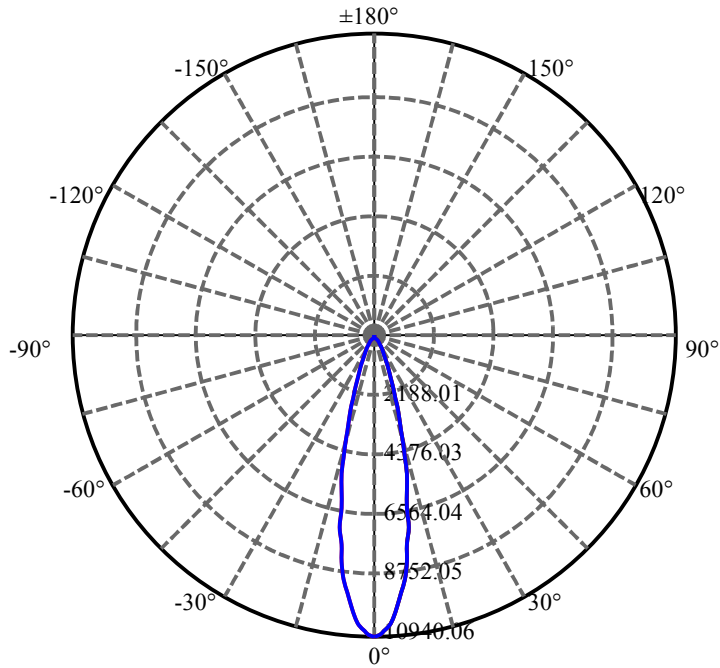
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 13.092 | 1.412 | 2414.43 | .046% | 99.322% |
| 77.0 | 12.544 | 1.367 | 2415.796 | .044% | 99.379% |
| 78.0 | 11.848 | 1.306 | 2417.102 | .042% | 99.432% |
| 79.0 | 11.496 | 1.254 | 2418.356 | .041% | 99.484% |
| 80.0 | 11.271 | 1.227 | 2419.584 | .040% | 99.534% |
| 81.0 | 11.039 | 1.206 | 2420.79 | .039% | 99.584% |
| 82.0 | 10.849 | 1.187 | 2421.977 | .038% | 99.633% |
| 83.0 | 10.652 | 1.169 | 2423.146 | .038% | 99.681% |
| 84.0 | 10.484 | 1.151 | 2424.297 | .037% | 99.728% |
| 85.0 | 10.322 | 1.136 | 2425.433 | .037% | 99.775% |
| 86.0 | 10.252 | 1.125 | 2426.558 | .036% | 99.821% |
| 87.0 | 10.076 | 1.112 | 2427.67 | .036% | 99.867% |
| 88.0 | 9.872 | 1.093 | 2428.763 | .035% | 99.912% |
| 89.0 | 9.724 | 1.074 | 2429.837 | .035% | 99.956% |
| 90.0 | 9.703 | 1.065 | 2430.902 | .034% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 2351.16 | 76.14% | 96.72% |
| 0-40 | 2363.68 | 76.54% | 97.23% |
| 0-60 | 2389.01 | 77.36% | 98.28% |
| 0-90 | 2429.84 | 78.69% | 99.96% |
| 0-120 | 2429.84 | 78.69% | 99.96% |
| 0-180 | 2430.90 | 78.72% | 100.00% |
| 60-90 | 42.35 | 1.37% | 1.74% |
| 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% |
| 0-19.64 | 1944.72 | 62.98% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|---------|
| 0-10 | 848.27 |
| 10-20 | 1126.19 |
| 20-30 | 376.69 |
| 30-40 | 12.52 |
| 40-50 | 11.43 |
| 50-60 | 13.90 |
| 60-70 | 16.38 |
| 70-80 | 14.20 |
| 80-90 | 10.25 |
| 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: ———

