

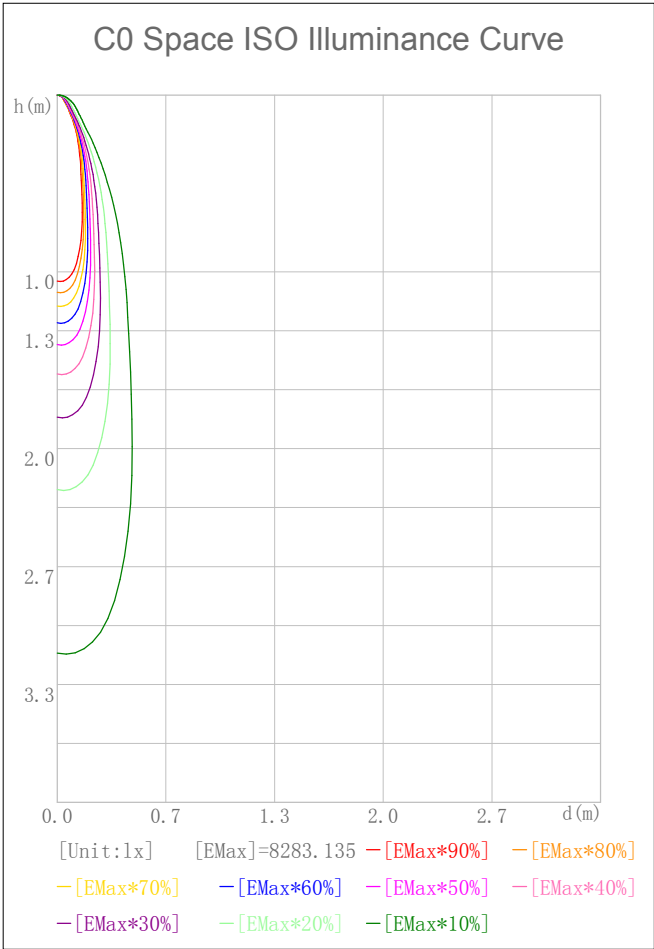
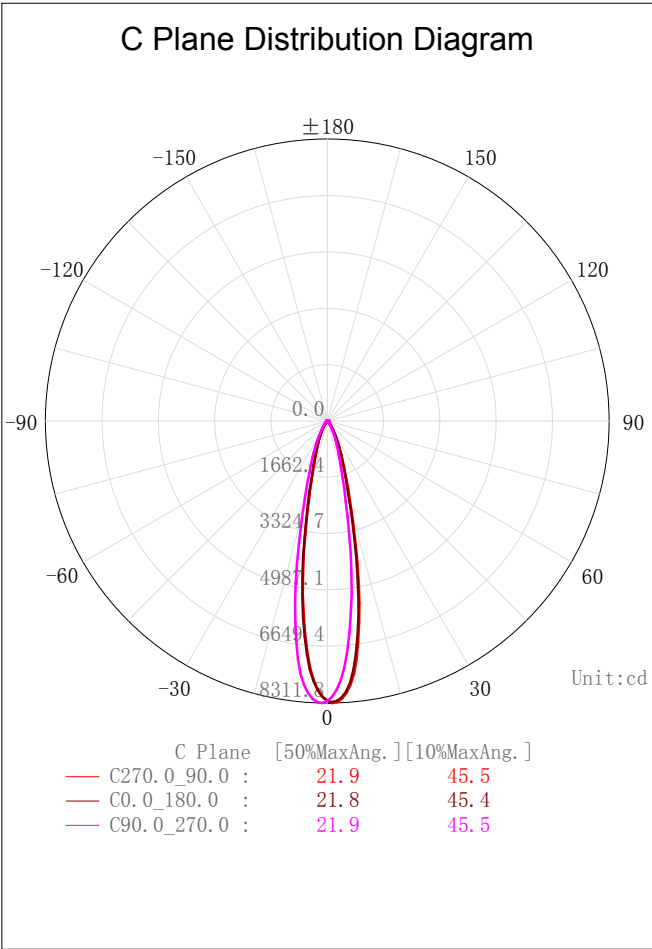
Indoor Luminaire Photometric Data

Description Information

| | | | |
|---|-------------------------|--------------------|-----------------------|
| Luminary Name: TR04-25-XX-01 3000K RA90 18D | | Lum. Catalog: | Test ID: QIU MEI |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2019/09/17 |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | | Shld.Ang(°): | Test Machine:GON-2000 |
| Test Lab: Quality Department | | Frequency(Hz): | Lamp CCT(K): Ra: |
| Lum.Size(W*L*H):0.060m*0.060m*0.250m | | Lum.Area(m2):0.019 | Lum.W(kg): 0.000 |
| Test System: C, γ | Test Step: C=90.0 γ=1.0 | Temp.(°C): 25 | Humidity(%): 50.0 |

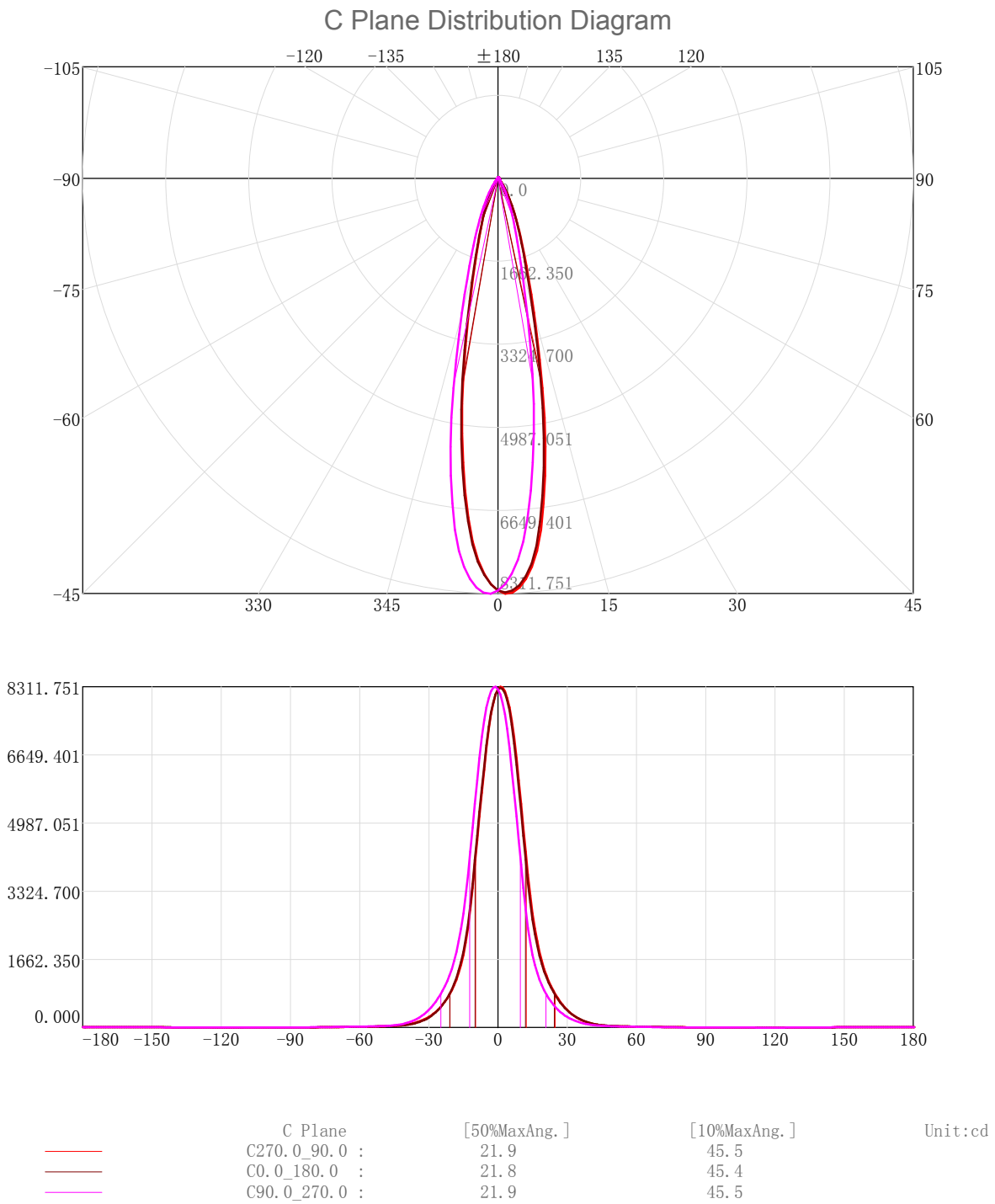
Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|--|---------------------------------|--|--|
| Rated Flux(lm): 1834.050 | Luminary Flux(lm): 1834.049 | Field Angle(10%Imax): 45.5(°) | |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 1796.489lm 97.95% | |
| Rated Voltage(V): | Luminary EER(lm/W): 75.725 | Up Lumens&Percent: 37.560lm 2.05% | |
| Tested Power(W): 24.220 | Max. Candela(cd): 8311.751 | S/MH: C0_a180=0.373 C90_270=0.376 | |
| Lamps' Inside: 1 | Max Cand@Ang.(°): C=270.0 γ=1.0 | CIE Type: Semi-Direct | |
| Tested Electrics(V, A, pf):239.6, 0.103, 0.980 | | ErP Φuse(90°): 1618.330lm | |
| Lamp Size(W*L*H):0.060m*0.060m*0.250m | Left=-9.7°,Right=12.2° | IRF(%): 928.342 | |



