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NATA

LumCAT: 2-1567-M
Luminaire: BJB47.319.2344
Report No: NT2017061701
Test No: GC2017061701
LampCAT: Certaflux SLM 1208 L14 G1
Lamp flux(lm): 2401.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 34.4000
Current(A): 0.5000
Power (W): 17.2000
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 2194.19
Efficiency(%): 91.39%
Lumens(lm)/Power(W): 127.57
Central intensity(cd): 7151.276
Maximum intensity(cd): 7162.838
Angle of maximum intensity: C=90.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=26.0
 [C90/270]Total=25.8
Field angle(10%Imax): [C0/180]Total=63.9
 [C90/270]Total=63.9
Maximum s/h(1/2): C0_180=0.44 C90_270=0.43
Maximum s/h(1/4): C0_180=0.45 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.08%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.017%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/6/17
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

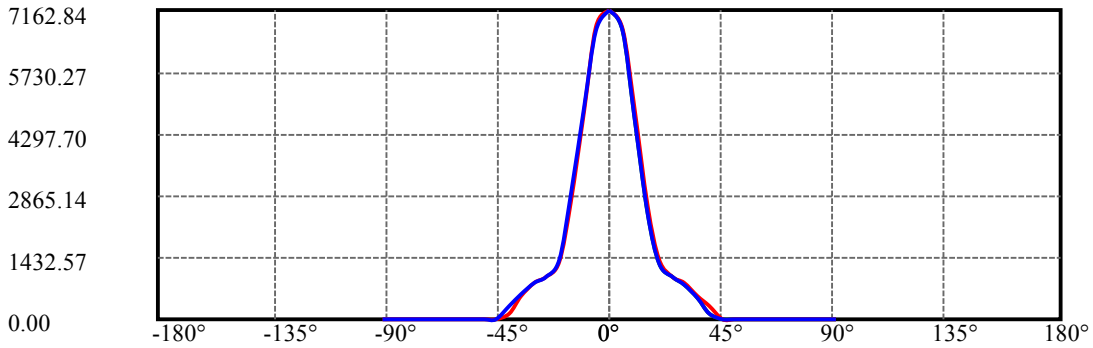
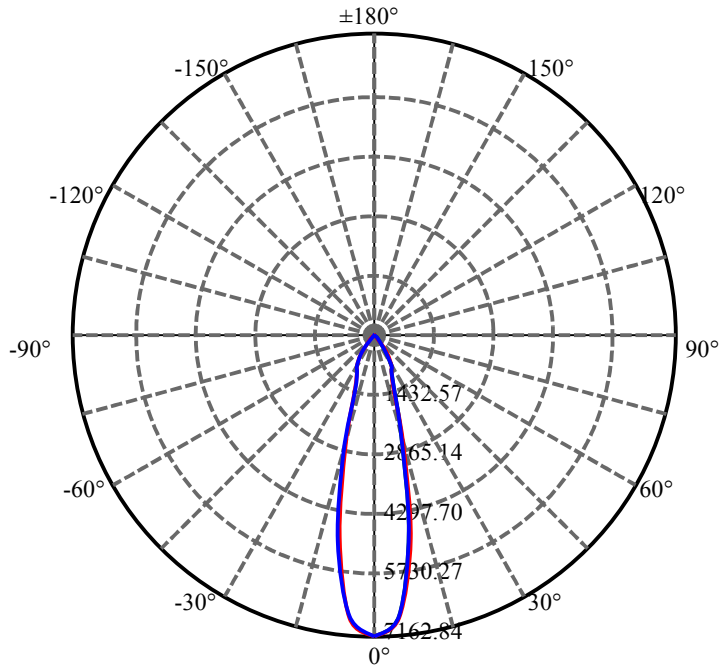
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 7155.267 | 42.790 | 42.79 | 1.782% | 1.950% |
| 5.0 | 6708.141 | 320.470 | 363.26 | 13.347% | 16.556% |
| 10.0 | 4871.459 | 463.680 | 826.94 | 19.312% | 37.688% |
| 15.0 | 2657.435 | 377.006 | 1203.946 | 15.702% | 54.870% |
| 20.0 | 1321.670 | 247.779 | 1451.725 | 10.320% | 66.162% |
| 25.0 | 979.151 | 226.823 | 1678.548 | 9.447% | 76.500% |
| 30.0 | 830.106 | 227.506 | 1906.054 | 9.475% | 86.868% |
| 35.0 | 532.891 | 167.540 | 2073.595 | 6.978% | 94.504% |
| 40.0 | 205.918 | 72.552 | 2146.147 | 3.022% | 97.811% |
| 45.0 | 19.421 | 7.527 | 2153.674 | .314% | 98.154% |
| 50.0 | 12.264 | 5.150 | 2158.824 | .214% | 98.388% |
| 55.0 | 10.516 | 4.722 | 2163.546 | .197% | 98.604% |
| 60.0 | 9.841 | 4.672 | 2168.217 | .195% | 98.816% |
| 65.0 | 9.387 | 4.663 | 2172.881 | .194% | 99.029% |
| 70.0 | 9.050 | 4.661 | 2177.542 | .194% | 99.241% |
| 75.0 | 8.885 | 4.704 | 2182.246 | .196% | 99.456% |
| 80.0 | 8.823 | 4.763 | 2187.009 | .198% | 99.673% |
| 85.0 | 8.781 | 4.795 | 2191.804 | .200% | 99.891% |
| 90.0 | 8.692 | 2.382 | 2194.186 | .099% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1906.05 | 79.39% | 86.87% |
| 0-40 | 2146.15 | 89.39% | 97.81% |
| 0-60 | 2168.22 | 90.30% | 98.82% |
| 0-90 | 2191.80 | 91.29% | 99.89% |
| 0-120 | 2191.80 | 91.29% | 99.89% |
| 0-180 | 2194.19 | 91.39% | 100.00% |
| 60-90 | 28.26 | 1.18% | 1.29% |
| 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% |
| 0-26.69 | 1755.35 | 73.11% | 80.00% |

