
AFX Inc.

LumCAT: NPW4149L3ENBP

Luminaire: LED Outdoor LED Wall Lantern

Report No:

Voltage(V): 120.0300

Test No: LCZP18050149

Current(A): 0.0860

LampCAT:

Power (W): 10.0000

Lamp flux(lm): 506.2

PF: 0.9696

Number of Lamps: 1

Ballast type:

Length(mm): 90

Width(mm): 50

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 506.20

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 50.62

Central intensity(cd): 314.802

Maximum intensity(cd): 350.204

Angle of maximum intensity: C=90.0 γ =15.0

Beam Angle(50% I_{max}): [C0/180]Total=100.4

[C90/270]Total=53.6

Field angle(10% I_{max}): [C0/180]Total=155.3

[C90/270]Total=82.5

Maximum s/h(1/2): C0_180=1.22 C90_270=1.34

Maximum s/h(1/4): C0_180=1.32 C90_270=1.39

Up flux rate of lamp(%): 2.17%

Down flux rate of lamp(%): 97.83%

Up flux rate of LUM(%): 2.17%

Down flux rate of LUM(%): 97.83%

CIE Type : Direct lighting

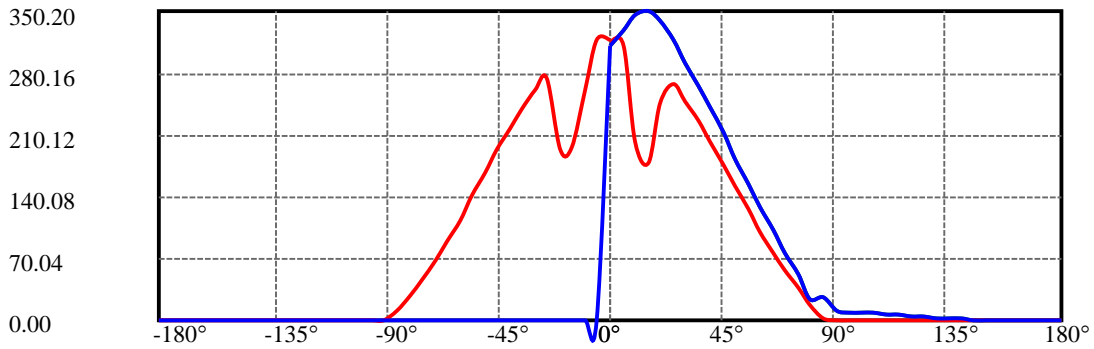
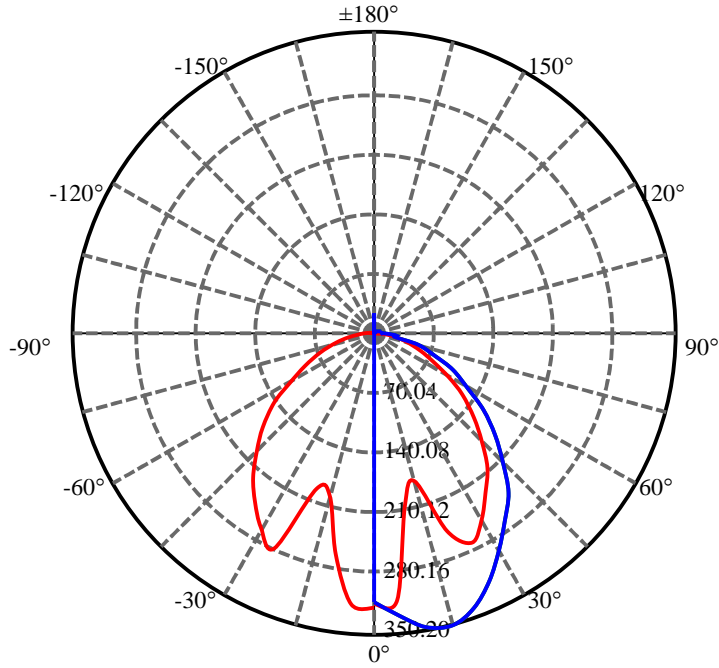
Output flux ratio in π solid angle : 79.166%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 315.138 | .000 | .000 | .000% | .000% |
| 5.0 | 240.294 | 6.640 | 6.640 | 1.312% | 1.312% |
| 10.0 | 185.797 | 15.243 | 21.883 | 3.011% | 4.323% |
| 15.0 | 170.259 | 21.121 | 43.004 | 4.172% | 8.495% |
| 20.0 | 168.525 | 27.921 | 70.924 | 5.516% | 14.011% |
| 25.0 | 164.303 | 34.908 | 105.832 | 6.896% | 20.907% |
| 30.0 | 154.144 | 40.300 | 146.131 | 7.961% | 28.868% |
| 35.0 | 143.637 | 43.850 | 189.982 | 8.663% | 37.531% |
| 40.0 | 130.850 | 45.796 | 235.778 | 9.047% | 46.578% |
| 45.0 | 115.984 | 45.703 | 281.481 | 9.029% | 55.607% |
| 50.0 | 100.198 | 43.683 | 325.164 | 8.630% | 64.236% |
| 55.0 | 84.434 | 40.145 | 365.309 | 7.931% | 72.167% |
| 60.0 | 68.841 | 35.429 | 400.738 | 6.999% | 79.166% |
| 65.0 | 54.175 | 29.905 | 430.644 | 5.908% | 85.074% |
| 70.0 | 40.762 | 24.039 | 454.682 | 4.749% | 89.823% |
| 75.0 | 28.614 | 18.134 | 472.816 | 3.582% | 93.405% |
| 80.0 | 16.159 | 11.980 | 484.796 | 2.367% | 95.772% |
| 85.0 | 9.098 | 6.863 | 491.660 | 1.356% | 97.128% |
| 90.0 | 3.893 | 3.557 | 495.217 | .703% | 97.830% |
| 95.0 | 3.434 | 2.006 | 497.223 | .396% | 98.227% |
| 100.0 | 3.135 | 1.785 | 499.008 | .353% | 98.579% |
| 105.0 | 2.769 | 1.580 | 500.588 | .312% | 98.891% |
| 110.0 | 2.322 | 1.331 | 501.918 | .263% | 99.154% |
| 115.0 | 1.900 | 1.069 | 502.987 | .211% | 99.365% |
| 120.0 | 1.505 | .828 | 503.815 | .164% | 99.529% |
| 125.0 | 1.220 | .630 | 504.445 | .124% | 99.653% |
| 130.0 | .976 | .477 | 504.922 | .094% | 99.748% |
| 135.0 | .762 | .351 | 505.273 | .069% | 99.817% |
| 140.0 | .625 | .257 | 505.530 | .051% | 99.868% |
| 145.0 | .518 | .191 | 505.721 | .038% | 99.905% |
| 150.0 | .436 | .140 | 505.861 | .028% | 99.933% |
| 155.0 | .381 | .103 | 505.965 | .020% | 99.953% |
| 160.0 | .377 | .079 | 506.044 | .016% | 99.969% |
| 165.0 | .429 | .066 | 506.110 | .013% | 99.982% |
| 170.0 | .429 | .051 | 506.161 | .010% | 99.992% |
| 175.0 | .429 | .031 | 506.192 | .006% | 99.998% |
| 180.0 | .384 | .010 | 506.202 | .002% | 100.000% |

| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|---------|---------|
| Zone | Lumens | %Lamp | %Fixt |
| 0-30 | 146.13 | 28.87% | 28.87% |
| 0-40 | 235.78 | 46.58% | 46.58% |
| 0-60 | 400.74 | 79.17% | 79.17% |
| 0-90 | 495.22 | 97.83% | 97.83% |
| 0-120 | 503.82 | 99.53% | 99.53% |
| 0-180 | 506.20 | 100.00% | 100.00% |
| 60-90 | 129.91 | 25.66% | 25.66% |
| 90-120 | 12.16 | 2.40% | 2.40% |
| 90-130 | 13.26 | 2.62% | 2.62% |
| 90-150 | 14.20 | 2.81% | 2.81% |
| 90-180 | 14.53 | 2.87% | 2.87% |
| 0-60.71 | 404.96 | 80.00% | 80.00% |

ZONAL LUMEN SUMMARY

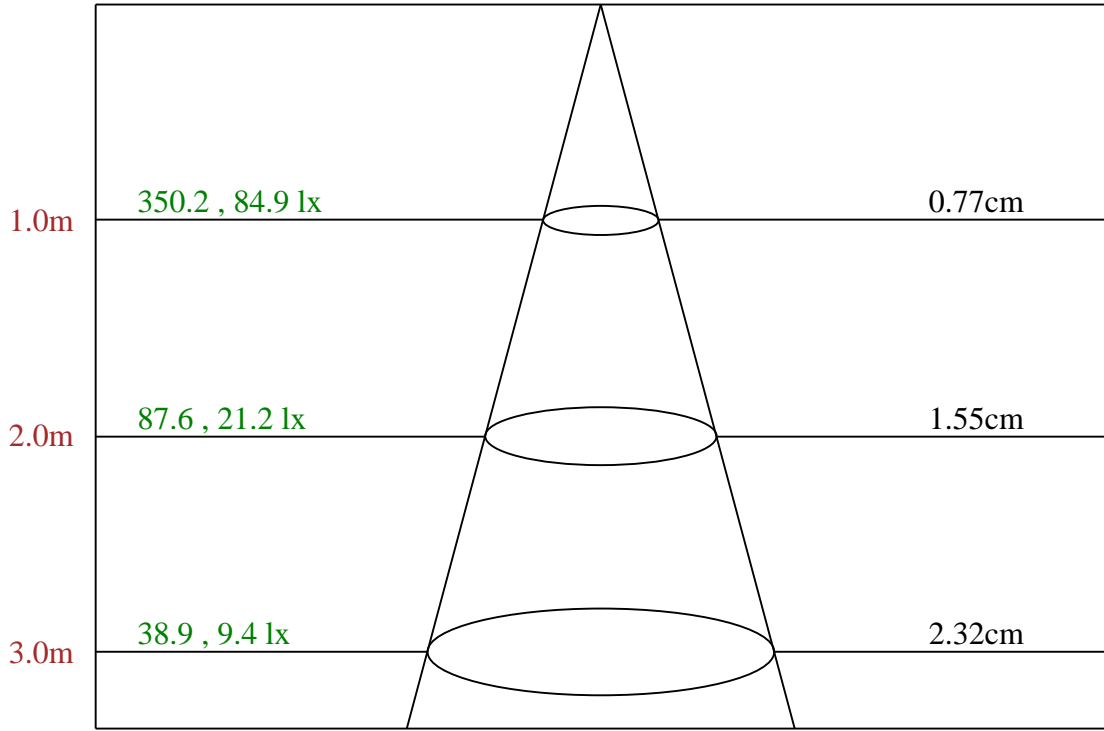
| | |
|---------|-------|
| 0-10 | 21.88 |
| 10-20 | 49.04 |
| 20-30 | 75.21 |
| 30-40 | 89.65 |
| 40-50 | 89.39 |
| 50-60 | 75.57 |
| 60-70 | 53.94 |
| 70-80 | 30.11 |
| 80-90 | 10.42 |
| 90-100 | 3.79 |
| 100-110 | 2.91 |
| 110-120 | 1.90 |
| 120-130 | 1.11 |
| 130-140 | 0.61 |
| 140-150 | 0.33 |
| 150-160 | 0.18 |
| 160-170 | 0.12 |
| 170-180 | 0.03 |