2D Plane Light Intensity Distribution Curve

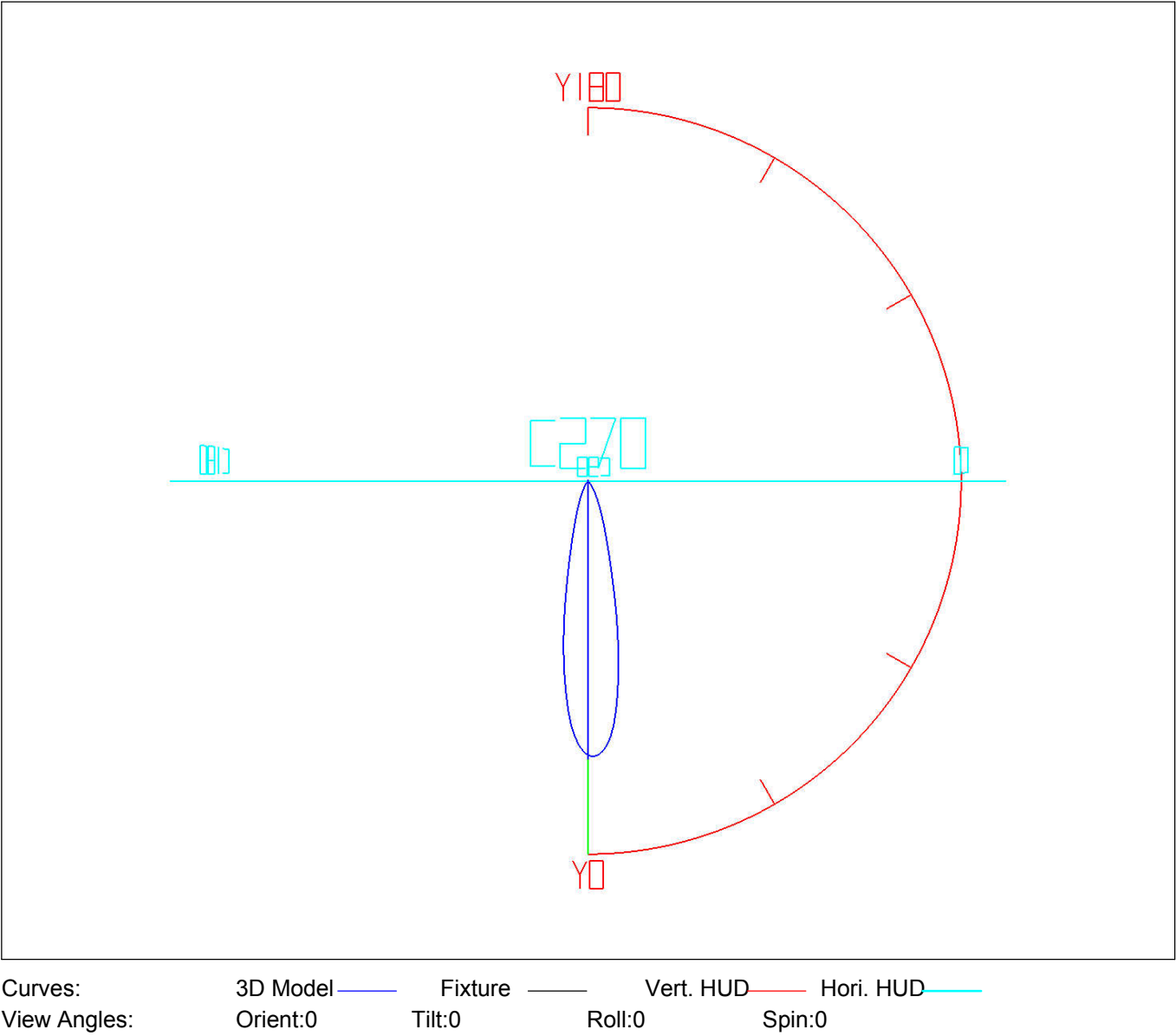
| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |



3D Light Intensity Distribution Modal

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |

3D Light Intensity Distribution Modal



IES Indoor Report

Photometric Filename:TR04-25-XX-01 3000K RA90 18D.IES

Zonal Flux Tabulation

| Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|------------|-------------------|-------------------|-----------|-----------|------------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0 | 7.88 | 7.88 | 0.43 | 0.43 | 47.0-48.0 | 3.54 | 1721.75 | 0.19 | 93.88 |
| 1.0-2.0 | 23.41 | 31.29 | 1.28 | 1.71 | 48.0-49.0 | 3.36 | 1725.11 | 0.18 | 94.06 |
| 2.0-3.0 | 38.31 | 69.60 | 2.09 | 3.80 | 49.0-50.0 | 3.20 | 1728.31 | 0.17 | 94.23 |
| 3.0-4.0 | 52.15 | 121.75 | 2.84 | 6.64 | 50.0-51.0 | 3.06 | 1731.38 | 0.17 | 94.40 |
| 4.0-5.0 | 64.40 | 186.15 | 3.51 | 10.15 | 51.0-52.0 | 2.95 | 1734.33 | 0.16 | 94.56 |
| 5.0-6.0 | 74.59 | 260.74 | 4.07 | 14.22 | 52.0-53.0 | 2.86 | 1737.18 | 0.16 | 94.72 |
| 6.0-7.0 | 82.40 | 343.15 | 4.49 | 18.71 | 53.0-54.0 | 2.77 | 1739.96 | 0.15 | 94.87 |
| 7.0-8.0 | 87.60 | 430.75 | 4.78 | 23.49 | 54.0-55.0 | 2.69 | 1742.65 | 0.15 | 95.02 |
| 8.0-9.0 | 90.20 | 520.94 | 4.92 | 28.40 | 55.0-56.0 | 2.63 | 1745.28 | 0.14 | 95.16 |
| 9.0-10.0 | 90.31 | 611.25 | 4.92 | 33.33 | 56.0-57.0 | 2.56 | 1747.84 | 0.14 | 95.30 |
| 10.0-11.0 | 88.08 | 699.33 | 4.80 | 38.13 | 57.0-58.0 | 2.50 | 1750.34 | 0.14 | 95.44 |
| 11.0-12.0 | 83.90 | 783.23 | 4.57 | 42.70 | 58.0-59.0 | 2.44 | 1752.78 | 0.13 | 95.57 |
| 12.0-13.0 | 78.46 | 861.69 | 4.28 | 46.98 | 59.0-60.0 | 2.38 | 1755.16 | 0.13 | 95.70 |
| 13.0-14.0 | 72.63 | 934.32 | 3.96 | 50.94 | 60.0-61.0 | 2.32 | 1757.48 | 0.13 | 95.82 |
| 14.0-15.0 | 67.02 | 1001.34 | 3.65 | 54.60 | 61.0-62.0 | 2.25 | 1759.73 | 0.12 | 95.95 |
| 15.0-16.0 | 61.83 | 1063.17 | 3.37 | 57.97 | 62.0-63.0 | 2.19 | 1761.91 | 0.12 | 96.07 |
| 16.0-17.0 | 57.09 | 1120.26 | 3.11 | 61.08 | 63.0-64.0 | 2.12 | 1764.03 | 0.12 | 96.18 |
| 17.0-18.0 | 52.80 | 1173.06 | 2.88 | 63.96 | 64.0-65.0 | 2.05 | 1766.08 | 0.11 | 96.29 |
| 18.0-19.0 | 48.93 | 1221.99 | 2.67 | 66.63 | 65.0-66.0 | 1.97 | 1768.05 | 0.11 | 96.40 |
| 19.0-20.0 | 45.41 | 1267.40 | 2.48 | 69.10 | 66.0-67.0 | 1.90 | 1769.95 | 0.10 | 96.50 |
| 20.0-21.0 | 42.21 | 1309.61 | 2.30 | 71.41 | 67.0-68.0 | 1.83 | 1771.78 | 0.10 | 96.60 |
| 21.0-22.0 | 39.22 | 1348.82 | 2.14 | 73.54 | 68.0-69.0 | 1.76 | 1773.53 | 0.10 | 96.70 |
| 22.0-23.0 | 36.37 | 1385.20 | 1.98 | 75.53 | 69.0-70.0 | 1.69 | 1775.22 | 0.09 | 96.79 |
| 23.0-24.0 | 33.64 | 1418.84 | 1.83 | 77.36 | 70.0-71.0 | 1.62 | 1776.84 | 0.09 | 96.88 |
| 24.0-25.0 | 31.02 | 1449.86 | 1.69 | 79.05 | 71.0-72.0 | 1.55 | 1778.38 | 0.08 | 96.96 |
| 25.0-26.0 | 28.51 | 1478.37 | 1.55 | 80.61 | 72.0-73.0 | 1.48 | 1779.87 | 0.08 | 97.05 |
| 26.0-27.0 | 26.12 | 1504.49 | 1.42 | 82.03 | 73.0-74.0 | 1.42 | 1781.28 | 0.08 | 97.12 |
| 27.0-28.0 | 23.85 | 1528.34 | 1.30 | 83.33 | 74.0-75.0 | 1.35 | 1782.64 | 0.07 | 97.20 |
| 28.0-29.0 | 21.70 | 1550.05 | 1.18 | 84.51 | 75.0-76.0 | 1.30 | 1783.93 | 0.07 | 97.27 |
| 29.0-30.0 | 19.69 | 1569.73 | 1.07 | 85.59 | 76.0-77.0 | 1.24 | 1785.17 | 0.07 | 97.33 |
| 30.0-31.0 | 17.81 | 1587.54 | 0.97 | 86.56 | 77.0-78.0 | 1.18 | 1786.35 | 0.06 | 97.40 |
| 31.0-32.0 | 16.07 | 1603.62 | 0.88 | 87.44 | 78.0-79.0 | 1.13 | 1787.47 | 0.06 | 97.46 |
| 32.0-33.0 | 14.46 | 1618.07 | 0.79 | 88.22 | 79.0-80.0 | 1.07 | 1788.54 | 0.06 | 97.52 |
| 33.0-34.0 | 12.98 | 1631.06 | 0.71 | 88.93 | 80.0-81.0 | 1.01 | 1789.56 | 0.06 | 97.57 |
| 34.0-35.0 | 11.65 | 1642.71 | 0.64 | 89.57 | 81.0-82.0 | 0.96 | 1790.52 | 0.05 | 97.63 |
| 35.0-36.0 | 10.44 | 1653.15 | 0.57 | 90.14 | 82.0-83.0 | 0.91 | 1791.43 | 0.05 | 97.68 |
| 36.0-37.0 | 9.36 | 1662.51 | 0.51 | 90.65 | 83.0-84.0 | 0.86 | 1792.29 | 0.05 | 97.72 |
| 37.0-38.0 | 8.40 | 1670.91 | 0.46 | 91.11 | 84.0-85.0 | 0.81 | 1793.10 | 0.04 | 97.77 |
| 38.0-39.0 | 7.55 | 1678.47 | 0.41 | 91.52 | 85.0-86.0 | 0.77 | 1793.87 | 0.04 | 97.81 |
| 39.0-40.0 | 6.79 | 1685.26 | 0.37 | 91.89 | 86.0-87.0 | 0.72 | 1794.59 | 0.04 | 97.85 |
| 40.0-41.0 | 6.11 | 1691.36 | 0.33 | 92.22 | 87.0-88.0 | 0.67 | 1795.26 | 0.04 | 97.88 |
| 41.0-42.0 | 5.49 | 1696.86 | 0.30 | 92.52 | 88.0-89.0 | 0.63 | 1795.89 | 0.03 | 97.92 |
| 42.0-43.0 | 4.96 | 1701.82 | 0.27 | 92.79 | 89.0-90.0 | 0.60 | 1796.49 | 0.03 | 97.95 |
| 43.0-44.0 | 4.53 | 1706.35 | 0.25 | 93.04 | 90.0-91.0 | 0.57 | 1797.06 | 0.03 | 97.98 |
| 44.0-45.0 | 4.20 | 1710.55 | 0.23 | 93.27 | 91.0-92.0 | 0.55 | 1797.61 | 0.03 | 98.01 |
| 45.0-46.0 | 3.94 | 1714.49 | 0.21 | 93.48 | 92.0-93.0 | 0.53 | 1798.15 | 0.03 | 98.04 |
| 46.0-47.0 | 3.73 | 1718.21 | 0.20 | 93.68 | 93.0-94.0 | 0.52 | 1798.66 | 0.03 | 98.07 |