ZONAL LUMEN SUMMARY

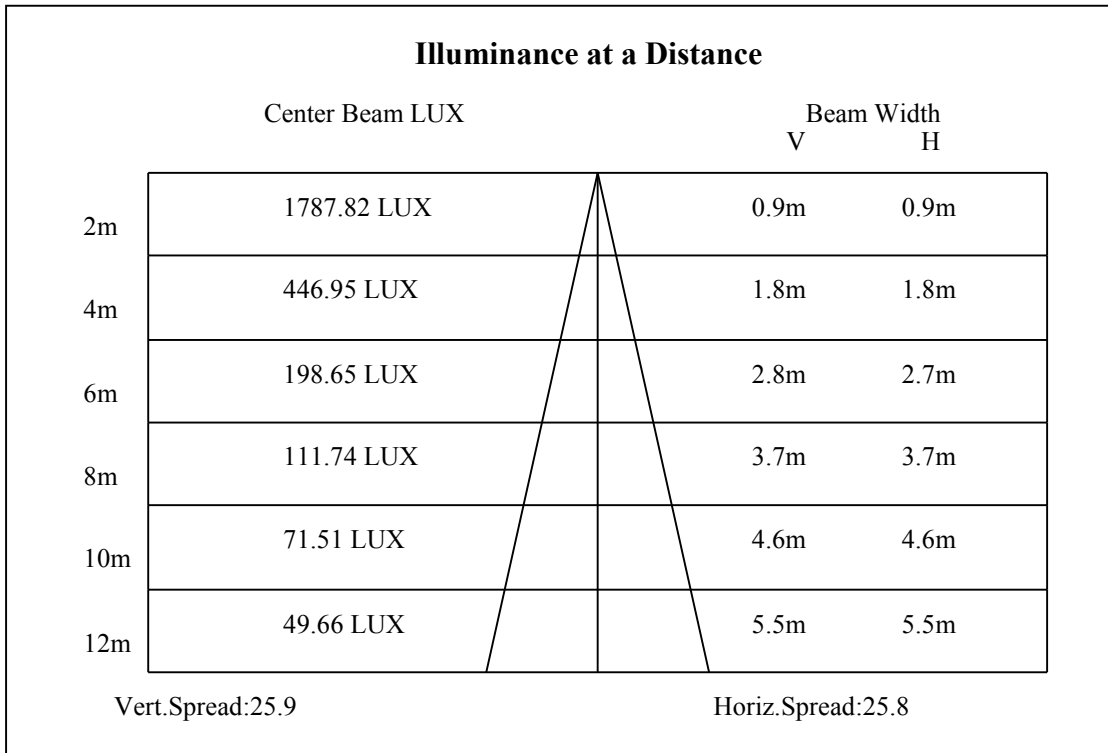
| | |
|---------|--------|
| 0-10 | 826.94 |
| 10-20 | 624.78 |
| 20-30 | 454.33 |
| 30-40 | 240.09 |
| 40-50 | 12.68 |
| 50-60 | 9.39 |
| 60-70 | 9.32 |
| 70-80 | 9.47 |
| 80-90 | 4.80 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