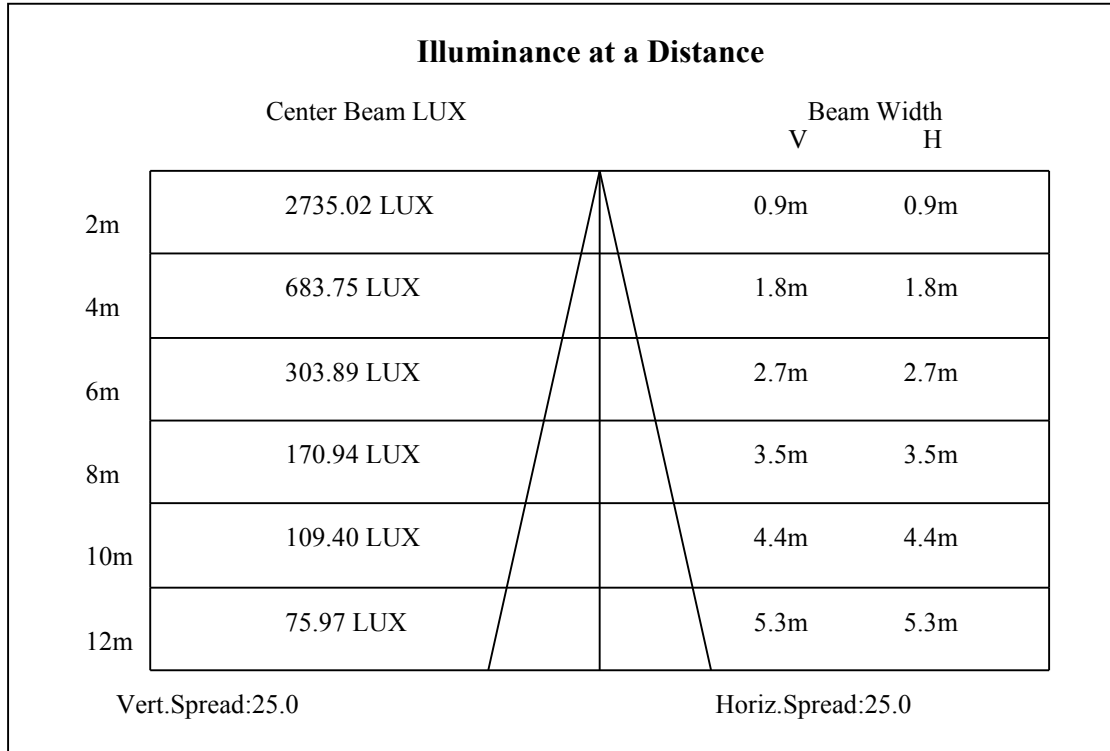
C90/C270: ———

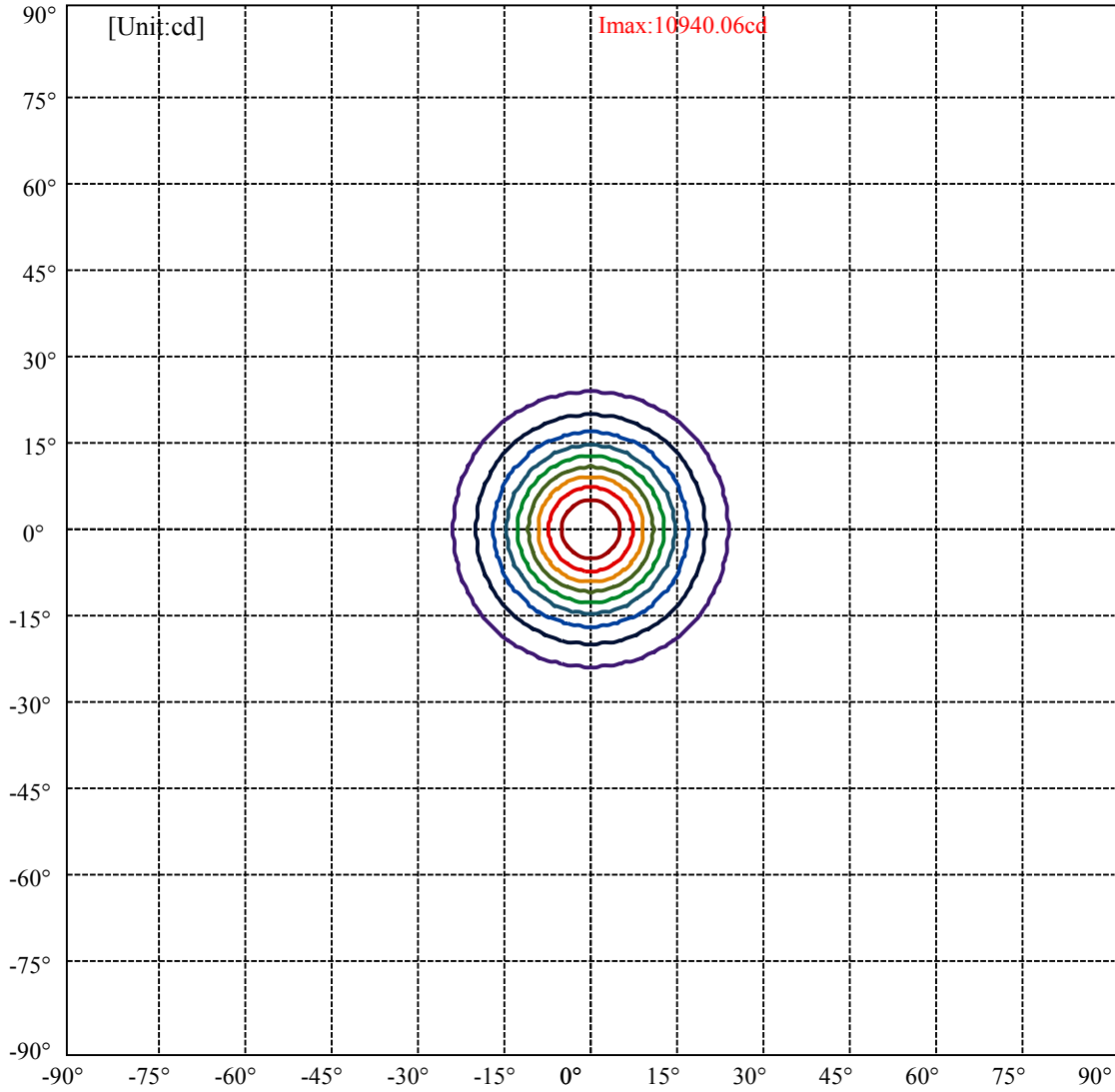
Field angle(10%Imax):C0/180Left:23.6 Right:23.6