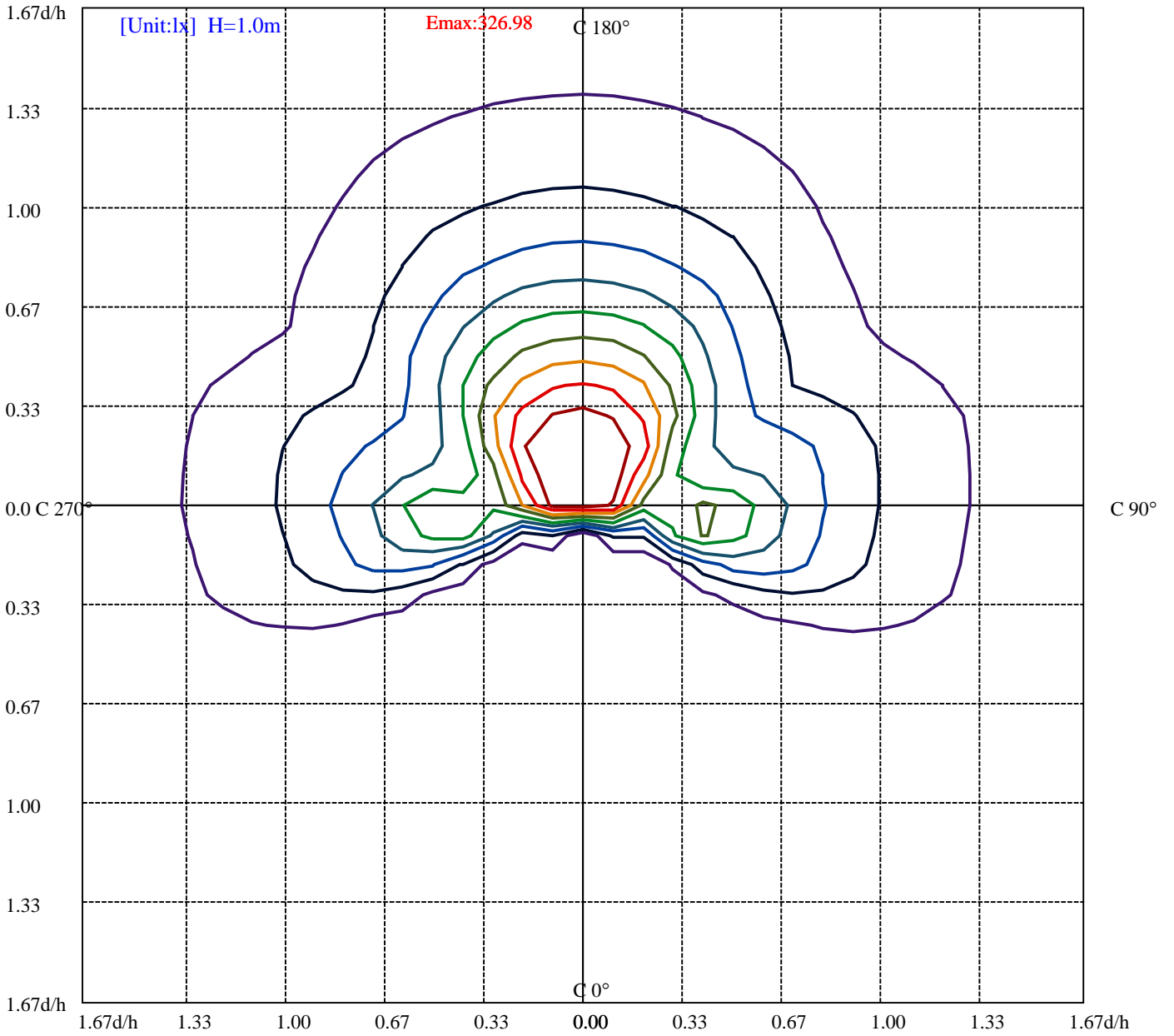
C90(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:79.1 Right:76.2
:C90/270Left:19.4 Right:63.1

