



Project No: 10021186  
Report No: 10021186-10  
Issued Date: 2013-JUN-27  
Revision:

## Verification Services Test Report

| Customer Company & Address                                      |
|---|
| <b>Acrilux SRL</b><br>S.P. 571 Km 10+983<br>62019 Recanati (MC) |

|   |                                     |
|---|-------------------------------------|
| <b>Manufacturer:</b>  | <b>Acrilux SRL</b>                  |
| <b>Country of Origin:</b>   | Italy                               |
| <b>Country of Export:</b>   | N/A                                 |
| <b>Product Category:</b>  | URBAN ARREDO MH 150W E27 E QUARZO   |
| <b>Product Description:</b>   | HID outdoor luminaire               |
| <b>Model Number(s):</b>   | URBAN ARREDO MH 150W E27 E QUARZO   |
| <b>Electrical Ratings:</b>  | 230Vac 50Hz                         |
| <b>Ballast:</b>   | TCI mod. 0150 HI/HS TAB ref. 183045 |
| <b>Lamp:</b>  | OSRAM E27 HQI-E 150 W/WDL           |
| <b>Test Period:</b>   | 2013-JUN-26 to 2013-JUN-27          |
| <b>The Sample(s) is(are) tested in accordance with the following:</b> |                                     |
| UNI EN 13032-1: 2012  |                                     |

| Prepared By                          | Approved By                            |
|--------------------------------------|--|
| Fausto Pedroni <i>Fausto Pedroni</i> | Walter Parmiani <i>Walter Parmiani</i> |
| <b>Name &amp; Signatory</b>          | <b>Name &amp; Signatory</b>            |

**This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.**



UL International Italia S.r.l.  
Via XXV Aprile 3/B  
20875 Burago di Molgora (MB) Italy  
NVLAP Lab Code: 200985-0



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### Statement of Results

| Test Flow | Test Method     | Sample ID   | Test Result           |
|-----------|-----------------|-------------|-----------------------|
| 1.        | Goniophotometer | 014010-S001 | Evaluated by Customer |

### Measurement Uncertainty

N/A

### Deviation from Test Method (if any)

N/A

### Remarks (if any)

N/A



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### Test No. 1: Goniophotometer

#### Sample ID / Test Round Number

014010-S001 / 1

#### Environmental Conditions

| Ambient Temperature |
|---------------------|
| 25.5 °C             |

#### Test Equipment

| Local ID  | Description                      | Model              | Last cal       | Next cal       |
|-----------|----------------------------------|--------------------|----------------|----------------|
| BURVS0063 | Goniophotometer system           | LSI 6440T          | 03/jun/2013    | By evidence    |
| BURVS0066 | AC PSU                           | ELGAR CW 1251      | Reference only | Reference only |
| BURVS0065 | Digital power meter              | Yokogawa WT210     | 13/jul/2012    | 13/jul/2013    |
| BURVS0067 | THERMOMETER                      | OMEGA MDSi8        | 16/jul/2012    | 16/jul/2013    |
| BURVS0061 | OMNIDIRECTIONAL CALIBRATION LAMP | STS STD-EHD 12C050 | 25/jun/2012    | 25/jun/2015    |

#### Test Condition(s)

| Input Voltage | Input Current | Input Power | Power Factor |
|---------------|---------------|-------------|--------------|
| 230.05 V      | 0.73 A        | 157.35 W    | 0.93         |



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### Test Results

| Result Name             | Result                  |
|-------------------------|-------------------------|
| Test Date               | 2013-JUN-26 02:30:00 PM |
| Current THD             | 21.3 %                  |
| Luminous Flux           | 5420.1 lm               |
| Luminous Efficacy       | 34.4 lm/W               |
| Luminous Opening Length | 600.0 mm                |
| Luminous Opening Width  | 0.0 mm                  |
| Luminous Opening Height | 400.0 mm                |
| LOR                     | 55.38 %                 |



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### Photo of Sample(s)

Sample



Goniophotometer set-up

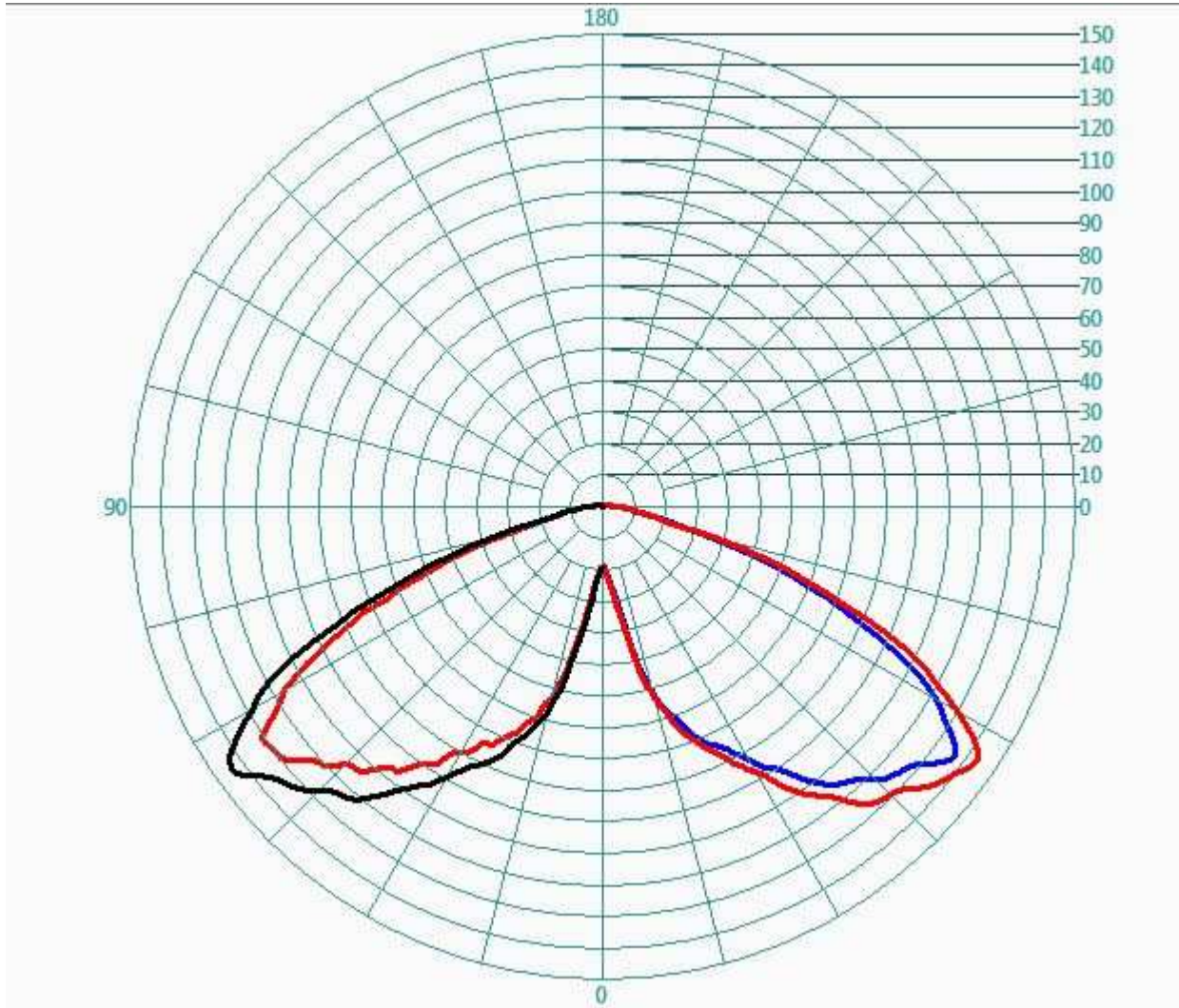




## Verification Services Test Report

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### Polar diagram (cd/Klm)