:C90/270Left:23.6 Right:23.6

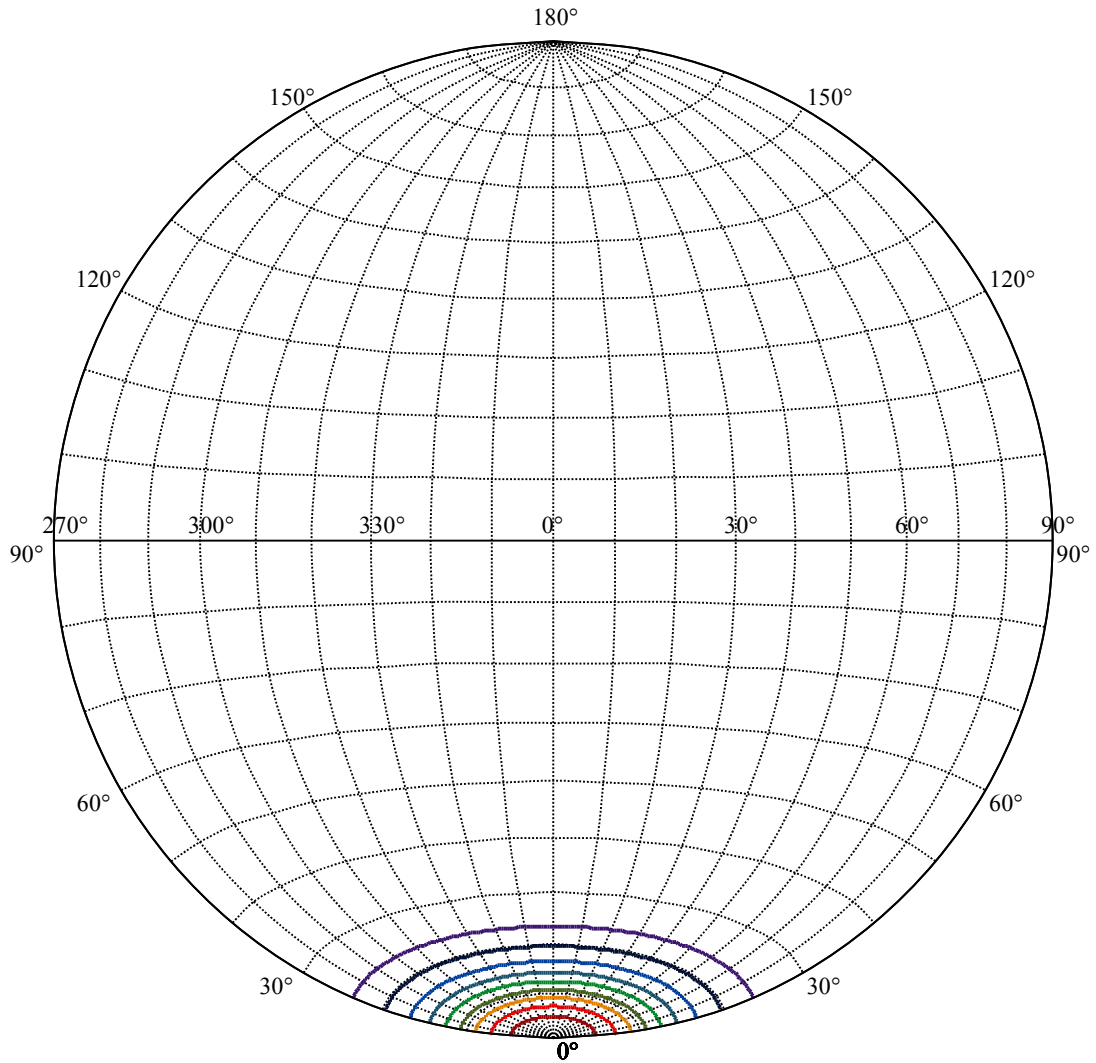
Beam Angle(50%Imax):C0/180Left:12.5 Right:12.5

:C90/270Left:12.5 Right:12.5





| | |
|-------------------|---|
| (10%Imax) 1094.01 | — |
| (20%Imax) 2188.01 | — |
| (30%Imax) 3282.02 | — |
| (40%Imax) 4376.03 | — |
| (50%Imax) 5470.03 | — |
| (60%Imax) 6564.04 | — |
| (70%Imax) 7658.04 | — |
| (80%Imax) 8752.05 | — |
| (90%Imax) 9846.06 | — |



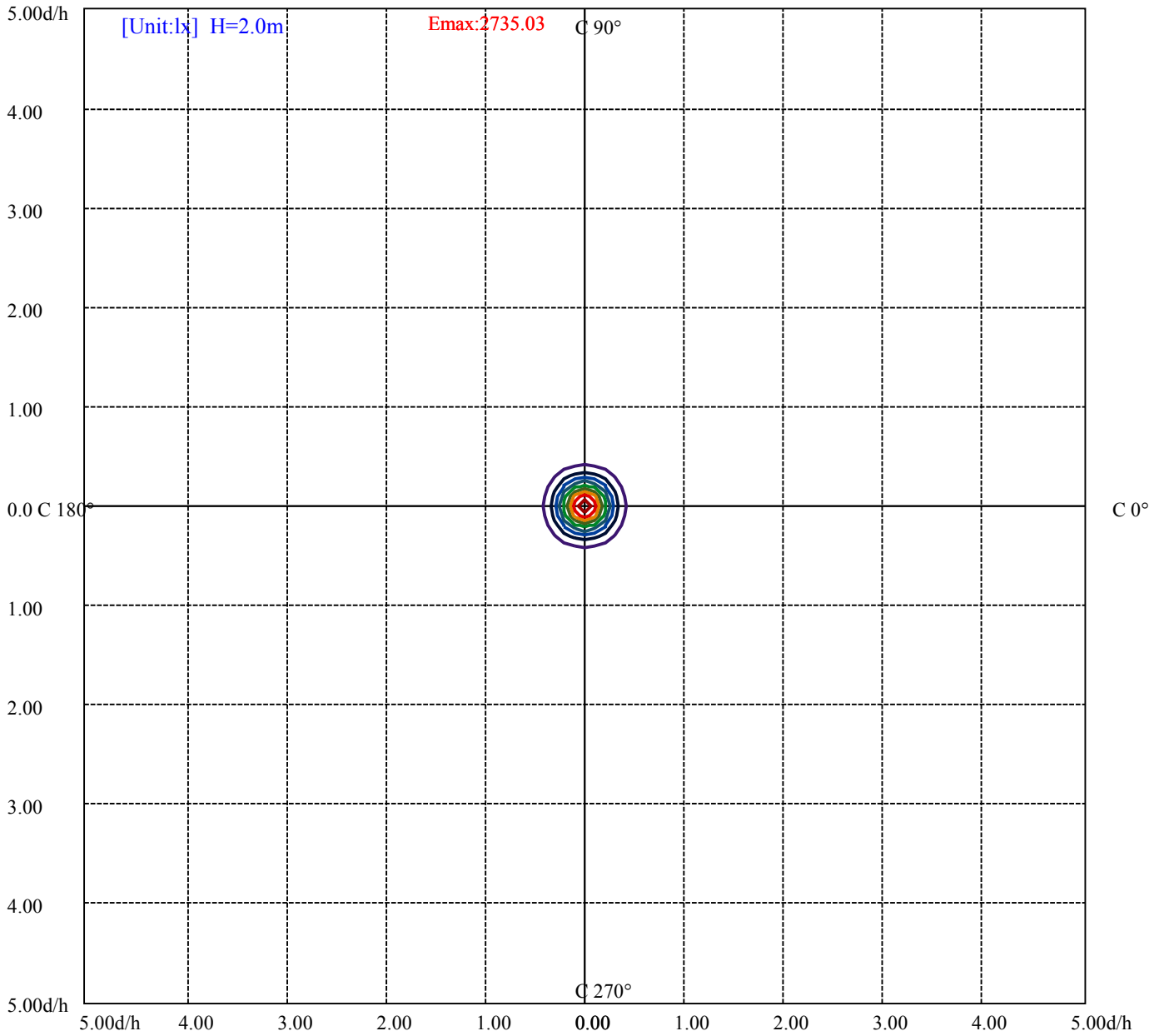
House

[Unit:cd]