Beam Angle(50%Imax):C0/180Left:51.7 Right:48.7
:C90/270Left:17.2 Right:36.5



Max , Ave Beam angle of C90plane180.44



| | |
|--------------------|---|
| (10% Emax) 32.6983 | — |
| (20% Emax) 65.3965 | — |
| (30% Emax) 98.0948 | — |
| (40% Emax) 130.793 | — |
| (50% Emax) 163.491 | — |
| (60% Emax) 196.19 | — |
| (70% Emax) 228.888 | — |
| (80% Emax) 261.586 | — |
| (90% Emax) 294.284 | — |

Luminance Limiting Curve(no luminous side)

Luminance Table

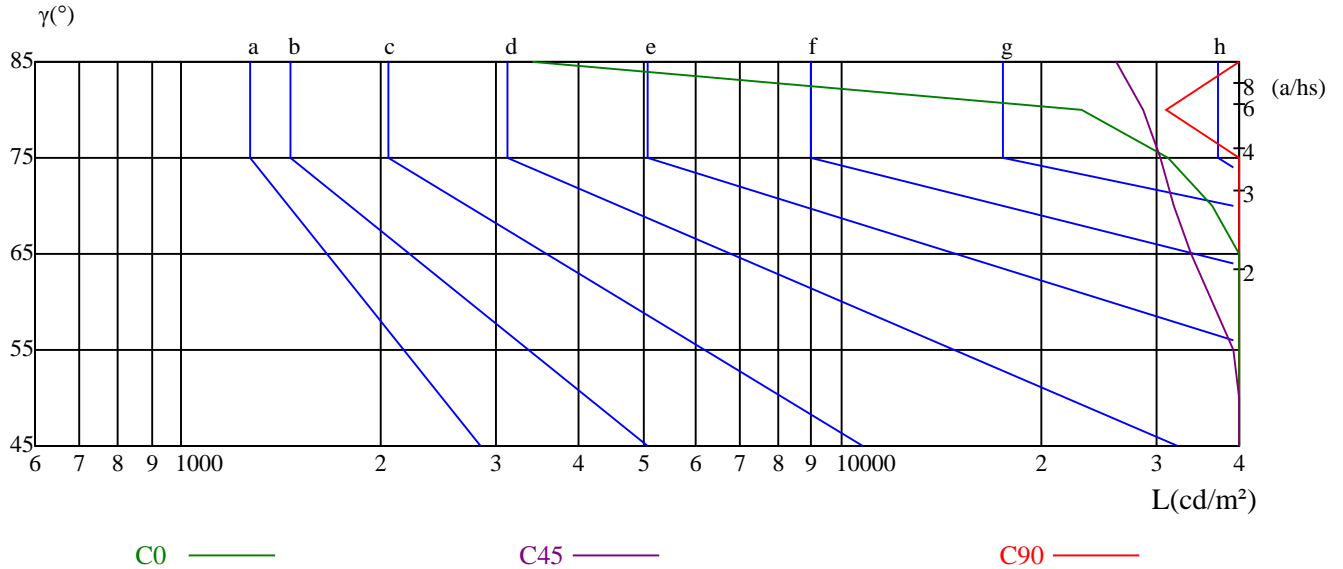
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0 | 55684 | 52698 | 48813 | 44718 | 40356 | 36492 | 31234 | 23050 | 3393 |
| C45 | 45981 | 42484 | 39223 | 36437 | 33824 | 31822 | 30396 | 28614 | 26016 |
| C90 | 66866 | 63465 | 59848 | 56627 | 53279 | 49174 | 45175 | 30998 | 64475 |

