



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.cn
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380 JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 2-1538-A
Luminaire: 92.76.323.00
Report No: NT2017030701
Test No: GC2017030701
LampCAT: PHILIPS SLM G6 1208
Lamp flux(lm): 2505.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 34.7000
Current(A): 0.6200
Power (W): 21.5140
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 2282.59
Efficiency(%): 91.12%
Lumens(lm)/Power(W): 106.10
Central intensity(cd): 2488.412
Maximum intensity(cd): 2488.412
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=62.6
 [C90/270]Total=62.6
Field angle(10%Imax): [C0/180]Total=82.5
 [C90/270]Total=82.5
Maximum s/h(1/2): C0_180=0.97 C90_270=0.97
Maximum s/h(1/4): C0_180=0.93 C90_270=0.93
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.63%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.130%

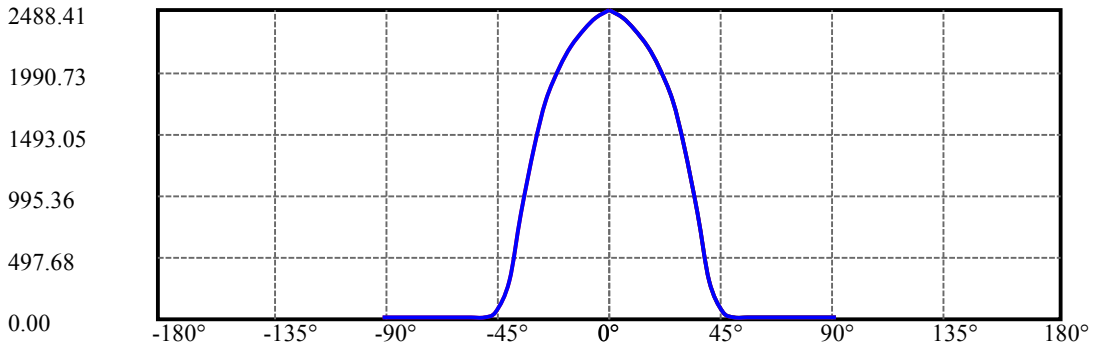
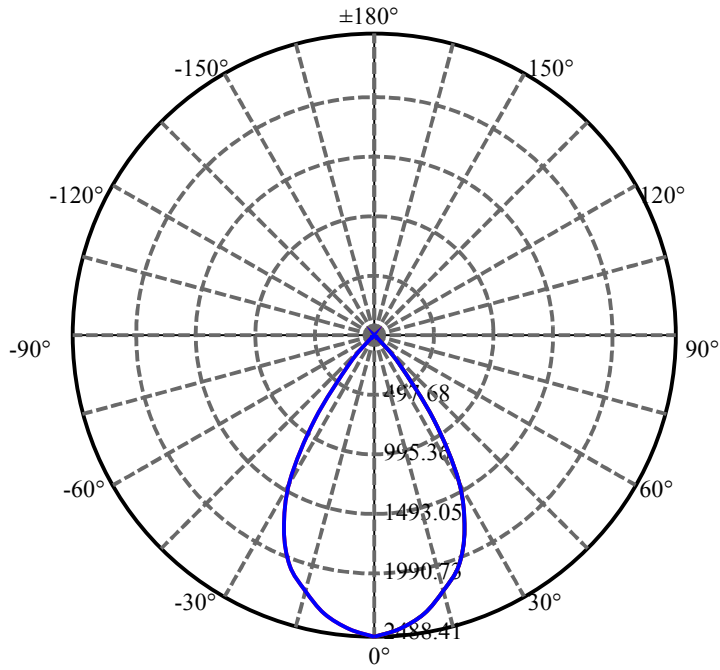
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 2488.412 | 14.881 | 14.881 | .594% | .652% |
| 5.0 | 2429.501 | 116.065 | 130.947 | 4.633% | 5.737% |
| 10.0 | 2332.740 | 222.037 | 352.984 | 8.864% | 15.464% |
| 15.0 | 2188.974 | 310.546 | 663.53 | 12.397% | 29.069% |
| 20.0 | 2017.060 | 378.146 | 1041.676 | 15.096% | 45.636% |
| 25.0 | 1761.117 | 407.968 | 1449.644 | 16.286% | 63.509% |
| 30.0 | 1385.632 | 379.758 | 1829.402 | 15.160% | 80.146% |
| 35.0 | 849.747 | 267.159 | 2096.562 | 10.665% | 91.850% |
| 40.0 | 309.286 | 108.973 | 2205.535 | 4.350% | 96.624% |
| 45.0 | 66.370 | 25.725 | 2231.259 | 1.027% | 97.751% |
| 50.0 | 22.208 | 9.325 | 2240.584 | .372% | 98.160% |
| 55.0 | 13.840 | 6.214 | 2246.799 | .248% | 98.432% |
| 60.0 | 11.755 | 5.580 | 2252.379 | .223% | 98.677% |
| 65.0 | 11.156 | 5.542 | 2257.92 | .221% | 98.919% |
| 70.0 | 10.715 | 5.519 | 2263.44 | .220% | 99.161% |
| 75.0 | 10.468 | 5.542 | 2268.982 | .221% | 99.404% |
| 80.0 | 10.206 | 5.509 | 2274.491 | .220% | 99.645% |
| 85.0 | 9.958 | 5.438 | 2279.929 | .217% | 99.883% |
| 90.0 | 9.704 | 2.659 | 2282.589 | .106% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1829.40 | 73.03% | 80.15% |
| 0-40 | 2205.53 | 88.05% | 96.62% |
| 0-60 | 2252.38 | 89.92% | 98.68% |
| 0-90 | 2279.93 | 91.02% | 99.88% |
| 0-120 | 2279.93 | 91.02% | 99.88% |
| 0-180 | 2282.59 | 91.12% | 100.00% |
| 60-90 | 33.13 | 1.32% | 1.45% |
| 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% |
| 0-29.96 | 1826.07 | 72.90% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 352.98 |
| 10-20 | 688.69 |
| 20-30 | 787.73 |
| 30-40 | 376.13 |
| 40-50 | 35.05 |
| 50-60 | 11.79 |
| 60-70 | 11.06 |
| 70-80 | 11.05 |
| 80-90 | 5.44 |
| 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 |



