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Nata

| | |
|------------------------------|-------------------------|
| LumCAT: 3-2547-M | |
| Luminaire: 92.70.131.00 | |
| Report No: 200921-B048 | Voltage(V): 230.8000 |
| Test No: 200921-C048 | Current(A): 0.0890 |
| LampCAT: LUMINUS CXM-14-AC40 | Power (W): 19.5800 |
| Lamp flux(lm): 2101.3 | PF: 0.9530 |
| Number of Lamps: 1 | Ballast type: AC |
| Length(feet)(ft.):0.000 | Width(feet)(ft.):0.000 |
| Phm Type: C | Height(feet)(ft.):0.000 |

Photometric Results

Lumens(lm): 2009.80
Efficiency(%): 95.65%
Lumens(lm)/Power(W): 102.65
Central intensity(cd): 4819.335
Maximum intensity(cd): 4819.335
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.3
 [C90/270]Total=35.3
Field angle(10%Imax): [C0/180]Total=67.0
 [C90/270]Total=67.0
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.56 C90_270=0.56
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.70%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.685%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2020/9/21
Humidity(%): 60.0%

Operator: NT0100
Distance(feet): 22.35

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 4819.335 | 1.153 | 1.153 | .055% | .057% |
| 1.0 | 4816.667 | 9.218 | 10.371 | .439% | .516% |
| 2.0 | 4805.762 | 18.392 | 28.764 | .875% | 1.431% |
| 3.0 | 4785.171 | 27.463 | 56.227 | 1.307% | 2.798% |
| 4.0 | 4756.575 | 36.386 | 92.612 | 1.732% | 4.608% |
| 5.0 | 4713.304 | 45.048 | 137.66 | 2.144% | 6.849% |
| 6.0 | 4643.641 | 53.229 | 190.889 | 2.533% | 9.498% |
| 7.0 | 4566.785 | 61.032 | 251.921 | 2.904% | 12.535% |
| 8.0 | 4464.814 | 68.141 | 320.062 | 3.243% | 15.925% |
| 9.0 | 4319.165 | 74.094 | 394.156 | 3.526% | 19.612% |
| 10.0 | 4153.505 | 79.093 | 473.249 | 3.764% | 23.547% |
| 11.0 | 3980.653 | 83.292 | 556.541 | 3.964% | 27.691% |
| 12.0 | 3768.068 | 85.911 | 642.452 | 4.088% | 31.966% |
| 13.0 | 3539.067 | 87.303 | 729.755 | 4.155% | 36.310% |
| 14.0 | 3299.046 | 87.522 | 817.277 | 4.165% | 40.664% |
| 15.0 | 3080.080 | 87.420 | 904.696 | 4.160% | 45.014% |
| 16.0 | 2801.370 | 84.676 | 989.372 | 4.030% | 49.227% |
| 17.0 | 2557.462 | 81.997 | 1071.369 | 3.902% | 53.307% |
| 18.0 | 2334.320 | 79.103 | 1150.472 | 3.764% | 57.243% |
| 19.0 | 2073.939 | 74.044 | 1224.516 | 3.524% | 60.927% |
| 20.0 | 1858.802 | 69.717 | 1294.233 | 3.318% | 64.396% |
| 21.0 | 1639.430 | 64.428 | 1358.661 | 3.066% | 67.602% |
| 22.0 | 1426.758 | 58.611 | 1417.272 | 2.789% | 70.518% |
| 23.0 | 1280.993 | 54.888 | 1472.16 | 2.612% | 73.249% |
| 24.0 | 1133.593 | 50.562 | 1522.721 | 2.406% | 75.765% |
| 25.0 | 1009.951 | 46.806 | 1569.527 | 2.227% | 78.094% |
| 26.0 | 932.168 | 44.811 | 1614.339 | 2.133% | 80.323% |
| 27.0 | 874.703 | 43.547 | 1657.886 | 2.072% | 82.490% |
| 28.0 | 831.942 | 42.831 | 1700.716 | 2.038% | 84.621% |
| 29.0 | 783.172 | 41.637 | 1742.353 | 1.981% | 86.693% |
| 30.0 | 730.597 | 40.059 | 1782.412 | 1.906% | 88.686% |
| 31.0 | 668.562 | 37.760 | 1820.172 | 1.797% | 90.565% |
| 32.0 | 602.895 | 35.035 | 1855.207 | 1.667% | 92.308% |
| 33.0 | 526.440 | 31.442 | 1886.649 | 1.496% | 93.872% |
| 34.0 | 436.760 | 26.783 | 1913.432 | 1.275% | 95.205% |
| 35.0 | 364.318 | 22.915 | 1936.347 | 1.091% | 96.345% |
| 36.0 | 287.155 | 18.509 | 1954.857 | .881% | 97.266% |
| 37.0 | 220.056 | 14.523 | 1969.379 | .691% | 97.989% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 151.768 | 10.246 | 1979.626 | .488% | 98.498% |
| 39.0 | 107.122 | 7.393 | 1987.019 | .352% | 98.866% |
| 40.0 | 64.013 | 4.512 | 1991.531 | .215% | 99.091% |
| 41.0 | 28.782 | 2.071 | 1993.601 | .099% | 99.194% |
| 42.0 | 18.834 | 1.382 | 1994.983 | .066% | 99.263% |
| 43.0 | 15.824 | 1.183 | 1996.167 | .056% | 99.321% |
| 44.0 | 12.610 | 0.961 | 1997.127 | .046% | 99.369% |
| 45.0 | 10.394 | 0.806 | 1997.933 | .038% | 99.409% |
| 46.0 | 9.107 | 0.718 | 1998.652 | .034% | 99.445% |
| 47.0 | 7.964 | 0.639 | 1999.291 | .030% | 99.477% |
| 48.0 | 7.123 | 0.580 | 1999.871 | .028% | 99.506% |
| 49.0 | 6.351 | 0.526 | 2000.397 | .025% | 99.532% |
| 50.0 | 5.754 | 0.483 | 2000.88 | .023% | 99.556% |
| 51.0 | 5.273 | 0.449 | 2001.329 | .021% | 99.578% |
| 52.0 | 4.832 | 0.418 | 2001.747 | .020% | 99.599% |
| 53.0 | 4.490 | 0.393 | 2002.14 | .019% | 99.619% |
| 54.0 | 4.240 | 0.376 | 2002.516 | .018% | 99.637% |
| 55.0 | 4.008 | 0.360 | 2002.876 | .017% | 99.655% |
| 56.0 | 3.828 | 0.348 | 2003.224 | .017% | 99.673% |
| 57.0 | 3.689 | 0.339 | 2003.564 | .016% | 99.689% |
| 58.0 | 3.573 | 0.332 | 2003.896 | .016% | 99.706% |
| 59.0 | 3.521 | 0.331 | 2004.227 | .016% | 99.722% |
| 60.0 | 3.434 | 0.326 | 2004.553 | .016% | 99.739% |
| 61.0 | 3.358 | 0.322 | 2004.875 | .015% | 99.755% |
| 62.0 | 3.318 | 0.321 | 2005.196 | .015% | 99.771% |
| 63.0 | 3.237 | 0.316 | 2005.513 | .015% | 99.786% |
| 64.0 | 3.173 | 0.313 | 2005.825 | .015% | 99.802% |
| 65.0 | 3.115 | 0.310 | 2006.135 | .015% | 99.817% |
| 66.0 | 3.057 | 0.306 | 2006.441 | .015% | 99.833% |
| 67.0 | 2.958 | 0.299 | 2006.74 | .014% | 99.848% |
| 68.0 | 2.842 | 0.289 | 2007.029 | .014% | 99.862% |
| 69.0 | 2.686 | 0.275 | 2007.304 | .013% | 99.876% |
| 70.0 | 2.529 | 0.261 | 2007.564 | .012% | 99.889% |
| 71.0 | 2.326 | 0.241 | 2007.805 | .011% | 99.901% |
| 72.0 | 2.111 | 0.220 | 2008.026 | .010% | 99.912% |
| 73.0 | 1.903 | 0.200 | 2008.225 | .009% | 99.921% |
| 74.0 | 1.682 | 0.177 | 2008.402 | .008% | 99.930% |
| 75.0 | 1.479 | 0.157 | 2008.559 | .007% | 99.938% |