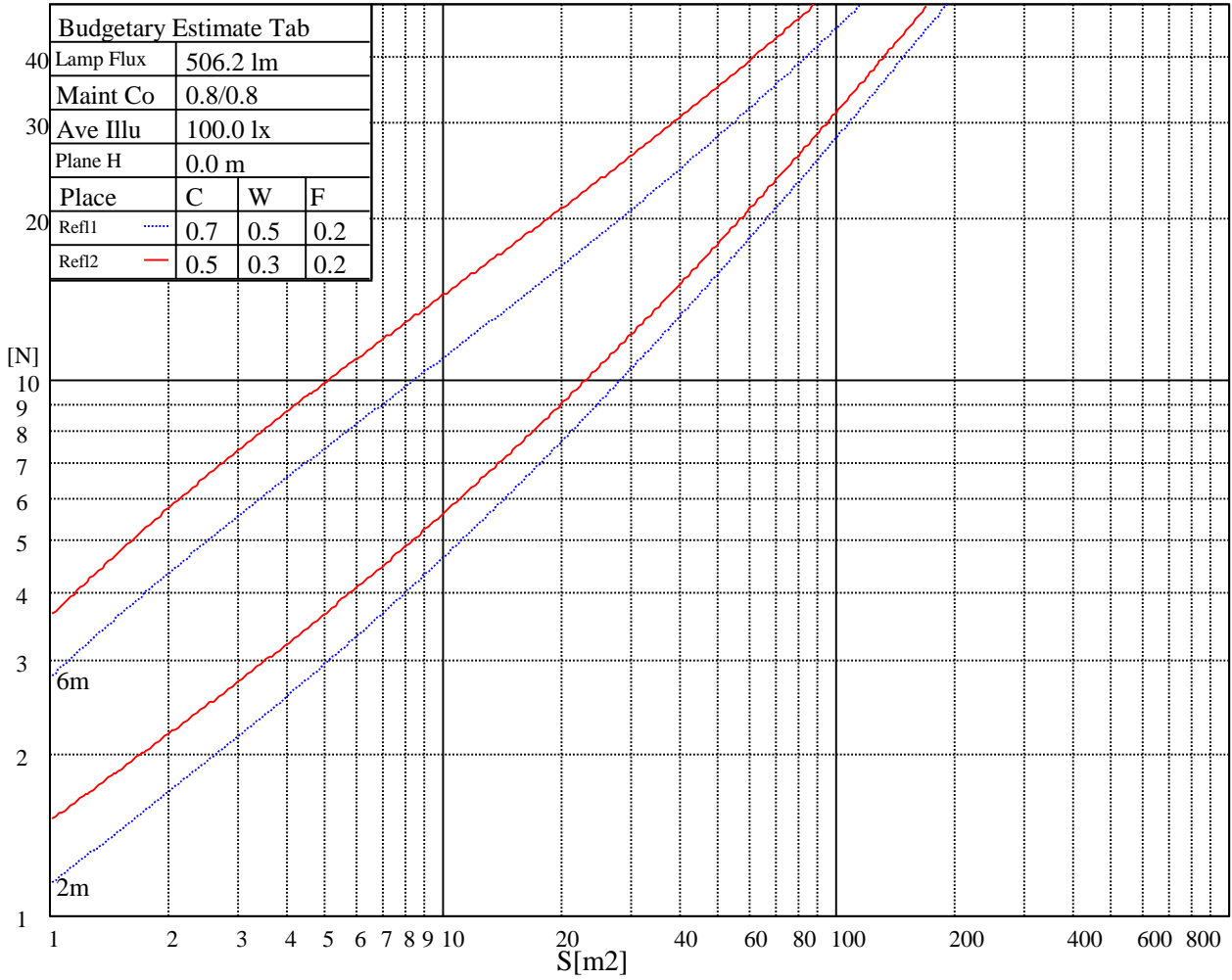
| L横(65) | L纵(65) | L45(65) | L横(75) | L纵(75) | L45(75) | L横(85) | L纵(85) | L45(85) |
|--------|--------|---------|--------|--------|---------|--------|--------|---------|
| 43599 | 26686 | 19327 | 35538 | 22626 | 18055 | 15383 | 32690 | 18777 |

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 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | 0.98 |
| 1 | 1.04 | 1.00 | 0.96 | 1.01 | 0.98 | 0.94 | 0.97 | 0.94 | 0.91 | 0.92 | 0.90 | 0.88 | 0.89 | 0.87 | 0.85 | 0.82 |
| 2 | 0.91 | 0.84 | 0.79 | 0.89 | 0.83 | 0.78 | 0.85 | 0.80 | 0.76 | 0.81 | 0.77 | 0.73 | 0.78 | 0.75 | 0.72 | 0.69 |
| 3 | 0.80 | 0.72 | 0.66 | 0.79 | 0.71 | 0.65 | 0.75 | 0.69 | 0.64 | 0.72 | 0.67 | 0.62 | 0.69 | 0.65 | 0.61 | 0.59 |
| 4 | 0.71 | 0.63 | 0.56 | 0.70 | 0.62 | 0.56 | 0.67 | 0.60 | 0.55 | 0.65 | 0.59 | 0.54 | 0.62 | 0.57 | 0.53 | 0.51 |
| 5 | 0.64 | 0.55 | 0.49 | 0.63 | 0.55 | 0.48 | 0.60 | 0.53 | 0.48 | 0.58 | 0.52 | 0.47 | 0.56 | 0.51 | 0.46 | 0.44 |
| 6 | 0.58 | 0.49 | 0.43 | 0.57 | 0.48 | 0.42 | 0.55 | 0.47 | 0.42 | 0.53 | 0.46 | 0.41 | 0.51 | 0.45 | 0.41 | 0.39 |
| 7 | 0.53 | 0.44 | 0.38 | 0.52 | 0.43 | 0.38 | 0.50 | 0.43 | 0.37 | 0.48 | 0.42 | 0.37 | 0.47 | 0.41 | 0.36 | 0.34 |
| 8 | 0.48 | 0.40 | 0.34 | 0.47 | 0.39 | 0.34 | 0.46 | 0.39 | 0.33 | 0.44 | 0.38 | 0.33 | 0.43 | 0.37 | 0.33 | 0.31 |
| 9 | 0.44 | 0.36 | 0.31 | 0.44 | 0.36 | 0.31 | 0.42 | 0.35 | 0.30 | 0.41 | 0.35 | 0.30 | 0.40 | 0.34 | 0.30 | 0.28 |
| 10 | 0.41 | 0.33 | 0.28 | 0.40 | 0.33 | 0.28 | 0.39 | 0.32 | 0.28 | 0.38 | 0.32 | 0.27 | 0.37 | 0.31 | 0.27 | 0.25 |