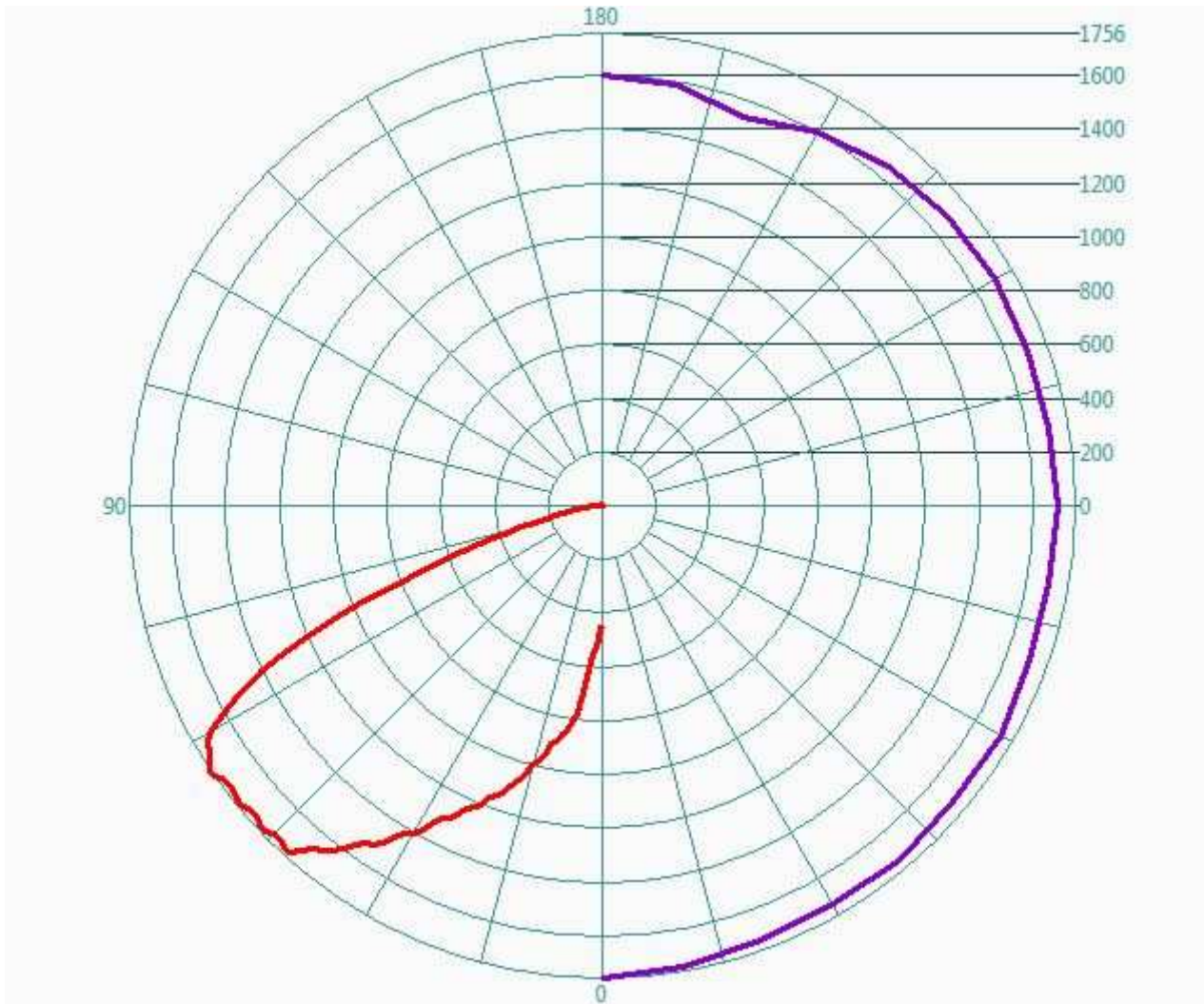


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### Max cone and plane (cd)







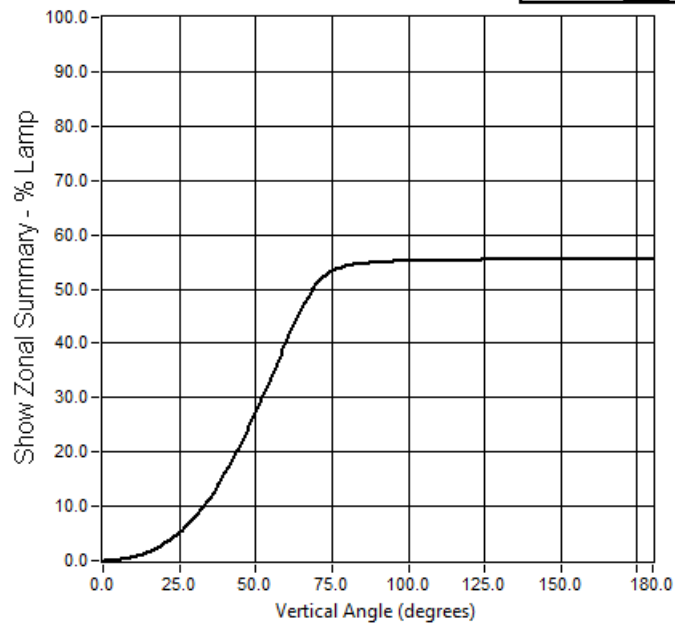
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 Test Item Number: 014010

### Zonal Lumen Summary

|           | Summary Zonal Lumens | Zonal Lumens - % Lamp | Zonal Lumens - % Fixture |
|-----------|----------------------|-----------------------|--------------------------|
| 0 to 30   | 894.96               | 7.72                  | 13.93                    |
| 0 to 40   | 1809.40              | 15.60                 | 28.17                    |
| 0 to 60   | 4581.05              | 39.49                 | 71.31                    |
| 0 to 90   | 6362.31              | 54.85                 | 99.04                    |
| 40 to 90  | 4552.92              | 39.25                 | 70.88                    |
| 60 to 90  | 1781.26              | 15.36                 | 27.73                    |
| 90 to 180 | 61.50                | 0.53                  | 0.96                     |
| 0 to 180  | 6423.81              | 55.38                 | 100.00                   |

Zonal Flux Graph

Plot 0





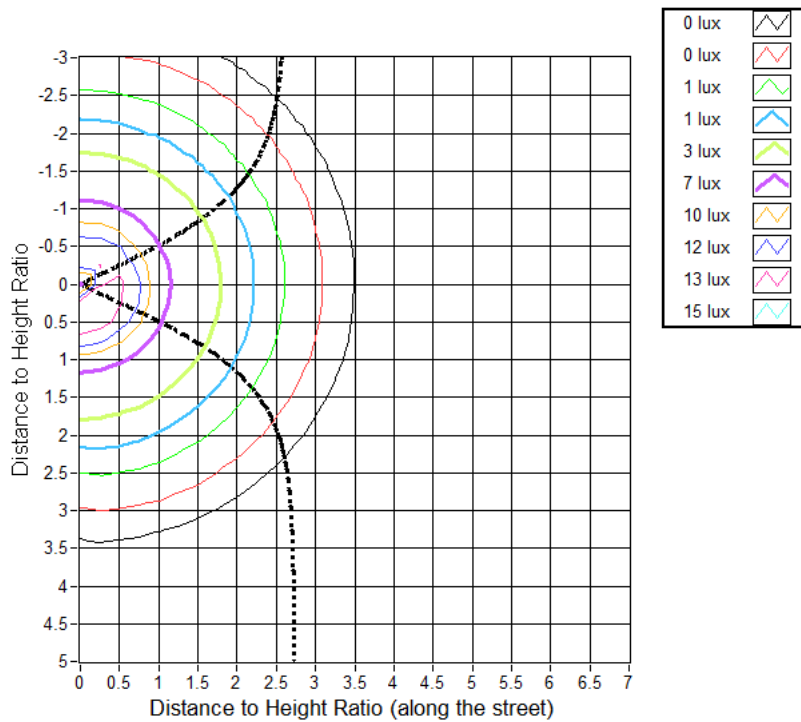


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### Isolluminance Merged Chart