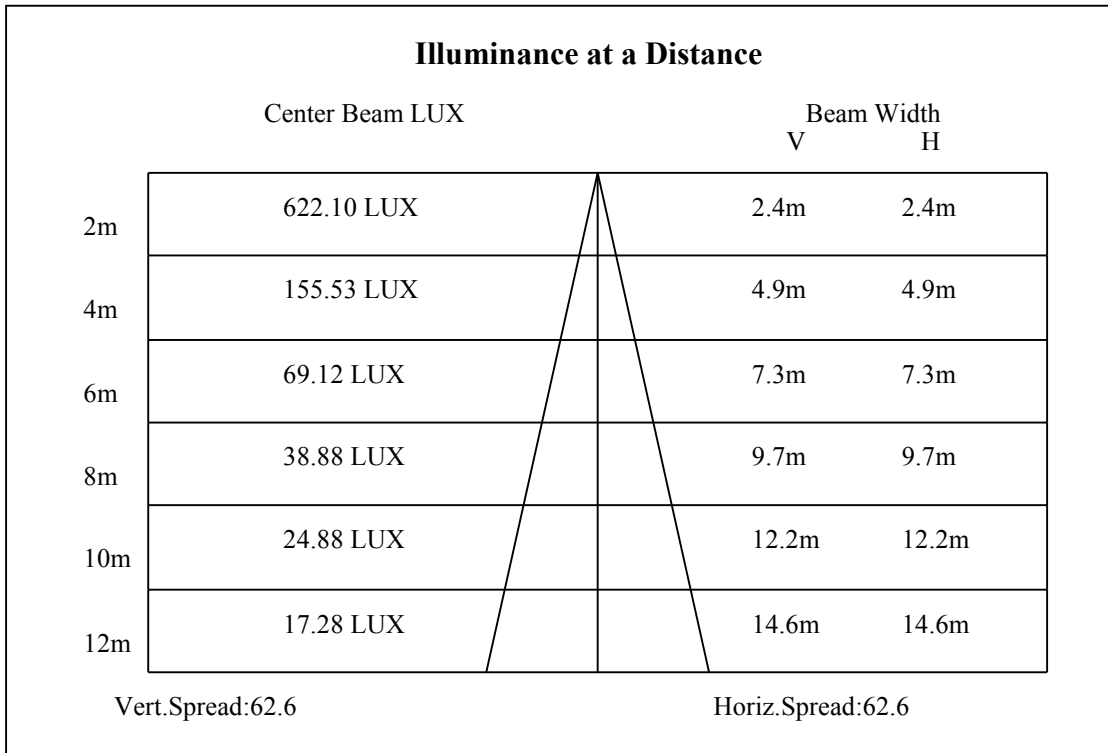
C0(Max): —————

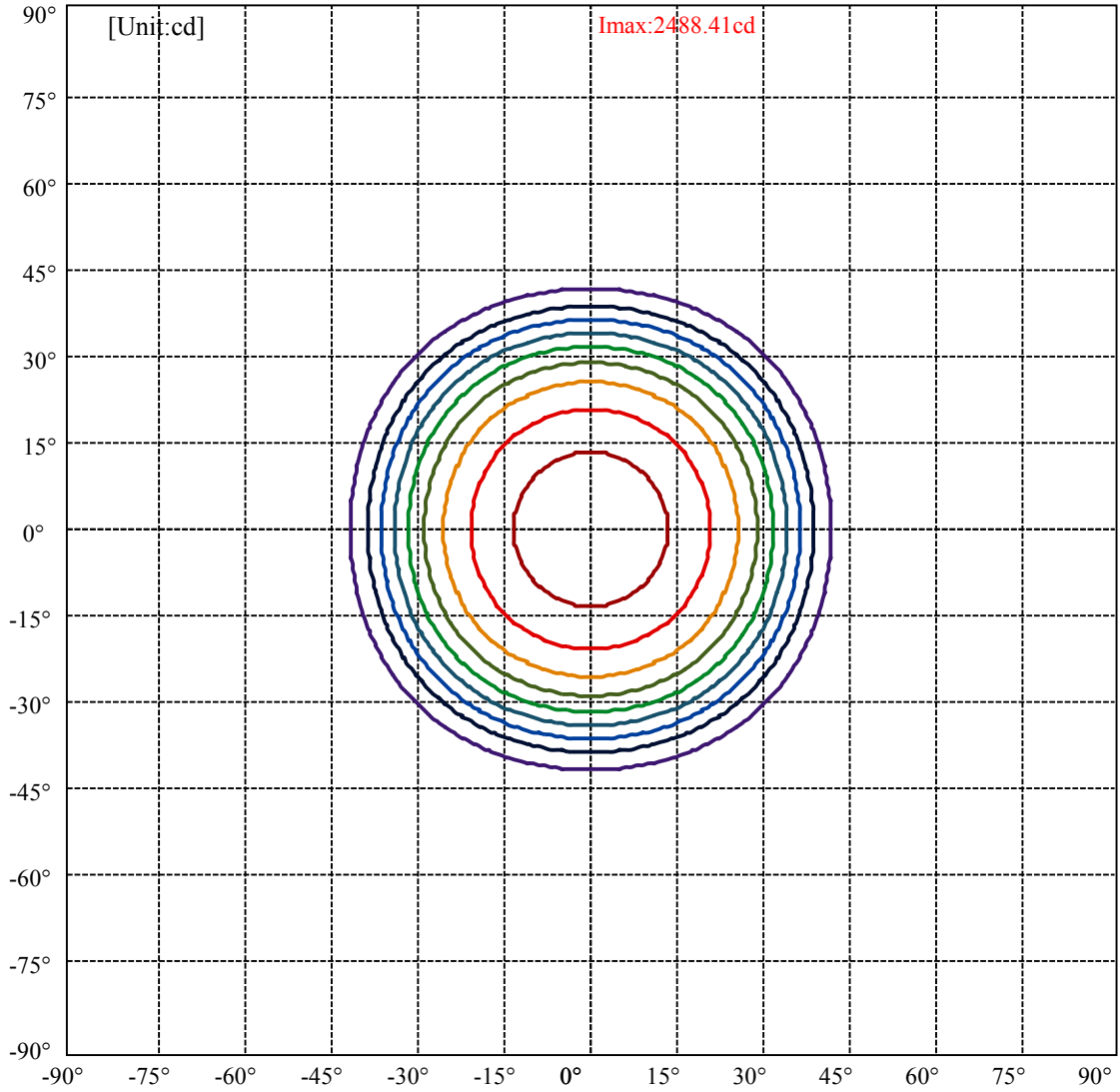
C0/C180: —————

C90/C270: —————