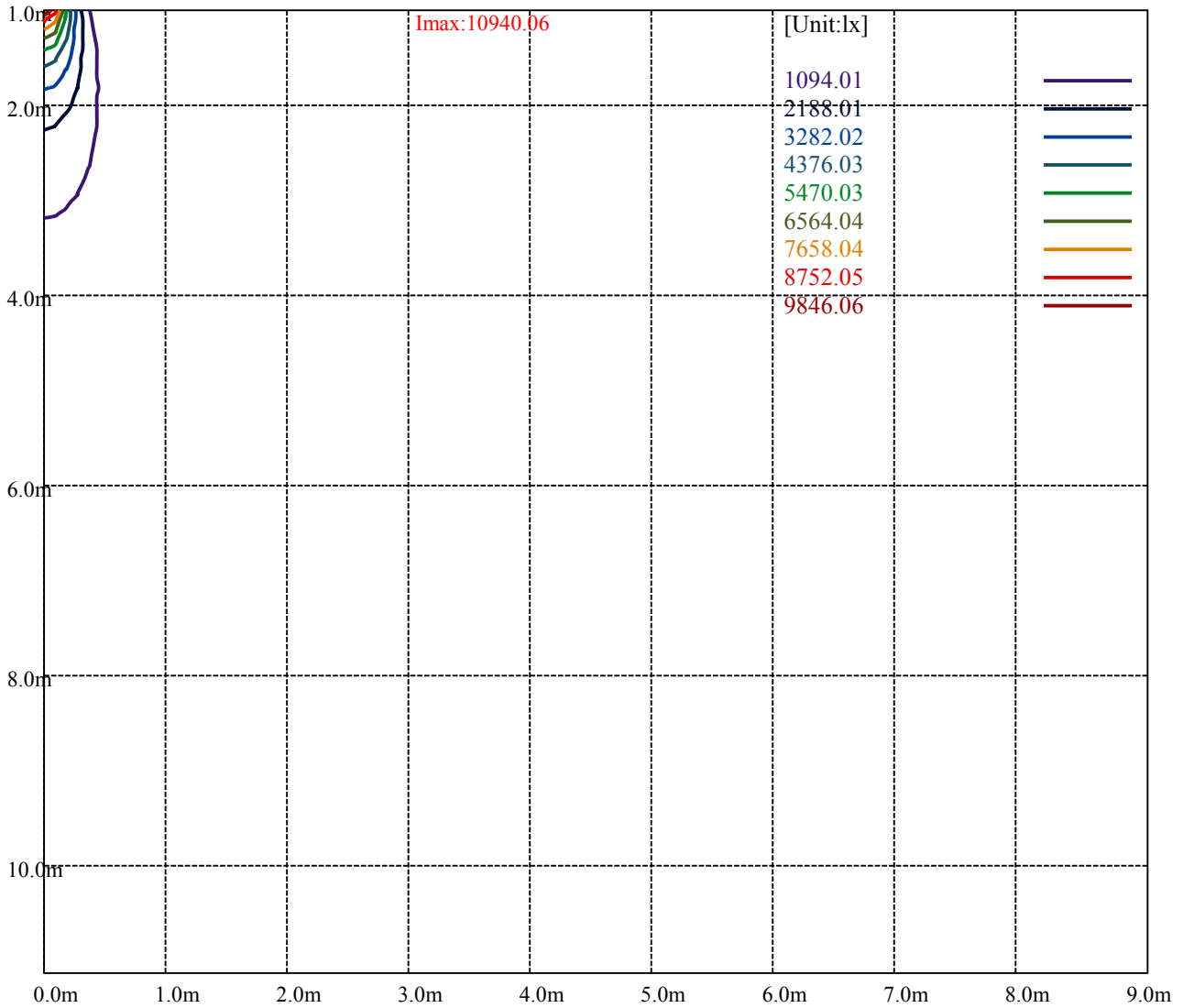
Road

Imax:10940.06

| | |
|-------------------|---|
| (10%Imax) 1094.01 | — |
| (20%Imax) 2188.01 | — |
| (30%Imax) 3282.02 | — |
| (40%Imax) 4376.03 | — |
| (50%Imax) 5470.03 | — |
| (60%Imax) 6564.04 | — |
| (70%Imax) 7658.04 | — |
| (80%Imax) 8752.05 | — |
| (90%Imax) 9846.06 | — |



| | |
|--------------------|---|
| (10%Emax) 273.5025 | — |
| (20%Emax) 547.0025 | — |
| (30%Emax) 820.505 | — |
| (40%Emax) 1094.005 | — |
| (50%Emax) 1367.507 | — |
| (60%Emax) 1641.007 | — |
| (70%Emax) 1914.51 | — |
| (80%Emax) 2188.012 | — |
| (90%Emax) 2461.512 | — |



Luminance Table

| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|----|----|----|----|----|----|----|----|
| C0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

