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ASD Lighting Corp

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LumCAT: ASD-CAN05-70D50-WH-PRM

Luminaire: Outdoor Full-Cutoff Wall-Mounted Area Luminaires

|                       |                      |
|-----------------------|----------------------|
| Report No:            | Voltage(V): 119.9900 |
| Test No: LCZP18020011 | Current(A): 0.5770   |
| LampCAT:              | Power (W): 68.9600   |
| Lamp flux(lm): 7856.9 | PF: 0.9962           |
| Number of Lamps: 1    | Ballast type:        |
| Length(mm): 215       | Width(mm): 215       |
| Phm Type: C           | Height(mm): 15       |

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Photometric Results

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Lumens(lm): 7856.85  
Efficiency(%): 100.00%  
Lumens(lm)/Power(W): 113.93  
Central intensity(cd): 2121.489  
Maximum intensity(cd): 2121.489  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=141.0  
                                  [C90/270]Total=140.0  
Field angle(10%Imax): [C0/180]Total=167.8  
                                  [C90/270]Total=167.4  
Maximum s/h(1/2): C0\_180=1.34 C90\_270=1.32  
Maximum s/h(1/4): C0\_180=1.54 C90\_270=1.52  
Up flux rate of lamp(%): 0.94%  
Down flux rate of lamp(%): 99.06%  
Up flux rate of LUM(%): 0.94%  
Down flux rate of LUM(%): 99.06%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 68.883%

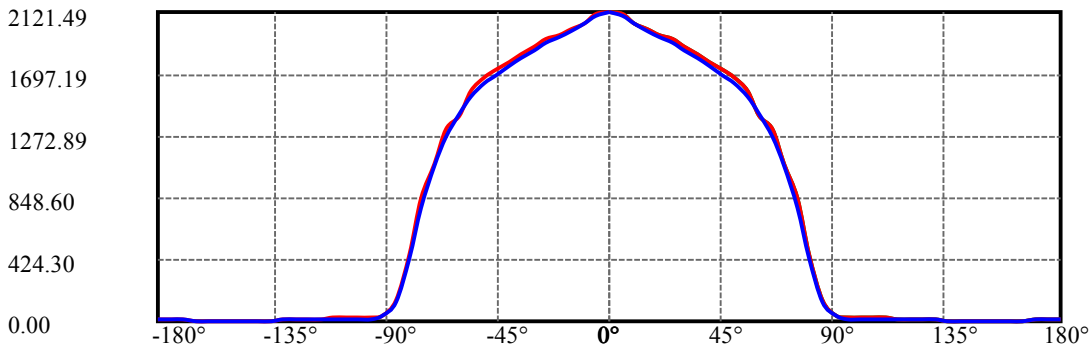
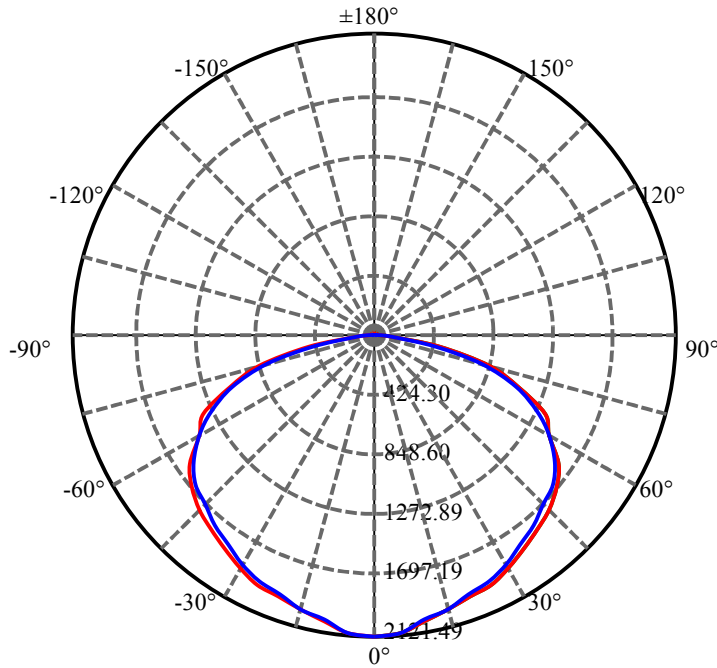
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 2121.489      | .000        | .000      | .000%       | .000%      |
| 5.0                | 2096.359      | 50.423      | 50.423    | .642%       | .642%      |
| 10.0               | 2024.826      | 147.428     | 197.851   | 1.876%      | 2.518%     |
| 15.0               | 1968.587      | 236.887     | 434.737   | 3.015%      | 5.533%     |
| 20.0               | 1931.427      | 321.416     | 756.153   | 4.091%      | 9.624%     |
| 25.0               | 1898.923      | 401.733     | 1157.886  | 5.113%      | 14.737%    |
| 30.0               | 1854.374      | 474.983     | 1632.869  | 6.045%      | 20.783%    |
| 35.0               | 1800.210      | 538.163     | 2171.032  | 6.850%      | 27.632%    |
| 40.0               | 1743.289      | 591.206     | 2762.239  | 7.525%      | 35.157%    |
| 45.0               | 1685.500      | 634.868     | 3397.107  | 8.080%      | 43.238%    |
| 50.0               | 1610.655      | 666.036     | 4063.143  | 8.477%      | 51.715%    |
| 55.0               | 1507.207      | 677.927     | 4741.070  | 8.628%      | 60.343%    |
| 60.0               | 1395.661      | 670.990     | 5412.060  | 8.540%      | 68.883%    |
| 65.0               | 1268.820      | 647.741     | 6059.801  | 8.244%      | 77.128%    |
| 70.0               | 1110.014      | 602.336     | 6662.137  | 7.666%      | 84.794%    |
| 75.0               | 918.584       | 530.243     | 7192.380  | 6.749%      | 91.543%    |
| 80.0               | 476.589       | 373.309     | 7565.689  | 4.751%      | 96.294%    |
| 85.0               | 140.285       | 167.619     | 7733.309  | 2.133%      | 98.428%    |
| 90.0               | 40.354        | 49.460      | 7782.770  | .630%       | 99.057%    |
| 95.0               | 21.124        | 16.833      | 7799.603  | .214%       | 99.271%    |
| 100.0              | 17.005        | 10.361      | 7809.963  | .132%       | 99.403%    |
| 105.0              | 15.185        | 8.613       | 7818.576  | .110%       | 99.513%    |
| 110.0              | 13.852        | 7.590       | 7826.166  | .097%       | 99.609%    |
| 115.0              | 12.530        | 6.680       | 7832.846  | .085%       | 99.694%    |
| 120.0              | 10.926        | 5.702       | 7838.548  | .073%       | 99.767%    |
| 125.0              | 9.980         | 4.832       | 7843.380  | .062%       | 99.829%    |
| 130.0              | 6.828         | 3.655       | 7847.035  | .047%       | 99.875%    |
| 135.0              | 3.785         | 2.145       | 7849.180  | .027%       | 99.902%    |
| 140.0              | 2.673         | 1.196       | 7850.375  | .015%       | 99.918%    |
| 145.0              | 3.131         | .968        | 7851.344  | .012%       | 99.930%    |
| 150.0              | 3.545         | .983        | 7852.327  | .013%       | 99.942%    |
| 155.0              | 4.358         | 1.000       | 7853.327  | .013%       | 99.955%    |
| 160.0              | 5.453         | 1.029       | 7854.355  | .013%       | 99.968%    |
| 165.0              | 6.399         | .977        | 7855.332  | .012%       | 99.981%    |
| 170.0              | 7.087         | .800        | 7856.132  | .010%       | 99.991%    |
| 175.0              | 7.715         | .530        | 7856.661  | .007%       | 99.998%    |
| 180.0              | 8.163         | .190        | 7856.851  | .002%       | 100.000%   |