IES Indoor Report

Photometric Filename:TR04-25-XX-01 3000K RA90 18D.IES

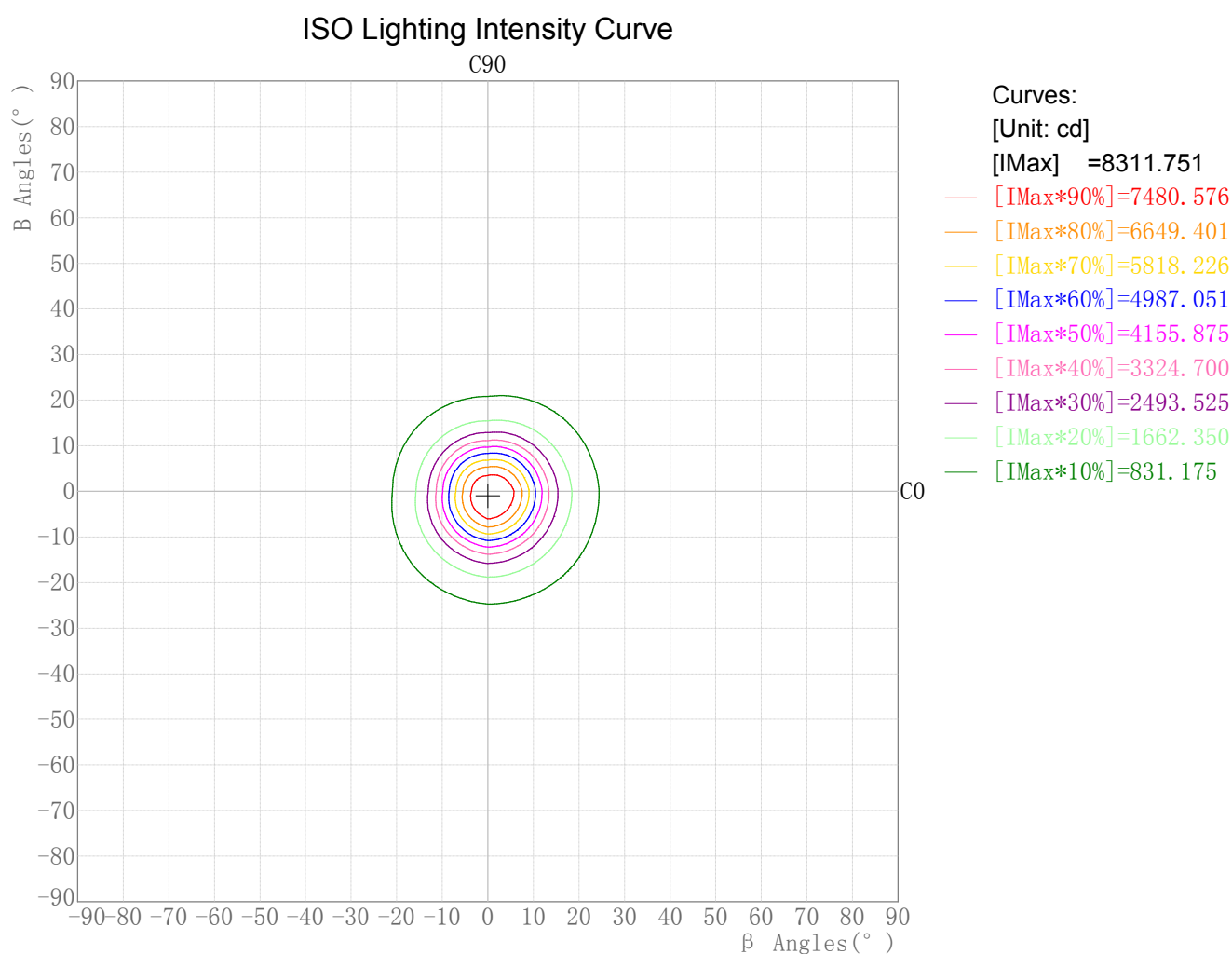
Zonal Flux Tabulation - (Cont.)

| Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone (γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|---------------|-------------------|-------------------|-----------|-----------|---------------|-------------------|-------------------|-----------|-----------|
| 94. 0-95. 0 | 0. 50 | 1799. 17 | 0. 03 | 98. 10 | 141. 0-142. 0 | 0. 57 | 1817. 70 | 0. 03 | 99. 11 |
| 95. 0-96. 0 | 0. 49 | 1799. 65 | 0. 03 | 98. 12 | 142. 0-143. 0 | 0. 59 | 1818. 29 | 0. 03 | 99. 14 |
| 96. 0-97. 0 | 0. 47 | 1800. 13 | 0. 03 | 98. 15 | 143. 0-144. 0 | 0. 61 | 1818. 90 | 0. 03 | 99. 17 |
| 97. 0-98. 0 | 0. 46 | 1800. 59 | 0. 03 | 98. 18 | 144. 0-145. 0 | 0. 62 | 1819. 52 | 0. 03 | 99. 21 |
| 98. 0-99. 0 | 0. 45 | 1801. 03 | 0. 02 | 98. 20 | 145. 0-146. 0 | 0. 63 | 1820. 15 | 0. 03 | 99. 24 |
| 99. 0-100. 0 | 0. 44 | 1801. 47 | 0. 02 | 98. 22 | 146. 0-147. 0 | 0. 64 | 1820. 79 | 0. 03 | 99. 28 |
| 100. 0-101. 0 | 0. 42 | 1801. 89 | 0. 02 | 98. 25 | 147. 0-148. 0 | 0. 65 | 1821. 44 | 0. 04 | 99. 31 |
| 101. 0-102. 0 | 0. 42 | 1802. 31 | 0. 02 | 98. 27 | 148. 0-149. 0 | 0. 65 | 1822. 09 | 0. 04 | 99. 35 |
| 102. 0-103. 0 | 0. 41 | 1802. 72 | 0. 02 | 98. 29 | 149. 0-150. 0 | 0. 65 | 1822. 74 | 0. 04 | 99. 38 |
| 103. 0-104. 0 | 0. 40 | 1803. 12 | 0. 02 | 98. 31 | 150. 0-151. 0 | 0. 65 | 1823. 39 | 0. 04 | 99. 42 |
| 104. 0-105. 0 | 0. 39 | 1803. 51 | 0. 02 | 98. 33 | 151. 0-152. 0 | 0. 64 | 1824. 04 | 0. 04 | 99. 45 |
| 105. 0-106. 0 | 0. 39 | 1803. 90 | 0. 02 | 98. 36 | 152. 0-153. 0 | 0. 64 | 1824. 67 | 0. 03 | 99. 49 |
| 106. 0-107. 0 | 0. 38 | 1804. 28 | 0. 02 | 98. 38 | 153. 0-154. 0 | 0. 63 | 1825. 30 | 0. 03 | 99. 52 |
| 107. 0-108. 0 | 0. 37 | 1804. 65 | 0. 02 | 98. 40 | 154. 0-155. 0 | 0. 61 | 1825. 91 | 0. 03 | 99. 56 |
| 108. 0-109. 0 | 0. 37 | 1805. 02 | 0. 02 | 98. 42 | 155. 0-156. 0 | 0. 60 | 1826. 51 | 0. 03 | 99. 59 |
| 109. 0-110. 0 | 0. 36 | 1805. 38 | 0. 02 | 98. 44 | 156. 0-157. 0 | 0. 58 | 1827. 10 | 0. 03 | 99. 62 |
| 110. 0-111. 0 | 0. 36 | 1805. 74 | 0. 02 | 98. 46 | 157. 0-158. 0 | 0. 57 | 1827. 67 | 0. 03 | 99. 65 |
| 111. 0-112. 0 | 0. 35 | 1806. 09 | 0. 02 | 98. 48 | 158. 0-159. 0 | 0. 55 | 1828. 21 | 0. 03 | 99. 68 |
| 112. 0-113. 0 | 0. 35 | 1806. 44 | 0. 02 | 98. 49 | 159. 0-160. 0 | 0. 53 | 1828. 74 | 0. 03 | 99. 71 |
| 113. 0-114. 0 | 0. 34 | 1806. 78 | 0. 02 | 98. 51 | 160. 0-161. 0 | 0. 51 | 1829. 25 | 0. 03 | 99. 74 |
| 114. 0-115. 0 | 0. 34 | 1807. 12 | 0. 02 | 98. 53 | 161. 0-162. 0 | 0. 49 | 1829. 73 | 0. 03 | 99. 76 |
| 115. 0-116. 0 | 0. 33 | 1807. 45 | 0. 02 | 98. 55 | 162. 0-163. 0 | 0. 46 | 1830. 20 | 0. 03 | 99. 79 |
| 116. 0-117. 0 | 0. 33 | 1807. 77 | 0. 02 | 98. 57 | 163. 0-164. 0 | 0. 44 | 1830. 64 | 0. 02 | 99. 81 |
| 117. 0-118. 0 | 0. 33 | 1808. 10 | 0. 02 | 98. 59 | 164. 0-165. 0 | 0. 41 | 1831. 05 | 0. 02 | 99. 84 |
| 118. 0-119. 0 | 0. 32 | 1808. 42 | 0. 02 | 98. 60 | 165. 0-166. 0 | 0. 39 | 1831. 44 | 0. 02 | 99. 86 |
| 119. 0-120. 0 | 0. 32 | 1808. 74 | 0. 02 | 98. 62 | 166. 0-167. 0 | 0. 36 | 1831. 80 | 0. 02 | 99. 88 |
| 120. 0-121. 0 | 0. 32 | 1809. 06 | 0. 02 | 98. 64 | 167. 0-168. 0 | 0. 34 | 1832. 14 | 0. 02 | 99. 90 |
| 121. 0-122. 0 | 0. 32 | 1809. 37 | 0. 02 | 98. 65 | 168. 0-169. 0 | 0. 31 | 1832. 45 | 0. 02 | 99. 91 |
| 122. 0-123. 0 | 0. 32 | 1809. 69 | 0. 02 | 98. 67 | 169. 0-170. 0 | 0. 28 | 1832. 73 | 0. 02 | 99. 93 |
| 123. 0-124. 0 | 0. 32 | 1810. 01 | 0. 02 | 98. 69 | 170. 0-171. 0 | 0. 25 | 1832. 98 | 0. 01 | 99. 94 |
| 124. 0-125. 0 | 0. 32 | 1810. 34 | 0. 02 | 98. 71 | 171. 0-172. 0 | 0. 23 | 1833. 21 | 0. 01 | 99. 95 |
| 125. 0-126. 0 | 0. 33 | 1810. 67 | 0. 02 | 98. 73 | 172. 0-173. 0 | 0. 20 | 1833. 41 | 0. 01 | 99. 96 |
| 126. 0-127. 0 | 0. 34 | 1811. 00 | 0. 02 | 98. 74 | 173. 0-174. 0 | 0. 17 | 1833. 58 | 0. 01 | 99. 97 |
| 127. 0-128. 0 | 0. 34 | 1811. 35 | 0. 02 | 98. 76 | 174. 0-175. 0 | 0. 14 | 1833. 72 | 0. 01 | 99. 98 |
| 128. 0-129. 0 | 0. 35 | 1811. 70 | 0. 02 | 98. 78 | 175. 0-176. 0 | 0. 12 | 1833. 84 | 0. 01 | 99. 99 |
| 129. 0-130. 0 | 0. 36 | 1812. 06 | 0. 02 | 98. 80 | 176. 0-177. 0 | 0. 09 | 1833. 93 | 0. 00 | 99. 99 |
| 130. 0-131. 0 | 0. 37 | 1812. 44 | 0. 02 | 98. 82 | 177. 0-178. 0 | 0. 07 | 1834. 00 | 0. 00 | 100. 00 |
| 131. 0-132. 0 | 0. 39 | 1812. 82 | 0. 02 | 98. 84 | 178. 0-179. 0 | 0. 04 | 1834. 04 | 0. 00 | 100. 00 |
| 132. 0-133. 0 | 0. 40 | 1813. 23 | 0. 02 | 98. 86 | 179. 0-180. 0 | 0. 01 | 1834. 05 | 0. 00 | 100. 00 |
| 133. 0-134. 0 | 0. 42 | 1813. 65 | 0. 02 | 98. 89 | | | | | |
| 134. 0-135. 0 | 0. 44 | 1814. 09 | 0. 02 | 98. 91 | | | | | |
| 135. 0-136. 0 | 0. 46 | 1814. 55 | 0. 02 | 98. 94 | | | | | |
| 136. 0-137. 0 | 0. 48 | 1815. 02 | 0. 03 | 98. 96 | | | | | |
| 137. 0-138. 0 | 0. 50 | 1815. 52 | 0. 03 | 98. 99 | | | | | |
| 138. 0-139. 0 | 0. 52 | 1816. 04 | 0. 03 | 99. 02 | | | | | |
| 139. 0-140. 0 | 0. 54 | 1816. 57 | 0. 03 | 99. 05 | | | | | |
| 140. 0-141. 0 | 0. 56 | 1817. 13 | 0. 03 | 99. 08 | | | | | |

Photometric Filename:TR04-25-XX-01 3000K RA90 18D.IES

Rectangle ISO Lighting Intensity Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: TR04-25-XX-01 3000K RA90 18D | Lum. Catalog: | Test ID: QIU MEI |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/09/17 |