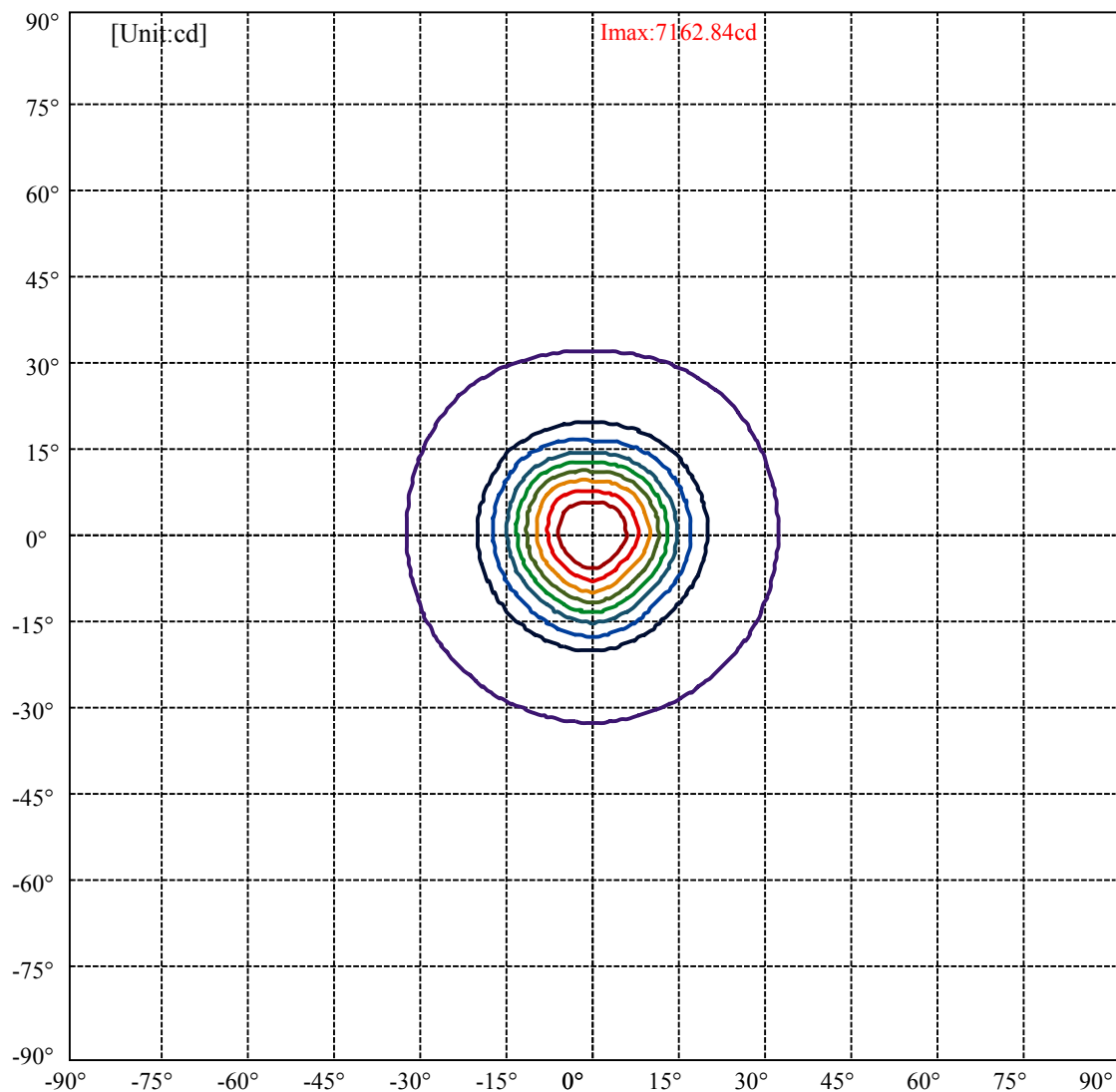


C90(Max): ———
 C0/C180: ———
 C90/C270: ———

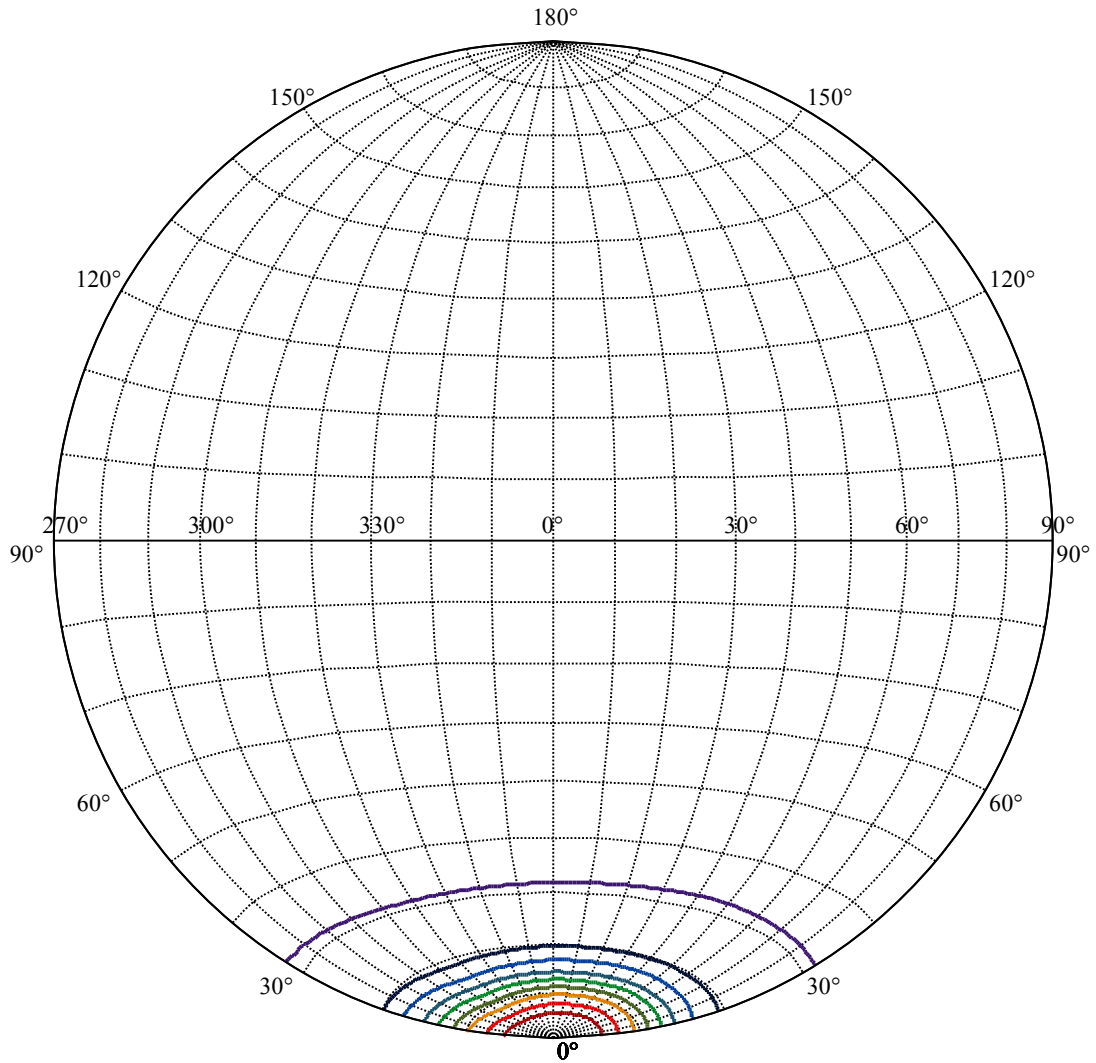
Field angle(10%Imax):C0/180Left:32.0 Right:31.9
 :C90/270Left:32.3 Right:31.6