ZONAL LUMEN SUMMARY

| Zone    | Lumens  | %Lamp   | %Fixt   |
|---------|---------|---------|---------|
| 0-30    | 1632.87 | 20.78%  | 20.78%  |
| 0-40    | 2762.24 | 35.16%  | 35.16%  |
| 0-60    | 5412.06 | 68.88%  | 68.88%  |
| 0-90    | 7782.77 | 99.06%  | 99.06%  |
| 0-120   | 7838.55 | 99.77%  | 99.77%  |
| 0-180   | 7856.85 | 100.00% | 100.00% |
| 60-90   | 3041.70 | 38.71%  | 38.71%  |
| 90-120  | 105.24  | 1.34%   | 1.34%   |
| 90-130  | 113.73  | 1.45%   | 1.45%   |
| 90-150  | 119.02  | 1.51%   | 1.51%   |
| 90-180  | 123.35  | 1.57%   | 1.57%   |
| 0-66.87 | 6285.48 | 80.00%  | 80.00%  |

ZONAL LUMEN SUMMARY

|         |         |
|---------|---------|
| 0-10    | 197.85  |
| 10-20   | 558.30  |
| 20-30   | 876.72  |
| 30-40   | 1129.37 |
| 40-50   | 1300.90 |
| 50-60   | 1348.92 |
| 60-70   | 1250.08 |
| 70-80   | 903.55  |
| 80-90   | 217.08  |
| 90-100  | 27.19   |
| 100-110 | 16.20   |
| 110-120 | 12.38   |
| 120-130 | 8.49    |
| 130-140 | 3.34    |
| 140-150 | 1.95    |
| 150-160 | 2.03    |
| 160-170 | 1.78    |
| 170-180 | 0.53    |