#### House Side

Illuminance Contour Graph



#### Street Side

#### Total Forward Light - Street Side

| BACKWARD (lm) | (%)   | BL (0 to 30 deg) | BL (%) | BM (30 to 60 deg) | BM (%) | BH (60 to 80 deg) | BH (%) | BVH (80 to 90 deg) | BVH (%) |
|---------------|-------|------------------|--------|-------------------|--------|-------------------|--------|--------------------|---------|
| 3248.19       | 28.00 | 465.11           | 4.01   | 1895.40           | 16.34  | 851.34            | 7.34   | 36.34              | 0.31    |

#### Total Backward Light - House Side

| FORWARD (lm) | (%)   | FL (0 to 30 deg) | FL (%) | FM (30 to 60 deg) | FM (%) | FH (60 to 80 deg) | FH (%) | FVH (80 to 90 deg) | FVH (%) |
|--------------|-------|------------------|--------|-------------------|--------|-------------------|--------|--------------------|---------|
| 3115.13      | 26.85 | 429.82           | 3.71   | 1790.62           | 15.44  | 856.49            | 7.38   | 38.20              | 0.33    |



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Luminous Intensity Values - Street Side

|       |        |        |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0     | 0.00   | 5.00   | 15.00  | 25.00  | 35.00  | 45.00  | 55.00  | 65.00  | 75.00  | 85.00  |
| 0.00  | 452.0  | 447.7  | 447.5  | 446.1  | 442.2  | 447.8  | 449.5  | 453.7  | 458.7  | 448.6  |
| 5.00  | 637.8  | 631.2  | 626.6  | 627.6  | 618.9  | 613.3  | 600.9  | 591.1  | 592.8  | 564.9  |
| 10.00 | 861.9  | 860.8  | 858.2  | 866.0  | 860.5  | 855.6  | 855.0  | 842.6  | 849.7  | 814.1  |
| 15.00 | 999.9  | 1007.2 | 1006.1 | 1006.7 | 1006.9 | 1001.8 | 1008.4 | 995.3  | 994.4  | 957.1  |
| 20.00 | 1147.5 | 1156.3 | 1154.3 | 1146.1 | 1153.8 | 1145.8 | 1140.2 | 1126.2 | 1115.2 | 1083.0 |
| 25.00 | 1265.1 | 1271.5 | 1276.5 | 1261.5 | 1259.5 | 1250.2 | 1238.6 | 1230.3 | 1218.8 | 1188.3 |
| 30.00 | 1405.0 | 1402.5 | 1403.1 | 1401.6 | 1400.7 | 1391.1 | 1362.2 | 1353.0 | 1349.2 | 1302.8 |
| 35.00 | 1533.0 | 1534.2 | 1538.0 | 1542.1 | 1534.1 | 1520.8 | 1495.3 | 1482.1 | 1495.7 | 1439.9 |
| 40.00 | 1666.8 | 1669.4 | 1669.3 | 1673.4 | 1668.2 | 1664.3 | 1656.3 | 1639.8 | 1649.9 | 1583.9 |
| 45.00 | 1725.6 | 1725.2 | 1713.5 | 1717.3 | 1717.1 | 1711.8 | 1721.2 | 1705.0 | 1716.0 | 1665.1 |
| 50.00 | 1735.7 | 1734.2 | 1722.4 | 1707.2 | 1707.5 | 1703.1 | 1706.9 | 1690.6 | 1686.0 | 1663.4 |
| 55.00 | 1755.2 | 1749.9 | 1737.5 | 1721.7 | 1724.6 | 1714.2 | 1698.7 | 1700.4 | 1692.0 | 1655.3 |
| 56.00 | 1755.8 | 1743.2 | 1708.9 | 1704.7 | 1684.9 | 1690.8 | 1678.4 | 1670.8 | 1602.6 | 1591.9 |
| 60.00 | 1674.8 | 1670.4 | 1653.2 | 1641.1 | 1635.6 | 1622.2 | 1612.3 | 1619.4 | 1623.6 | 1582.8 |
| 65.00 | 1318.1 | 1331.2 | 1329.9 | 1327.1 | 1328.1 | 1317.7 | 1313.9 | 1310.2 | 1317.7 | 1288.9 |
| 70.00 | 706.1  | 742.3  | 770.1  | 761.8  | 762.7  | 754.8  | 756.6  | 758.5  | 773.9  | 763.5  |
| 75.00 | 311.5  | 328.0  | 344.6  | 342.3  | 341.0  | 339.1  | 343.7  | 342.9  | 350.5  | 354.2  |
| 80.00 | 121.4  | 124.2  | 126.8  | 127.2  | 131.4  | 133.7  | 135.1  | 135.5  | 138.0  | 138.0  |
| 85.00 | 58.7   | 58.3   | 57.0   | 55.3   | 55.0   | 55.2   | 57.4   | 60.2   | 61.2   | 61.7   |
| 90.00 | 35.8   | 35.4   | 36.9   | 39.3   | 38.5   | 39.5   | 40.0   | 38.3   | 38.1   | 37.1   |

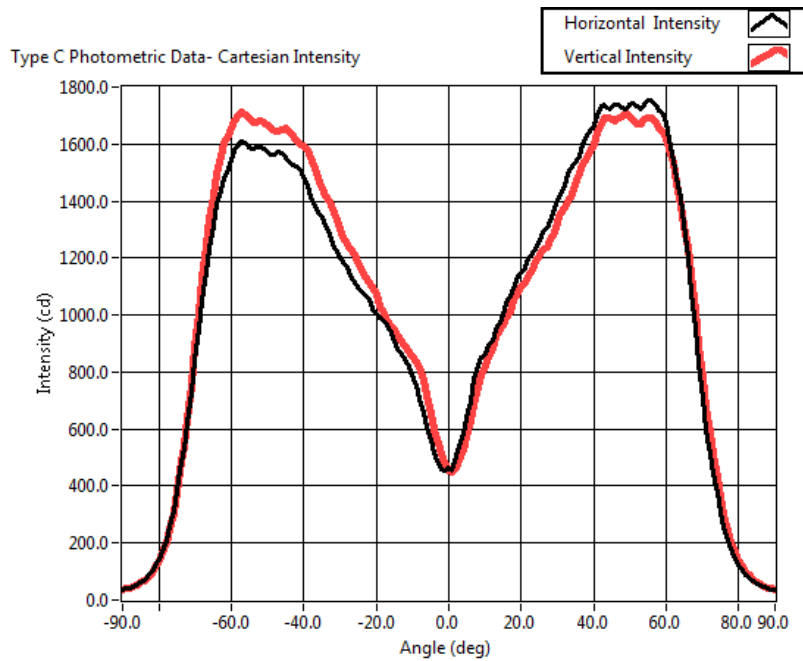
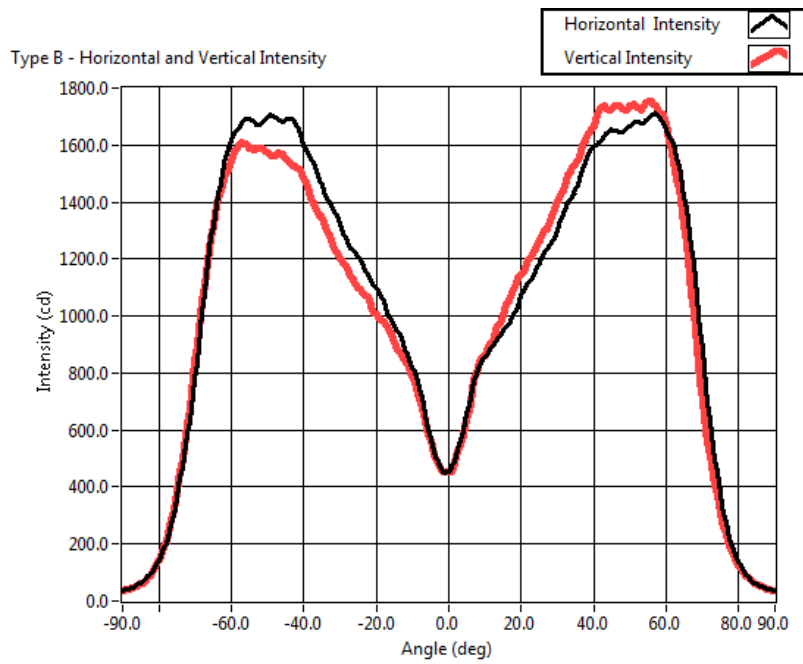
Luminous Intensity Values - House Side