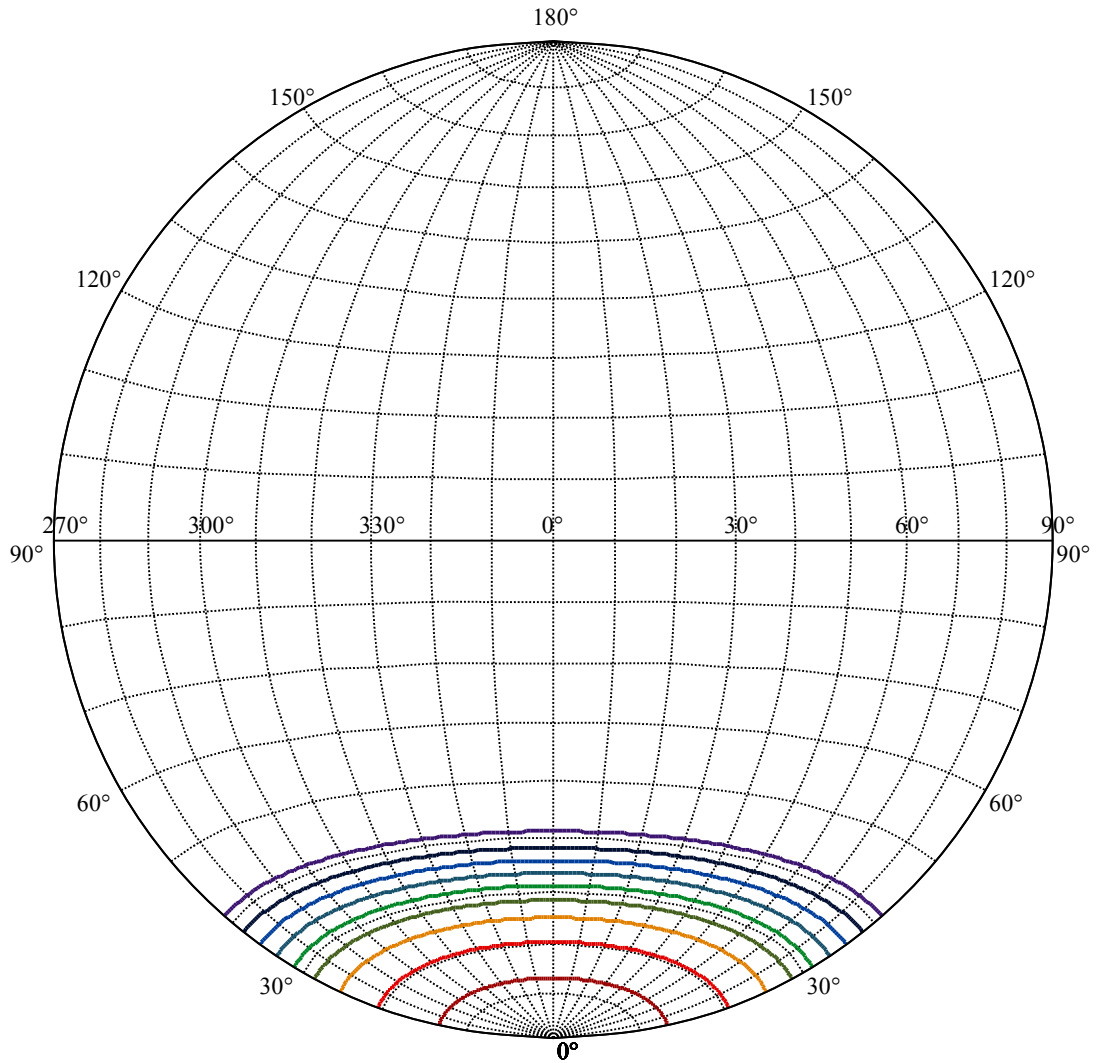
Field angle(10%Imax):C0/180Left:41.2 Right:41.2
:C90/270Left:41.2 Right:41.2