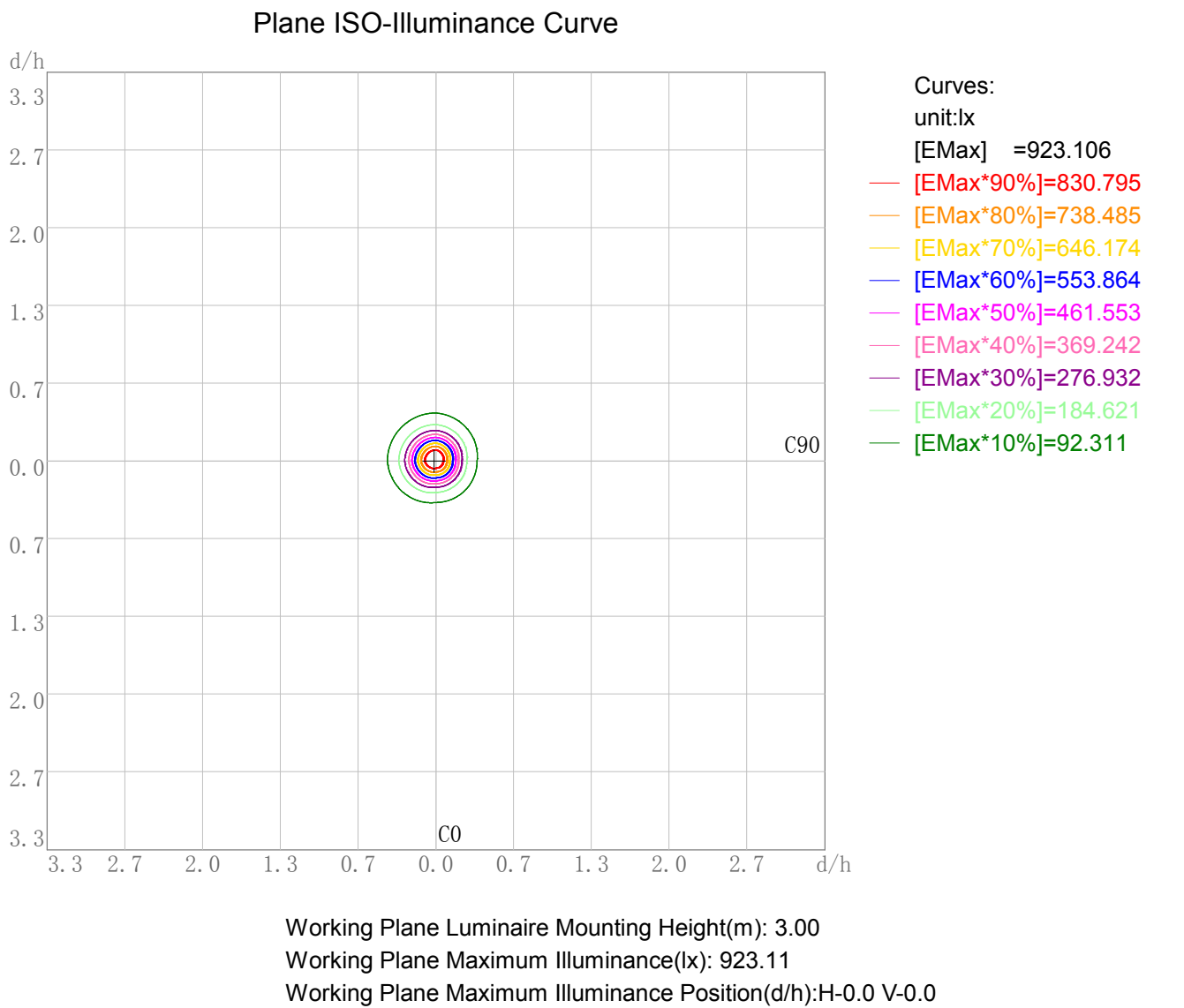


Maximum Light Intensity(cd): 8311.75

Maximum Cand.@Angle: H=-0.0°,V=-1.0°

Plane ISO-Illuminance Diagram

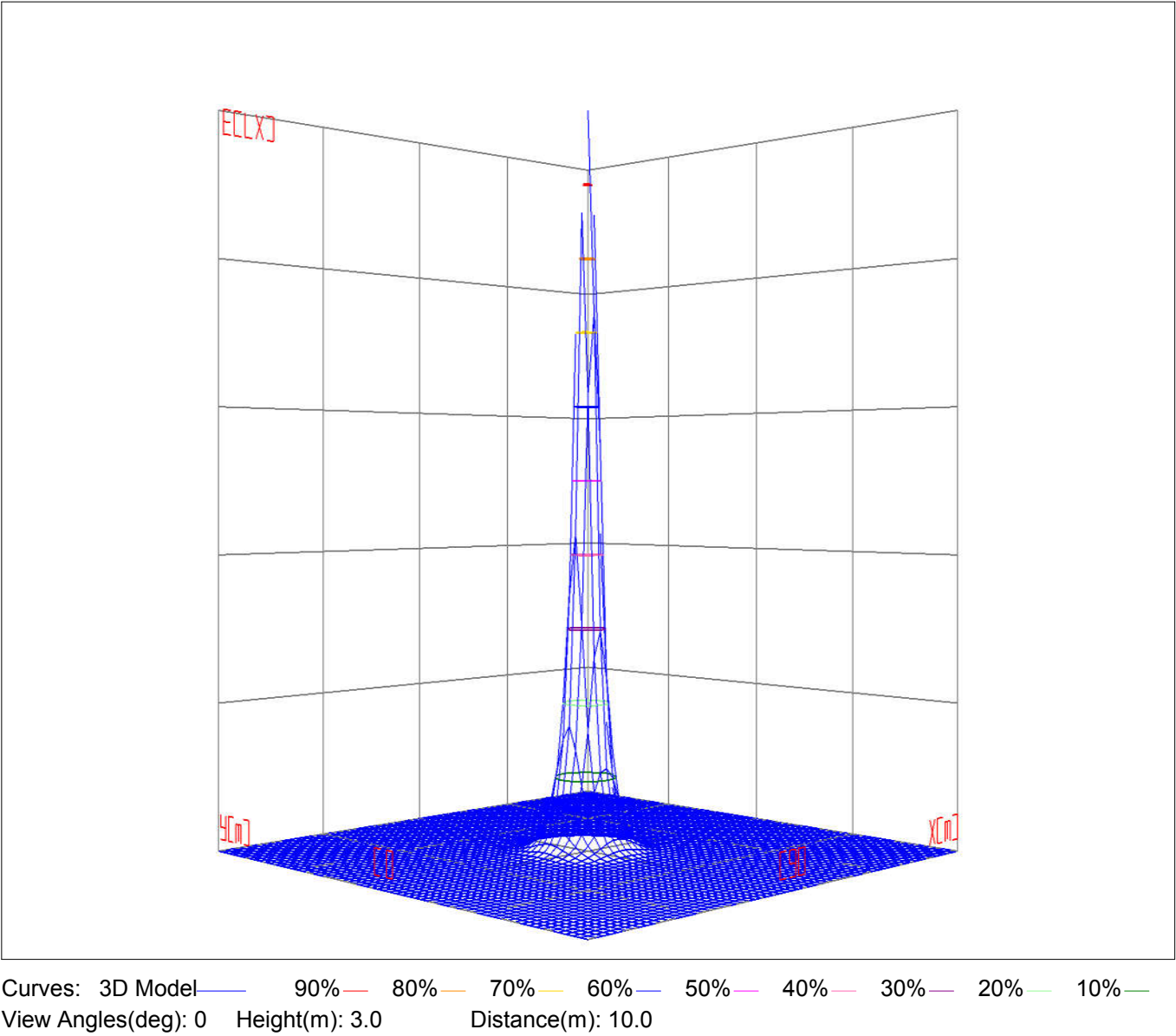
| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |



3D Plane ISO Illuminance Diagram

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |

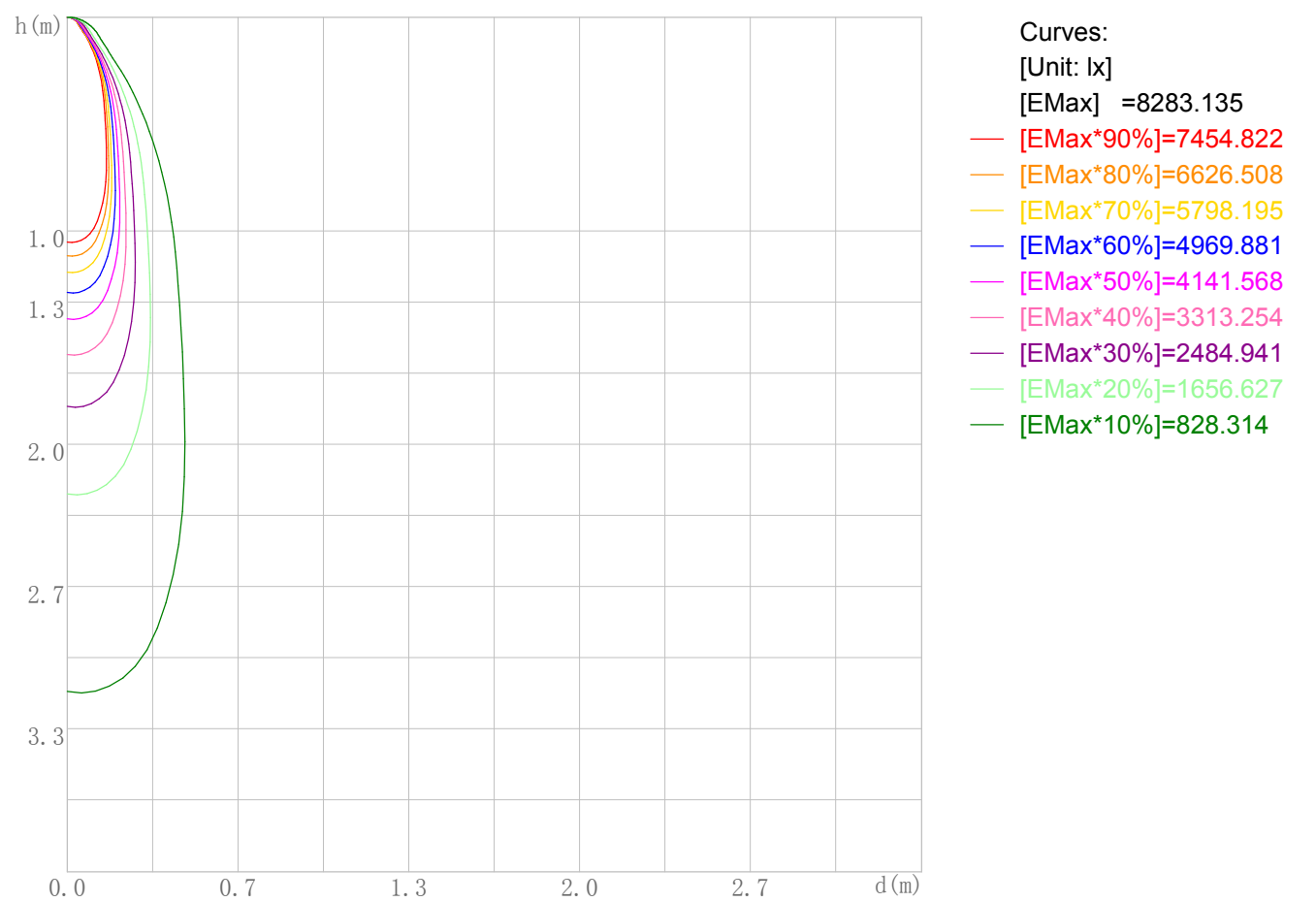
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |

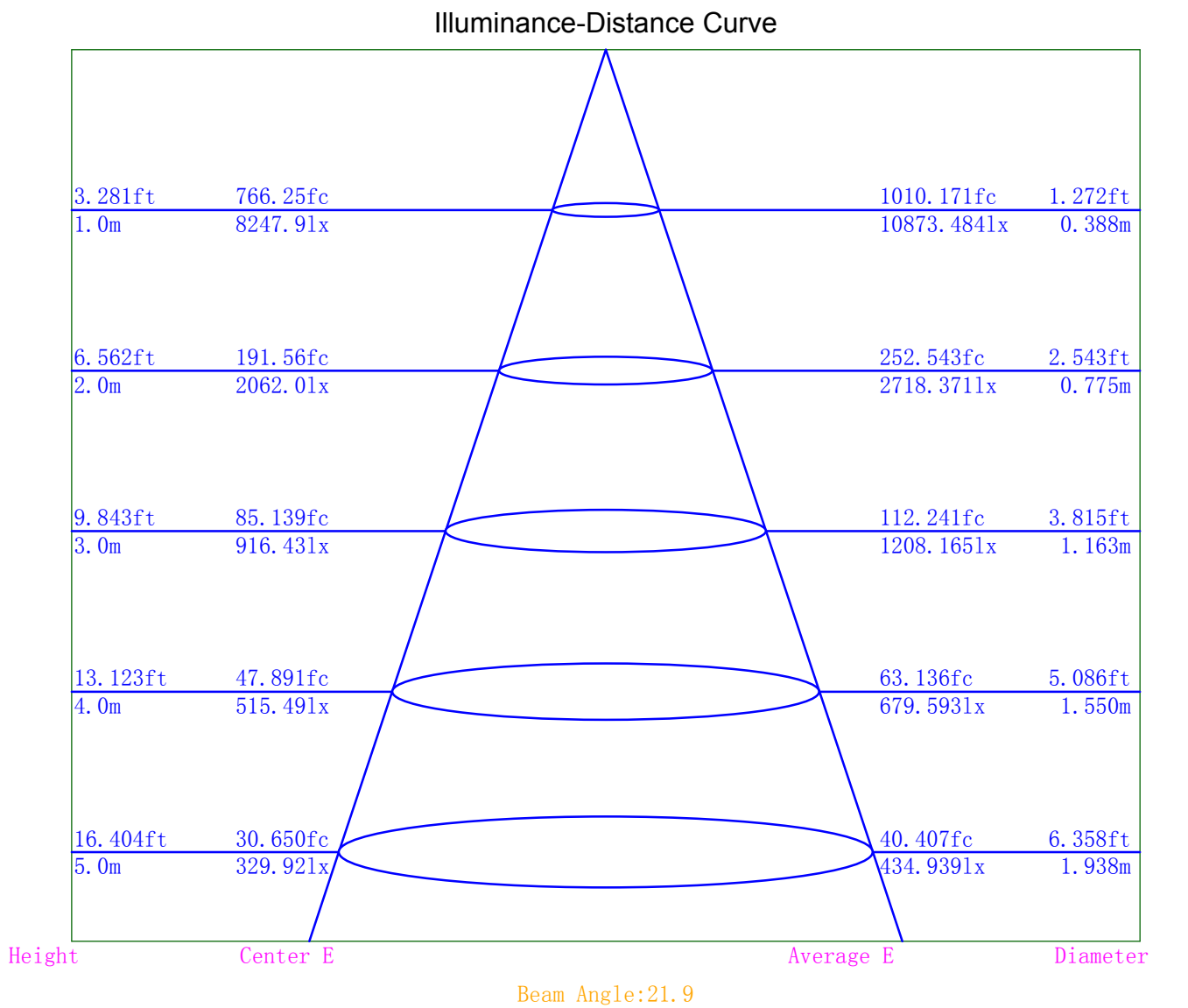
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:8283.14lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:8286.921cd,0deg