|       |        |        |        |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0     | 90.00  | 95.00  | 105.00 | 115.00 | 125.00 | 135.00 | 145.00 | 155.00 | 165.00 | 175.00 | 180.00 |
| 0.00  | 458.1  | 459.8  | 457.4  | 456.5  | 462.1  | 461.7  | 463.0  | 459.1  | 462.5  | 461.9  | 464.7  |
| 5.00  | 570.9  | 572.3  | 572.3  | 561.1  | 549.6  | 539.9  | 541.8  | 547.3  | 542.2  | 549.5  | 561.5  |
| 10.00 | 820.4  | 818.5  | 813.7  | 794.6  | 785.7  | 781.1  | 766.9  | 773.5  | 780.7  | 778.2  | 789.9  |
| 15.00 | 965.9  | 961.9  | 953.6  | 929.7  | 912.1  | 903.9  | 890.9  | 889.7  | 889.4  | 893.4  | 909.6  |
| 20.00 | 1100.1 | 1087.7 | 1071.9 | 1056.0 | 1042.8 | 1028.2 | 1008.9 | 989.7  | 983.4  | 990.4  | 1005.0 |
| 25.00 | 1210.2 | 1197.5 | 1175.0 | 1166.7 | 1139.6 | 1131.3 | 1117.4 | 1079.9 | 1077.1 | 1080.2 | 1097.9 |
| 30.00 | 1327.1 | 1322.3 | 1309.8 | 1301.0 | 1278.8 | 1246.8 | 1259.5 | 1201.7 | 1174.2 | 1197.3 | 1204.2 |
| 35.00 | 1458.2 | 1458.5 | 1454.2 | 1431.0 | 1421.7 | 1400.2 | 1370.9 | 1357.2 | 1312.7 | 1311.3 | 1343.5 |
| 40.00 | 1600.7 | 1607.9 | 1617.5 | 1595.2 | 1578.8 | 1557.4 | 1512.5 | 1493.2 | 1458.4 | 1453.5 | 1486.8 |
| 45.00 | 1685.0 | 1683.5 | 1687.2 | 1676.1 | 1663.7 | 1647.5 | 1594.2 | 1556.5 | 1529.2 | 1524.1 | 1554.0 |
| 50.00 | 1696.2 | 1688.0 | 1678.7 | 1678.8 | 1667.9 | 1650.1 | 1611.2 | 1553.3 | 1551.4 | 1556.5 | 1572.8 |
| 55.00 | 1692.7 | 1688.4 | 1681.9 | 1690.0 | 1675.5 | 1653.2 | 1640.2 | 1559.1 | 1563.9 | 1585.5 | 1590.6 |
| 56.00 | 1690.8 | 1678.7 | 1686.6 | 1647.7 | 1535.1 | 1602.2 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60.00 | 1617.6 | 1625.4 | 1631.0 | 1628.4 | 1612.5 | 1593.7 | 1585.1 | 1481.7 | 1493.3 | 1542.4 | 1543.9 |
| 65.00 | 1316.2 | 1338.0 | 1364.5 | 1343.5 | 1331.8 | 1321.8 | 1322.0 | 1230.5 | 1228.7 | 1307.1 | 1316.5 |
| 70.00 | 776.9  | 785.2  | 805.6  | 805.3  | 812.0  | 815.1  | 808.7  | 773.7  | 777.8  | 825.1  | 838.2  |
| 75.00 | 361.7  | 367.2  | 372.5  | 369.9  | 373.4  | 378.4  | 376.7  | 360.1  | 363.0  | 378.4  | 383.9  |
| 80.00 | 140.6  | 141.0  | 144.7  | 148.4  | 148.8  | 146.4  | 146.2  | 144.3  | 141.4  | 140.7  | 141.9  |
| 85.00 | 63.7   | 63.2   | 61.0   | 59.7   | 60.1   | 62.4   | 60.9   | 56.3   | 59.1   | 60.2   | 60.3   |
| 90.00 | 37.8   | 39.0   | 40.6   | 39.7   | 37.5   | 36.0   | 38.1   | 39.8   | 36.5   | 35.7   | 37.0   |



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### Cartesian Intensity





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### Candela Table (cd)