Beam Angle(50%Imax):C0/180Left:31.3 Right:31.3
:C90/270Left:31.3 Right:31.3





| | |
|-------------------|---|
| (10%Imax) 248.841 | — |
| (20%Imax) 497.682 | — |
| (30%Imax) 746.524 | — |
| (40%Imax) 995.365 | — |
| (50%Imax) 1244.21 | — |
| (60%Imax) 1493.05 | — |
| (70%Imax) 1741.89 | — |
| (80%Imax) 1990.73 | — |
| (90%Imax) 2239.57 | — |



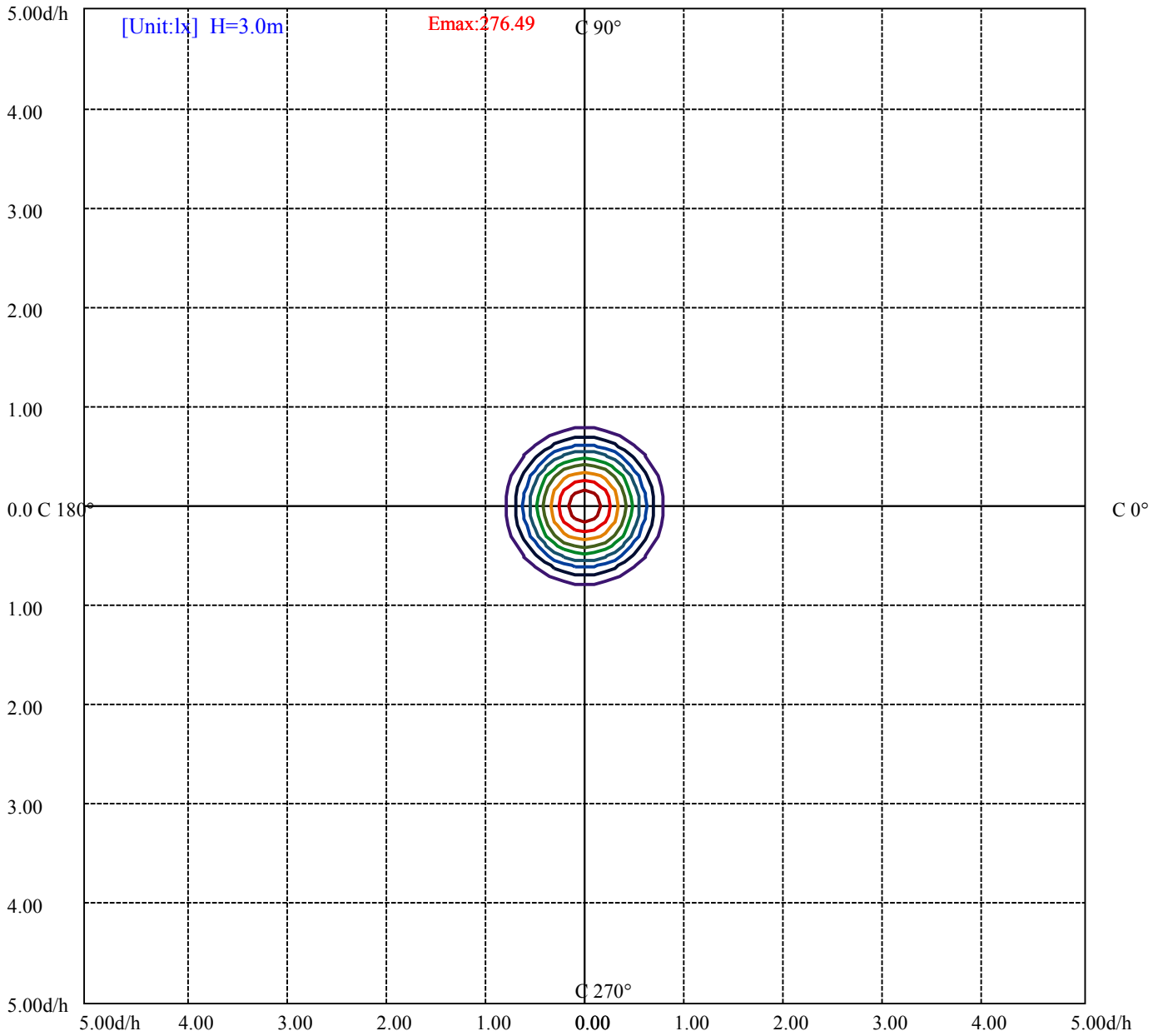
House

[Unit:cd]