Beam Angle(50%Imax):C0/180Left:13.0 Right:13.0
 :C90/270Left:13.3 Right:12.5





| | |
|-------------------|---|
| (10%Imax) 716.284 | — |
| (20%Imax) 1432.57 | — |
| (30%Imax) 2148.85 | — |
| (40%Imax) 2865.14 | — |
| (50%Imax) 3581.42 | — |
| (60%Imax) 4297.7 | — |
| (70%Imax) 5013.99 | — |
| (80%Imax) 5730.27 | — |
| (90%Imax) 6446.55 | — |



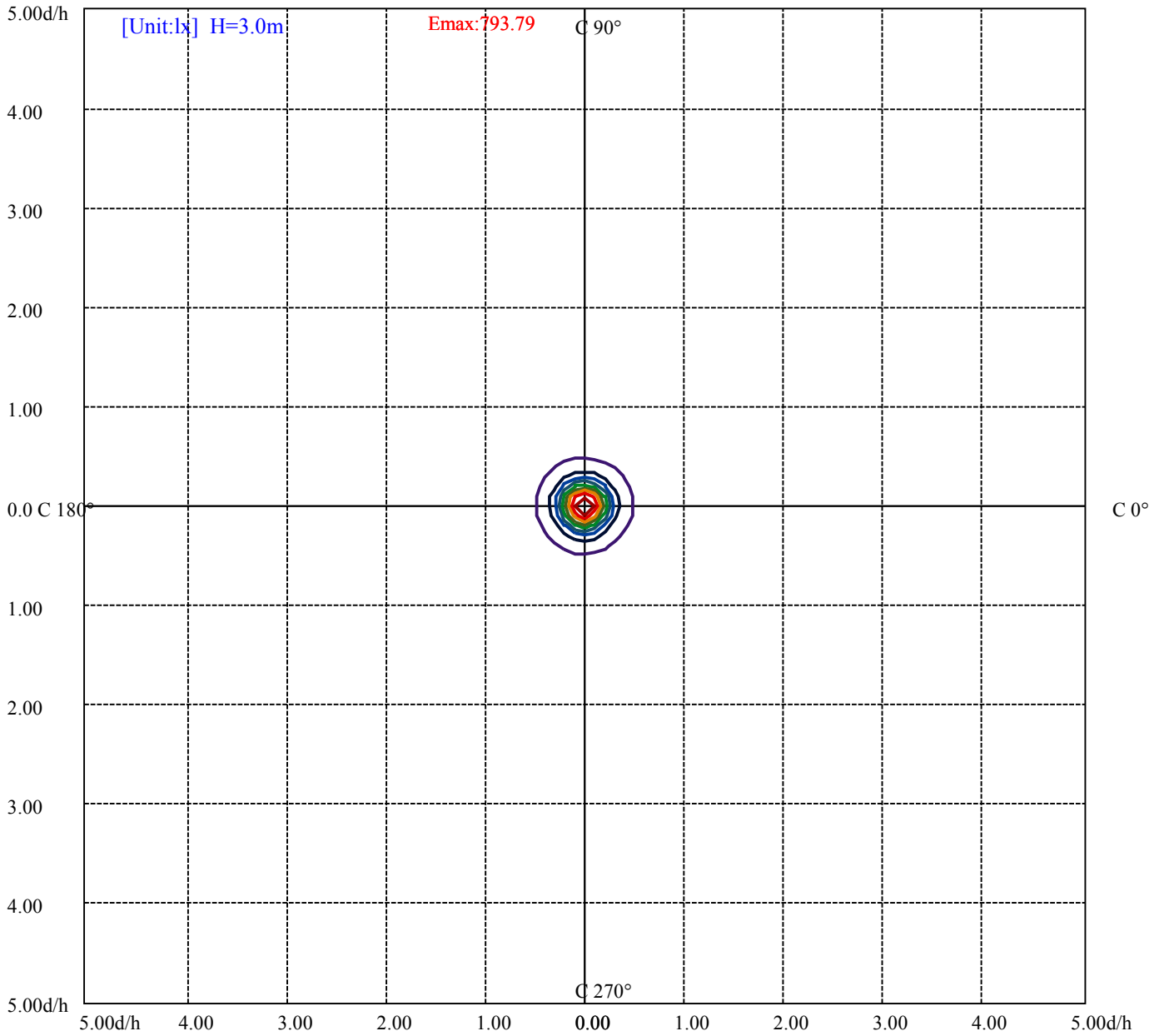
House

[Unit:cd]