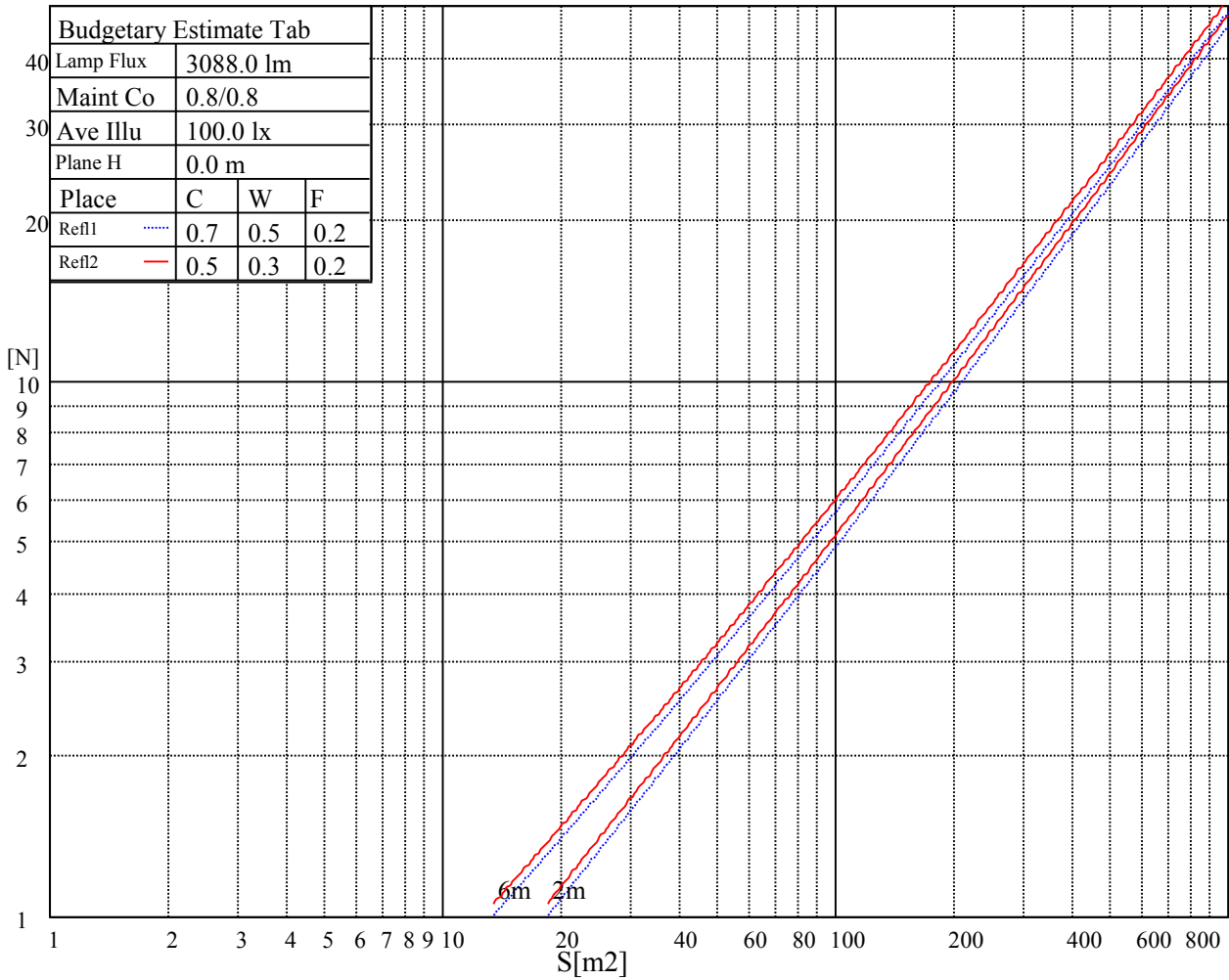
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Glare Table