|      | 0.0  | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 |
|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 0.0  | 452  | 445  | 449  | 442  | 445  | 449  | 451  | 457  | 455  | 458  | 460   | 455   | 460   | 462   | 462   |
| 1.0  | 452  | 465  | 461  | 452  | 453  | 447  | 450  | 450  | 445  | 450  | 445   | 440   | 444   | 441   | 448   |
| 2.0  | 504  | 497  | 487  | 482  | 477  | 467  | 470  | 461  | 459  | 462  | 454   | 451   | 448   | 443   | 454   |
| 3.0  | 539  | 533  | 524  | 523  | 511  | 504  | 502  | 492  | 492  | 488  | 482   | 481   | 470   | 466   | 472   |
| 4.0  | 581  | 575  | 572  | 574  | 557  | 555  | 544  | 539  | 536  | 525  | 525   | 523   | 507   | 503   | 499   |
| 5.0  | 638  | 626  | 628  | 624  | 615  | 610  | 593  | 593  | 583  | 571  | 573   | 568   | 554   | 546   | 537   |
| 6.0  | 695  | 689  | 688  | 677  | 677  | 665  | 649  | 648  | 634  | 627  | 623   | 615   | 609   | 592   | 586   |
| 7.0  | 777  | 757  | 744  | 732  | 736  | 718  | 712  | 704  | 689  | 687  | 672   | 668   | 665   | 645   | 643   |
| 8.0  | 818  | 809  | 790  | 788  | 787  | 774  | 773  | 757  | 749  | 747  | 727   | 724   | 720   | 703   | 699   |
| 9.0  | 850  | 837  | 824  | 832  | 820  | 820  | 815  | 803  | 801  | 789  | 775   | 771   | 755   | 751   | 741   |
| 10.0 | 862  | 860  | 860  | 868  | 853  | 860  | 847  | 845  | 841  | 820  | 816   | 807   | 785   | 787   | 772   |
| 11.0 | 894  | 888  | 895  | 892  | 887  | 888  | 873  | 878  | 867  | 850  | 846   | 832   | 816   | 816   | 801   |
| 12.0 | 908  | 918  | 924  | 910  | 917  | 909  | 903  | 906  | 887  | 881  | 865   | 846   | 845   | 832   | 830   |
| 13.0 | 951  | 958  | 952  | 939  | 952  | 944  | 951  | 937  | 921  | 922  | 894   | 877   | 877   | 851   | 860   |
| 14.0 | 975  | 990  | 976  | 975  | 978  | 976  | 983  | 960  | 954  | 947  | 924   | 909   | 897   | 881   | 881   |
| 15.0 | 1000 | 1011 | 1002 | 1012 | 1000 | 1007 | 1004 | 990  | 987  | 966  | 958   | 945   | 916   | 910   | 896   |
| 16.0 | 1043 | 1031 | 1035 | 1051 | 1030 | 1044 | 1019 | 1018 | 1010 | 988  | 993   | 976   | 946   | 940   | 917   |
| 17.0 | 1066 | 1061 | 1079 | 1079 | 1073 | 1070 | 1050 | 1059 | 1024 | 1013 | 1014  | 1003  | 979   | 965   | 943   |
| 18.0 | 1094 | 1096 | 1108 | 1099 | 1108 | 1094 | 1080 | 1083 | 1056 | 1052 | 1022  | 1014  | 1008  | 988   | 975   |
| 19.0 | 1133 | 1132 | 1127 | 1122 | 1132 | 1114 | 1111 | 1101 | 1077 | 1079 | 1055  | 1042  | 1021  | 1007  | 1003  |
| 20.0 | 1148 | 1161 | 1146 | 1151 | 1152 | 1141 | 1138 | 1116 | 1107 | 1100 | 1077  | 1066  | 1046  | 1039  | 1016  |
| 21.0 | 1163 | 1180 | 1169 | 1180 | 1168 | 1170 | 1157 | 1137 | 1138 | 1116 | 1105  | 1094  | 1063  | 1064  | 1034  |
| 22.0 | 1197 | 1196 | 1199 | 1206 | 1188 | 1195 | 1172 | 1163 | 1163 | 1137 | 1131  | 1119  | 1083  | 1086  | 1051  |
| 23.0 | 1219 | 1216 | 1229 | 1225 | 1213 | 1211 | 1186 | 1190 | 1180 | 1161 | 1155  | 1137  | 1109  | 1101  | 1075  |
| 24.0 | 1233 | 1246 | 1252 | 1239 | 1239 | 1223 | 1211 | 1208 | 1194 | 1187 | 1172  | 1151  | 1136  | 1111  | 1107  |
| 25.0 | 1265 | 1276 | 1271 | 1256 | 1261 | 1239 | 1239 | 1221 | 1210 | 1210 | 1185  | 1169  | 1159  | 1126  | 1136  |
| 26.0 | 1291 | 1303 | 1288 | 1279 | 1278 | 1268 | 1266 | 1236 | 1231 | 1227 | 1205  | 1194  | 1178  | 1149  | 1159  |
| 27.0 | 1304 | 1320 | 1310 | 1310 | 1298 | 1300 | 1287 | 1261 | 1260 | 1240 | 1232  | 1228  | 1198  | 1181  | 1176  |
| 28.0 | 1332 | 1338 | 1342 | 1346 | 1328 | 1333 | 1304 | 1296 | 1290 | 1261 | 1267  | 1260  | 1225  | 1214  | 1191  |
| 29.0 | 1374 | 1365 | 1377 | 1376 | 1365 | 1359 | 1325 | 1328 | 1312 | 1292 | 1298  | 1285  | 1260  | 1239  | 1215  |
| 30.0 | 1405 | 1401 | 1404 | 1399 | 1400 | 1377 | 1353 | 1355 | 1330 | 1327 | 1317  | 1304  | 1295  | 1260  | 1247  |
| 31.0 | 1423 | 1434 | 1421 | 1417 | 1425 | 1398 | 1388 | 1373 | 1353 | 1358 | 1336  | 1325  | 1324  | 1286  | 1281  |
| 32.0 | 1453 | 1460 | 1439 | 1440 | 1443 | 1427 | 1418 | 1391 | 1386 | 1380 | 1357  | 1353  | 1345  | 1321  | 1308  |
| 33.0 | 1493 | 1477 | 1466 | 1473 | 1460 | 1461 | 1441 | 1418 | 1423 | 1399 | 1386  | 1384  | 1363  | 1356  | 1329  |
| 34.0 | 1519 | 1500 | 1503 | 1508 | 1491 | 1492 | 1458 | 1454 | 1456 | 1423 | 1422  | 1416  | 1388  | 1392  | 1350  |
| 35.0 | 1533 | 1536 | 1541 | 1540 | 1527 | 1512 | 1482 | 1490 | 1479 | 1458 | 1458  | 1445  | 1421  | 1419  | 1379  |
| 36.0 | 1557 | 1577 | 1573 | 1563 | 1560 | 1529 | 1517 | 1516 | 1496 | 1494 | 1487  | 1467  | 1460  | 1438  | 1417  |
| 37.0 | 1597 | 1610 | 1593 | 1579 | 1583 | 1555 | 1557 | 1535 | 1520 | 1527 | 1508  | 1488  | 1493  | 1461  | 1454  |
| 38.0 | 1629 | 1632 | 1612 | 1605 | 1601 | 1591 | 1596 | 1561 | 1557 | 1551 | 1535  | 1523  | 1520  | 1495  | 1486  |
| 39.0 | 1646 | 1648 | 1637 | 1638 | 1627 | 1633 | 1625 | 1601 | 1599 | 1572 | 1573  | 1569  | 1547  | 1538  | 1509  |
| 40.0 | 1667 | 1671 | 1669 | 1675 | 1662 | 1666 | 1644 | 1644 | 1632 | 1601 | 1614  | 1612  | 1581  | 1576  | 1532  |
| 41.0 | 1702 | 1700 | 1700 | 1706 | 1697 | 1684 | 1665 | 1675 | 1653 | 1640 | 1652  | 1644  | 1622  | 1601  | 1563  |
| 42.0 | 1731 | 1727 | 1717 | 1718 | 1718 | 1692 | 1688 | 1691 | 1663 | 1673 | 1671  | 1660  | 1659  | 1614  | 1597  |
| 43.0 | 1736 | 1737 | 1717 | 1717 | 1722 | 1702 | 1709 | 1693 | 1678 | 1691 | 1673  | 1667  | 1675  | 1626  | 1618  |
| 44.0 | 1724 | 1734 | 1710 | 1717 | 1716 | 1714 | 1719 | 1695 | 1696 | 1694 | 1676  | 1673  | 1672  | 1645  | 1625  |
| 45.0 | 1726 | 1722 | 1709 | 1724 | 1708 | 1720 | 1715 | 1704 | 1708 | 1685 | 1684  | 1687  | 1665  | 1662  | 1623  |
| 46.0 | 1738 | 1716 | 1716 | 1733 | 1711 | 1717 | 1703 | 1711 | 1709 | 1682 | 1695  | 1696  | 1665  | 1667  | 1623  |
| 47.0 | 1738 | 1720 | 1726 | 1735 | 1715 | 1709 | 1695 | 1714 | 1696 | 1690 | 1700  | 1698  | 1676  | 1659  | 1630  |
| 48.0 | 1726 | 1734 | 1730 | 1727 | 1721 | 1696 | 1695 | 1706 | 1683 | 1699 | 1696  | 1690  | 1685  | 1651  | 1641  |
| 49.0 | 1722 | 1738 | 1725 | 1713 | 1719 | 1694 | 1701 | 1694 | 1682 | 1705 | 1688  | 1680  | 1685  | 1649  | 1644  |
| 50.0 | 1736 | 1731 | 1713 | 1706 | 1707 | 1701 | 1707 | 1678 | 1686 | 1696 | 1681  | 1679  | 1676  | 1659  | 1636  |
| 51.0 | 1743 | 1719 | 1708 | 1708 | 1698 | 1710 | 1705 | 1678 | 1691 | 1681 | 1682  | 1684  | 1668  | 1669  | 1625  |
| 52.0 | 1732 | 1714 | 1715 | 1719 | 1698 | 1715 | 1694 | 1689 | 1689 | 1670 | 1688  | 1695  | 1668  | 1670  | 1623  |
| 53.0 | 1725 | 1720 | 1725 | 1728 | 1707 | 1710 | 1686 | 1699 | 1683 | 1673 | 1697  | 1700  | 1680  | 1663  | 1633  |