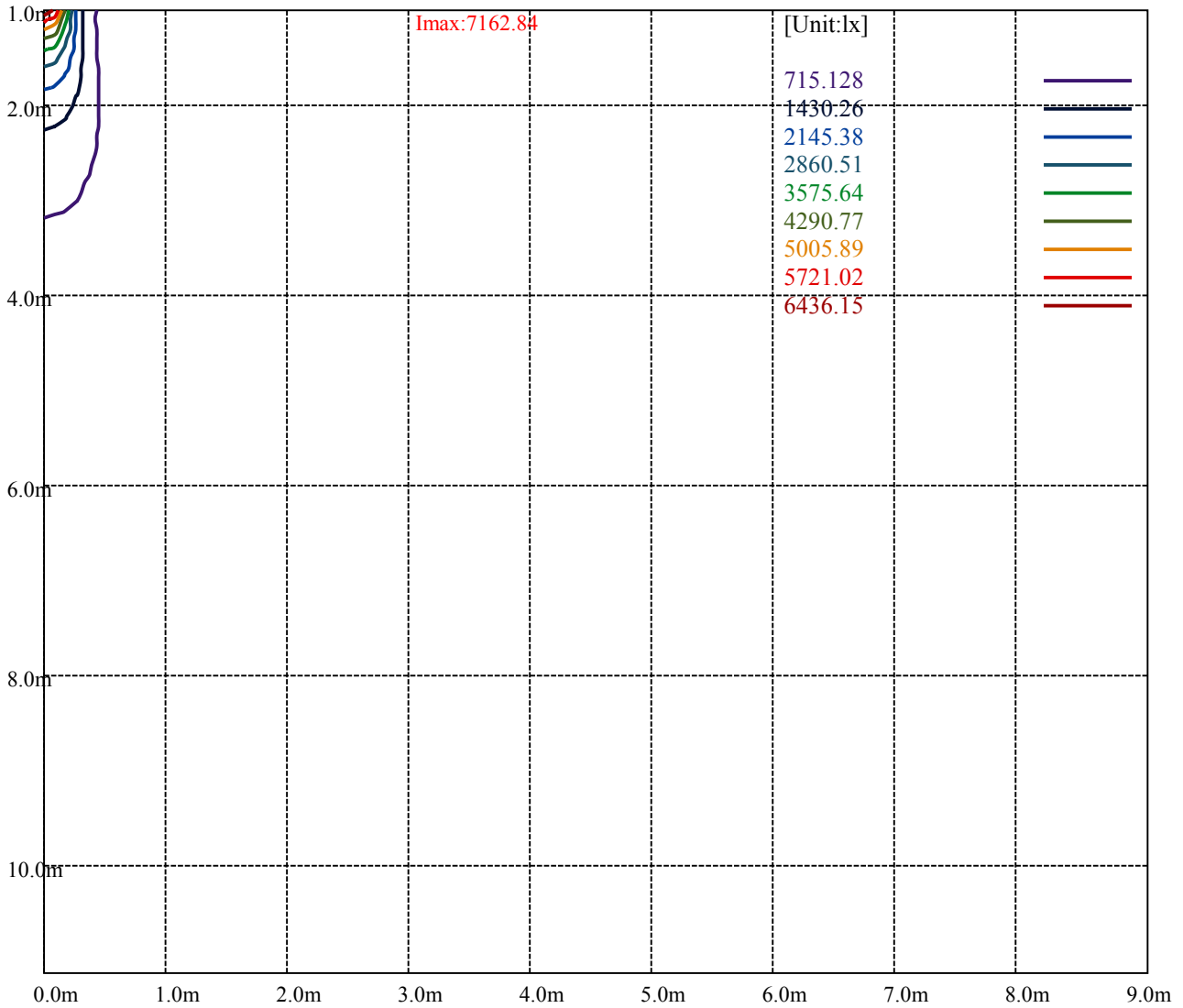
Road

Imax:7162.84

| | |
|-------------------|---|
| (10%Imax) 716.284 | — |
| (20%Imax) 1432.57 | — |
| (30%Imax) 2148.85 | — |
| (40%Imax) 2865.14 | — |
| (50%Imax) 3581.42 | — |
| (60%Imax) 4297.7 | — |
| (70%Imax) 5013.99 | — |
| (80%Imax) 5730.27 | — |
| (90%Imax) 6446.55 | — |



- (10%Emax) 79.379
- (20%Emax) 158.7578
- (30%Emax) 238.1367
- (40%Emax) 317.5155
- (50%Emax) 396.8944
- (60%Emax) 476.2745
- (70%Emax) 555.6533
- (80%Emax) 635.0322
- (90%Emax) 714.4111