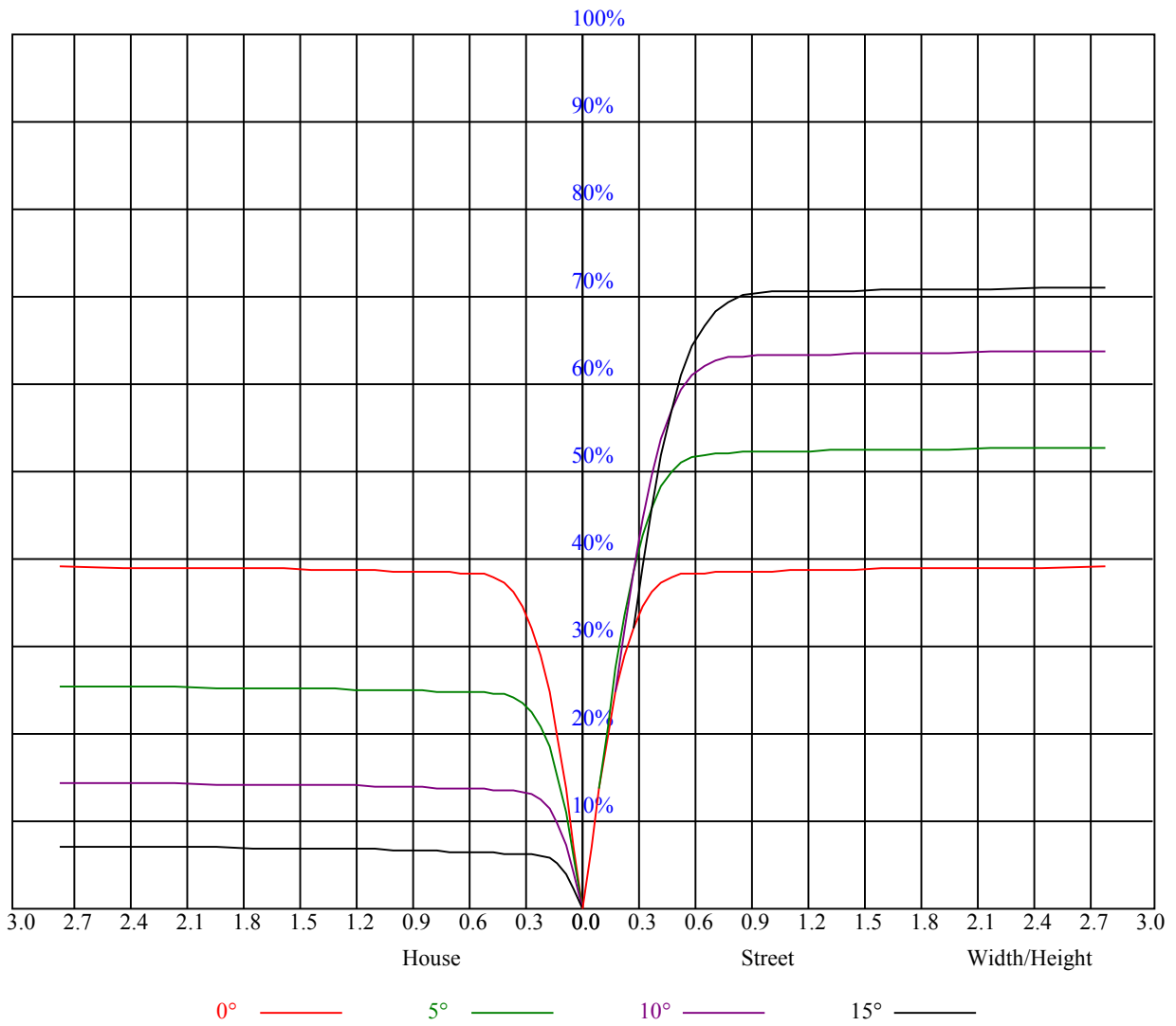
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 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 | 0.94 | 0.94 | 0.94 | 0.92 | 0.92 | 0.92 | 0.87 | 0.87 | 0.87 | 0.84 | 0.84 | 0.84 | 0.80 | 0.80 | 0.80 | 0.79 |
| 1 | 0.89 | 0.87 | 0.86 | 0.87 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.78 | 0.77 | 0.76 |
| 2 | 0.84 | 0.82 | 0.80 | 0.83 | 0.81 | 0.79 | 0.81 | 0.79 | 0.77 | 0.78 | 0.77 | 0.76 | 0.76 | 0.75 | 0.74 | 0.73 |
| 3 | 0.81 | 0.78 | 0.75 | 0.80 | 0.77 | 0.75 | 0.78 | 0.76 | 0.74 | 0.76 | 0.74 | 0.73 | 0.74 | 0.73 | 0.72 | 0.70 |
| 4 | 0.78 | 0.74 | 0.72 | 0.77 | 0.74 | 0.72 | 0.75 | 0.73 | 0.71 | 0.74 | 0.72 | 0.70 | 0.72 | 0.71 | 0.69 | 0.68 |
| 5 | 0.75 | 0.72 | 0.69 | 0.74 | 0.71 | 0.69 | 0.73 | 0.70 | 0.68 | 0.72 | 0.69 | 0.68 | 0.71 | 0.69 | 0.67 | 0.66 |
| 6 | 0.72 | 0.69 | 0.67 | 0.72 | 0.69 | 0.66 | 0.71 | 0.68 | 0.66 | 0.70 | 0.67 | 0.66 | 0.69 | 0.67 | 0.65 | 0.64 |
| 7 | 0.70 | 0.67 | 0.64 | 0.70 | 0.66 | 0.64 | 0.69 | 0.66 | 0.64 | 0.68 | 0.65 | 0.64 | 0.67 | 0.65 | 0.63 | 0.63 |
| 8 | 0.68 | 0.65 | 0.62 | 0.68 | 0.65 | 0.62 | 0.67 | 0.64 | 0.62 | 0.66 | 0.64 | 0.62 | 0.66 | 0.63 | 0.62 | 0.61 |
| 9 | 0.66 | 0.63 | 0.61 | 0.66 | 0.63 | 0.61 | 0.65 | 0.62 | 0.60 | 0.65 | 0.62 | 0.60 | 0.64 | 0.62 | 0.60 | 0.59 |
| 10 | 0.64 | 0.61 | 0.59 | 0.64 | 0.61 | 0.59 | 0.63 | 0.61 | 0.59 | 0.63 | 0.60 | 0.59 | 0.62 | 0.60 | 0.59 | 0.58 |