C0(Max): ———

C0/C180: ———

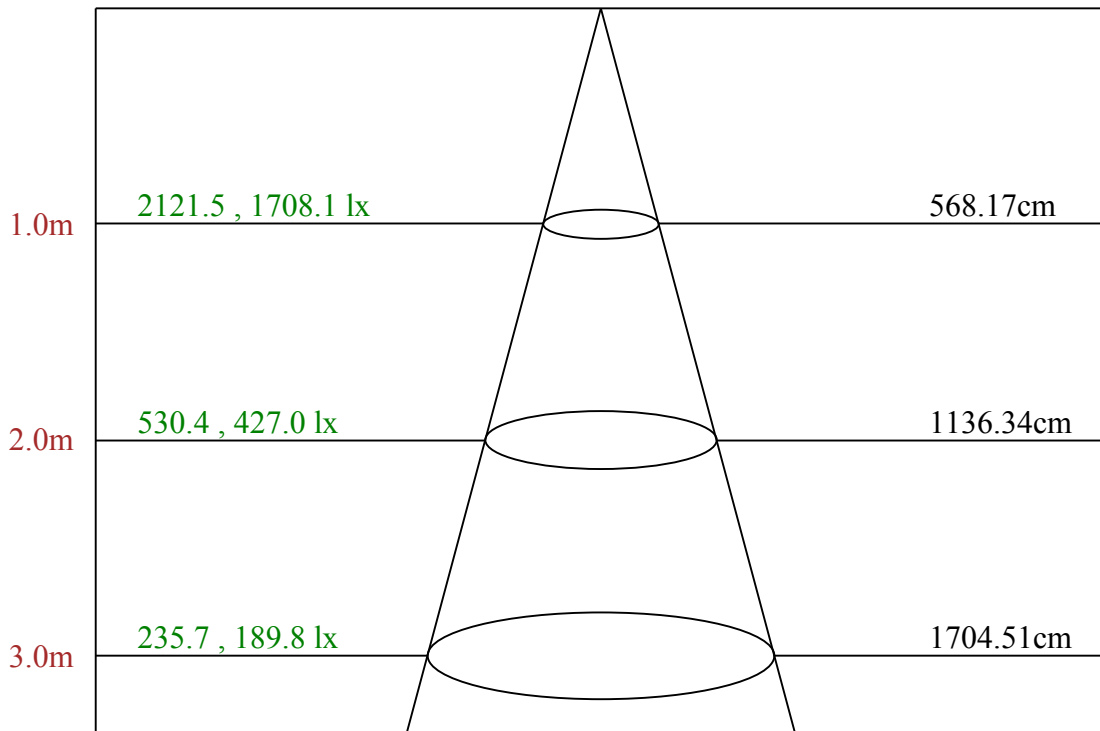
C90/C270: ———

Field angle(10%Imax):C0/180Left:83.9 Right:83.9

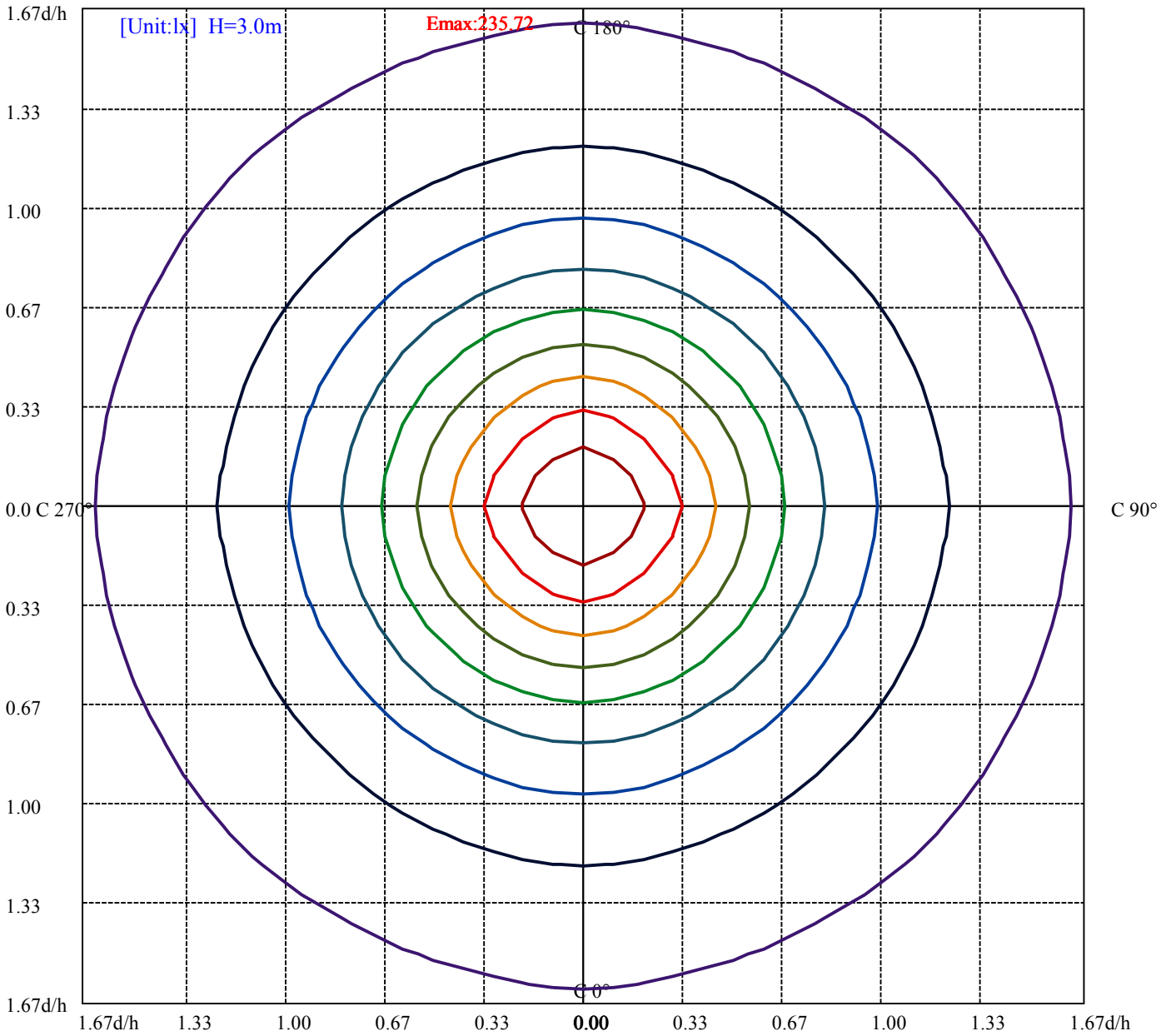
:C90/270Left:83.7 Right:83.7

Beam Angle(50%Imax):C0/180Left:70.5 Right:70.5

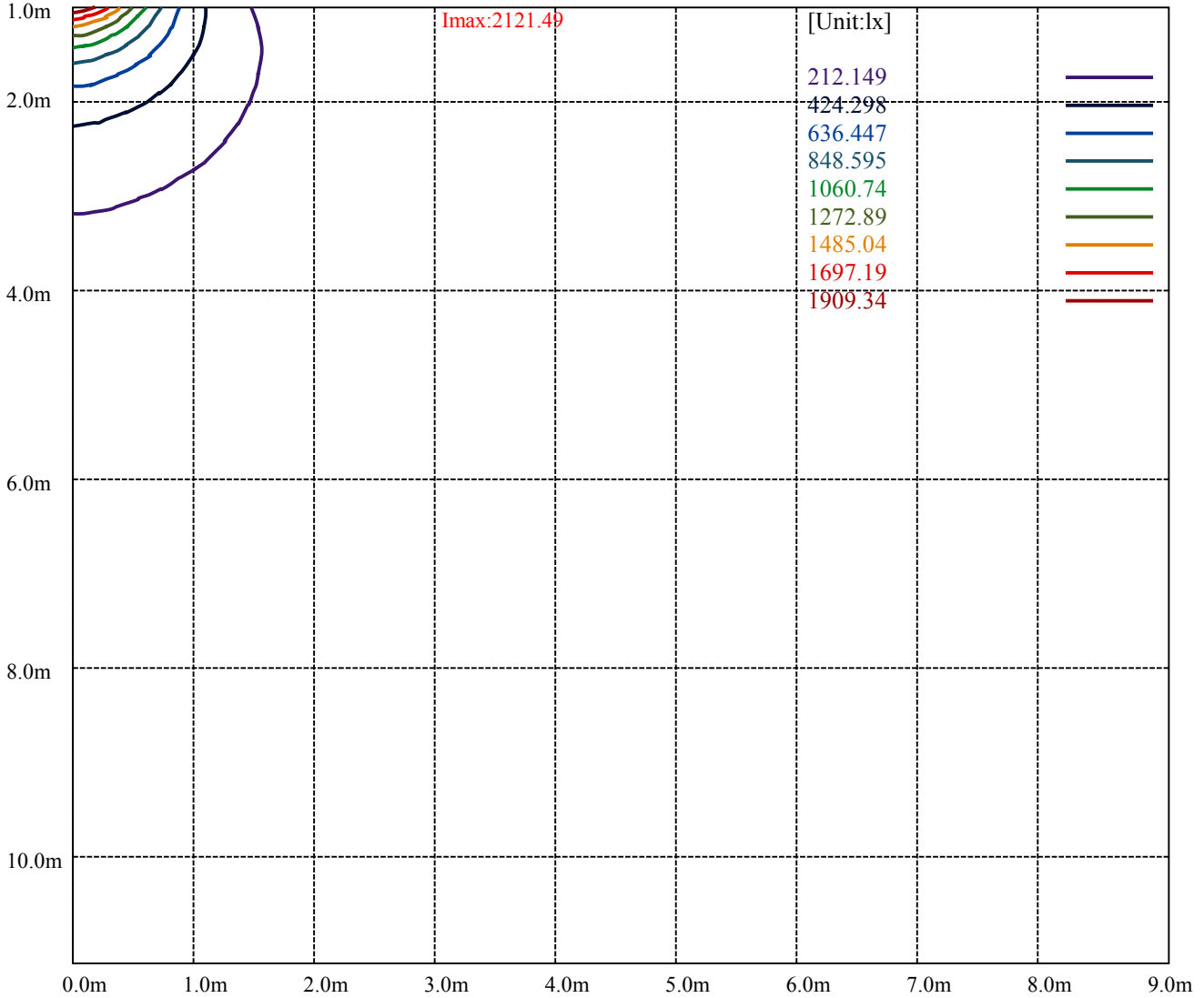
:C90/270Left:70.0 Right:70.0



Max , Ave      Beam angle of C0plane141.22



- (10%Emax) 23.57211
- (20%Emax) 47.14422
- (30%Emax) 70.71622
- (40%Emax) 94.28833
- (50%Emax) 117.86
- (60%Emax) 141.4322
- (70%Emax) 165.0045
- (80%Emax) 188.5767
- (90%Emax) 212.1489