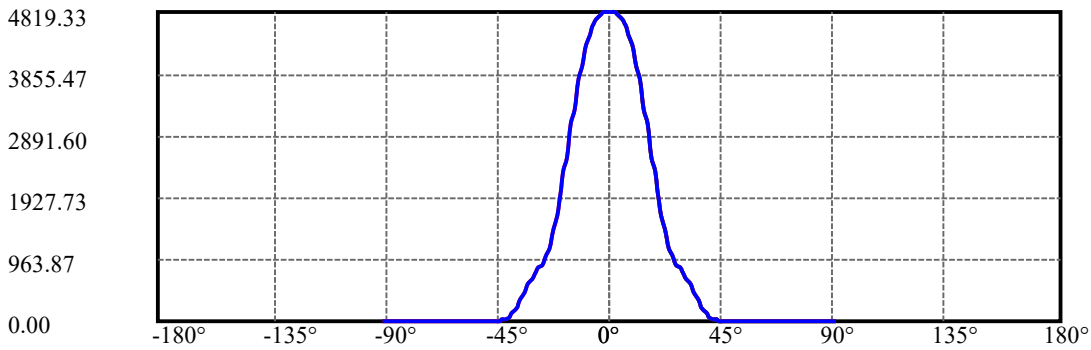
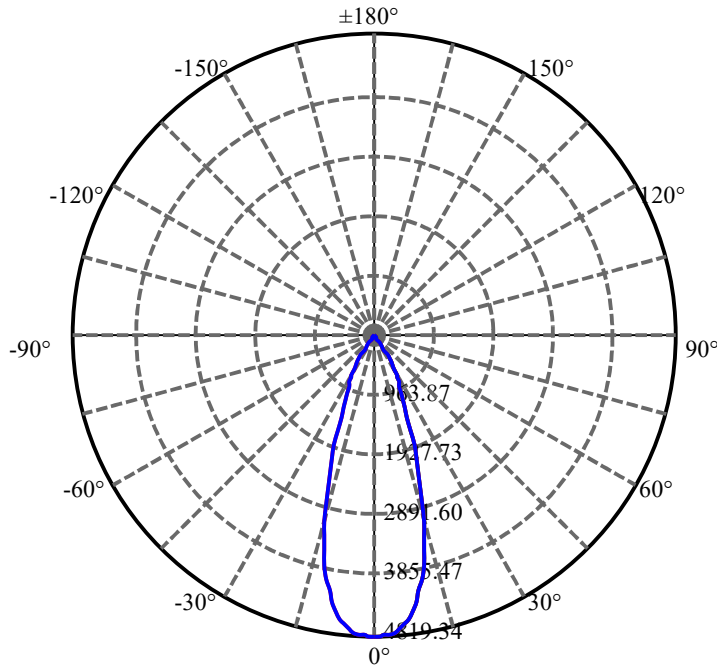
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 1.259 | 0.134 | 2008.693 | .006% | 99.945% |
| 77.0 | 1.108 | 0.118 | 2008.811 | .006% | 99.951% |
| 78.0 | 0.974 | 0.105 | 2008.916 | .005% | 99.956% |
| 79.0 | 0.905 | 0.097 | 2009.013 | .005% | 99.961% |
| 80.0 | 0.841 | 0.091 | 2009.104 | .004% | 99.965% |
| 81.0 | 0.806 | 0.087 | 2009.192 | .004% | 99.970% |
| 82.0 | 0.771 | 0.084 | 2009.275 | .004% | 99.974% |
| 83.0 | 0.719 | 0.078 | 2009.354 | .004% | 99.978% |
| 84.0 | 0.667 | 0.073 | 2009.426 | .003% | 99.981% |
| 85.0 | 0.644 | 0.070 | 2009.497 | .003% | 99.985% |
| 86.0 | 0.626 | 0.069 | 2009.565 | .003% | 99.988% |
| 87.0 | 0.632 | 0.069 | 2009.634 | .003% | 99.992% |
| 88.0 | 0.667 | 0.073 | 2009.708 | .003% | 99.995% |
| 89.0 | 0.592 | 0.065 | 2009.772 | .003% | 99.998% |
| 90.0 | 0.580 | 0.032 | 2009.804 | .002% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1782.41 | 84.82% | 88.69% |
| 0-40 | 1991.53 | 94.78% | 99.09% |
| 0-60 | 2004.55 | 95.40% | 99.74% |
| 0-90 | 2009.77 | 95.64% | 100.00% |
| 0-120 | 2009.77 | 95.64% | 100.00% |
| 0-180 | 2009.80 | 95.65% | 100.00% |
| 60-90 | 5.55 | 0.26% | 0.28% |
| 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% |
| 0-25.86 | 1607.84 | 76.52% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 473.25 |
| 10-20 | 820.98 |
| 20-30 | 488.18 |
| 30-40 | 209.12 |
| 40-50 | 9.35 |
| 50-60 | 3.67 |
| 60-70 | 3.01 |
| 70-80 | 1.54 |
| 80-90 | 0.67 |
| 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: —————