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 | 314.80 | 311.08 | 202.83 | 177.90 | 244.97 | 267.69 | 248.88 | 226.87 | 203.27 |
| 15.0 | 314.98 | 313.03 | 250.48 | 190.50 | 178.52 | 161.57 | 183.40 | 204.51 | 204.96 |
| 30.0 | 314.27 | 315.33 | 303.71 | 243.29 | 196.88 | 183.93 | 162.46 | 154.47 | 132.20 |
| 45.0 | 314.00 | 317.11 | 326.51 | 318.26 | 275.76 | 252.69 | 218.98 | 192.45 | 170.62 |
| 60.0 | 313.83 | 322.61 | 338.40 | 333.97 | 318.62 | 298.03 | 273.28 | 248.70 | 222.70 |
| 75.0 | 313.29 | 325.80 | 344.44 | 345.94 | 333.97 | 315.07 | 288.80 | 263.07 | 234.68 |
| 90.0 | 311.61 | 329.35 | 345.59 | 350.20 | 338.49 | 318.44 | 292.18 | 266.18 | 241.60 |
| 105.0 | 315.69 | 329.09 | 347.63 | 349.23 | 337.43 | 317.29 | 293.15 | 269.02 | 238.94 |
| 120.0 | 317.29 | 327.76 | 343.28 | 344.26 | 328.91 | 306.55 | 282.95 | 256.77 | 230.33 |
| 135.0 | 315.33 | 321.81 | 335.12 | 331.39 | 313.29 | 275.14 | 245.95 | 220.40 | 188.37 |
| 150.0 | 316.93 | 321.37 | 319.86 | 284.10 | 237.79 | 199.37 | 182.24 | 159.71 | 147.29 |
| 165.0 | 318.08 | 320.75 | 293.68 | 210.46 | 187.75 | 167.25 | 171.60 | 189.70 | 198.04 |
| 180.0 | 317.91 | 316.75 | 260.15 | 195.91 | 192.89 | 274.61 | 261.21 | 239.65 | 217.73 |
| 195.0 | 314.98 | 303.89 | 194.40 | 153.14 | 211.97 | 235.13 | 235.39 | 217.56 | 196.44 |
| 210.0 | 314.27 | 295.28 | 11.80 | 10.29 | 27.24 | 37.80 | 40.90 | 43.21 | 44.63 |
| 225.0 | 314.00 | 160.86 | 4.79 | 2.31 | 2.93 | 3.82 | 4.70 | 5.32 | 5.41 |
| 240.0 | 313.83 | 17.39 | 1.86 | 0.44 | 0.71 | 1.24 | 1.86 | 2.22 | 2.48 |
| 255.0 | 313.29 | 11.53 | 0.62 | 0.09 | 0.27 | 0.44 | 0.62 | 0.80 | 1.06 |
| 270.0 | 311.61 | 0.35 | 0.09 | 0.62 | 0.44 | 0.80 | 0.27 | 0.09 | 0.09 |
| 285.0 | 315.69 | 11.80 | 0.44 | 0.09 | 0.27 | 0.53 | 0.80 | 1.06 | 1.24 |
| 300.0 | 317.29 | 16.77 | 2.31 | 0.98 | 1.24 | 1.95 | 2.40 | 2.66 | 2.75 |
| 315.0 | 315.33 | 179.85 | 5.86 | 4.17 | 4.61 | 5.41 | 6.03 | 6.30 | 6.30 |
| 330.0 | 316.93 | 293.51 | 31.68 | 44.98 | 59.18 | 65.21 | 65.39 | 62.02 | 57.94 |
| 345.0 | 318.08 | 303.98 | 193.60 | 193.69 | 250.48 | 253.31 | 236.01 | 214.54 | 191.29 |
| 360.0 | 314.80 | 311.08 | 202.83 | 177.90 | 244.97 | 267.69 | 248.88 | 226.87 | 203.27 |

| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0.0 | 177.19 | 152.43 | 125.99 | 100.62 | 76.75 | 56.16 | 36.38 | 18.01 | 1.33 |
| 15.0 | 183.04 | 157.76 | 132.73 | 107.80 | 84.11 | 62.46 | 44.19 | 26.80 | 10.65 |
| 30.0 | 118.98 | 99.29 | 85.53 | 70.89 | 56.52 | 44.10 | 32.47 | 22.18 | 9.05 |
| 45.0 | 146.31 | 122.89 | 101.24 | 81.98 | 64.33 | 48.98 | 35.40 | 22.36 | 10.20 |
| 60.0 | 196.53 | 169.56 | 143.03 | 116.32 | 90.86 | 68.05 | 48.36 | 25.20 | 17.04 |
| 75.0 | 207.27 | 178.61 | 150.75 | 123.42 | 98.40 | 73.91 | 50.40 | 23.96 | 22.54 |
| 90.0 | 212.77 | 183.58 | 154.47 | 127.41 | 101.33 | 75.68 | 52.61 | 24.22 | 25.29 |
| 105.0 | 211.61 | 182.16 | 155.36 | 127.15 | 101.68 | 76.48 | 52.44 | 23.96 | 25.11 |
| 120.0 | 204.43 | 177.01 | 149.77 | 123.15 | 97.60 | 73.64 | 51.82 | 26.44 | 22.09 |
| 135.0 | 163.35 | 140.99 | 117.83 | 95.74 | 74.53 | 55.81 | 40.55 | 25.64 | 12.51 |
| 150.0 | 121.47 | 107.71 | 92.45 | 74.97 | 61.13 | 48.09 | 35.85 | 25.46 | 13.84 |
| 165.0 | 191.47 | 166.98 | 142.23 | 117.56 | 92.54 | 70.54 | 51.37 | 33.63 | 16.68 |
| 180.0 | 193.60 | 168.49 | 140.63 | 113.84 | 89.08 | 66.72 | 46.40 | 28.48 | 10.74 |
| 195.0 | 172.57 | 149.86 | 125.10 | 100.70 | 77.46 | 57.05 | 37.80 | 20.85 | 4.70 |
| 210.0 | 43.30 | 39.75 | 35.31 | 29.90 | 23.87 | 18.10 | 12.16 | 7.10 | 1.42 |
| 225.0 | 5.41 | 5.15 | 4.79 | 4.44 | 3.90 | 3.64 | 3.82 | 3.82 | 2.93 |
| 240.0 | 2.57 | 2.48 | 2.31 | 2.13 | 2.04 | 2.04 | 2.04 | 1.77 | 1.24 |
| 255.0 | 1.15 | 1.24 | 1.15 | 1.15 | 1.06 | 0.98 | 0.98 | 0.89 | 0.80 |
| 270.0 | 0.09 | 0.09 | 0.09 | 0.18 | 0.18 | 0.18 | 0.09 | 0.18 | 0.35 |
| 285.0 | 1.15 | 1.15 | 1.15 | 1.15 | 1.06 | 0.98 | 0.98 | 0.98 | 0.89 |
| 300.0 | 2.57 | 2.48 | 2.31 | 2.13 | 2.13 | 2.31 | 2.66 | 2.31 | 2.04 |
| 315.0 | 6.12 | 5.68 | 5.23 | 4.70 | 4.26 | 3.90 | 4.35 | 3.82 | 3.82 |
| 330.0 | 52.26 | 46.32 | 39.22 | 32.03 | 25.02 | 18.01 | 11.36 | 5.06 | 2.13 |
| 345.0 | 168.40 | 143.12 | 117.74 | 92.81 | 70.36 | 50.49 | 32.30 | 14.73 | 0.98 |
| 360.0 | 177.19 | 152.43 | 125.99 | 100.62 | 76.75 | 56.16 | 36.38 | 18.01 | 1.33 |

Intensity data(cd)

| C/γ(°) | 90.0 | 95.0 | 100.0 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 |
|--------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.09 | 0.18 | 0.18 | 0.18 | 0.35 | 0.35 | 0.27 | 0.27 | 0.27 |
| 15.0 | 2.84 | 2.75 | 2.48 | 2.31 | 1.95 | 1.69 | 1.42 | 1.15 | 1.06 |
| 30.0 | 4.97 | 4.79 | 4.53 | 3.82 | 3.28 | 2.75 | 2.13 | 1.77 | 1.33 |
| 45.0 | 6.30 | 5.86 | 5.59 | 4.79 | 3.82 | 3.19 | 2.48 | 1.95 | 1.51 |
| 60.0 | 7.99 | 7.28 | 7.01 | 6.12 | 5.06 | 3.99 | 3.11 | 2.40 | 1.77 |
| 75.0 | 10.03 | 8.96 | 8.52 | 7.72 | 6.48 | 5.06 | 3.99 | 2.93 | 2.31 |
| 90.0 | 11.09 | 9.67 | 9.41 | 8.52 | 7.19 | 5.68 | 4.35 | 3.37 | 2.57 |
| 105.0 | 10.29 | 8.87 | 8.61 | 7.81 | 6.48 | 5.15 | 3.90 | 2.93 | 2.31 |
| 120.0 | 8.52 | 7.54 | 7.19 | 6.48 | 5.23 | 4.08 | 3.19 | 2.57 | 1.95 |
| 135.0 | 6.74 | 5.86 | 5.59 | 4.88 | 3.99 | 3.28 | 2.57 | 2.13 | 1.60 |
| 150.0 | 5.32 | 4.88 | 4.61 | 3.99 | 3.19 | 2.75 | 2.22 | 1.86 | 1.42 |
| 165.0 | 2.93 | 2.66 | 2.48 | 2.31 | 1.95 | 1.60 | 1.42 | 1.24 | 1.06 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.09 | 0.09 | 0.09 | 0.09 | 0.27 | 0.27 |
| 195.0 | 0.62 | 0.44 | 0.44 | 0.53 | 0.44 | 0.35 | 0.35 | 0.27 | 0.27 |
| 210.0 | 1.33 | 0.62 | 0.53 | 0.35 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 |
| 225.0 | 2.93 | 2.48 | 1.06 | 0.80 | 0.62 | 0.53 | 0.44 | 0.35 | 0.27 |
| 240.0 | 1.51 | 1.77 | 1.24 | 1.15 | 0.98 | 0.80 | 0.62 | 0.62 | 0.44 |
| 255.0 | 0.98 | 1.06 | 0.98 | 1.06 | 0.89 | 0.80 | 0.71 | 0.71 | 0.62 |
| 270.0 | 0.35 | 0.44 | 0.44 | 0.35 | 0.35 | 0.44 | 0.27 | 0.27 | 0.27 |
| 285.0 | 1.06 | 0.98 | 0.98 | 0.80 | 0.80 | 0.71 | 0.62 | 0.53 | 0.53 |
| 300.0 | 2.13 | 1.69 | 1.24 | 0.98 | 0.89 | 0.80 | 0.62 | 0.62 | 0.53 |
| 315.0 | 3.73 | 2.48 | 1.15 | 0.71 | 0.62 | 0.53 | 0.53 | 0.35 | 0.35 |
| 330.0 | 1.15 | 0.71 | 0.53 | 0.35 | 0.44 | 0.35 | 0.27 | 0.18 | 0.18 |
| 345.0 | 0.53 | 0.44 | 0.44 | 0.35 | 0.35 | 0.35 | 0.27 | 0.27 | 0.27 |
| 360.0 | 0.09 | 0.18 | 0.18 | 0.18 | 0.35 | 0.35 | 0.27 | 0.27 | 0.27 |