Luminance Table

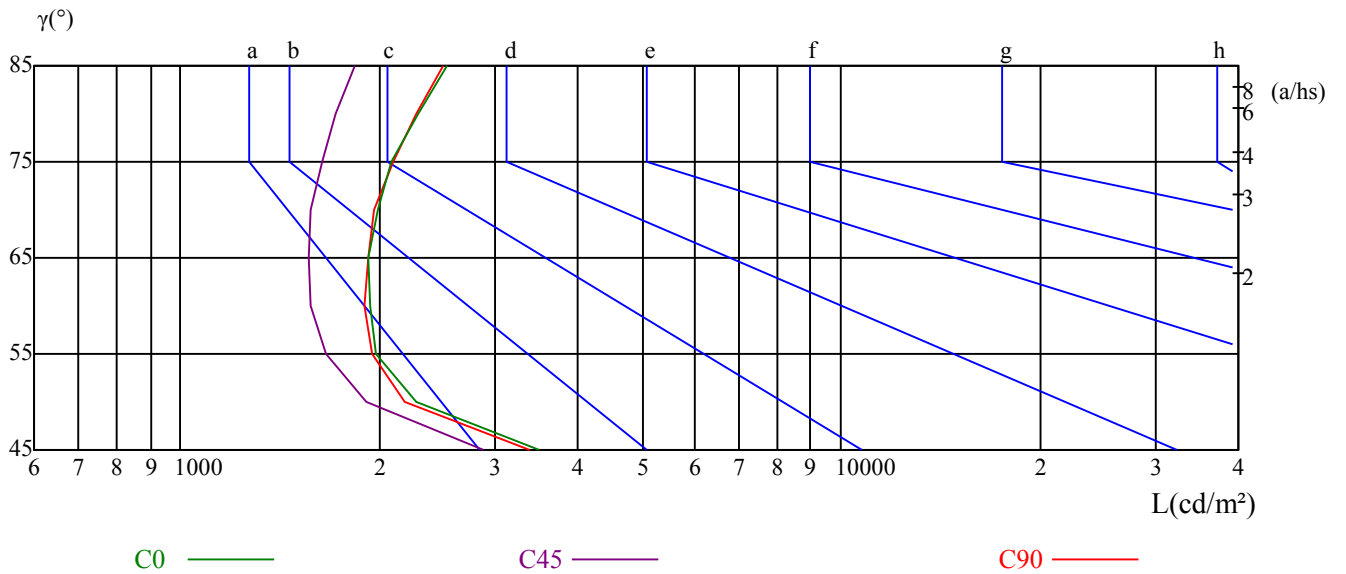
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|------|------|------|------|------|------|------|------|------|
| C0 | 3503 | 2279 | 1982 | 1937 | 1925 | 1988 | 2089 | 2296 | 2536 |
| C45 | 2877 | 1910 | 1657 | 1575 | 1564 | 1575 | 1639 | 1714 | 1837 |
| C90 | 3386 | 2179 | 1951 | 1904 | 1925 | 1964 | 2102 | 2268 | 2504 |

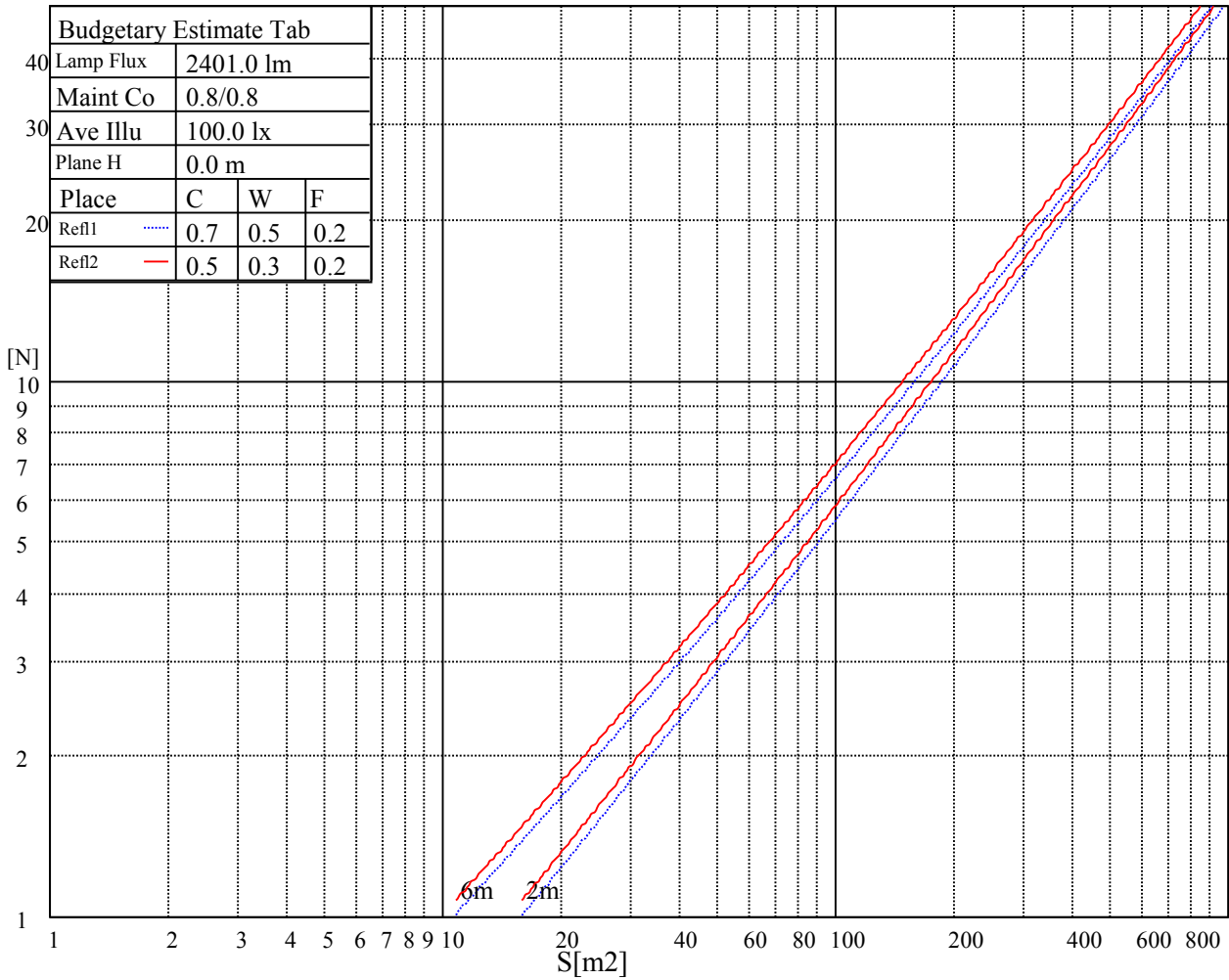
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 4533 | 4533 | 4533 | 6968 | 7011 | 7022 | 20691 | 20498 | 20530 |