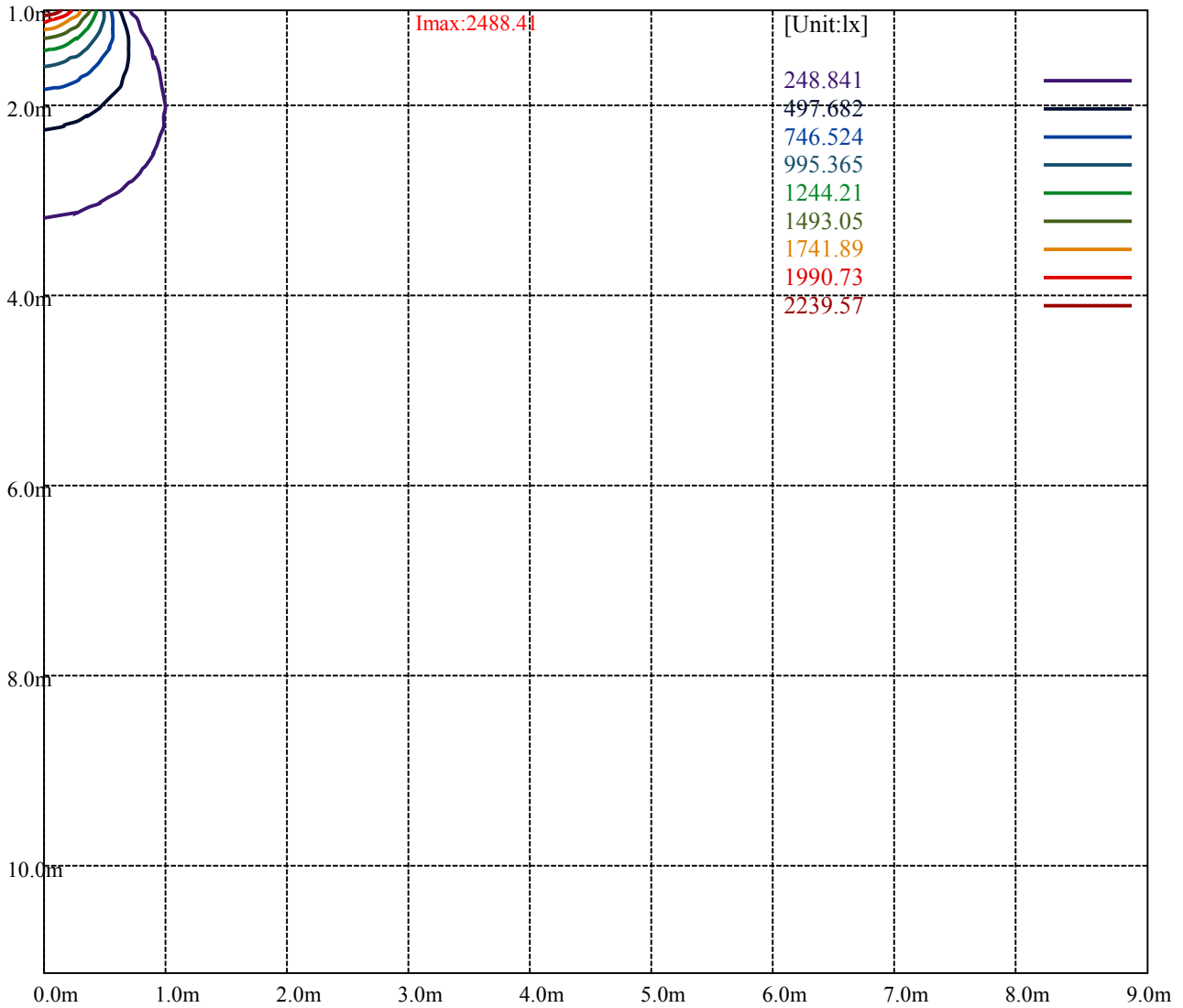
Road

Imax:2488.41

| | |
|-------------------|---|
| (10%Imax) 248.841 | — |
| (20%Imax) 497.682 | — |
| (30%Imax) 746.524 | — |
| (40%Imax) 995.365 | — |
| (50%Imax) 1244.21 | — |
| (60%Imax) 1493.05 | — |
| (70%Imax) 1741.89 | — |
| (80%Imax) 1990.73 | — |
| (90%Imax) 2239.57 | — |



- (10%Emax) 27.649
- (20%Emax) 55.298
- (30%Emax) 82.947
- (40%Emax) 110.596
- (50%Emax) 138.2455
- (60%Emax) 165.8945
- (70%Emax) 193.5433
- (80%Emax) 221.1922
- (90%Emax) 248.8411