Luminance Table

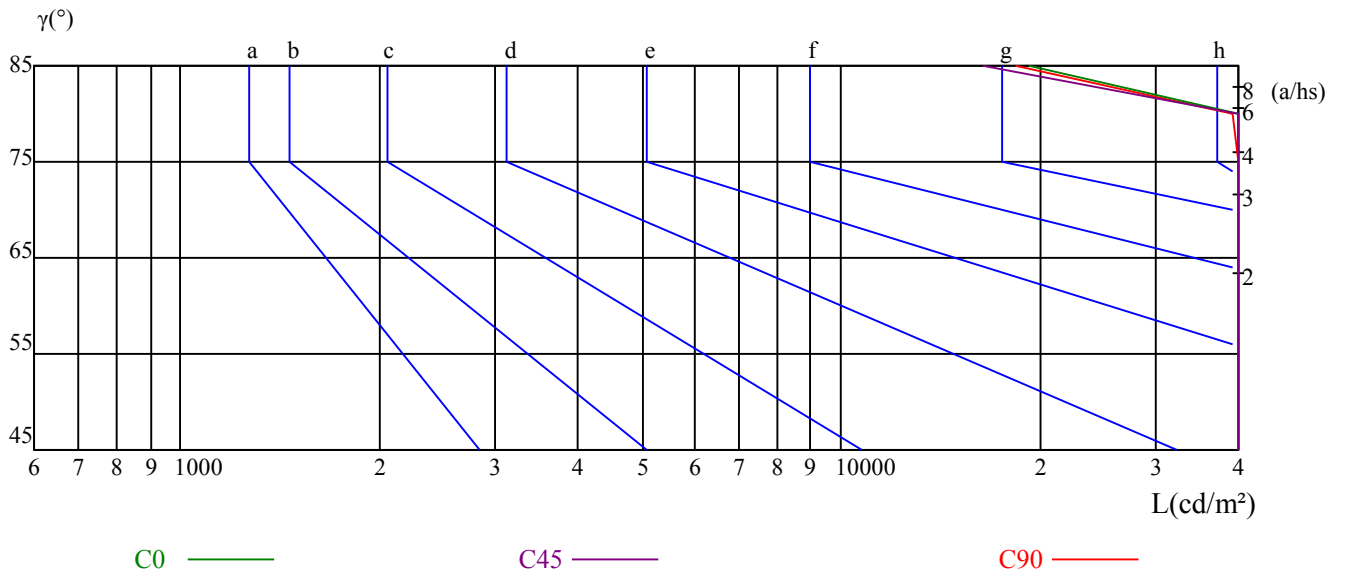
| $\gamma$ | 45    | 50    | 55    | 60    | 65    | 70    | 75    | 80    | 85    |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0       | 49527 | 51824 | 54233 | 54637 | 58881 | 57525 | 55820 | 41625 | 19213 |
| C45      | 46417 | 47905 | 50198 | 51712 | 52541 | 56710 | 66117 | 42557 | 16379 |
| C90      | 48346 | 50849 | 53089 | 54755 | 56498 | 56320 | 51569 | 39140 | 18376 |

| L横(65) | L纵(65) | L45(65) | L横(75) | L纵(75) | L45(75) | L横(85) | L纵(85) | L45(85) |
|--------|--------|---------|--------|--------|---------|--------|--------|---------|
| 67691  | 64951  | 63658   | 70354  | 64996  | 90463   | 34534  | 33030  | 34850   |

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     | 1.19                                    | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | 0.99 |
| 1     | 1.01                                    | 0.96 | 0.92 | 0.99 | 0.94 | 0.90 | 0.94 | 0.91 | 0.87 | 0.90 | 0.87 | 0.84 | 0.86 | 0.84 | 0.82 | 0.79 |
| 2     | 0.86                                    | 0.79 | 0.72 | 0.84 | 0.77 | 0.71 | 0.81 | 0.75 | 0.69 | 0.77 | 0.72 | 0.68 | 0.74 | 0.70 | 0.66 | 0.64 |
| 3     | 0.75                                    | 0.66 | 0.58 | 0.73 | 0.64 | 0.58 | 0.70 | 0.62 | 0.56 | 0.67 | 0.61 | 0.55 | 0.64 | 0.59 | 0.54 | 0.52 |
| 4     | 0.65                                    | 0.56 | 0.48 | 0.64 | 0.55 | 0.48 | 0.61 | 0.53 | 0.47 | 0.59 | 0.52 | 0.46 | 0.56 | 0.50 | 0.45 | 0.43 |
| 5     | 0.58                                    | 0.48 | 0.41 | 0.57 | 0.47 | 0.40 | 0.54 | 0.46 | 0.40 | 0.52 | 0.45 | 0.39 | 0.50 | 0.44 | 0.39 | 0.36 |
| 6     | 0.52                                    | 0.42 | 0.35 | 0.51 | 0.41 | 0.35 | 0.49 | 0.40 | 0.34 | 0.47 | 0.39 | 0.34 | 0.45 | 0.39 | 0.34 | 0.31 |
| 7     | 0.46                                    | 0.37 | 0.31 | 0.46 | 0.37 | 0.30 | 0.44 | 0.36 | 0.30 | 0.42 | 0.35 | 0.30 | 0.41 | 0.34 | 0.29 | 0.27 |
| 8     | 0.42                                    | 0.33 | 0.27 | 0.41 | 0.33 | 0.27 | 0.40 | 0.32 | 0.27 | 0.39 | 0.32 | 0.26 | 0.37 | 0.31 | 0.26 | 0.24 |
| 9     | 0.39                                    | 0.30 | 0.24 | 0.38 | 0.30 | 0.24 | 0.37 | 0.29 | 0.24 | 0.35 | 0.29 | 0.24 | 0.34 | 0.28 | 0.23 | 0.21 |
| 10    | 0.35                                    | 0.27 | 0.22 | 0.35 | 0.27 | 0.22 | 0.34 | 0.26 | 0.21 | 0.33 | 0.26 | 0.21 | 0.32 | 0.26 | 0.21 | 0.19 |

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Intensity data(cd)