Illuminance-Distance Diagram

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |



Indoor Luminance Limiting Curves

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: TR04-25-XX-01 3000K RA90 18D | Lum. Catalog: | Test ID: QIU MEI |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/09/17 |

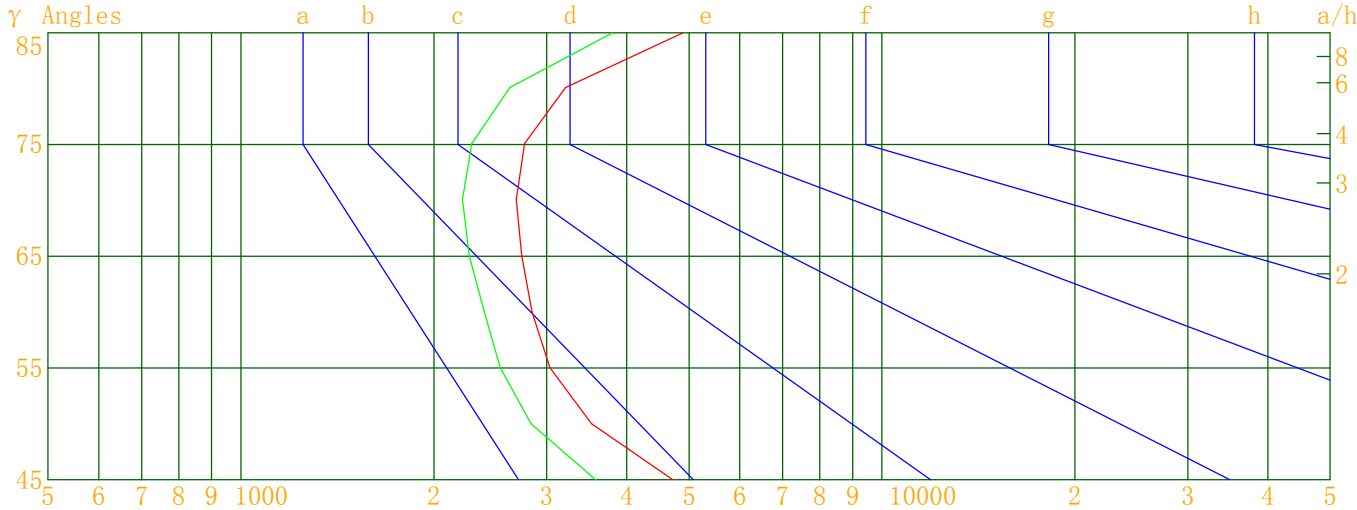
Glare Grade Table

| GI | Quality | Using Illuminance | | | | | | | |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
| 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 | a | | | | 2000 | 1000 | 500 | <=300 |
| | | | b | c | d | e | f | g | h |

Luminance Table

| Gama (deg) | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|------------|------|------|------|------|------|------|------|------|------|
| C0 | 4717 | 3524 | 3033 | 2844 | 2743 | 2689 | 2772 | 3211 | 4895 |
| C90 | 3574 | 2836 | 2540 | 2396 | 2271 | 2215 | 2290 | 2628 | 3799 |

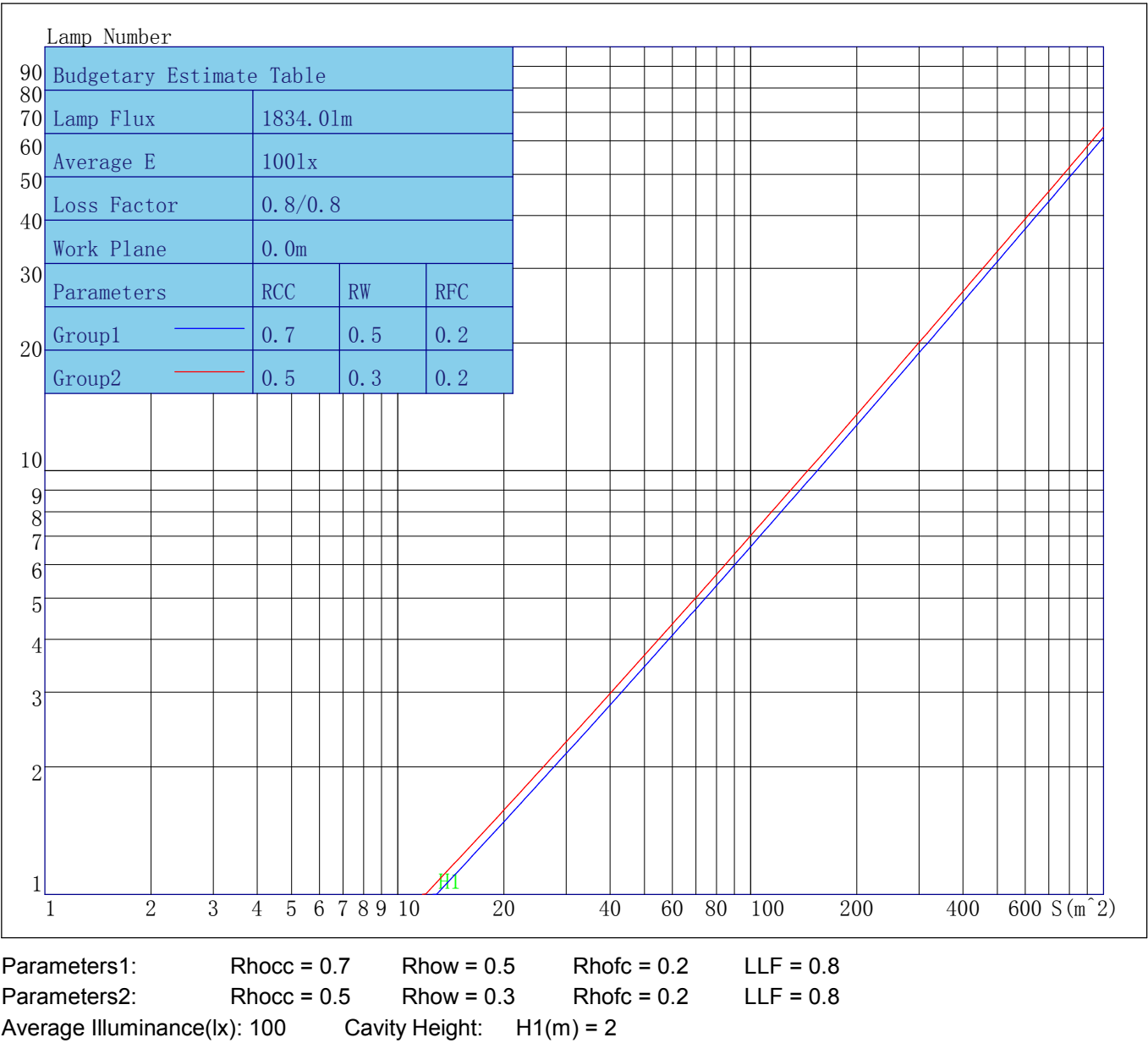
Luminance Limiting Curve



Luminous Size: Length(m)=0.060 Width(m)=0.060 Height(m)=0.250 Area(m^2)=0.018600
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |



Indoor Coefficient of Utilization Table

| | | |
|--|-----------------------|-----------------------------|
| Lum. Name:TR04-25-XX-01 3000K RA90 18D | Lum. Catelog: | Test ID:QIU MEI |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Department |
| Manufacture:Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date:2019/09/17 |

| Coefficients of Utilization – Zonal Cavity Method | | | | | | | | | | | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Coef. | Effective Floor Cavity Reflectance RFC=0.20 | | | | | | | | | | | | | | | | | |
| RhoCC (%) | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
| RhoW (%) | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | Coefficient of Utilization(%) | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 109 | 105 | 102 | 99 | 107 | 103 | 100 | 98 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 3 | 105 | 100 | 96 | 92 | 103 | 98 | 95 | 92 | 96 | 92 | 90 | 93 | 90 | 88 | 91 | 88 | 87 | 85 |
| 4 | 101 | 95 | 91 | 87 | 100 | 94 | 90 | 87 | 92 | 88 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 82 |
| 5 | 98 | 91 | 87 | 83 | 96 | 90 | 86 | 83 | 88 | 85 | 82 | 87 | 83 | 81 | 85 | 82 | 80 | 79 |
| 6 | 95 | 88 | 83 | 80 | 93 | 87 | 82 | 79 | 85 | 81 | 79 | 84 | 80 | 78 | 82 | 80 | 77 | 76 |
| 7 | 92 | 84 | 80 | 76 | 90 | 84 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 |
| 8 | 89 | 81 | 77 | 74 | 88 | 81 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 72 | 71 |
| 9 | 86 | 79 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 70 | 76 | 72 | 70 | 69 |
| 10 | 84 | 76 | 72 | 69 | 83 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 68 | 74 | 70 | 68 | 67 |