Luminance Table

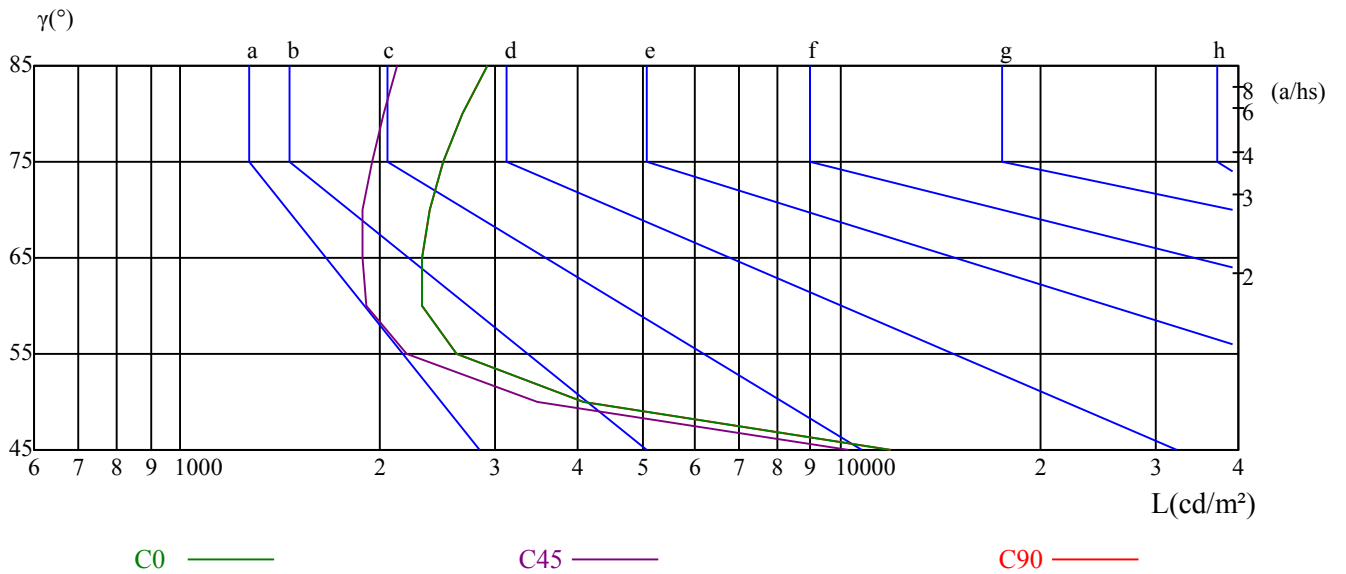
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|-------|------|------|------|------|------|------|------|------|
| C0 | 11866 | 4071 | 2623 | 2325 | 2325 | 2379 | 2507 | 2675 | 2907 |
| C45 | 10251 | 3464 | 2198 | 1916 | 1882 | 1888 | 1946 | 2024 | 2133 |
| C90 | 11866 | 4071 | 2623 | 2325 | 2325 | 2379 | 2507 | 2675 | 2907 |

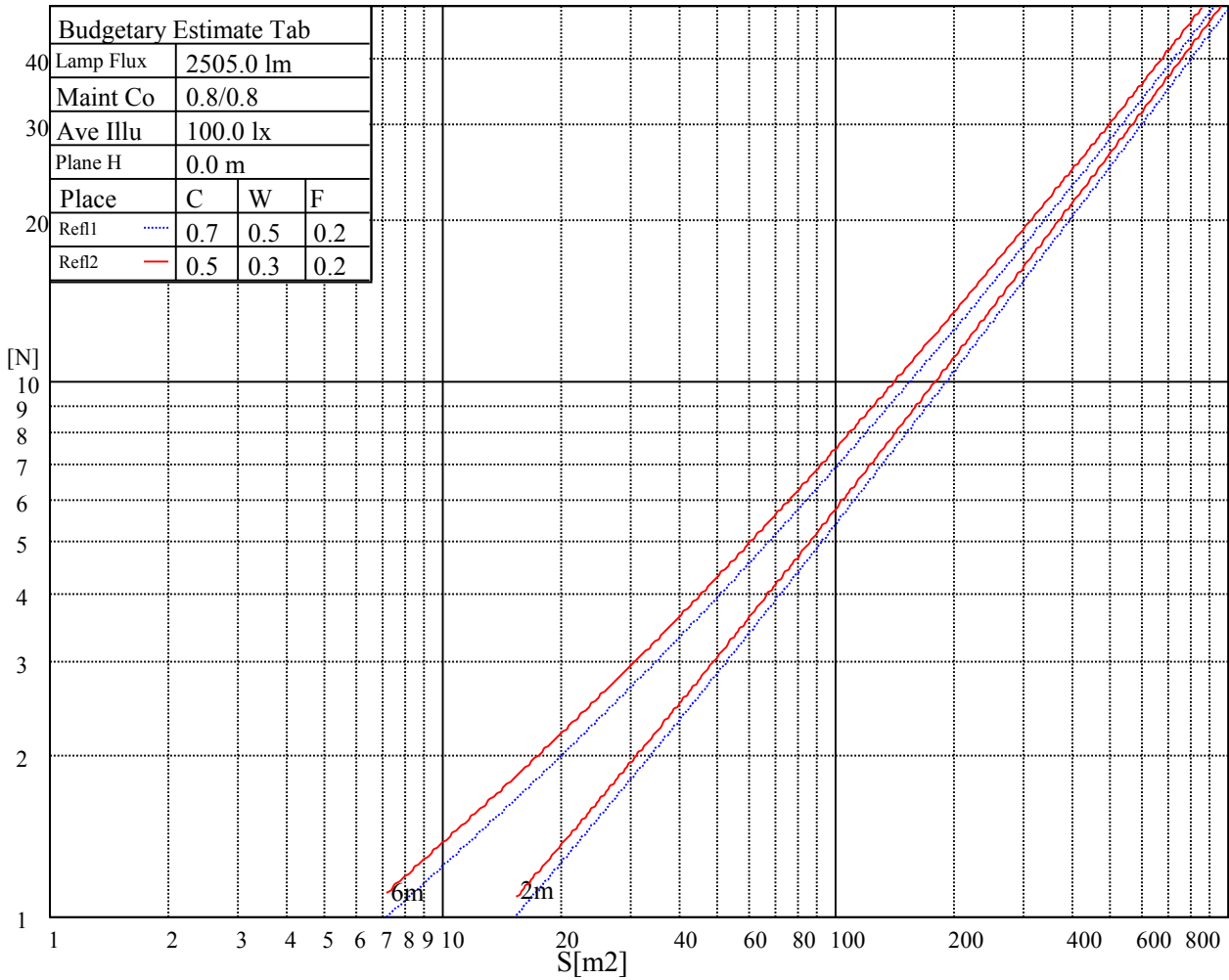
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 5387 | 5387 | 5387 | 8254 | 8254 | 8254 | 23318 | 23318 | 23318 |