Glare Table

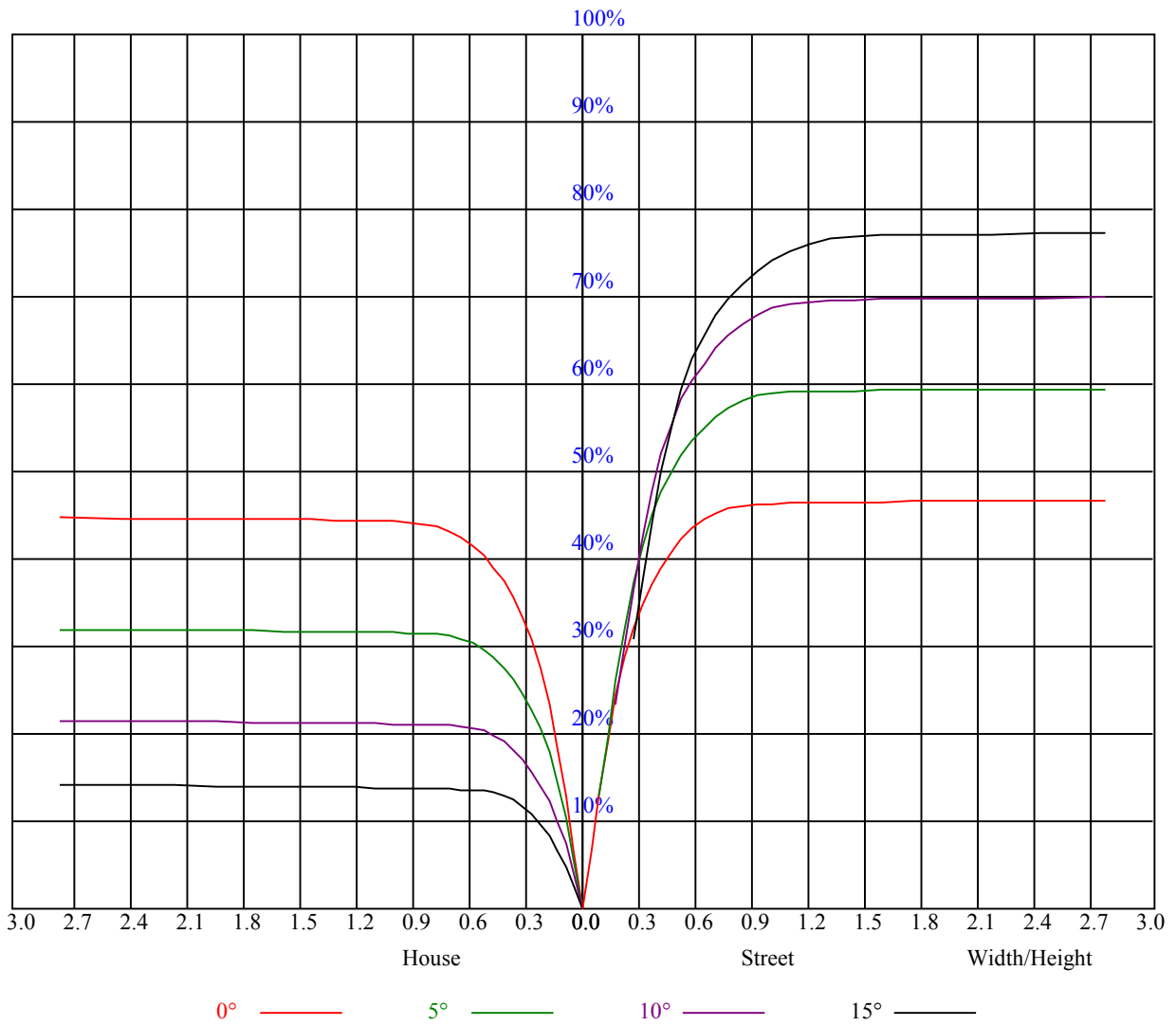
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| | | a | b | c | d | e | f | g | h |
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 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 | 1.11 | 1.11 | 1.11 | 1.08 | 1.08 | 1.08 | 1.03 | 1.03 | 1.03 | 0.99 | 0.99 | 0.99 | 0.95 | 0.95 | 0.95 | 0.93 |
| 1 | 1.02 | 1.00 | 0.97 | 1.00 | 0.98 | 0.96 | 0.96 | 0.94 | 0.93 | 0.93 | 0.91 | 0.90 | 0.90 | 0.88 | 0.87 | 0.86 |
| 2 | 0.97 | 0.93 | 0.90 | 0.95 | 0.92 | 0.89 | 0.92 | 0.89 | 0.87 | 0.89 | 0.87 | 0.85 | 0.87 | 0.85 | 0.83 | 0.82 |
| 3 | 0.92 | 0.88 | 0.85 | 0.91 | 0.87 | 0.84 | 0.88 | 0.85 | 0.83 | 0.86 | 0.83 | 0.81 | 0.84 | 0.82 | 0.80 | 0.79 |
| 4 | 0.88 | 0.83 | 0.80 | 0.87 | 0.83 | 0.80 | 0.85 | 0.81 | 0.79 | 0.83 | 0.80 | 0.78 | 0.81 | 0.79 | 0.77 | 0.76 |
| 5 | 0.84 | 0.80 | 0.76 | 0.83 | 0.79 | 0.76 | 0.82 | 0.78 | 0.75 | 0.80 | 0.77 | 0.75 | 0.79 | 0.76 | 0.74 | 0.73 |
| 6 | 0.81 | 0.76 | 0.73 | 0.80 | 0.76 | 0.73 | 0.79 | 0.75 | 0.72 | 0.78 | 0.74 | 0.72 | 0.76 | 0.74 | 0.71 | 0.70 |
| 7 | 0.78 | 0.73 | 0.70 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.70 | 0.75 | 0.72 | 0.69 | 0.74 | 0.71 | 0.69 | 0.68 |
| 8 | 0.75 | 0.71 | 0.67 | 0.75 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.69 | 0.67 | 0.66 |
| 9 | 0.72 | 0.68 | 0.65 | 0.72 | 0.68 | 0.65 | 0.71 | 0.68 | 0.65 | 0.71 | 0.67 | 0.65 | 0.70 | 0.67 | 0.65 | 0.64 |
| 10 | 0.70 | 0.66 | 0.63 | 0.70 | 0.66 | 0.63 | 0.69 | 0.65 | 0.63 | 0.69 | 0.65 | 0.63 | 0.68 | 0.65 | 0.63 | 0.62 |