Unified Glare Rating Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: TR04-25-XX-01 3000K RA90 18D | Lum. Catalog: | Test ID: QIU MEI |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2019/09/17 |

Unified Glare Rating Table

| | | | | | | | | | | |
|---|-----------------|------|------|------|------|---------------|------|------|------|------|
| Ceiling RCC | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| Wall RW | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| Floor RFC | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room Size | Vewed crosswise | | | | | Vewed endwise | | | | |
| X=2H Y=2H | 11.4 | 12.4 | 11.8 | 12.8 | 13.2 | 9.6 | 10.6 | 10.0 | 11.0 | 11.4 |
| | 12.1 | 13.0 | 12.5 | 13.4 | 13.8 | 10.4 | 11.4 | 10.9 | 11.8 | 12.2 |
| | 12.5 | 13.4 | 12.9 | 13.8 | 14.2 | 10.9 | 11.8 | 11.4 | 12.2 | 12.6 |
| | 13.0 | 13.8 | 13.4 | 14.2 | 14.6 | 11.4 | 12.2 | 11.9 | 12.7 | 13.1 |
| | 13.2 | 14.0 | 13.7 | 14.4 | 14.9 | 11.7 | 12.5 | 12.2 | 12.9 | 13.4 |
| | 13.6 | 14.3 | 14.0 | 14.7 | 15.2 | 12.0 | 12.8 | 12.5 | 13.2 | 13.7 |
| X=4H Y=2H | 11.5 | 12.4 | 11.9 | 12.8 | 13.2 | 9.9 | 10.7 | 10.3 | 11.1 | 11.6 |
| | 12.4 | 13.2 | 12.9 | 13.6 | 14.1 | 11.0 | 11.7 | 11.4 | 12.2 | 12.6 |
| | 13.0 | 13.7 | 13.5 | 14.1 | 14.6 | 11.6 | 12.3 | 12.1 | 12.7 | 13.2 |
| | 13.7 | 14.3 | 14.2 | 14.8 | 15.3 | 12.3 | 12.9 | 12.8 | 13.4 | 13.9 |
| | 14.0 | 14.6 | 14.6 | 15.1 | 15.6 | 12.7 | 13.3 | 13.2 | 13.7 | 14.3 |
| | 14.5 | 15.0 | 15.0 | 15.5 | 16.1 | 13.1 | 13.6 | 13.7 | 14.1 | 14.7 |
| X=8H Y=4H | 13.2 | 13.7 | 13.7 | 14.2 | 14.8 | 11.9 | 12.4 | 12.4 | 12.9 | 13.4 |
| | 14.1 | 14.5 | 14.6 | 15.1 | 15.7 | 12.8 | 13.3 | 13.3 | 13.8 | 14.4 |
| | 14.6 | 15.0 | 15.1 | 15.6 | 16.1 | 13.3 | 13.7 | 13.9 | 14.3 | 14.8 |
| | 15.2 | 15.6 | 15.8 | 16.1 | 16.8 | 13.9 | 14.3 | 14.5 | 14.9 | 15.5 |
| X=12H Y=4H | 13.2 | 13.7 | 13.7 | 14.2 | 14.7 | 11.9 | 12.4 | 12.4 | 12.9 | 13.5 |
| | 14.1 | 14.6 | 14.7 | 15.1 | 15.7 | 12.9 | 13.3 | 13.5 | 13.8 | 14.4 |
| | 14.8 | 15.1 | 15.3 | 15.7 | 16.3 | 13.5 | 13.9 | 14.1 | 14.4 | 15.1 |
| Variations with the objerver position at spacings | | | | | | | | | | |
| S=1.0H | 0.2/-0.2 | | | | | 0.2/-0.2 | | | | |
| S=1.5H | 0.3/-0.4 | | | | | 0.4/-0.4 | | | | |
| S=2.0H | 0.4/-0.4 | | | | | 0.5/-0.5 | | | | |
| Reduced UGR Table: | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | |
| Correction Value | 2.7 | | | | | 2.9 | | | | |

o the CIE Pub.117, data has been corrected, refers to the lamp's lumens 8.2flm.