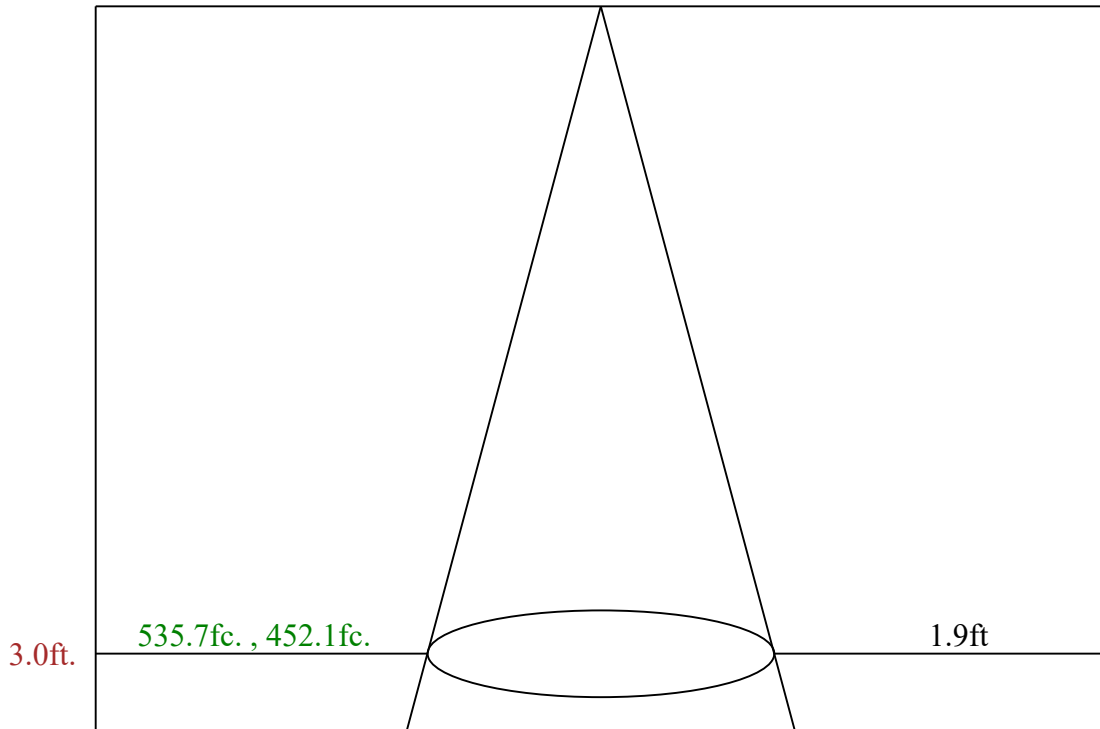
C90/C270: —————

Field angle(10%Imax):C0/180Left:33.5 Right:33.5

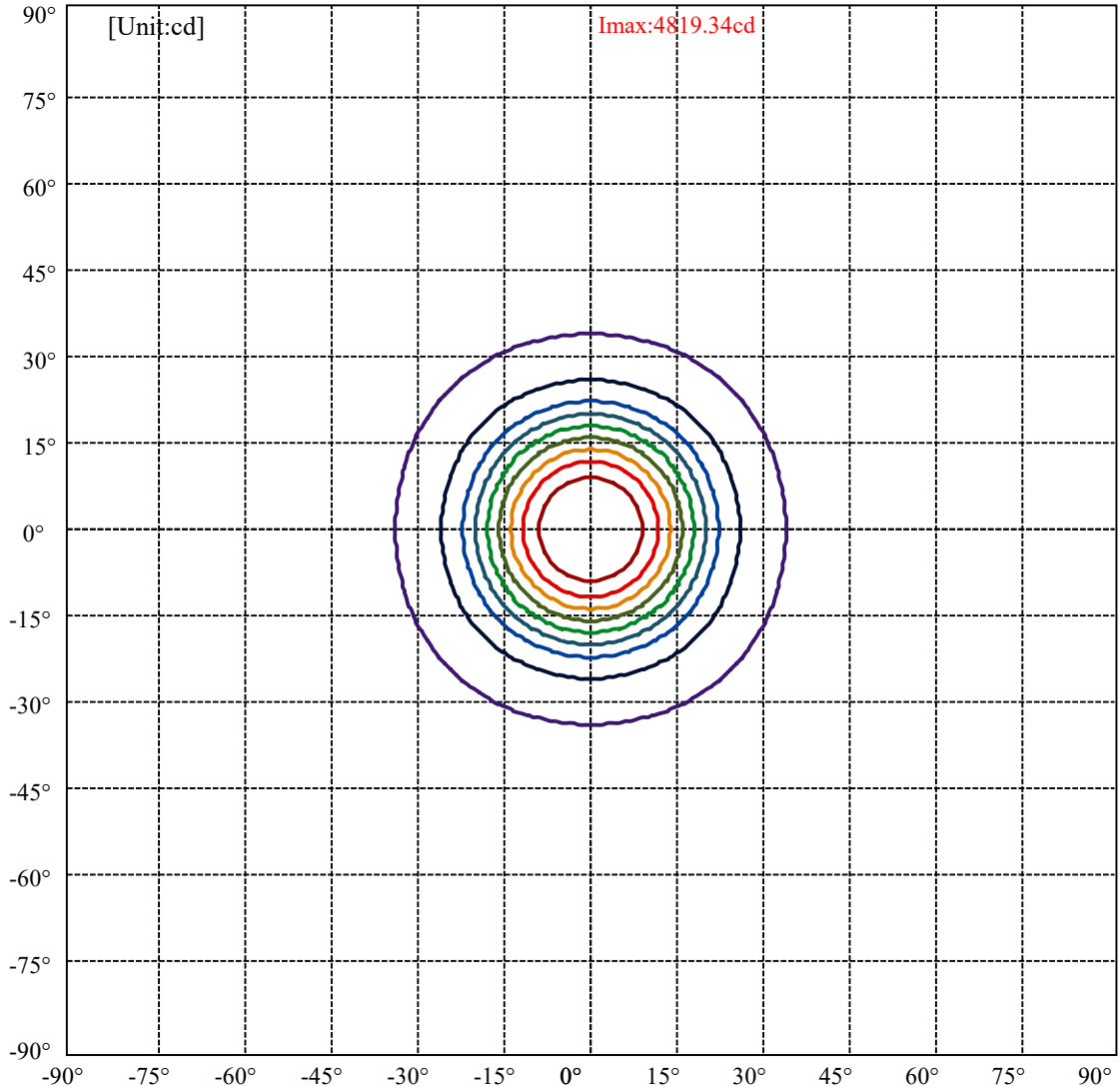
:C90/270Left:33.5 Right:33.5

Beam Angle(50%Imax):C0/180Left:17.7 Right:17.7

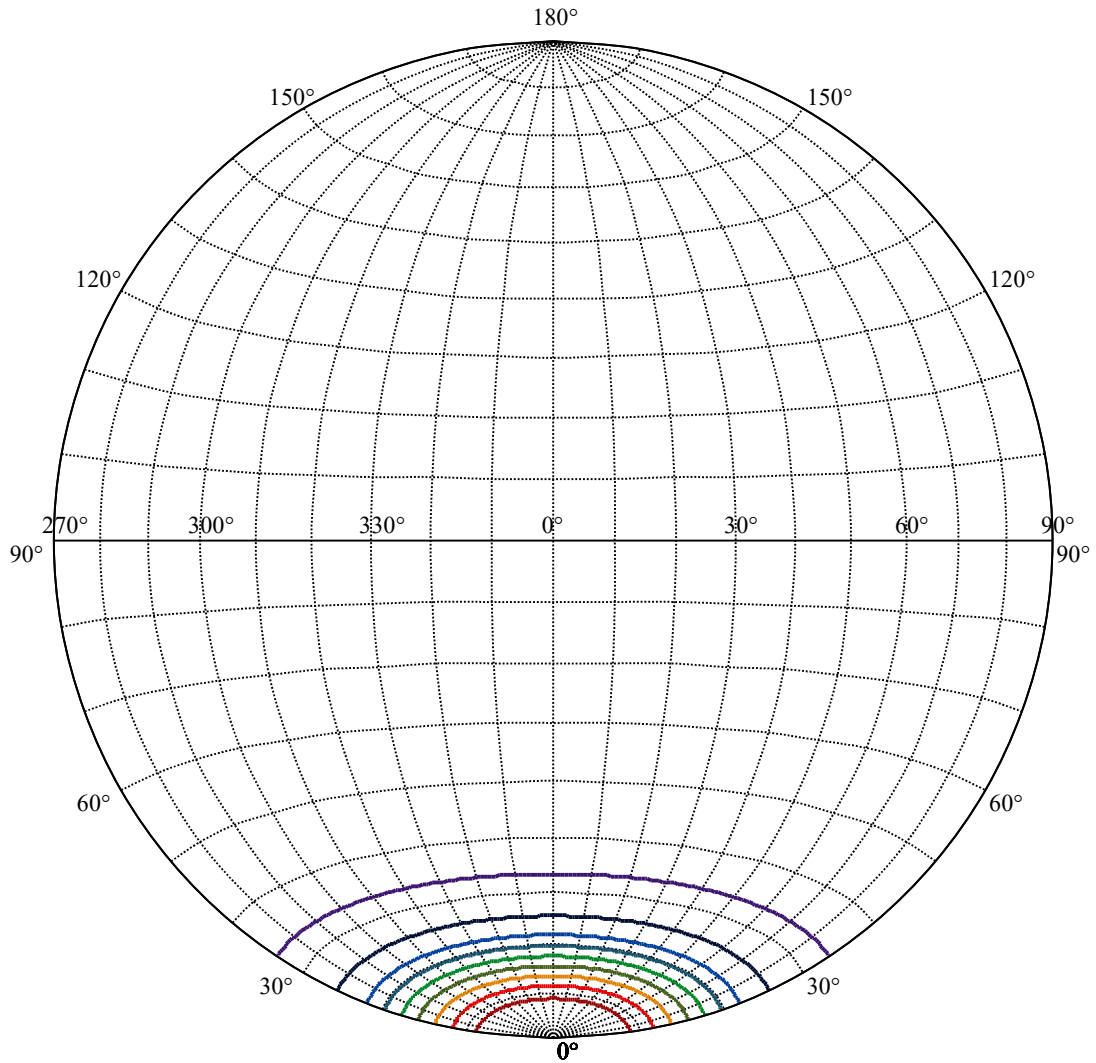
:C90/270Left:17.7 Right:17.7



Max , Ave Beam angle of C0 plane 35.34



| | |
|-------------------|---|
| (10%Imax) 481.934 | — |
| (20%Imax) 963.867 | — |
| (30%Imax) 1445.8 | — |
| (40%Imax) 1927.73 | — |
| (50%Imax) 2409.67 | — |
| (60%Imax) 2891.6 | — |
| (70%Imax) 3373.53 | — |
| (80%Imax) 3855.47 | — |
| (90%Imax) 4337.4 | — |