| C/γ(°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.27 | 0.27 | 0.27 | 0.35 | 0.18 | 0.27 | 0.35 | 0.35 | 0.35 |
| 15.0 | 0.80 | 0.71 | 0.62 | 0.53 | 0.53 | 0.44 | 0.53 | 0.53 | 0.53 |
| 30.0 | 1.06 | 0.89 | 0.71 | 0.44 | 0.53 | 0.44 | 0.44 | 0.44 | 0.44 |
| 45.0 | 1.15 | 0.89 | 0.71 | 0.44 | 0.44 | 0.27 | 0.35 | 0.44 | 0.44 |
| 60.0 | 1.42 | 0.98 | 0.71 | 0.44 | 0.35 | 0.27 | 0.27 | 0.27 | 0.44 |
| 75.0 | 1.69 | 1.15 | 0.80 | 0.53 | 0.27 | 0.18 | 0.18 | 0.35 | 0.35 |
| 90.0 | 1.86 | 1.33 | 0.80 | 0.53 | 0.27 | 0.18 | 0.27 | 0.27 | 0.35 |
| 105.0 | 1.69 | 1.24 | 0.80 | 0.53 | 0.27 | 0.18 | 0.18 | 0.27 | 0.44 |
| 120.0 | 1.42 | 1.15 | 0.80 | 0.44 | 0.35 | 0.27 | 0.35 | 0.35 | 0.35 |
| 135.0 | 1.33 | 0.98 | 0.71 | 0.53 | 0.35 | 0.44 | 0.44 | 0.35 | 0.35 |
| 150.0 | 1.15 | 0.89 | 0.71 | 0.62 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 |
| 165.0 | 0.80 | 0.62 | 0.53 | 0.44 | 0.44 | 0.35 | 0.44 | 0.53 | 0.44 |
| 180.0 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.35 | 0.44 | 0.44 | 0.44 |
| 195.0 | 0.27 | 0.27 | 0.18 | 0.27 | 0.35 | 0.27 | 0.35 | 0.35 | 0.44 |
| 210.0 | 0.18 | 0.18 | 0.27 | 0.27 | 0.27 | 0.35 | 0.44 | 0.44 | 0.53 |
| 225.0 | 0.27 | 0.27 | 0.35 | 0.35 | 0.35 | 0.44 | 0.44 | 0.44 | 0.44 |
| 240.0 | 0.35 | 0.44 | 0.35 | 0.44 | 0.44 | 0.53 | 0.53 | 0.53 | 0.44 |
| 255.0 | 0.53 | 0.53 | 0.53 | 0.62 | 0.53 | 0.53 | 0.62 | 0.53 | 0.44 |
| 270.0 | 0.27 | 0.35 | 0.44 | 0.44 | 0.44 | 0.53 | 0.53 | 0.44 | 0.44 |
| 285.0 | 0.35 | 0.44 | 0.53 | 0.53 | 0.53 | 0.53 | 0.62 | 0.53 | 0.44 |
| 300.0 | 0.53 | 0.44 | 0.44 | 0.44 | 0.62 | 0.53 | 0.62 | 0.53 | 0.44 |
| 315.0 | 0.27 | 0.35 | 0.35 | 0.35 | 0.35 | 0.44 | 0.53 | 0.53 | 0.35 |
| 330.0 | 0.18 | 0.18 | 0.35 | 0.35 | 0.27 | 0.44 | 0.44 | 0.44 | 0.44 |
| 345.0 | 0.18 | 0.18 | 0.18 | 0.27 | 0.27 | 0.35 | 0.44 | 0.44 | 0.44 |
| 360.0 | 0.27 | 0.27 | 0.27 | 0.35 | 0.18 | 0.27 | 0.35 | 0.35 | 0.35 |

Intensity data(cd)

| C/γ(°) | 180.0 |
|--------|-------|
| 0.0 | 0.27 |
| 15.0 | 0.44 |
| 30.0 | 0.44 |
| 45.0 | 0.44 |
| 60.0 | 0.44 |
| 75.0 | 0.44 |
| 90.0 | 0.44 |
| 105.0 | 0.35 |
| 120.0 | 0.35 |
| 135.0 | 0.27 |
| 150.0 | 0.35 |
| 165.0 | 0.35 |
| 180.0 | 0.27 |
| 195.0 | 0.44 |
| 210.0 | 0.44 |
| 225.0 | 0.44 |
| 240.0 | 0.44 |
| 255.0 | 0.44 |
| 270.0 | 0.44 |
| 285.0 | 0.35 |
| 300.0 | 0.35 |
| 315.0 | 0.27 |
| 330.0 | 0.35 |
| 345.0 | 0.35 |
| 360.0 | 0.27 |