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| C/γ(°) | 0.0     | 5.0     | 10.0    | 15.0    | 20.0    | 25.0    | 30.0    | 35.0    | 40.0    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.0    | 2121.49 | 2108.76 | 2039.77 | 2006.55 | 1961.43 | 1935.76 | 1882.71 | 1832.77 | 1784.90 |
| 15.0   | 2121.49 | 2093.36 | 2022.26 | 1977.97 | 1949.17 | 1913.04 | 1867.85 | 1810.25 | 1753.68 |
| 30.0   | 2121.49 | 2094.01 | 2020.87 | 1957.90 | 1916.21 | 1882.73 | 1860.11 | 1801.36 | 1738.84 |
| 45.0   | 2121.49 | 2094.87 | 2022.55 | 1946.23 | 1914.06 | 1884.11 | 1832.88 | 1796.71 | 1738.11 |
| 60.0   | 2121.49 | 2094.64 | 2021.63 | 1956.82 | 1916.44 | 1882.93 | 1848.09 | 1788.61 | 1719.39 |
| 75.0   | 2121.49 | 2097.06 | 2023.73 | 1972.18 | 1939.52 | 1907.08 | 1849.97 | 1787.10 | 1741.99 |
| 90.0   | 2121.49 | 2099.70 | 2036.10 | 1994.29 | 1944.92 | 1911.56 | 1851.97 | 1801.71 | 1750.56 |
| 105.0  | 2121.49 | 2097.06 | 2023.73 | 1972.18 | 1939.52 | 1907.08 | 1849.97 | 1787.10 | 1741.99 |
| 120.0  | 2121.49 | 2094.64 | 2021.63 | 1956.82 | 1916.44 | 1882.93 | 1848.09 | 1788.61 | 1719.39 |
| 135.0  | 2121.49 | 2094.87 | 2022.55 | 1946.23 | 1914.06 | 1884.11 | 1832.88 | 1796.71 | 1738.11 |
| 150.0  | 2121.49 | 2094.01 | 2020.87 | 1957.90 | 1916.21 | 1882.73 | 1860.11 | 1801.36 | 1738.84 |
| 165.0  | 2121.49 | 2093.36 | 2022.26 | 1977.97 | 1949.17 | 1913.04 | 1867.85 | 1810.25 | 1753.68 |
| 180.0  | 2121.49 | 2108.76 | 2039.77 | 2006.55 | 1961.43 | 1935.76 | 1882.71 | 1832.77 | 1784.90 |
| 195.0  | 2121.49 | 2093.36 | 2022.26 | 1977.97 | 1949.17 | 1913.04 | 1867.85 | 1810.25 | 1753.68 |
| 210.0  | 2121.49 | 2094.01 | 2020.87 | 1957.90 | 1916.21 | 1882.73 | 1860.11 | 1801.36 | 1738.84 |
| 225.0  | 2121.49 | 2094.87 | 2022.55 | 1946.23 | 1914.06 | 1884.11 | 1832.88 | 1796.71 | 1738.11 |
| 240.0  | 2121.49 | 2094.64 | 2021.63 | 1956.82 | 1916.44 | 1882.93 | 1848.09 | 1788.61 | 1719.39 |
| 255.0  | 2121.49 | 2097.06 | 2023.73 | 1972.18 | 1939.52 | 1907.08 | 1849.97 | 1787.10 | 1741.99 |
| 270.0  | 2121.49 | 2099.70 | 2036.10 | 1994.29 | 1944.92 | 1911.56 | 1851.97 | 1801.71 | 1750.56 |
| 285.0  | 2121.49 | 2097.06 | 2023.73 | 1972.18 | 1939.52 | 1907.08 | 1849.97 | 1787.10 | 1741.99 |
| 300.0  | 2121.49 | 2094.64 | 2021.63 | 1956.82 | 1916.44 | 1882.93 | 1848.09 | 1788.61 | 1719.39 |
| 315.0  | 2121.49 | 2094.87 | 2022.55 | 1946.23 | 1914.06 | 1884.11 | 1832.88 | 1796.71 | 1738.11 |
| 330.0  | 2121.49 | 2094.01 | 2020.87 | 1957.90 | 1916.21 | 1882.73 | 1860.11 | 1801.36 | 1738.84 |
| 345.0  | 2121.49 | 2093.36 | 2022.26 | 1977.97 | 1949.17 | 1913.04 | 1867.85 | 1810.25 | 1753.68 |
| 360.0  | 2121.49 | 2108.76 | 2039.77 | 2006.55 | 1961.43 | 1935.76 | 1882.71 | 1832.77 | 1784.90 |