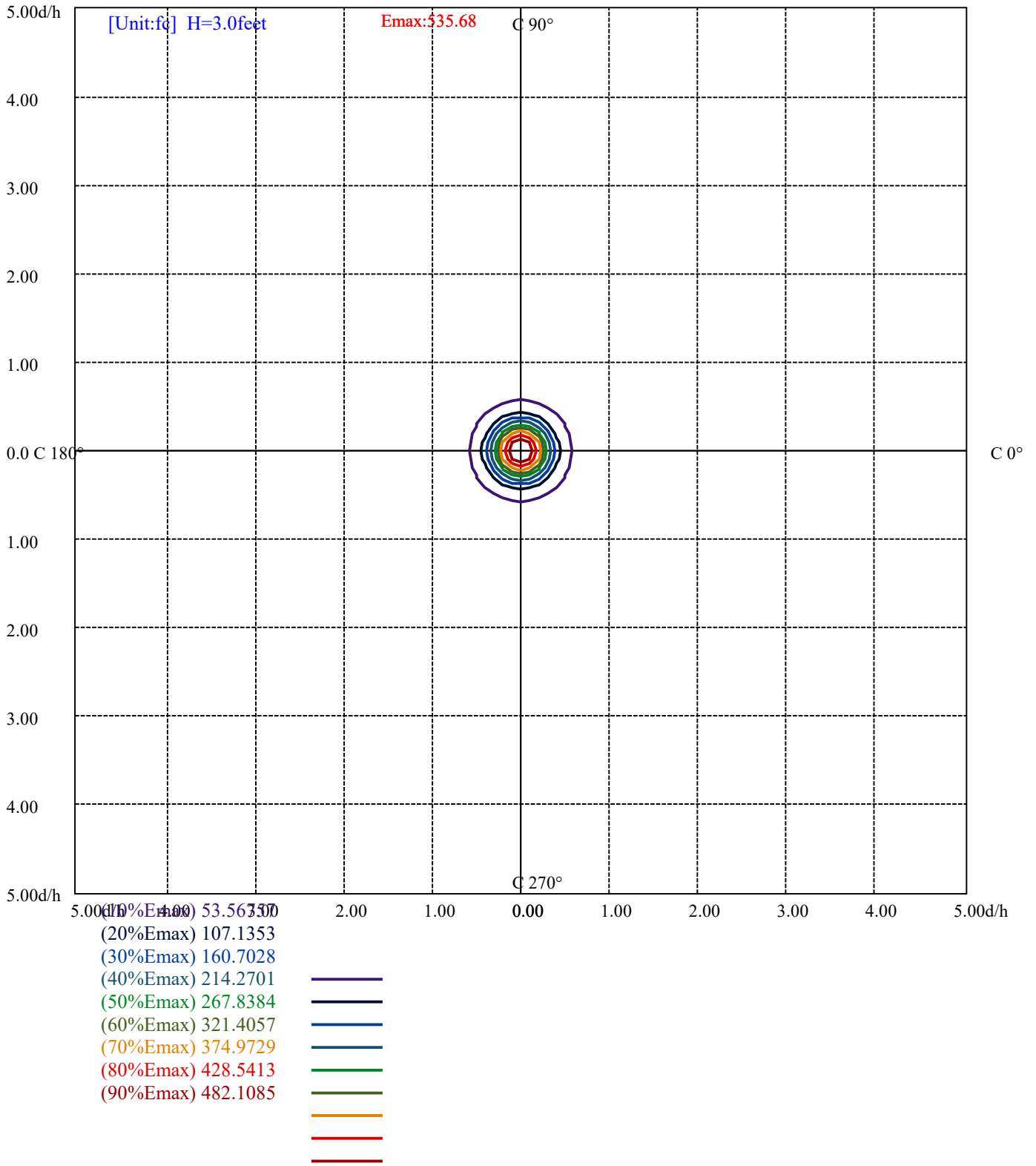
House

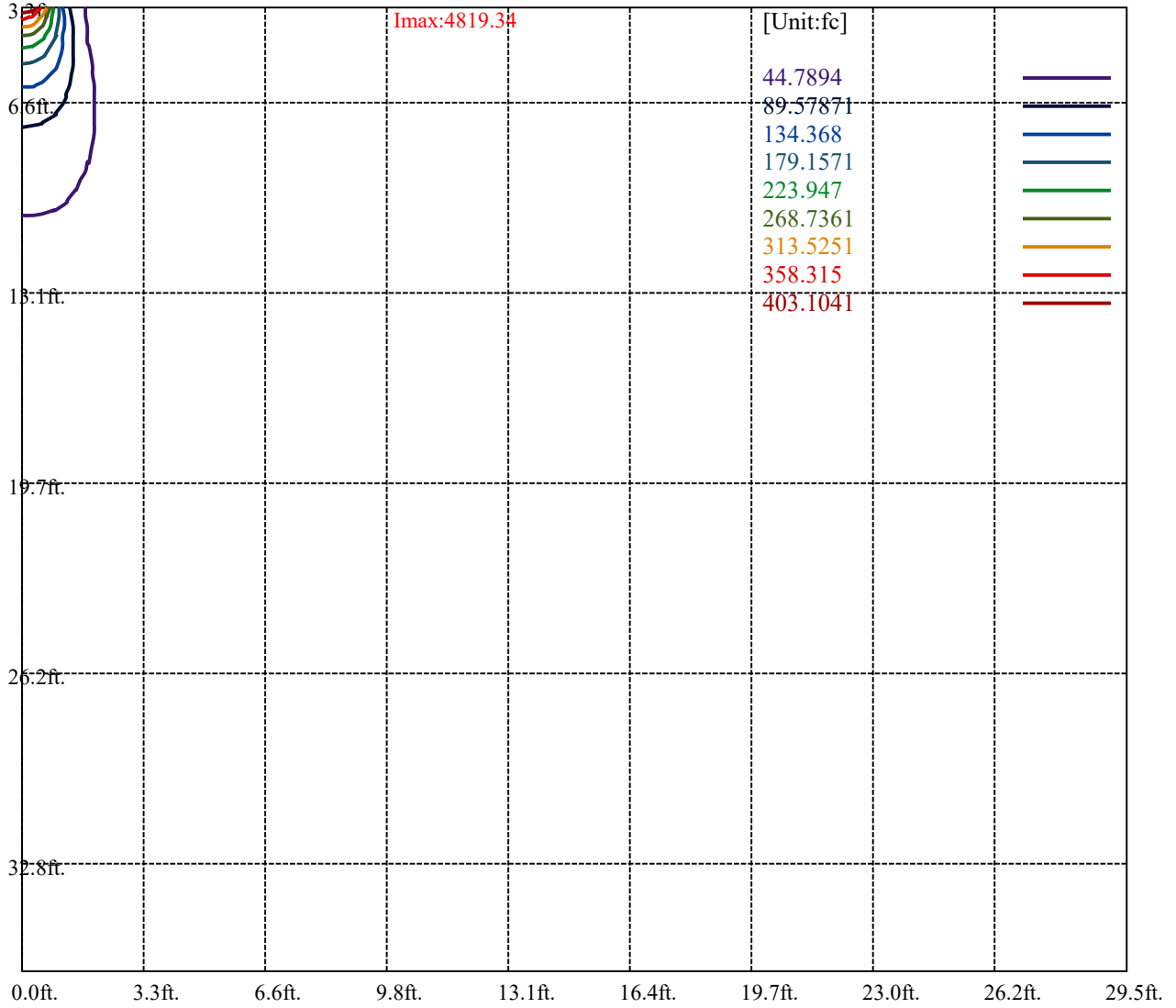
[Unit:cd]

Road

Imax:4819.34

| | | |
|-----------|---------|---|
| (10%Imax) | 481.934 | — |
| (20%Imax) | 963.867 | — |
| (30%Imax) | 1445.8 | — |
| (40%Imax) | 1927.73 | — |
| (50%Imax) | 2409.67 | — |
| (60%Imax) | 2891.6 | — |
| (70%Imax) | 3373.53 | — |
| (80%Imax) | 3855.47 | — |