Test Report Number: 10021186-10  
 Test Item Number: 014010

### Candela Table (cd)

|      | 150.0 | 160.0 | 170.0 | 180.0 | 190.0 | 200.0 | 210.0 | 220.0 | 230.0 | 240.0 | 250.0 | 260.0 | 270.0 | 280.0 | 290.0 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0  | 463   | 457   | 466   | 465   | 457   | 462   | 457   | 459   | 464   | 457   | 461   | 458   | 454   | 458   | 452   |
| 1.0  | 445   | 442   | 454   | 453   | 452   | 458   | 455   | 466   | 466   | 467   | 474   | 470   | 474   | 475   | 472   |
| 2.0  | 448   | 448   | 456   | 457   | 464   | 469   | 472   | 486   | 486   | 497   | 500   | 501   | 510   | 506   | 511   |
| 3.0  | 467   | 471   | 471   | 480   | 489   | 492   | 502   | 511   | 516   | 533   | 534   | 544   | 552   | 548   | 559   |
| 4.0  | 502   | 505   | 501   | 517   | 523   | 527   | 543   | 545   | 559   | 576   | 581   | 600   | 601   | 603   | 612   |
| 5.0  | 547   | 544   | 543   | 562   | 565   | 575   | 589   | 595   | 611   | 623   | 638   | 659   | 655   | 665   | 664   |
| 6.0  | 595   | 589   | 595   | 608   | 618   | 633   | 639   | 654   | 666   | 678   | 704   | 716   | 717   | 723   | 716   |
| 7.0  | 643   | 641   | 651   | 656   | 675   | 689   | 689   | 709   | 717   | 735   | 758   | 762   | 773   | 774   | 770   |
| 8.0  | 690   | 697   | 704   | 706   | 729   | 735   | 735   | 752   | 755   | 779   | 792   | 799   | 815   | 810   | 816   |
| 9.0  | 730   | 746   | 747   | 751   | 769   | 766   | 775   | 781   | 789   | 807   | 811   | 828   | 838   | 837   | 850   |
| 10.0 | 768   | 779   | 779   | 790   | 797   | 793   | 808   | 807   | 822   | 829   | 834   | 856   | 854   | 863   | 875   |
| 11.0 | 807   | 799   | 810   | 820   | 818   | 823   | 832   | 836   | 851   | 851   | 862   | 877   | 871   | 890   | 889   |
| 12.0 | 831   | 817   | 838   | 843   | 838   | 850   | 849   | 864   | 873   | 872   | 888   | 891   | 891   | 910   | 902   |
| 13.0 | 849   | 842   | 860   | 862   | 862   | 874   | 863   | 884   | 887   | 895   | 904   | 901   | 909   | 917   | 917   |
| 14.0 | 867   | 868   | 875   | 881   | 890   | 891   | 882   | 901   | 901   | 919   | 914   | 915   | 929   | 928   | 938   |
| 15.0 | 889   | 890   | 889   | 910   | 917   | 906   | 910   | 917   | 922   | 942   | 928   | 940   | 947   | 943   | 961   |
| 16.0 | 919   | 909   | 907   | 941   | 937   | 926   | 939   | 938   | 950   | 961   | 951   | 966   | 959   | 968   | 979   |
| 17.0 | 947   | 922   | 930   | 965   | 953   | 954   | 966   | 966   | 978   | 978   | 981   | 991   | 981   | 1002  | 998   |
| 18.0 | 970   | 941   | 957   | 978   | 974   | 985   | 983   | 995   | 997   | 995   | 1009  | 1009  | 1007  | 1020  | 1017  |
| 19.0 | 989   | 960   | 976   | 989   | 1000  | 1008  | 998   | 1013  | 1011  | 1015  | 1030  | 1020  | 1034  | 1053  | 1055  |
| 20.0 | 1002  | 981   | 988   | 1005  | 1022  | 1018  | 1015  | 1025  | 1039  | 1051  | 1053  | 1054  | 1073  | 1075  | 1090  |
| 21.0 | 1015  | 1005  | 998   | 1021  | 1050  | 1041  | 1051  | 1052  | 1065  | 1079  | 1074  | 1084  | 1097  | 1096  | 1117  |
| 22.0 | 1022  | 1017  | 1011  | 1057  | 1063  | 1061  | 1078  | 1075  | 1097  | 1099  | 1101  | 1115  | 1115  | 1125  | 1140  |
| 23.0 | 1044  | 1038  | 1026  | 1074  | 1073  | 1086  | 1098  | 1105  | 1120  | 1113  | 1129  | 1141  | 1133  | 1155  | 1156  |
| 24.0 | 1066  | 1061  | 1058  | 1086  | 1090  | 1112  | 1111  | 1132  | 1133  | 1128  | 1152  | 1157  | 1157  | 1183  | 1171  |
| 25.0 | 1092  | 1077  | 1077  | 1098  | 1113  | 1131  | 1128  | 1151  | 1143  | 1149  | 1166  | 1169  | 1186  | 1201  | 1196  |
| 26.0 | 1113  | 1093  | 1094  | 1116  | 1141  | 1145  | 1149  | 1162  | 1163  | 1177  | 1178  | 1190  | 1213  | 1212  | 1223  |
| 27.0 | 1140  | 1121  | 1109  | 1141  | 1166  | 1161  | 1178  | 1177  | 1189  | 1204  | 1197  | 1219  | 1233  | 1231  | 1251  |
| 28.0 | 1177  | 1135  | 1135  | 1167  | 1186  | 1185  | 1206  | 1200  | 1219  | 1225  | 1227  | 1251  | 1249  | 1260  | 1272  |
| 29.0 | 1219  | 1138  | 1166  | 1188  | 1202  | 1215  | 1228  | 1232  | 1244  | 1241  | 1261  | 1278  | 1271  | 1297  | 1289  |
| 30.0 | 1252  | 1160  | 1201  | 1204  | 1222  | 1245  | 1243  | 1260  | 1262  | 1262  | 1291  | 1298  | 1301  | 1328  | 1315  |
| 31.0 | 1275  | 1202  | 1229  | 1222  | 1250  | 1265  | 1261  | 1282  | 1281  | 1290  | 1313  | 1318  | 1338  | 1352  | 1348  |
| 32.0 | 1293  | 1254  | 1243  | 1249  | 1283  | 1279  | 1285  | 1300  | 1308  | 1326  | 1332  | 1348  | 1372  | 1372  | 1390  |
| 33.0 | 1311  | 1295  | 1257  | 1284  | 1311  | 1295  | 1315  | 1318  | 1343  | 1358  | 1358  | 1385  | 1396  | 1399  | 1420  |
| 34.0 | 1336  | 1322  | 1275  | 1316  | 1331  | 1322  | 1346  | 1345  | 1378  | 1384  | 1391  | 1422  | 1416  | 1432  | 1445  |
| 35.0 | 1367  | 1338  | 1299  | 1343  | 1349  | 1357  | 1370  | 1382  | 1408  | 1405  | 1431  | 1453  | 1443  | 1471  | 1468  |
| 36.0 | 1396  | 1353  | 1329  | 1363  | 1372  | 1391  | 1387  | 1420  | 1428  | 1428  | 1467  | 1475  | 1478  | 1505  | 1495  |
| 37.0 | 1419  | 1377  | 1365  | 1385  | 1406  | 1417  | 1412  | 1449  | 1447  | 1461  | 1492  | 1498  | 1516  | 1527  | 1534  |
| 38.0 | 1440  | 1413  | 1393  | 1416  | 1445  | 1437  | 1444  | 1469  | 1476  | 1499  | 1510  | 1527  | 1553  | 1547  | 1574  |
| 39.0 | 1465  | 1451  | 1418  | 1453  | 1479  | 1461  | 1480  | 1488  | 1510  | 1533  | 1532  | 1565  | 1578  | 1568  | 1605  |
| 40.0 | 1500  | 1481  | 1443  | 1487  | 1505  | 1490  | 1516  | 1513  | 1540  | 1552  | 1563  | 1598  | 1593  | 1596  | 1626  |
| 41.0 | 1538  | 1501  | 1469  | 1513  | 1522  | 1521  | 1536  | 1540  | 1560  | 1563  | 1592  | 1616  | 1600  | 1624  | 1638  |
| 42.0 | 1564  | 1515  | 1495  | 1522  | 1535  | 1549  | 1545  | 1563  | 1564  | 1570  | 1610  | 1621  | 1614  | 1643  | 1646  |
| 43.0 | 1572  | 1527  | 1511  | 1527  | 1553  | 1569  | 1553  | 1573  | 1567  | 1583  | 1612  | 1619  | 1632  | 1646  | 1660  |
| 44.0 | 1569  | 1538  | 1516  | 1540  | 1571  | 1575  | 1564  | 1574  | 1576  | 1599  | 1605  | 1622  | 1646  | 1642  | 1676  |
| 45.0 | 1570  | 1545  | 1518  | 1554  | 1584  | 1570  | 1578  | 1573  | 1593  | 1609  | 1607  | 1638  | 1654  | 1643  | 1690  |
| 46.0 | 1577  | 1544  | 1526  | 1566  | 1589  | 1573  | 1589  | 1581  | 1610  | 1613  | 1619  | 1648  | 1651  | 1655  | 1691  |
| 47.0 | 1590  | 1533  | 1541  | 1571  | 1585  | 1586  | 1592  | 1601  | 1615  | 1612  | 1633  | 1653  | 1647  | 1671  | 1684  |
| 48.0 | 1596  | 1528  | 1558  | 1564  | 1579  | 1599  | 1588  | 1615  | 1611  | 1609  | 1641  | 1649  | 1648  | 1680  | 1679  |
| 49.0 | 1591  | 1533  | 1564  | 1564  | 1582  | 1602  | 1587  | 1615  | 1605  | 1616  | 1637  | 1640  | 1653  | 1676  | 1684  |
| 50.0 | 1581  | 1541  | 1562  | 1573  | 1592  | 1597  | 1597  | 1606  | 1611  | 1632  | 1633  | 1643  | 1666  | 1669  | 1698  |
| 51.0 | 1576  | 1541  | 1556  | 1585  | 1602  | 1587  | 1609  | 1600  | 1622  | 1647  | 1636  | 1657  | 1679  | 1665  | 1706  |
| 52.0 | 1584  | 1535  | 1558  | 1591  | 1607  | 1591  | 1618  | 1606  | 1631  | 1653  | 1652  | 1673  | 1682  | 1673  | 1708  |
| 53.0 | 1599  | 1528  | 1571  | 1587  | 1605  | 1607  | 1615  | 1620  | 1635  | 1648  | 1671  | 1681  | 1677  | 1690  | 1703  |