| C/γ(°) | 45.0    | 50.0    | 55.0    | 60.0    | 65.0    | 70.0    | 75.0    | 80.0   | 85.0   |
|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0.0    | 1731.78 | 1667.87 | 1581.17 | 1415.40 | 1322.38 | 1083.80 | 841.71  | 466.32 | 139.13 |
| 15.0   | 1704.76 | 1618.67 | 1490.84 | 1414.98 | 1297.19 | 1099.85 | 873.88  | 475.40 | 142.24 |
| 30.0   | 1683.87 | 1599.09 | 1505.05 | 1379.57 | 1277.52 | 1141.30 | 985.17  | 481.54 | 141.68 |
| 45.0   | 1666.87 | 1590.78 | 1518.46 | 1399.43 | 1243.59 | 1139.62 | 1082.29 | 532.75 | 140.40 |
| 60.0   | 1669.12 | 1591.85 | 1492.28 | 1373.42 | 1248.91 | 1121.32 | 940.37  | 473.56 | 144.88 |
| 75.0   | 1677.26 | 1611.37 | 1472.11 | 1389.64 | 1250.10 | 1085.56 | 820.12  | 443.89 | 136.40 |
| 90.0   | 1690.48 | 1636.48 | 1547.84 | 1418.46 | 1268.85 | 1061.10 | 777.61  | 438.49 | 133.07 |
| 105.0  | 1677.26 | 1611.37 | 1472.11 | 1389.64 | 1250.10 | 1085.56 | 820.12  | 443.89 | 136.40 |
| 120.0  | 1669.12 | 1591.85 | 1492.28 | 1373.42 | 1248.91 | 1121.32 | 940.37  | 473.56 | 144.88 |
| 135.0  | 1666.87 | 1590.78 | 1518.46 | 1399.43 | 1243.59 | 1139.62 | 1082.29 | 532.75 | 140.40 |
| 150.0  | 1683.87 | 1599.09 | 1505.05 | 1379.57 | 1277.52 | 1141.30 | 985.17  | 481.54 | 141.68 |
| 165.0  | 1704.76 | 1618.67 | 1490.84 | 1414.98 | 1297.19 | 1099.85 | 873.88  | 475.40 | 142.24 |
| 180.0  | 1731.78 | 1667.87 | 1581.17 | 1415.40 | 1322.38 | 1083.80 | 841.71  | 466.32 | 139.13 |
| 195.0  | 1704.76 | 1618.67 | 1490.84 | 1414.98 | 1297.19 | 1099.85 | 873.88  | 475.40 | 142.24 |
| 210.0  | 1683.87 | 1599.09 | 1505.05 | 1379.57 | 1277.52 | 1141.30 | 985.17  | 481.54 | 141.68 |
| 225.0  | 1666.87 | 1590.78 | 1518.46 | 1399.43 | 1243.59 | 1139.62 | 1082.29 | 532.75 | 140.40 |
| 240.0  | 1669.12 | 1591.85 | 1492.28 | 1373.42 | 1248.91 | 1121.32 | 940.37  | 473.56 | 144.88 |
| 255.0  | 1677.26 | 1611.37 | 1472.11 | 1389.64 | 1250.10 | 1085.56 | 820.12  | 443.89 | 136.40 |
| 270.0  | 1690.48 | 1636.48 | 1547.84 | 1418.46 | 1268.85 | 1061.10 | 777.61  | 438.49 | 133.07 |
| 285.0  | 1677.26 | 1611.37 | 1472.11 | 1389.64 | 1250.10 | 1085.56 | 820.12  | 443.89 | 136.40 |
| 300.0  | 1669.12 | 1591.85 | 1492.28 | 1373.42 | 1248.91 | 1121.32 | 940.37  | 473.56 | 144.88 |
| 315.0  | 1666.87 | 1590.78 | 1518.46 | 1399.43 | 1243.59 | 1139.62 | 1082.29 | 532.75 | 140.40 |
| 330.0  | 1683.87 | 1599.09 | 1505.05 | 1379.57 | 1277.52 | 1141.30 | 985.17  | 481.54 | 141.68 |
| 345.0  | 1704.76 | 1618.67 | 1490.84 | 1414.98 | 1297.19 | 1099.85 | 873.88  | 475.40 | 142.24 |
| 360.0  | 1731.78 | 1667.87 | 1581.17 | 1415.40 | 1322.38 | 1083.80 | 841.71  | 466.32 | 139.13 |