| (90%Imax) | 4337.4 | — |





Luminance Table

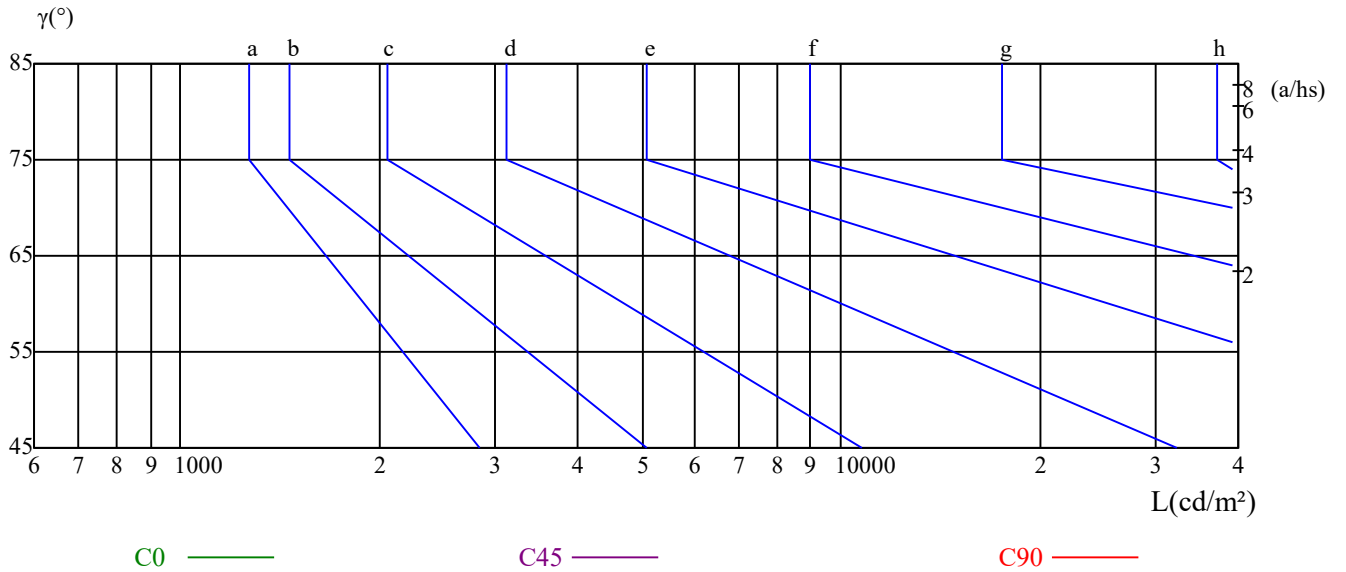
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|----|----|----|----|----|----|----|----|
| C0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

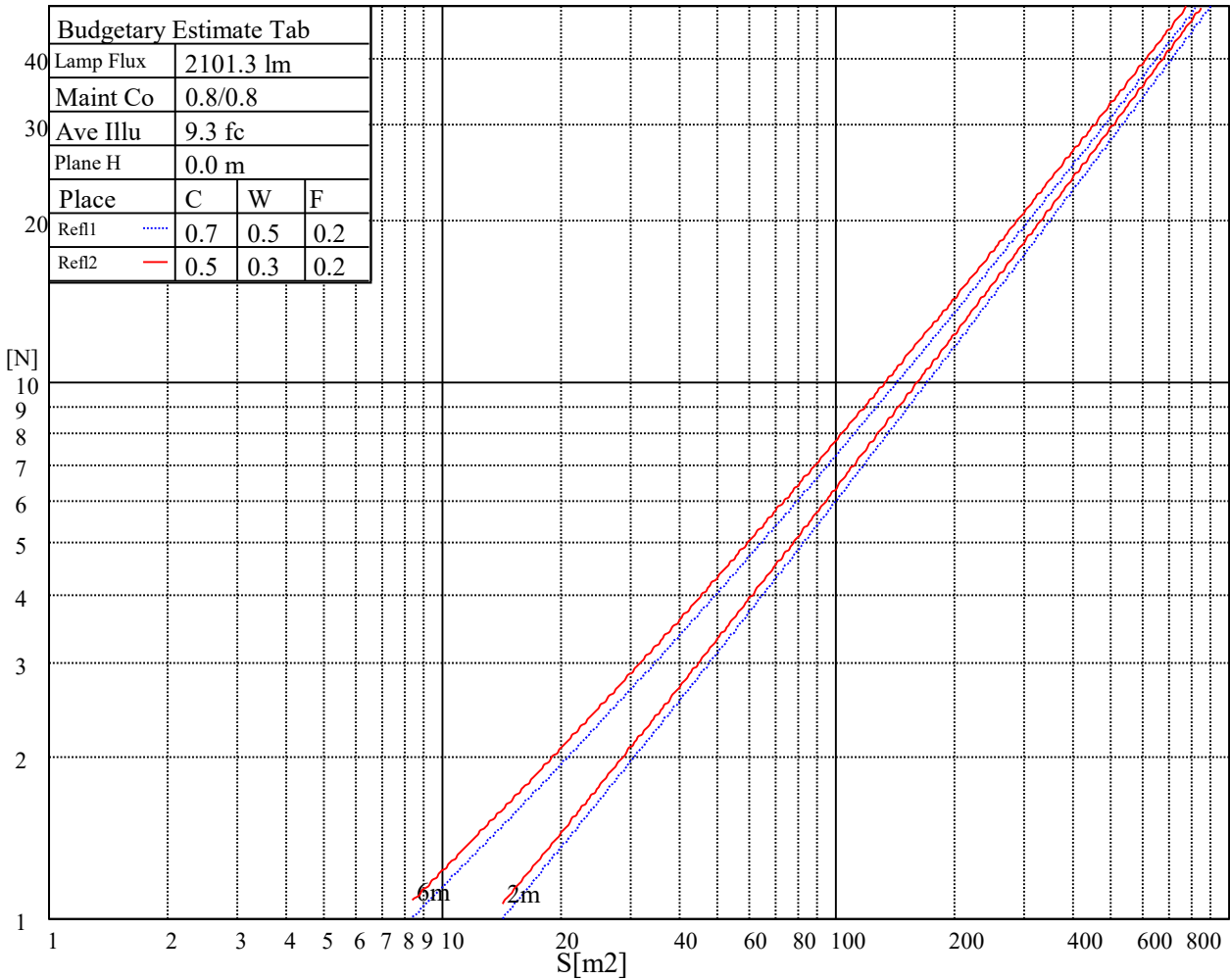
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Glare Table