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### Candela Table (cd)

|      | 300.0 | 310.0 | 320.0 | 330.0 | 340.0 | 350.0 | 360.0 |
|------|-------|-------|-------|-------|-------|-------|-------|
| 0.0  | 453   | 452   | 446   | 451   | 446   | 445   | 447   |
| 1.0  | 476   | 471   | 472   | 475   | 466   | 468   | 463   |
| 2.0  | 512   | 505   | 512   | 509   | 503   | 502   | 495   |
| 3.0  | 556   | 552   | 556   | 549   | 548   | 541   | 537   |
| 4.0  | 605   | 610   | 604   | 599   | 600   | 586   | 588   |
| 5.0  | 662   | 669   | 656   | 657   | 654   | 641   | 644   |
| 6.0  | 726   | 723   | 713   | 718   | 707   | 706   | 701   |
| 7.0  | 785   | 773   | 774   | 773   | 762   | 771   | 758   |
| 8.0  | 825   | 815   | 821   | 813   | 810   | 817   | 803   |
| 9.0  | 851   | 849   | 852   | 844   | 853   | 848   | 840   |
| 10.0 | 868   | 878   | 872   | 877   | 884   | 869   | 870   |
| 11.0 | 886   | 899   | 893   | 908   | 903   | 891   | 897   |
| 12.0 | 908   | 913   | 915   | 933   | 915   | 919   | 919   |
| 13.0 | 928   | 923   | 939   | 951   | 933   | 947   | 942   |
| 14.0 | 947   | 943   | 967   | 965   | 960   | 972   | 968   |
| 15.0 | 962   | 973   | 987   | 983   | 992   | 992   | 1000  |
| 16.0 | 979   | 1004  | 1004  | 1006  | 1015  | 1013  | 1031  |
| 17.0 | 1003  | 1024  | 1019  | 1043  | 1045  | 1051  | 1065  |
| 18.0 | 1038  | 1048  | 1053  | 1075  | 1067  | 1085  | 1090  |
| 19.0 | 1075  | 1069  | 1086  | 1103  | 1095  | 1118  | 1112  |
| 20.0 | 1103  | 1098  | 1120  | 1123  | 1125  | 1143  | 1137  |
| 21.0 | 1122  | 1128  | 1144  | 1142  | 1157  | 1161  | 1167  |
| 22.0 | 1139  | 1156  | 1160  | 1168  | 1186  | 1181  | 1199  |
| 23.0 | 1157  | 1177  | 1180  | 1203  | 1207  | 1209  | 1226  |
| 24.0 | 1183  | 1191  | 1204  | 1230  | 1223  | 1240  | 1241  |
| 25.0 | 1210  | 1208  | 1232  | 1251  | 1242  | 1266  | 1255  |
| 26.0 | 1237  | 1234  | 1258  | 1265  | 1267  | 1283  | 1276  |
| 27.0 | 1257  | 1267  | 1279  | 1282  | 1299  | 1299  | 1311  |
| 28.0 | 1275  | 1298  | 1296  | 1308  | 1330  | 1322  | 1345  |
| 29.0 | 1299  | 1322  | 1317  | 1342  | 1355  | 1361  | 1373  |
| 30.0 | 1334  | 1343  | 1349  | 1377  | 1374  | 1400  | 1396  |
| 31.0 | 1371  | 1370  | 1386  | 1404  | 1401  | 1429  | 1417  |
| 32.0 | 1405  | 1406  | 1420  | 1423  | 1438  | 1449  | 1448  |
| 33.0 | 1431  | 1445  | 1446  | 1447  | 1478  | 1470  | 1486  |
| 34.0 | 1452  | 1474  | 1467  | 1480  | 1508  | 1500  | 1522  |
| 35.0 | 1478  | 1496  | 1494  | 1521  | 1530  | 1538  | 1550  |
| 36.0 | 1517  | 1520  | 1533  | 1558  | 1549  | 1574  | 1568  |
| 37.0 | 1556  | 1551  | 1574  | 1586  | 1577  | 1599  | 1592  |
| 38.0 | 1590  | 1592  | 1610  | 1605  | 1612  | 1615  | 1626  |
| 39.0 | 1616  | 1630  | 1634  | 1626  | 1646  | 1637  | 1665  |
| 40.0 | 1633  | 1658  | 1647  | 1653  | 1669  | 1667  | 1697  |
| 41.0 | 1646  | 1673  | 1662  | 1680  | 1676  | 1700  | 1708  |
| 42.0 | 1666  | 1677  | 1682  | 1697  | 1676  | 1717  | 1712  |
| 43.0 | 1688  | 1684  | 1700  | 1701  | 1689  | 1719  | 1717  |
| 44.0 | 1701  | 1695  | 1710  | 1692  | 1703  | 1708  | 1724  |
| 45.0 | 1702  | 1708  | 1706  | 1689  | 1715  | 1707  | 1732  |
| 46.0 | 1697  | 1713  | 1696  | 1698  | 1717  | 1711  | 1734  |
| 47.0 | 1689  | 1707  | 1693  | 1709  | 1708  | 1720  | 1728  |
| 48.0 | 1691  | 1696  | 1703  | 1718  | 1699  | 1720  | 1716  |
| 49.0 | 1702  | 1691  | 1712  | 1718  | 1695  | 1710  | 1714  |
| 50.0 | 1710  | 1700  | 1718  | 1705  | 1701  | 1696  | 1721  |
| 51.0 | 1712  | 1714  | 1713  | 1700  | 1712  | 1695  | 1733  |
| 52.0 | 1709  | 1725  | 1704  | 1703  | 1715  | 1706  | 1737  |
| 53.0 | 1700  | 1725  | 1703  | 1715  | 1710  | 1725  | 1733  |