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 | 10960.31 | 10870.88 | 10617.75 | 10350.00 | 10060.88 | 9547.88 | 9014.06 | 8490.38 | 7863.75 |
| 45.0 | 10948.50 | 10866.94 | 10657.13 | 10407.94 | 10098.56 | 9672.75 | 9166.50 | 8651.25 | 8029.69 |
| 90.0 | 10942.31 | 10891.13 | 10739.25 | 10496.25 | 10209.94 | 9810.56 | 9393.19 | 8844.19 | 8230.50 |
| 135.0 | 10909.13 | 10976.63 | 10933.88 | 10805.06 | 10603.13 | 10299.94 | 9915.75 | 9505.69 | 8980.31 |
| 180.0 | 10960.31 | 10985.06 | 10904.06 | 10729.13 | 10499.63 | 10166.63 | 9743.06 | 9292.50 | 8724.94 |
| 225.0 | 10948.50 | 10942.31 | 10842.75 | 10649.81 | 10406.81 | 10043.44 | 9599.63 | 9143.44 | 8574.19 |
| 270.0 | 10942.31 | 10909.69 | 10752.75 | 10545.75 | 10275.75 | 9838.69 | 9411.75 | 8926.88 | 8328.38 |
| 315.0 | 10909.13 | 10766.25 | 10486.13 | 10194.75 | 9835.88 | 9291.38 | 8787.94 | 8244.56 | 7515.00 |
| 360.0 | 10960.31 | 10870.88 | 10617.75 | 10350.00 | 10060.88 | 9547.88 | 9014.06 | 8490.38 | 7863.75 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 7202.25 | 6605.44 | 5946.19 | 5380.88 | 4773.94 | 4204.69 | 3738.94 | 3313.13 | 2837.25 |
| 45.0 | 7374.94 | 6767.44 | 6080.63 | 5496.75 | 4879.69 | 4302.56 | 3832.31 | 3404.81 | 2928.94 |
| 90.0 | 7646.63 | 6960.38 | 6280.88 | 5697.00 | 5140.13 | 4484.25 | 3998.81 | 3557.81 | 3061.69 |
| 135.0 | 8395.88 | 7824.38 | 7140.38 | 6524.44 | 5848.88 | 5203.69 | 4665.94 | 4169.25 | 3606.19 |
| 180.0 | 8174.81 | 7514.44 | 6832.69 | 6232.50 | 5577.19 | 4960.13 | 4443.75 | 3965.63 | 3417.19 |
| 225.0 | 8017.88 | 7349.06 | 6661.69 | 6062.63 | 5409.00 | 4801.50 | 4298.06 | 3823.88 | 3285.56 |
| 270.0 | 7684.31 | 7085.25 | 6413.06 | 5826.94 | 5193.00 | 4595.63 | 4097.81 | 3582.56 | 3119.63 |
| 315.0 | 6986.81 | 6304.50 | 5646.94 | 5092.31 | 4498.88 | 3953.25 | 3512.81 | 3107.81 | 2652.19 |
| 360.0 | 7202.25 | 6605.44 | 5946.19 | 5380.88 | 4773.94 | 4204.69 | 3738.94 | 3313.13 | 2837.25 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 2501.44 | 2198.81 | 1853.44 | 1597.50 | 1356.19 | 1096.31 | 847.13 | 644.06 | 443.25 |
| 45.0 | 2579.06 | 2261.81 | 1912.50 | 1641.38 | 1397.81 | 1139.63 | 885.94 | 677.25 | 476.44 |
| 90.0 | 2704.50 | 2379.38 | 2014.88 | 1748.25 | 1504.13 | 1101.32 | 1018.13 | 778.33 | 586.41 |
| 135.0 | 3187.13 | 2798.44 | 2409.19 | 2088.00 | 1823.63 | 1545.75 | 1286.44 | 1049.63 | 804.94 |
| 180.0 | 3017.81 | 2658.38 | 2300.63 | 1981.13 | 1717.88 | 1476.56 | 1098.56 | 960.47 | 748.07 |
| 225.0 | 2907.00 | 2568.38 | 2220.75 | 1904.63 | 1641.94 | 1368.56 | 1099.07 | 877.84 | 651.21 |
| 270.0 | 2752.31 | 2422.69 | 2052.56 | 1777.50 | 1526.63 | 1231.88 | 1001.25 | 781.31 | 562.50 |
| 315.0 | 2330.44 | 2039.63 | 1766.81 | 1457.44 | 1094.96 | 981.56 | 717.30 | 530.33 | 369.68 |
| 360.0 | 2501.44 | 2198.81 | 1853.44 | 1597.50 | 1356.19 | 1096.31 | 847.13 | 644.06 | 443.25 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 289.13 | 149.46 | 57.99 | 24.13 | 18.84 | 17.49 | 16.54 | 15.75 | 15.02 |
| 45.0 | 327.94 | 294.75 | 100.01 | 31.67 | 20.59 | 19.69 | 18.73 | 18.11 | 17.61 |
| 90.0 | 401.12 | 261.51 | 133.48 | 50.46 | 23.01 | 19.80 | 18.84 | 18.11 | 17.55 |
| 135.0 | 612.00 | 426.38 | 297.56 | 139.67 | 51.30 | 21.04 | 17.27 | 16.20 | 15.19 |
| 180.0 | 537.08 | 356.46 | 222.24 | 103.95 | 40.39 | 19.35 | 17.27 | 16.43 | 15.64 |
| 225.0 | 471.94 | 300.15 | 163.58 | 75.26 | 32.68 | 23.29 | 22.11 | 21.26 | 20.36 |
| 270.0 | 374.63 | 300.94 | 119.42 | 44.16 | 24.75 | 22.33 | 21.26 | 20.36 | 19.74 |
| 315.0 | 217.46 | 97.88 | 38.81 | 20.48 | 18.51 | 17.16 | 16.09 | 15.36 | 14.68 |
| 360.0 | 289.13 | 149.46 | 57.99 | 24.13 | 18.84 | 17.49 | 16.54 | 15.75 | 15.02 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 14.51 | 14.12 | 13.73 | 13.50 | 13.33 | 13.11 | 12.99 | 12.83 | 12.77 |
| 45.0 | 17.16 | 16.88 | 16.59 | 16.26 | 16.09 | 15.86 | 15.64 | 15.53 | 15.36 |
| 90.0 | 17.04 | 16.71 | 16.43 | 16.20 | 15.98 | 15.81 | 15.58 | 15.41 | 15.30 |
| 135.0 | 14.51 | 14.01 | 13.50 | 13.16 | 12.88 | 12.66 | 12.38 | 12.26 | 12.15 |
| 180.0 | 15.13 | 14.74 | 14.46 | 14.23 | 14.01 | 13.95 | 13.84 | 13.73 | 13.67 |
| 225.0 | 19.80 | 19.29 | 18.90 | 18.51 | 18.28 | 18.11 | 17.94 | 17.89 | 17.89 |
| 270.0 | 19.18 | 18.73 | 18.39 | 18.11 | 17.89 | 17.78 | 17.55 | 17.49 | 17.38 |
| 315.0 | 14.23 | 13.84 | 13.56 | 13.22 | 13.11 | 12.99 | 12.83 | 12.77 | 12.77 |
| 360.0 | 14.51 | 14.12 | 13.73 | 13.50 | 13.33 | 13.11 | 12.99 | 12.83 | 12.77 |