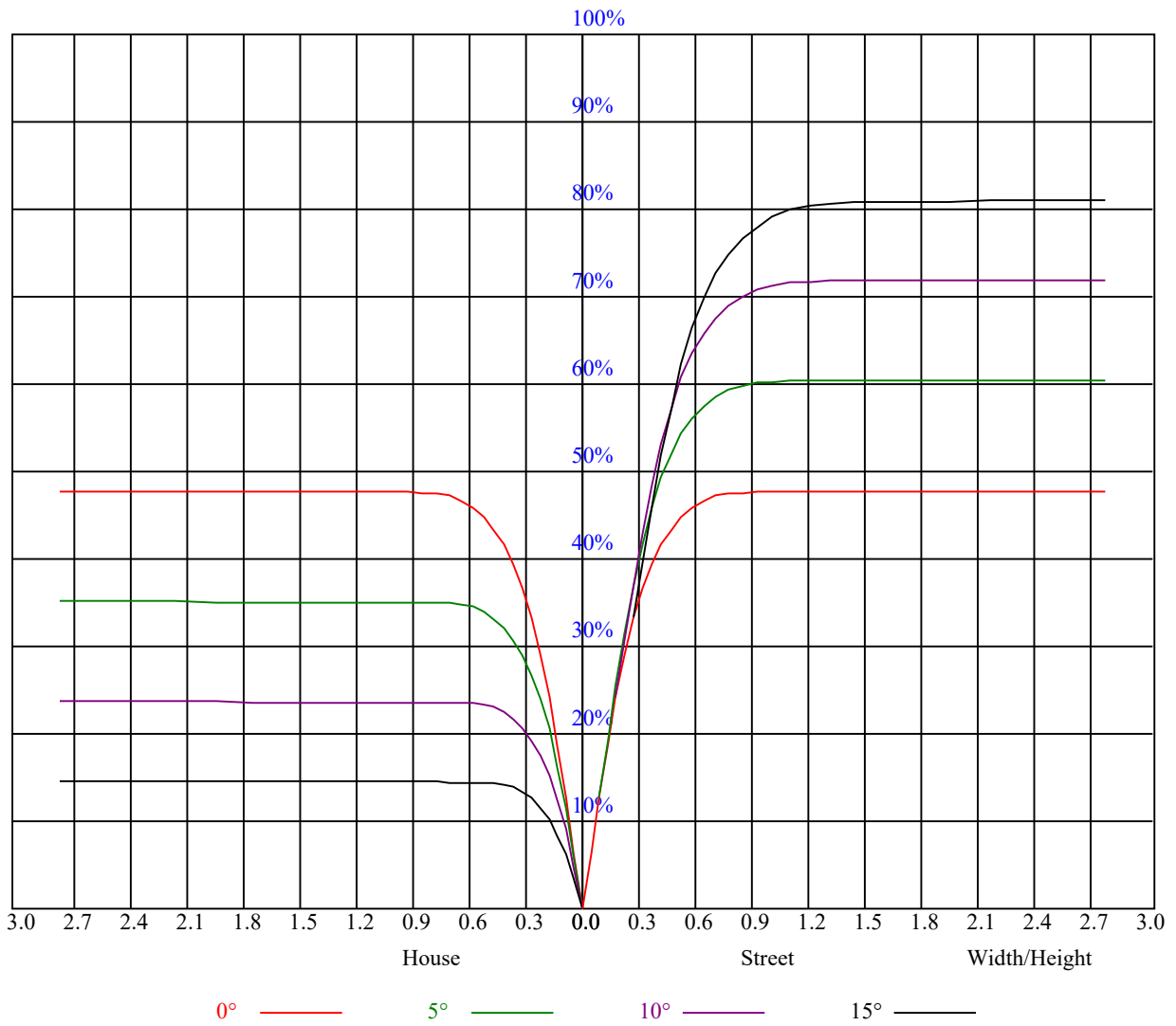
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 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 | 1.14 | 1.14 | 1.14 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 0.98 | 0.98 | 0.98 | 0.96 |
| 1 | 1.07 | 1.05 | 1.03 | 1.05 | 1.03 | 1.02 | 1.01 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 |
| 2 | 1.01 | 0.98 | 0.96 | 1.00 | 0.97 | 0.94 | 0.97 | 0.94 | 0.92 | 0.94 | 0.92 | 0.90 | 0.91 | 0.90 | 0.89 | 0.87 |
| 3 | 0.96 | 0.92 | 0.89 | 0.95 | 0.91 | 0.89 | 0.93 | 0.90 | 0.87 | 0.90 | 0.88 | 0.86 | 0.88 | 0.86 | 0.85 | 0.83 |
| 4 | 0.92 | 0.87 | 0.84 | 0.91 | 0.87 | 0.84 | 0.89 | 0.85 | 0.83 | 0.87 | 0.84 | 0.82 | 0.85 | 0.83 | 0.81 | 0.80 |
| 5 | 0.87 | 0.83 | 0.80 | 0.87 | 0.82 | 0.79 | 0.85 | 0.81 | 0.79 | 0.83 | 0.80 | 0.78 | 0.82 | 0.79 | 0.77 | 0.76 |
| 6 | 0.84 | 0.79 | 0.76 | 0.83 | 0.79 | 0.75 | 0.82 | 0.78 | 0.75 | 0.80 | 0.77 | 0.74 | 0.79 | 0.76 | 0.74 | 0.73 |
| 7 | 0.80 | 0.75 | 0.72 | 0.80 | 0.75 | 0.72 | 0.78 | 0.75 | 0.72 | 0.77 | 0.74 | 0.71 | 0.76 | 0.73 | 0.71 | 0.70 |
| 8 | 0.77 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.72 | 0.69 | 0.75 | 0.71 | 0.68 | 0.74 | 0.71 | 0.68 | 0.67 |
| 9 | 0.74 | 0.69 | 0.66 | 0.74 | 0.69 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.68 | 0.66 | 0.71 | 0.68 | 0.66 | 0.65 |
| 10 | 0.71 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.66 | 0.64 | 0.69 | 0.66 | 0.63 | 0.69 | 0.66 | 0.63 | 0.62 |