NATA 2-1567-M

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 | 7151.28 | 6723.49 | 4920.94 | 2643.81 | 1367.60 | 976.15 | 830.80 | 531.29 | 297.86 |
| 45.0 | 7144.12 | 6825.34 | 5022.80 | 2693.91 | 1362.65 | 989.36 | 842.91 | 569.28 | 291.80 |
| 90.0 | 7162.84 | 6689.90 | 4734.85 | 2439.55 | 1272.35 | 968.72 | 822.21 | 498.21 | 121.45 |
| 135.0 | 7162.84 | 6887.01 | 5327.81 | 3031.96 | 1433.12 | 1027.90 | 861.63 | 592.96 | 296.75 |
| 180.0 | 7151.28 | 6753.77 | 4852.12 | 2725.29 | 1338.42 | 979.34 | 834.77 | 531.73 | 136.21 |
| 225.0 | 7144.12 | 6611.72 | 4692.46 | 2488.00 | 1314.20 | 956.72 | 809.71 | 514.94 | 125.09 |
| 270.0 | 7162.84 | 6683.30 | 4946.82 | 2884.96 | 1388.52 | 989.36 | 839.06 | 567.63 | 294.00 |
| 315.0 | 7162.84 | 6490.60 | 4473.88 | 2352.01 | 1096.50 | 945.65 | 799.75 | 457.08 | 84.18 |
| 360.0 | 7151.28 | 6723.49 | 4920.94 | 2643.81 | 1367.60 | 976.15 | 830.80 | 531.29 | 297.86 |

| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
|--------|-------|-------|-------|------|------|------|------|------|------|
| 0.0 | 19.77 | 12.55 | 10.57 | 9.91 | 9.36 | 9.08 | 8.86 | 8.92 | 8.86 |
| 45.0 | 18.83 | 12.39 | 10.57 | 9.80 | 9.41 | 9.08 | 8.97 | 8.81 | 8.75 |
| 90.0 | 19.10 | 12.00 | 10.41 | 9.74 | 9.36 | 8.97 | 8.92 | 8.81 | 8.75 |
| 135.0 | 21.25 | 12.66 | 10.68 | 9.97 | 9.47 | 9.03 | 8.92 | 8.75 | 8.70 |
| 180.0 | 19.10 | 12.28 | 10.57 | 9.86 | 9.41 | 9.03 | 8.81 | 8.81 | 8.81 |
| 225.0 | 18.39 | 12.39 | 10.41 | 9.74 | 9.30 | 9.03 | 8.86 | 8.81 | 8.81 |
| 270.0 | 20.98 | 12.11 | 10.57 | 9.91 | 9.41 | 9.08 | 8.86 | 8.86 | 8.75 |
| 315.0 | 17.95 | 11.73 | 10.35 | 9.80 | 9.36 | 9.08 | 8.86 | 8.81 | 8.81 |
| 360.0 | 19.77 | 12.55 | 10.57 | 9.91 | 9.36 | 9.08 | 8.86 | 8.92 | 8.86 |

| C/γ(°) | 90.0 |
|--------|------|
| 0.0 | 8.70 |
| 45.0 | 8.70 |
| 90.0 | 8.70 |
| 135.0 | 8.70 |
| 180.0 | 8.64 |
| 225.0 | 8.75 |
| 270.0 | 8.70 |
| 315.0 | 8.64 |
| 360.0 | 8.70 |