## 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    | 40.71 | 25.85 | 22.98 | 21.35 | 19.86 | 18.49 | 15.58 | 15.80 | 10.84 |
| 15.0   | 40.84 | 24.72 | 21.64 | 19.29 | 17.34 | 15.79 | 14.35 | 14.73 | 8.86  |
| 30.0   | 41.79 | 22.45 | 18.29 | 15.61 | 13.54 | 11.79 | 10.20 | 7.74  | 5.50  |
| 45.0   | 42.35 | 20.81 | 14.93 | 12.82 | 11.31 | 9.85  | 8.07  | 5.81  | 2.82  |
| 60.0   | 40.65 | 18.84 | 13.98 | 12.47 | 11.56 | 10.10 | 8.61  | 7.46  | 5.35  |
| 75.0   | 37.55 | 18.20 | 14.46 | 13.22 | 12.64 | 11.89 | 10.89 | 10.69 | 8.20  |
| 90.0   | 37.18 | 17.61 | 14.50 | 14.05 | 13.57 | 13.03 | 11.30 | 11.12 | 9.65  |
| 105.0  | 37.55 | 18.20 | 14.46 | 13.22 | 12.64 | 11.89 | 10.89 | 10.69 | 8.20  |
| 120.0  | 40.65 | 18.84 | 13.98 | 12.47 | 11.56 | 10.10 | 8.61  | 7.46  | 5.35  |
| 135.0  | 42.35 | 20.81 | 14.93 | 12.82 | 11.31 | 9.85  | 8.07  | 5.81  | 2.82  |
| 150.0  | 41.79 | 22.45 | 18.29 | 15.61 | 13.54 | 11.79 | 10.20 | 7.74  | 5.50  |
| 165.0  | 40.84 | 24.72 | 21.64 | 19.29 | 17.34 | 15.79 | 14.35 | 14.73 | 8.86  |
| 180.0  | 40.71 | 25.85 | 22.98 | 21.35 | 19.86 | 18.49 | 15.58 | 15.80 | 10.84 |
| 195.0  | 40.84 | 24.72 | 21.64 | 19.29 | 17.34 | 15.79 | 14.35 | 14.73 | 8.86  |
| 210.0  | 41.79 | 22.45 | 18.29 | 15.61 | 13.54 | 11.79 | 10.20 | 7.74  | 5.50  |
| 225.0  | 42.35 | 20.81 | 14.93 | 12.82 | 11.31 | 9.85  | 8.07  | 5.81  | 2.82  |
| 240.0  | 40.65 | 18.84 | 13.98 | 12.47 | 11.56 | 10.10 | 8.61  | 7.46  | 5.35  |
| 255.0  | 37.55 | 18.20 | 14.46 | 13.22 | 12.64 | 11.89 | 10.89 | 10.69 | 8.20  |
| 270.0  | 37.18 | 17.61 | 14.50 | 14.05 | 13.57 | 13.03 | 11.30 | 11.12 | 9.65  |
| 285.0  | 37.55 | 18.20 | 14.46 | 13.22 | 12.64 | 11.89 | 10.89 | 10.69 | 8.20  |
| 300.0  | 40.65 | 18.84 | 13.98 | 12.47 | 11.56 | 10.10 | 8.61  | 7.46  | 5.35  |
| 315.0  | 42.35 | 20.81 | 14.93 | 12.82 | 11.31 | 9.85  | 8.07  | 5.81  | 2.82  |
| 330.0  | 41.79 | 22.45 | 18.29 | 15.61 | 13.54 | 11.79 | 10.20 | 7.74  | 5.50  |
| 345.0  | 40.84 | 24.72 | 21.64 | 19.29 | 17.34 | 15.79 | 14.35 | 14.73 | 8.86  |
| 360.0  | 40.71 | 25.85 | 22.98 | 21.35 | 19.86 | 18.49 | 15.58 | 15.80 | 10.84 |
| C/γ(°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
| 0.0    | 5.88  | 2.70  | 3.18  | 3.62  | 4.37  | 5.48  | 6.41  | 7.12  | 7.83  |
| 15.0   | 4.76  | 2.68  | 3.17  | 3.54  | 4.34  | 5.52  | 6.40  | 7.11  | 7.69  |
| 30.0   | 2.59  | 2.68  | 3.13  | 3.57  | 4.37  | 5.45  | 6.38  | 7.12  | 7.74  |
| 45.0   | 2.42  | 2.68  | 3.11  | 3.53  | 4.35  | 5.44  | 6.43  | 7.05  | 7.65  |
| 60.0   | 2.64  | 2.64  | 3.08  | 3.53  | 4.37  | 5.39  | 6.37  | 7.06  | 7.70  |
| 75.0   | 4.60  | 2.62  | 3.16  | 3.51  | 4.33  | 5.47  | 6.40  | 7.09  | 7.73  |
| 90.0   | 5.51  | 2.76  | 3.11  | 3.56  | 4.40  | 5.43  | 6.40  | 7.07  | 7.74  |
| 105.0  | 4.60  | 2.62  | 3.16  | 3.51  | 4.33  | 5.47  | 6.40  | 7.09  | 7.73  |
| 120.0  | 2.64  | 2.64  | 3.08  | 3.53  | 4.37  | 5.39  | 6.37  | 7.06  | 7.70  |
| 135.0  | 2.42  | 2.68  | 3.11  | 3.53  | 4.35  | 5.44  | 6.43  | 7.05  | 7.65  |
| 150.0  | 2.59  | 2.68  | 3.13  | 3.57  | 4.37  | 5.45  | 6.38  | 7.12  | 7.74  |
| 165.0  | 4.76  | 2.68  | 3.17  | 3.54  | 4.34  | 5.52  | 6.40  | 7.11  | 7.69  |
| 180.0  | 5.88  | 2.70  | 3.18  | 3.62  | 4.37  | 5.48  | 6.41  | 7.12  | 7.83  |
| 195.0  | 4.76  | 2.68  | 3.17  | 3.54  | 4.34  | 5.52  | 6.40  | 7.11  | 7.69  |
| 210.0  | 2.59  | 2.68  | 3.13  | 3.57  | 4.37  | 5.45  | 6.38  | 7.12  | 7.74  |
| 225.0  | 2.42  | 2.68  | 3.11  | 3.53  | 4.35  | 5.44  | 6.43  | 7.05  | 7.65  |
| 240.0  | 2.64  | 2.64  | 3.08  | 3.53  | 4.37  | 5.39  | 6.37  | 7.06  | 7.70  |
| 255.0  | 4.60  | 2.62  | 3.16  | 3.51  | 4.33  | 5.47  | 6.40  | 7.09  | 7.73  |
| 270.0  | 5.51  | 2.76  | 3.11  | 3.56  | 4.40  | 5.43  | 6.40  | 7.07  | 7.74  |
| 285.0  | 4.60  | 2.62  | 3.16  | 3.51  | 4.33  | 5.47  | 6.40  | 7.09  | 7.73  |
| 300.0  | 2.64  | 2.64  | 3.08  | 3.53  | 4.37  | 5.39  | 6.37  | 7.06  | 7.70  |
| 315.0  | 2.42  | 2.68  | 3.11  | 3.53  | 4.35  | 5.44  | 6.43  | 7.05  | 7.65  |
| 330.0  | 2.59  | 2.68  | 3.13  | 3.57  | 4.37  | 5.45  | 6.38  | 7.12  | 7.74  |
| 345.0  | 4.76  | 2.68  | 3.17  | 3.54  | 4.34  | 5.52  | 6.40  | 7.11  | 7.69  |
| 360.0  | 5.88  | 2.70  | 3.18  | 3.62  | 4.37  | 5.48  | 6.41  | 7.12  | 7.83  |

Intensity data(cd)

|        |       |
|--------|-------|
| C/γ(°) | 180.0 |
| 0.0    | 8.23  |
| 15.0   | 8.24  |
| 30.0   | 8.07  |
| 45.0   | 8.16  |
| 60.0   | 8.12  |
| 75.0   | 8.18  |
| 90.0   | 8.18  |
| 105.0  | 8.18  |
| 120.0  | 8.12  |
| 135.0  | 8.16  |
| 150.0  | 8.07  |
| 165.0  | 8.24  |
| 180.0  | 8.23  |
| 195.0  | 8.24  |
| 210.0  | 8.07  |
| 225.0  | 8.16  |
| 240.0  | 8.12  |
| 255.0  | 8.18  |
| 270.0  | 8.18  |
| 285.0  | 8.18  |
| 300.0  | 8.12  |
| 315.0  | 8.16  |
| 330.0  | 8.07  |
| 345.0  | 8.24  |
| 360.0  | 8.23  |