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 | 4815.51 | 4813.19 | 4795.09 | 4761.68 | 4734.30 | 4675.37 | 4594.16 | 4502.28 | 4373.28 |
| 45.0 | 4824.32 | 4818.29 | 4819.22 | 4800.19 | 4779.78 | 4759.82 | 4700.89 | 4653.10 | 4576.07 |
| 90.0 | 4820.61 | 4811.33 | 4804.83 | 4783.49 | 4746.37 | 4701.82 | 4640.57 | 4557.04 | 4456.35 |
| 135.0 | 4816.90 | 4822.47 | 4813.65 | 4808.55 | 4793.70 | 4772.35 | 4730.12 | 4680.94 | 4607.62 |
| 180.0 | 4815.51 | 4824.79 | 4820.15 | 4811.79 | 4793.70 | 4779.78 | 4717.60 | 4682.33 | 4602.52 |
| 225.0 | 4824.32 | 4811.79 | 4794.63 | 4765.39 | 4721.31 | 4649.38 | 4549.15 | 4428.97 | 4272.12 |
| 270.0 | 4820.61 | 4821.08 | 4813.19 | 4789.52 | 4760.29 | 4711.10 | 4640.10 | 4568.64 | 4456.35 |
| 315.0 | 4816.90 | 4810.40 | 4785.34 | 4760.75 | 4723.16 | 4656.81 | 4576.53 | 4460.99 | 4374.21 |
| 360.0 | 4815.51 | 4813.19 | 4795.09 | 4761.68 | 4734.30 | 4675.37 | 4594.16 | 4502.28 | 4373.28 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 4216.90 | 4027.58 | 3822.48 | 3596.49 | 3356.59 | 3118.07 | 2971.44 | 2625.27 | 2376.08 |
| 45.0 | 4476.30 | 4347.30 | 4189.99 | 4006.23 | 3803.91 | 3599.28 | 3369.11 | 3139.88 | 2912.04 |
| 90.0 | 4338.94 | 4188.13 | 4023.87 | 3828.97 | 3619.23 | 3406.24 | 3270.28 | 2951.48 | 2712.97 |
| 135.0 | 4563.07 | 4413.19 | 4319.92 | 4149.62 | 3948.69 | 3718.07 | 3472.13 | 3209.95 | 2939.88 |
| 180.0 | 4440.10 | 4352.40 | 4178.39 | 3975.14 | 3759.83 | 3514.82 | 3266.10 | 3014.59 | 2763.09 |
| 225.0 | 4086.05 | 3869.34 | 3639.65 | 3390.92 | 3143.13 | 2891.62 | 2691.16 | 2407.64 | 2225.27 |
| 270.0 | 4300.43 | 4119.46 | 3905.07 | 3685.12 | 3441.04 | 3182.11 | 2927.82 | 2665.64 | 2410.89 |
| 315.0 | 4131.52 | 3910.64 | 3765.86 | 3512.04 | 3240.11 | 2962.16 | 2672.60 | 2396.50 | 2119.47 |
| 360.0 | 4216.90 | 4027.58 | 3822.48 | 3596.49 | 3356.59 | 3118.07 | 2971.44 | 2625.27 | 2376.08 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 2232.23 | 1891.63 | 1752.42 | 1534.33 | 1338.50 | 1181.66 | 1062.40 | 891.59 | 891.59 |
| 45.0 | 2682.35 | 2452.18 | 2233.16 | 2013.21 | 1802.54 | 1681.43 | 1428.06 | 1281.89 | 1211.36 |
| 90.0 | 2570.05 | 2334.78 | 2098.13 | 1860.08 | 1630.38 | 1425.28 | 1248.95 | 1113.91 | 903.94 |
| 135.0 | 2660.54 | 2385.36 | 2116.69 | 1849.41 | 1598.83 | 1370.99 | 1174.24 | 1019.71 | 909.27 |
| 180.0 | 2518.08 | 2277.24 | 2043.37 | 1817.39 | 1601.15 | 1409.50 | 1245.23 | 1115.77 | 1017.86 |
| 225.0 | 2002.54 | 1746.39 | 1593.26 | 1418.78 | 1274.93 | 1162.64 | 1074.01 | 922.27 | 910.48 |
| 270.0 | 2156.60 | 1907.87 | 1674.00 | 1459.62 | 1275.86 | 1124.59 | 1011.82 | 959.85 | 863.33 |
| 315.0 | 1852.19 | 1596.04 | 1359.39 | 1162.64 | 891.87 | 891.87 | 824.03 | 774.61 | 749.51 |
| 360.0 | 2232.23 | 1891.63 | 1752.42 | 1534.33 | 1338.50 | 1181.66 | 1062.40 | 891.59 | 891.59 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 834.70 | 787.88 | 740.23 | 677.16 | 597.49 | 514.94 | 429.46 | 346.59 | 296.42 |
| 45.0 | 1079.11 | 1032.24 | 963.57 | 902.78 | 850.34 | 788.62 | 710.67 | 621.57 | 529.69 |
| 90.0 | 903.94 | 864.96 | 811.59 | 774.89 | 712.89 | 642.59 | 574.52 | 472.76 | 406.26 |
| 135.0 | 833.64 | 780.74 | 740.37 | 714.84 | 681.90 | 646.63 | 598.84 | 528.30 | 453.13 |
| 180.0 | 939.90 | 876.79 | 834.10 | 788.62 | 741.29 | 674.47 | 595.12 | 511.60 | 425.29 |
| 225.0 | 889.00 | 839.90 | 775.40 | 693.36 | 606.26 | 551.78 | 459.63 | 334.20 | 283.76 |
| 270.0 | 810.43 | 781.66 | 740.83 | 691.18 | 625.29 | 546.86 | 462.87 | 378.42 | 296.75 |
| 315.0 | 706.91 | 691.36 | 659.30 | 601.94 | 533.04 | 457.26 | 380.41 | 300.65 | 223.25 |
| 360.0 | 834.70 | 787.88 | 740.23 | 677.16 | 597.49 | 514.94 | 429.46 | 346.59 | 296.42 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 217.03 | 143.62 | 82.13 | 37.17 | 20.46 | 16.33 | 12.16 | 9.61 | 7.93 |
| 45.0 | 438.74 | 350.11 | 264.27 | 264.27 | 232.25 | 71.55 | 39.81 | 35.45 | 28.63 |
| 90.0 | 321.39 | 239.67 | 163.34 | 96.70 | 47.93 | 22.37 | 17.54 | 13.41 | 10.53 |
| 135.0 | 373.78 | 294.43 | 248.95 | 248.95 | 83.02 | 35.54 | 14.99 | 11.93 | 9.47 |
| 180.0 | 339.90 | 259.16 | 259.16 | 111.79 | 59.30 | 28.49 | 22.18 | 19.44 | 13.50 |
| 225.0 | 204.96 | 134.89 | 79.21 | 48.45 | 39.91 | 32.99 | 27.15 | 23.20 | 19.86 |
| 270.0 | 250.35 | 250.35 | 79.54 | 35.59 | 18.70 | 14.90 | 11.09 | 8.86 | 7.05 |
| 315.0 | 151.09 | 88.21 | 37.54 | 14.06 | 10.53 | 8.07 | 5.75 | 4.69 | 3.90 |
| 360.0 | 217.03 | 143.62 | 82.13 | 37.17 | 20.46 | 16.33 | 12.16 | 9.61 | 7.93 |