Glare Table

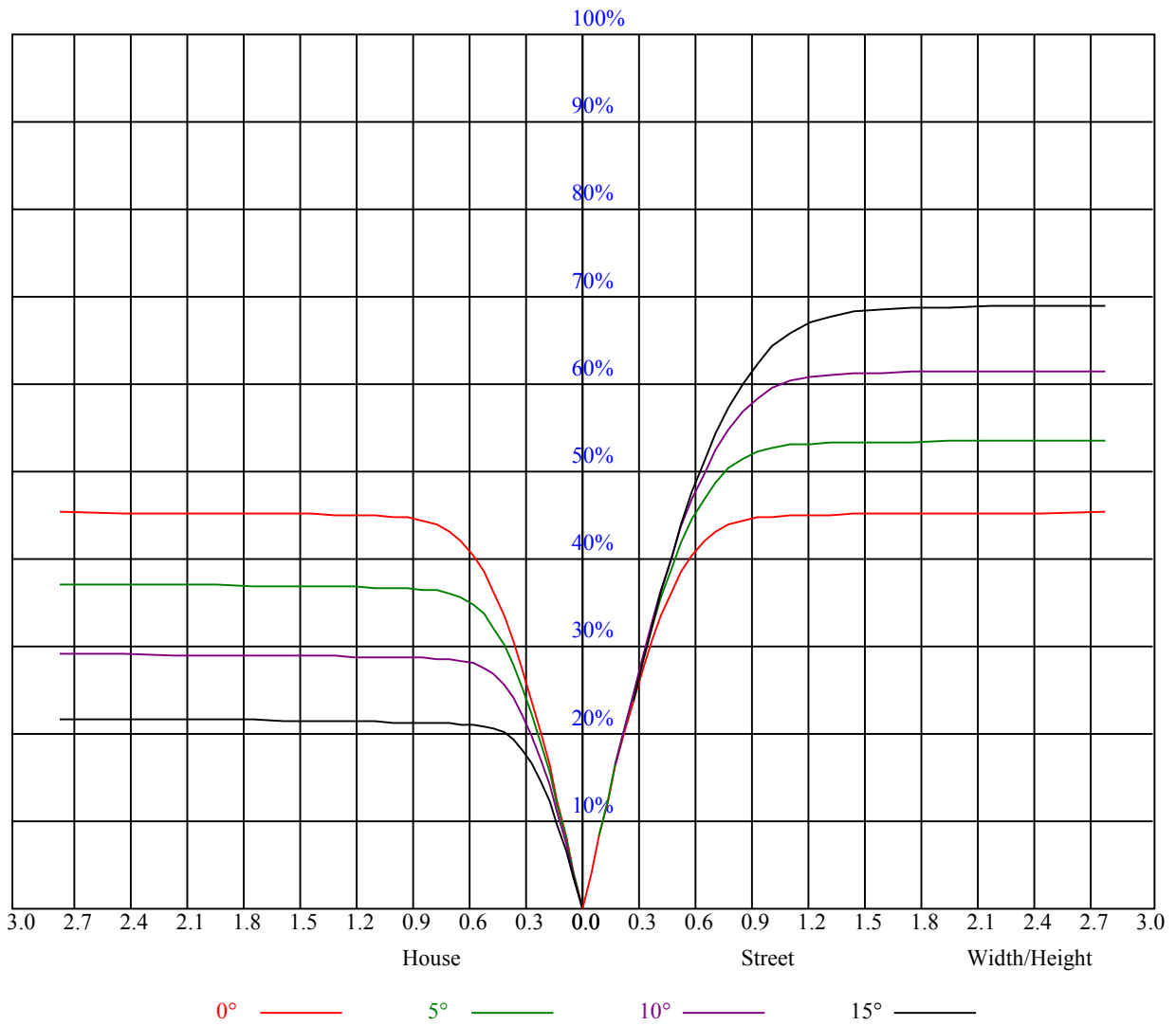
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| | | a | b | c | d | e | f | g | h |
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 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 | 1.09 | 1.09 | 1.09 | 1.07 | 1.07 | 1.07 | 1.02 | 1.02 | 1.02 | 0.97 | 0.97 | 0.97 | 0.93 | 0.93 | 0.93 | 0.92 |
| 1 | 1.01 | 0.99 | 0.96 | 0.99 | 0.97 | 0.95 | 0.95 | 0.94 | 0.92 | 0.92 | 0.91 | 0.89 | 0.89 | 0.88 | 0.87 | 0.85 |
| 2 | 0.94 | 0.91 | 0.88 | 0.93 | 0.90 | 0.87 | 0.90 | 0.87 | 0.85 | 0.87 | 0.85 | 0.83 | 0.85 | 0.83 | 0.81 | 0.80 |
| 3 | 0.89 | 0.84 | 0.81 | 0.87 | 0.83 | 0.80 | 0.85 | 0.82 | 0.79 | 0.83 | 0.80 | 0.78 | 0.81 | 0.78 | 0.76 | 0.75 |
| 4 | 0.83 | 0.79 | 0.75 | 0.82 | 0.78 | 0.74 | 0.80 | 0.77 | 0.74 | 0.79 | 0.75 | 0.73 | 0.77 | 0.74 | 0.72 | 0.71 |
| 5 | 0.79 | 0.74 | 0.70 | 0.78 | 0.73 | 0.70 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.68 | 0.73 | 0.70 | 0.68 | 0.66 |
| 6 | 0.74 | 0.69 | 0.66 | 0.74 | 0.69 | 0.65 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.64 | 0.70 | 0.67 | 0.64 | 0.63 |
| 7 | 0.70 | 0.65 | 0.62 | 0.70 | 0.65 | 0.62 | 0.69 | 0.64 | 0.61 | 0.68 | 0.64 | 0.61 | 0.67 | 0.63 | 0.61 | 0.59 |
| 8 | 0.67 | 0.62 | 0.58 | 0.66 | 0.61 | 0.58 | 0.65 | 0.61 | 0.58 | 0.64 | 0.61 | 0.58 | 0.64 | 0.60 | 0.57 | 0.56 |
| 9 | 0.64 | 0.59 | 0.55 | 0.63 | 0.58 | 0.55 | 0.62 | 0.58 | 0.55 | 0.62 | 0.58 | 0.55 | 0.61 | 0.57 | 0.54 | 0.53 |
| 10 | 0.61 | 0.56 | 0.52 | 0.60 | 0.55 | 0.52 | 0.59 | 0.55 | 0.52 | 0.59 | 0.55 | 0.52 | 0.58 | 0.54 | 0.52 | 0.51 |