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 | 12.66 | 12.54 | 12.49 | 12.38 | 12.32 | 12.32 | 12.26 | 12.21 | 12.15 |
| 45.0 | 15.24 | 15.13 | 15.08 | 15.02 | 15.08 | 15.13 | 15.24 | 15.30 | 15.41 |
| 90.0 | 15.13 | 15.08 | 14.96 | 14.91 | 14.85 | 14.79 | 14.79 | 14.91 | 15.02 |
| 135.0 | 12.04 | 12.04 | 11.98 | 11.98 | 11.93 | 11.93 | 11.93 | 11.93 | 11.87 |
| 180.0 | 13.61 | 13.50 | 13.44 | 13.39 | 13.28 | 13.22 | 13.16 | 13.11 | 13.11 |
| 225.0 | 18.00 | 18.34 | 18.79 | 19.24 | 19.80 | 20.59 | 21.15 | 21.60 | 21.99 |
| 270.0 | 17.38 | 17.44 | 17.55 | 17.83 | 18.17 | 18.51 | 19.01 | 19.46 | 19.74 |
| 315.0 | 12.71 | 12.71 | 12.77 | 12.71 | 12.77 | 12.77 | 12.77 | 12.71 | 12.71 |
| 360.0 | 12.66 | 12.54 | 12.49 | 12.38 | 12.32 | 12.32 | 12.26 | 12.21 | 12.15 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 12.09 | 12.09 | 12.04 | 11.98 | 11.98 | 11.93 | 11.93 | 11.87 | 11.81 |
| 45.0 | 15.53 | 15.64 | 15.75 | 16.09 | 16.37 | 16.71 | 17.21 | 17.61 | 18.06 |
| 90.0 | 15.24 | 15.30 | 15.36 | 15.41 | 15.53 | 15.64 | 15.86 | 16.14 | 16.43 |
| 135.0 | 11.81 | 11.76 | 11.76 | 11.70 | 11.64 | 11.64 | 11.59 | 11.53 | 11.48 |
| 180.0 | 13.05 | 12.99 | 12.99 | 12.94 | 12.88 | 12.83 | 12.77 | 12.77 | 12.71 |
| 225.0 | 22.56 | 22.89 | 23.34 | 23.79 | 24.30 | 24.86 | 25.48 | 26.21 | 26.72 |
| 270.0 | 20.08 | 20.36 | 20.70 | 21.09 | 21.32 | 21.60 | 21.88 | 22.22 | 22.61 |
| 315.0 | 12.66 | 12.60 | 12.54 | 12.54 | 12.49 | 12.49 | 12.38 | 12.38 | 12.32 |
| 360.0 | 12.09 | 12.09 | 12.04 | 11.98 | 11.98 | 11.93 | 11.93 | 11.87 | 11.81 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 11.76 | 11.70 | 11.70 | 11.64 | 11.59 | 11.53 | 11.48 | 11.42 | 11.36 |
| 45.0 | 18.39 | 18.73 | 18.84 | 18.56 | 18.23 | 17.44 | 16.48 | 15.47 | 14.34 |
| 90.0 | 16.71 | 16.99 | 17.21 | 17.33 | 17.33 | 17.10 | 16.59 | 16.09 | 15.47 |
| 135.0 | 11.48 | 11.48 | 11.42 | 11.31 | 11.31 | 11.25 | 11.25 | 11.36 | 11.59 |
| 180.0 | 12.66 | 12.60 | 12.54 | 12.43 | 12.38 | 12.32 | 12.21 | 12.21 | 12.09 |
| 225.0 | 27.17 | 27.45 | 27.56 | 27.28 | 26.89 | 26.10 | 25.26 | 24.41 | 23.23 |
| 270.0 | 23.01 | 23.34 | 23.51 | 23.57 | 23.46 | 23.01 | 22.39 | 21.66 | 20.76 |
| 315.0 | 12.32 | 12.26 | 12.21 | 12.21 | 12.21 | 12.38 | 12.66 | 12.99 | 13.44 |
| 360.0 | 11.76 | 11.70 | 11.70 | 11.64 | 11.59 | 11.53 | 11.48 | 11.42 | 11.36 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 11.25 | 11.14 | 11.03 | 10.91 | 10.86 | 10.74 | 10.69 | 10.58 | 10.52 |
| 45.0 | 13.44 | 12.94 | 12.66 | 12.49 | 12.32 | 11.98 | 11.59 | 11.31 | 11.08 |
| 90.0 | 14.34 | 13.56 | 13.05 | 12.66 | 12.43 | 12.21 | 11.87 | 11.59 | 11.19 |
| 135.0 | 12.09 | 12.66 | 13.16 | 13.67 | 13.67 | 13.22 | 11.70 | 10.69 | 10.52 |
| 180.0 | 11.98 | 11.87 | 11.81 | 11.64 | 11.59 | 11.48 | 11.31 | 11.25 | 11.14 |
| 225.0 | 21.66 | 20.25 | 18.90 | 17.21 | 15.92 | 14.68 | 13.33 | 12.88 | 12.43 |
| 270.0 | 19.58 | 18.56 | 17.49 | 16.20 | 15.19 | 14.12 | 13.33 | 12.94 | 12.60 |
| 315.0 | 13.84 | 13.89 | 13.78 | 13.33 | 12.77 | 11.93 | 10.97 | 10.74 | 10.69 |
| 360.0 | 11.25 | 11.14 | 11.03 | 10.91 | 10.86 | 10.74 | 10.69 | 10.58 | 10.52 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 10.41 | 10.35 | 10.24 | 10.07 | 9.90 | 9.79 | 9.68 | 9.56 | 9.56 |
| 45.0 | 10.80 | 10.69 | 10.46 | 10.35 | 10.29 | 10.24 | 9.90 | 9.84 | 9.84 |
| 90.0 | 10.91 | 10.69 | 10.46 | 10.35 | 9.96 | 10.07 | 9.84 | 9.73 | 9.73 |
| 135.0 | 10.41 | 10.29 | 10.24 | 10.13 | 10.07 | 10.07 | 9.90 | 9.73 | 9.68 |
| 180.0 | 11.03 | 10.91 | 10.74 | 10.58 | 10.35 | 10.13 | 9.96 | 9.62 | 9.56 |
| 225.0 | 12.09 | 11.76 | 11.36 | 11.14 | 10.91 | 10.74 | 10.58 | 10.46 | 9.90 |
| 270.0 | 12.15 | 11.70 | 11.36 | 11.03 | 10.86 | 10.74 | 10.86 | 10.29 | 9.84 |
| 315.0 | 10.52 | 10.41 | 10.35 | 10.24 | 10.24 | 10.24 | 9.90 | 9.73 | 9.68 |
| 360.0 | 10.41 | 10.35 | 10.24 | 10.07 | 9.90 | 9.79 | 9.68 | 9.56 | 9.56 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 9.56 |
| 45.0 | 9.84 |
| 90.0 | 9.73 |
| 135.0 | 9.68 |
| 180.0 | 9.56 |
| 225.0 | 9.84 |
| 270.0 | 9.73 |
| 315.0 | 9.68 |
| 360.0 | 9.56 |