IES Indoor Report
Photometric Filename:TR04-25-XX-01 3000K RA90 18D.IES

Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|---------|---------|---------|---------|
| γ 0.0 | 8247.90 | 8247.90 | 8247.90 | 8247.90 |
| γ 1.0 | 8286.92 | 8123.11 | 8126.60 | 8311.75 |
| γ 2.0 | 8253.59 | 7919.47 | 7937.99 | 8293.16 |
| γ 3.0 | 8153.94 | 7640.69 | 7680.99 | 8200.51 |
| γ 4.0 | 7980.51 | 7283.96 | 7338.55 | 8036.61 |
| γ 5.0 | 7734.82 | 6813.83 | 6885.96 | 7804.10 |
| γ 6.0 | 7385.24 | 6282.78 | 6376.08 | 7494.01 |
| γ 7.0 | 6925.39 | 5725.29 | 5832.58 | 7082.92 |
| γ 8.0 | 6405.74 | 5153.48 | 5264.60 | 6568.70 |
| γ 9.0 | 5851.52 | 4568.88 | 4677.92 | 6026.01 |
| γ 10.0 | 5275.67 | 3977.53 | 4085.02 | 5455.79 |
| γ 11.0 | 4680.92 | 3404.25 | 3502.59 | 4877.86 |
| γ 12.0 | 4092.95 | 2878.69 | 2971.60 | 4290.19 |
| γ 13.0 | 3537.12 | 2430.68 | 2520.31 | 3723.17 |
| γ 14.0 | 3046.53 | 2068.04 | 2153.89 | 3217.86 |
| γ 15.0 | 2631.53 | 1771.37 | 1854.09 | 2784.02 |
| γ 16.0 | 2287.99 | 1528.62 | 1601.14 | 2419.30 |
| γ 17.0 | 1996.56 | 1333.22 | 1390.03 | 2108.38 |
| γ 18.0 | 1752.76 | 1170.70 | 1214.77 | 1843.47 |
| γ 19.0 | 1549.07 | 1032.72 | 1064.10 | 1620.94 |
| γ 20.0 | 1376.27 | 913.31 | 934.18 | 1434.39 |
| γ 21.0 | 1227.90 | 809.33 | 821.02 | 1275.78 |
| γ 22.0 | 1096.38 | 716.83 | 722.04 | 1136.68 |
| γ 23.0 | 978.08 | 634.80 | 634.65 | 1014.23 |
| γ 24.0 | 871.65 | 560.99 | 557.31 | 903.40 |
| γ 25.0 | 776.23 | 494.08 | 488.83 | 804.10 |
| γ 26.0 | 690.72 | 435.48 | 427.78 | 714.36 |
| γ 27.0 | 612.93 | 384.33 | 374.06 | 631.49 |
| γ 28.0 | 543.55 | 339.11 | 325.70 | 557.02 |
| γ 29.0 | 480.38 | 298.50 | 283.02 | 490.70 |
| γ 30.0 | 424.36 | 262.13 | 245.61 | 431.89 |
| γ 31.0 | 373.78 | 230.57 | 213.38 | 378.42 |
| γ 32.0 | 328.63 | 202.59 | 185.50 | 331.07 |
| γ 33.0 | 288.06 | 177.28 | 161.10 | 288.79 |
| γ 34.0 | 253.20 | 155.60 | 140.42 | 251.53 |
| γ 35.0 | 222.14 | 136.70 | 122.97 | 217.82 |
| γ 36.0 | 194.58 | 120.44 | 107.86 | 189.19 |
| γ 37.0 | 170.83 | 106.69 | 95.27 | 163.62 |
| γ 38.0 | 149.45 | 94.78 | 84.16 | 142.27 |
| γ 39.0 | 130.94 | 84.06 | 74.94 | 124.24 |
| γ 40.0 | 114.61 | 74.54 | 67.04 | 108.52 |
| γ 41.0 | 99.91 | 66.67 | 60.17 | 94.57 |
| γ 42.0 | 86.98 | 60.00 | 54.56 | 81.79 |
| γ 43.0 | 76.55 | 54.75 | 50.13 | 70.95 |
| γ 44.0 | 68.31 | 50.51 | 46.67 | 62.47 |
| γ 45.0 | 62.04 | 47.01 | 43.86 | 56.23 |
| γ 46.0 | 57.00 | 43.84 | 41.54 | 51.48 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|-------|-------|--------|--------|
| γ 47.0 | 52.74 | 40.93 | 39.34 | 47.79 |
| γ 48.0 | 48.94 | 38.15 | 37.05 | 44.91 |
| γ 49.0 | 45.46 | 35.76 | 34.90 | 42.26 |
| γ 50.0 | 42.13 | 33.90 | 33.30 | 39.59 |
| γ 51.0 | 39.45 | 32.24 | 31.94 | 37.04 |
| γ 52.0 | 37.39 | 30.78 | 30.79 | 35.30 |
| γ 53.0 | 35.54 | 29.40 | 29.64 | 33.86 |
| γ 54.0 | 33.86 | 28.16 | 28.63 | 32.44 |
| γ 55.0 | 32.35 | 27.10 | 27.70 | 31.19 |
| γ 56.0 | 30.97 | 26.12 | 26.90 | 30.20 |
| γ 57.0 | 29.81 | 25.02 | 25.97 | 29.24 |
| γ 58.0 | 28.60 | 24.15 | 25.08 | 28.46 |
| γ 59.0 | 27.50 | 23.23 | 24.25 | 27.52 |
| γ 60.0 | 26.45 | 22.28 | 23.52 | 26.64 |
| γ 61.0 | 25.42 | 21.48 | 22.60 | 25.80 |
| γ 62.0 | 24.38 | 20.61 | 21.78 | 24.89 |
| γ 63.0 | 23.40 | 19.71 | 21.01 | 24.01 |
| γ 64.0 | 22.56 | 18.78 | 20.01 | 23.09 |
| γ 65.0 | 21.56 | 17.85 | 19.14 | 22.33 |
| γ 66.0 | 20.54 | 16.98 | 18.33 | 21.39 |
| γ 67.0 | 19.64 | 16.27 | 17.51 | 20.48 |
| γ 68.0 | 18.71 | 15.54 | 16.63 | 19.58 |
| γ 69.0 | 17.93 | 14.74 | 15.86 | 18.73 |
| γ 70.0 | 17.11 | 14.09 | 15.06 | 17.84 |
| γ 71.0 | 16.22 | 13.37 | 14.32 | 17.02 |
| γ 72.0 | 15.51 | 12.79 | 13.65 | 16.19 |
| γ 73.0 | 14.73 | 12.17 | 12.93 | 15.44 |
| γ 74.0 | 14.03 | 11.59 | 12.22 | 14.66 |
| γ 75.0 | 13.34 | 11.03 | 11.68 | 13.94 |
| γ 76.0 | 12.72 | 10.48 | 11.12 | 13.29 |
| γ 77.0 | 12.08 | 9.96 | 10.53 | 12.59 |
| γ 78.0 | 11.54 | 9.43 | 9.92 | 12.01 |
| γ 79.0 | 10.97 | 8.99 | 9.49 | 11.43 |
| γ 80.0 | 10.37 | 8.49 | 8.88 | 10.74 |
| γ 81.0 | 9.85 | 8.01 | 8.43 | 10.19 |
| γ 82.0 | 9.29 | 7.47 | 7.93 | 9.73 |
| γ 83.0 | 8.85 | 7.12 | 7.47 | 9.12 |
| γ 84.0 | 8.36 | 6.65 | 6.98 | 8.65 |
| γ 85.0 | 7.94 | 6.16 | 6.52 | 8.22 |
| γ 86.0 | 7.48 | 5.86 | 6.09 | 7.76 |
| γ 87.0 | 7.05 | 5.46 | 5.68 | 7.21 |
| γ 88.0 | 6.58 | 5.05 | 5.27 | 6.72 |
| γ 89.0 | 6.20 | 4.89 | 4.96 | 6.37 |
| γ 90.0 | 5.88 | 4.75 | 4.84 | 5.97 |
| γ 91.0 | 5.61 | 4.65 | 4.56 | 5.54 |
| γ 92.0 | 5.45 | 4.51 | 4.49 | 5.40 |
| γ 93.0 | 5.27 | 4.41 | 4.28 | 5.15 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0 | 5.18 | 4.27 | 4.25 | 5.00 |
| γ 95.0 | 5.11 | 4.17 | 4.05 | 4.82 |
| γ 96.0 | 4.89 | 4.10 | 3.91 | 4.61 |
| γ 97.0 | 4.77 | 4.02 | 3.88 | 4.52 |
| γ 98.0 | 4.70 | 3.90 | 3.66 | 4.32 |
| γ 99.0 | 4.65 | 3.92 | 3.62 | 4.25 |
| γ 100.0 | 4.49 | 3.72 | 3.61 | 4.11 |
| γ 101.0 | 4.41 | 3.70 | 3.45 | 3.97 |
| γ 102.0 | 4.38 | 3.74 | 3.48 | 3.87 |
| γ 103.0 | 4.26 | 3.68 | 3.44 | 3.79 |
| γ 104.0 | 4.14 | 3.64 | 3.39 | 3.70 |
| γ 105.0 | 4.10 | 3.52 | 3.33 | 3.64 |
| γ 106.0 | 4.12 | 3.54 | 3.40 | 3.59 |
| γ 107.0 | 4.01 | 3.47 | 3.35 | 3.56 |
| γ 108.0 | 3.94 | 3.43 | 3.29 | 3.51 |
| γ 109.0 | 3.86 | 3.40 | 3.31 | 3.48 |
| γ 110.0 | 3.83 | 3.33 | 3.37 | 3.42 |
| γ 111.0 | 3.75 | 3.33 | 3.25 | 3.41 |
| γ 112.0 | 3.71 | 3.26 | 3.38 | 3.45 |
| γ 113.0 | 3.70 | 3.24 | 3.42 | 3.40 |
| γ 114.0 | 3.57 | 3.16 | 3.38 | 3.38 |
| γ 115.0 | 3.48 | 3.17 | 3.37 | 3.43 |
| γ 116.0 | 3.46 | 3.08 | 3.42 | 3.31 |
| γ 117.0 | 3.41 | 3.01 | 3.51 | 3.38 |
| γ 118.0 | 3.36 | 3.11 | 3.53 | 3.44 |
| γ 119.0 | 3.24 | 3.08 | 3.60 | 3.51 |
| γ 120.0 | 3.28 | 3.10 | 3.66 | 3.38 |
| γ 121.0 | 3.15 | 3.04 | 3.67 | 3.47 |
| γ 122.0 | 3.16 | 3.12 | 3.84 | 3.55 |
| γ 123.0 | 3.22 | 3.18 | 3.89 | 3.66 |
| γ 124.0 | 3.17 | 3.25 | 4.05 | 3.62 |
| γ 125.0 | 3.26 | 3.39 | 4.17 | 3.72 |
| γ 126.0 | 3.33 | 3.52 | 4.30 | 3.82 |
| γ 127.0 | 3.35 | 3.68 | 4.48 | 3.92 |
| γ 128.0 | 3.54 | 3.89 | 4.66 | 4.06 |
| γ 129.0 | 3.63 | 4.04 | 4.89 | 4.15 |
| γ 130.0 | 3.82 | 4.29 | 5.13 | 4.43 |
| γ 131.0 | 3.98 | 4.48 | 5.36 | 4.47 |
| γ 132.0 | 4.07 | 4.83 | 5.69 | 4.80 |
| γ 133.0 | 4.43 | 5.13 | 5.97 | 4.98 |
| γ 134.0 | 4.65 | 5.42 | 6.43 | 5.30 |
| γ 135.0 | 5.03 | 5.80 | 6.76 | 5.58 |
| γ 136.0 | 5.24 | 6.19 | 7.20 | 5.87 |
| γ 137.0 | 5.58 | 6.59 | 7.58 | 6.27 |
| γ 138.0 | 5.91 | 7.00 | 8.09 | 6.63 |
| γ 139.0 | 6.30 | 7.47 | 8.52 | 7.02 |
| γ 140.0 | 6.75 | 7.87 | 8.94 | 7.46 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|-------|-------|--------|--------|
| γ 141.0 | 7.17 | 8.35 | 9.47 | 7.79 |
| γ 142.0 | 7.57 | 8.77 | 9.88 | 8.26 |
| γ 143.0 | 8.08 | 9.15 | 10.35 | 8.76 |
| γ 144.0 | 8.55 | 9.67 | 10.77 | 9.16 |
| γ 145.0 | 8.94 | 10.09 | 11.20 | 9.63 |
| γ 146.0 | 9.36 | 10.46 | 11.53 | 10.12 |
| γ 147.0 | 9.87 | 10.88 | 11.94 | 10.42 |
| γ 148.0 | 10.36 | 11.29 | 12.26 | 10.90 |
| γ 149.0 | 10.72 | 11.56 | 12.59 | 11.31 |
| γ 150.0 | 11.06 | 11.89 | 12.89 | 11.66 |
| γ 151.0 | 11.46 | 12.11 | 13.16 | 11.93 |
| γ 152.0 | 11.73 | 12.32 | 13.36 | 12.21 |
| γ 153.0 | 12.10 | 12.65 | 13.60 | 12.51 |
| γ 154.0 | 12.36 | 12.80 | 13.75 | 12.78 |
| γ 155.0 | 12.55 | 12.98 | 13.94 | 12.91 |
| γ 156.0 | 12.85 | 13.10 | 14.09 | 13.13 |
| γ 157.0 | 13.11 | 13.15 | 14.19 | 13.38 |
| γ 158.0 | 13.22 | 13.32 | 14.27 | 13.46 |
| γ 159.0 | 13.39 | 13.45 | 14.37 | 13.56 |
| γ 160.0 | 13.56 | 13.56 | 14.43 | 13.64 |
| γ 161.0 | 13.73 | 13.59 | 14.54 | 13.81 |
| γ 162.0 | 13.83 | 13.75 | 14.58 | 13.91 |
| γ 163.0 | 13.94 | 13.74 | 14.56 | 13.88 |
| γ 164.0 | 14.03 | 13.84 | 14.60 | 13.98 |
| γ 165.0 | 14.09 | 13.88 | 14.65 | 14.02 |
| γ 166.0 | 14.09 | 13.90 | 14.57 | 13.98 |
| γ 167.0 | 14.13 | 13.95 | 14.60 | 13.99 |
| γ 168.0 | 14.24 | 13.89 | 14.48 | 14.02 |
| γ 169.0 | 14.21 | 13.89 | 14.39 | 13.99 |
| γ 170.0 | 14.24 | 13.82 | 14.30 | 13.95 |
| γ 171.0 | 14.16 | 13.77 | 14.14 | 13.85 |
| γ 172.0 | 14.15 | 13.66 | 14.01 | 13.81 |
| γ 173.0 | 13.99 | 13.69 | 13.89 | 13.76 |
| γ 174.0 | 13.96 | 13.61 | 13.83 | 13.65 |
| γ 175.0 | 13.84 | 13.55 | 13.71 | 13.63 |
| γ 176.0 | 13.84 | 13.60 | 13.71 | 13.56 |
| γ 177.0 | 13.82 | 13.62 | 13.62 | 13.61 |
| γ 178.0 | 13.79 | 13.65 | 13.68 | 13.61 |
| γ 179.0 | 13.69 | 13.71 | 13.76 | 13.59 |
| γ 180.0 | 13.73 | 13.73 | 13.73 | 13.73 |