Intensity data(cd)

| C/γ(°) | 0.0 | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 |
|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0.0 | 2492.40 | 2409.82 | 2301.91 | 2144.45 | 1967.17 | 1732.07 | 1371.45 | 795.01 | 296.75 |
| 45.0 | 2489.65 | 2427.44 | 2311.82 | 2140.04 | 1964.41 | 1749.14 | 1412.20 | 856.68 | 318.78 |
| 90.0 | 2485.80 | 2419.18 | 2298.60 | 2136.74 | 1951.75 | 1691.88 | 1344.48 | 807.62 | 263.22 |
| 135.0 | 2485.80 | 2452.21 | 2364.67 | 2235.29 | 2071.77 | 1843.29 | 1482.12 | 985.51 | 452.01 |
| 180.0 | 2492.40 | 2447.26 | 2356.41 | 2233.09 | 2078.38 | 1814.66 | 1441.93 | 905.18 | 338.32 |
| 225.0 | 2489.65 | 2426.89 | 2348.71 | 2233.09 | 2063.51 | 1769.51 | 1385.22 | 844.57 | 266.09 |
| 270.0 | 2485.80 | 2442.85 | 2365.22 | 2229.23 | 2062.96 | 1802.55 | 1409.99 | 888.61 | 340.80 |
| 315.0 | 2485.80 | 2410.37 | 2314.57 | 2159.86 | 1976.52 | 1685.83 | 1237.67 | 714.80 | 198.31 |
| 360.0 | 2492.40 | 2409.82 | 2301.91 | 2144.45 | 1967.17 | 1732.07 | 1371.45 | 795.01 | 296.75 |

| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 65.96 | 23.73 | 14.20 | 11.78 | 11.07 | 10.63 | 10.35 | 10.08 | 9.91 |
| 45.0 | 72.12 | 24.78 | 14.76 | 12.11 | 11.56 | 10.79 | 10.41 | 10.08 | 9.91 |
| 90.0 | 65.85 | 24.39 | 14.42 | 11.89 | 11.40 | 11.18 | 11.56 | 11.12 | 10.35 |
| 135.0 | 80.11 | 24.28 | 14.04 | 11.78 | 11.07 | 10.68 | 10.35 | 10.13 | 9.91 |
| 180.0 | 69.70 | 20.48 | 13.16 | 11.56 | 10.90 | 10.57 | 10.24 | 10.08 | 9.86 |
| 225.0 | 61.72 | 19.66 | 13.16 | 11.62 | 11.01 | 10.63 | 10.24 | 10.02 | 9.86 |
| 270.0 | 61.66 | 20.65 | 13.82 | 11.84 | 11.34 | 10.68 | 10.30 | 10.08 | 9.91 |
| 315.0 | 53.85 | 19.71 | 13.16 | 11.45 | 10.90 | 10.57 | 10.30 | 10.08 | 9.97 |
| 360.0 | 65.96 | 23.73 | 14.20 | 11.78 | 11.07 | 10.63 | 10.35 | 10.08 | 9.91 |

| C/γ(°) | 90.0 |
|--------|------|
| 0.0 | 9.69 |
| 45.0 | 9.69 |
| 90.0 | 9.69 |
| 135.0 | 9.69 |
| 180.0 | 9.69 |
| 225.0 | 9.69 |
| 270.0 | 9.74 |
| 315.0 | 9.74 |
| 360.0 | 9.69 |