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 | 6.73 | 5.89 | 5.24 | 4.73 | 4.22 | 3.81 | 3.57 | 3.29 | 3.20 |
| 45.0 | 21.76 | 19.58 | 16.66 | 14.48 | 12.62 | 11.09 | 9.79 | 8.72 | 7.84 |
| 90.0 | 9.00 | 7.70 | 7.01 | 6.50 | 5.99 | 5.71 | 5.48 | 5.24 | 5.06 |
| 135.0 | 7.84 | 5.99 | 5.01 | 4.73 | 4.18 | 3.76 | 3.43 | 3.16 | 2.97 |
| 180.0 | 11.00 | 9.70 | 8.21 | 7.15 | 6.31 | 5.61 | 4.97 | 4.55 | 4.18 |
| 225.0 | 17.35 | 15.36 | 13.69 | 12.11 | 10.81 | 9.74 | 9.05 | 8.12 | 7.42 |
| 270.0 | 5.99 | 5.43 | 4.83 | 4.45 | 4.08 | 3.76 | 3.53 | 3.34 | 3.11 |
| 315.0 | 3.48 | 3.20 | 3.06 | 2.83 | 2.60 | 2.55 | 2.37 | 2.23 | 2.13 |
| 360.0 | 6.73 | 5.89 | 5.24 | 4.73 | 4.22 | 3.81 | 3.57 | 3.29 | 3.20 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 2.88 | 2.78 | 2.69 | 2.60 | 2.51 | 2.46 | 2.41 | 2.41 | 2.37 |
| 45.0 | 7.15 | 6.59 | 6.08 | 5.66 | 5.34 | 5.15 | 4.97 | 4.73 | 4.69 |
| 90.0 | 4.97 | 4.83 | 4.78 | 4.73 | 4.59 | 4.59 | 4.55 | 4.36 | 4.27 |
| 135.0 | 2.97 | 3.02 | 3.02 | 3.02 | 3.16 | 3.25 | 3.25 | 3.39 | 3.48 |
| 180.0 | 3.90 | 3.57 | 3.39 | 3.29 | 3.25 | 3.20 | 3.20 | 3.20 | 3.20 |
| 225.0 | 7.01 | 6.45 | 6.13 | 5.80 | 5.43 | 5.20 | 4.97 | 4.73 | 4.55 |
| 270.0 | 2.97 | 2.88 | 2.69 | 2.60 | 2.55 | 2.55 | 2.46 | 2.41 | 2.37 |
| 315.0 | 2.09 | 1.95 | 1.86 | 1.81 | 1.76 | 1.76 | 1.67 | 1.62 | 1.62 |
| 360.0 | 2.88 | 2.78 | 2.69 | 2.60 | 2.51 | 2.46 | 2.41 | 2.41 | 2.37 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 2.32 | 2.32 | 2.37 | 2.32 | 2.27 | 2.23 | 2.13 | 1.95 | 1.76 |
| 45.0 | 4.41 | 4.32 | 4.18 | 4.13 | 3.94 | 3.81 | 3.62 | 3.48 | 3.25 |
| 90.0 | 4.18 | 4.13 | 3.99 | 3.85 | 3.85 | 3.67 | 3.43 | 3.20 | 2.97 |
| 135.0 | 3.53 | 3.48 | 3.43 | 3.39 | 3.25 | 3.11 | 2.97 | 2.92 | 2.78 |
| 180.0 | 3.16 | 3.16 | 3.20 | 3.29 | 3.25 | 3.11 | 3.02 | 2.88 | 2.74 |
| 225.0 | 4.27 | 4.04 | 3.85 | 3.57 | 3.29 | 3.11 | 2.78 | 2.51 | 2.13 |
| 270.0 | 2.37 | 2.32 | 2.32 | 2.32 | 2.23 | 2.18 | 2.13 | 2.00 | 1.72 |
| 315.0 | 1.67 | 1.62 | 1.58 | 1.58 | 1.58 | 1.53 | 1.39 | 1.30 | 1.25 |
| 360.0 | 2.32 | 2.32 | 2.37 | 2.32 | 2.27 | 2.23 | 2.13 | 1.95 | 1.76 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 1.67 | 1.48 | 1.30 | 1.16 | 1.07 | 0.97 | 0.93 | 0.88 | 0.84 |
| 45.0 | 2.92 | 2.64 | 2.41 | 2.09 | 1.76 | 1.48 | 1.30 | 1.16 | 1.02 |
| 90.0 | 2.64 | 2.27 | 2.04 | 1.86 | 1.53 | 1.39 | 1.11 | 1.07 | 1.02 |
| 135.0 | 2.51 | 2.32 | 2.04 | 1.86 | 1.58 | 1.30 | 1.11 | 0.97 | 0.88 |
| 180.0 | 2.51 | 2.27 | 2.00 | 1.76 | 1.48 | 1.21 | 1.02 | 0.97 | 0.93 |
| 225.0 | 1.86 | 1.62 | 1.39 | 1.21 | 0.97 | 0.93 | 0.84 | 0.84 | 0.79 |
| 270.0 | 1.58 | 1.44 | 1.30 | 1.07 | 0.88 | 0.84 | 0.79 | 0.74 | 0.65 |
| 315.0 | 1.21 | 1.16 | 0.97 | 0.84 | 0.79 | 0.74 | 0.70 | 0.60 | 0.60 |
| 360.0 | 1.67 | 1.48 | 1.30 | 1.16 | 1.07 | 0.97 | 0.93 | 0.88 | 0.84 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 0.84 | 0.74 | 0.74 | 0.60 | 0.60 | 0.60 | 0.84 | 1.25 | 1.02 |
| 45.0 | 0.97 | 0.97 | 0.84 | 0.79 | 0.79 | 0.70 | 0.65 | 0.65 | 0.65 |
| 90.0 | 0.97 | 0.93 | 0.88 | 0.84 | 0.79 | 0.74 | 0.74 | 0.70 | 0.65 |
| 135.0 | 0.84 | 0.84 | 0.74 | 0.70 | 0.70 | 0.70 | 0.65 | 0.60 | 0.60 |
| 180.0 | 0.88 | 0.79 | 0.79 | 0.74 | 0.65 | 0.70 | 0.65 | 0.60 | 0.46 |
| 225.0 | 0.74 | 0.74 | 0.70 | 0.60 | 0.56 | 0.60 | 0.60 | 0.60 | 0.51 |
| 270.0 | 0.60 | 0.60 | 0.56 | 0.56 | 0.51 | 0.51 | 0.46 | 0.51 | 0.46 |
| 315.0 | 0.60 | 0.56 | 0.51 | 0.51 | 0.56 | 0.46 | 0.46 | 0.42 | 0.37 |
| 360.0 | 0.84 | 0.74 | 0.74 | 0.60 | 0.60 | 0.60 | 0.84 | 1.25 | 1.02 |

Intensity data(cd)

| | |
|-----------------|------|
| C/ γ (°) | 90.0 |
| 0.0 | 0.84 |
| 45.0 | 0.65 |
| 90.0 | 0.65 |
| 135.0 | 0.65 |
| 180.0 | 0.51 |
| 225.0 | 0.51 |
| 270.0 | 0.42 |
| 315.0 | 0.42 |
| 360.0 | 0.84 |