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 Test Item Number: 014010

### Candela Table (cd)

|       | 0.0  | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 |
|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 54.0  | 1737 | 1734 | 1731 | 1726 | 1721 | 1701 | 1691 | 1702 | 1675 | 1685 | 1695  | 1695  | 1689  | 1657  | 1646  |
| 55.0  | 1755 | 1744 | 1730 | 1719 | 1726 | 1701 | 1702 | 1697 | 1677 | 1693 | 1684  | 1684  | 1690  | 1659  | 1651  |
| 56.0  | 1756 | 1743 | 1718 | 1709 | 1718 | 1705 | 1710 | 1685 | 1686 | 1691 | 1679  | 1678  | 1687  | 1671  | 1648  |
| 57.0  | 1736 | 1727 | 1697 | 1705 | 1702 | 1705 | 1700 | 1680 | 1691 | 1677 | 1677  | 1680  | 1673  | 1679  | 1633  |
| 58.0  | 1719 | 1706 | 1683 | 1701 | 1676 | 1691 | 1677 | 1676 | 1677 | 1657 | 1677  | 1676  | 1656  | 1668  | 1618  |
| 59.0  | 1708 | 1687 | 1670 | 1682 | 1655 | 1663 | 1644 | 1660 | 1648 | 1642 | 1665  | 1661  | 1645  | 1638  | 1608  |
| 60.0  | 1675 | 1664 | 1643 | 1641 | 1628 | 1617 | 1612 | 1626 | 1606 | 1618 | 1631  | 1629  | 1624  | 1600  | 1592  |
| 61.0  | 1615 | 1626 | 1599 | 1584 | 1590 | 1564 | 1581 | 1573 | 1557 | 1582 | 1583  | 1579  | 1586  | 1560  | 1558  |
| 62.0  | 1544 | 1569 | 1533 | 1528 | 1533 | 1516 | 1532 | 1508 | 1511 | 1532 | 1531  | 1526  | 1530  | 1520  | 1507  |
| 63.0  | 1479 | 1494 | 1464 | 1475 | 1465 | 1467 | 1467 | 1447 | 1458 | 1466 | 1477  | 1475  | 1467  | 1469  | 1442  |
| 64.0  | 1412 | 1417 | 1396 | 1415 | 1391 | 1403 | 1390 | 1386 | 1389 | 1390 | 1425  | 1423  | 1399  | 1408  | 1379  |
| 65.0  | 1318 | 1339 | 1321 | 1335 | 1318 | 1319 | 1309 | 1315 | 1308 | 1316 | 1357  | 1359  | 1331  | 1333  | 1315  |
| 66.0  | 1202 | 1252 | 1230 | 1236 | 1235 | 1220 | 1222 | 1228 | 1215 | 1239 | 1262  | 1271  | 1255  | 1243  | 1245  |
| 67.0  | 1078 | 1143 | 1120 | 1118 | 1132 | 1107 | 1126 | 1115 | 1109 | 1138 | 1150  | 1168  | 1161  | 1146  | 1150  |
| 68.0  | 952  | 1015 | 990  | 990  | 1004 | 982  | 1002 | 983  | 995  | 1015 | 1027  | 1040  | 1039  | 1035  | 1032  |
| 69.0  | 829  | 890  | 870  | 876  | 874  | 867  | 875  | 867  | 889  | 892  | 904   | 918   | 917   | 932   | 920   |
| 70.0  | 706  | 770  | 761  | 766  | 757  | 756  | 757  | 764  | 776  | 777  | 795   | 811   | 802   | 821   | 807   |
| 71.0  | 597  | 664  | 661  | 657  | 648  | 645  | 655  | 660  | 666  | 673  | 693   | 706   | 694   | 714   | 708   |
| 72.0  | 512  | 571  | 569  | 559  | 559  | 550  | 564  | 564  | 574  | 587  | 598   | 603   | 603   | 611   | 618   |
| 73.0  | 442  | 489  | 489  | 477  | 481  | 473  | 486  | 484  | 493  | 508  | 511   | 518   | 522   | 522   | 531   |
| 74.0  | 374  | 413  | 412  | 406  | 407  | 404  | 414  | 411  | 422  | 432  | 439   | 441   | 443   | 447   | 452   |
| 75.0  | 312  | 341  | 343  | 342  | 339  | 341  | 345  | 343  | 356  | 362  | 372   | 371   | 370   | 377   | 378   |
| 76.0  | 257  | 277  | 281  | 283  | 278  | 282  | 284  | 284  | 295  | 298  | 309   | 311   | 306   | 312   | 313   |
| 77.0  | 214  | 224  | 229  | 231  | 227  | 230  | 232  | 234  | 240  | 245  | 254   | 256   | 252   | 255   | 257   |
| 78.0  | 178  | 184  | 189  | 190  | 190  | 191  | 193  | 194  | 198  | 202  | 209   | 214   | 211   | 210   | 212   |
| 79.0  | 147  | 152  | 155  | 157  | 160  | 159  | 161  | 162  | 165  | 169  | 172   | 177   | 177   | 176   | 175   |
| 80.0  | 121  | 126  | 127  | 129  | 133  | 134  | 136  | 136  | 139  | 141  | 142   | 147   | 149   | 148   | 145   |
| 81.0  | 103  | 105  | 103  | 106  | 110  | 112  | 114  | 115  | 119  | 118  | 118   | 123   | 124   | 126   | 123   |
| 82.0  | 89   | 90   | 87   | 88   | 92   | 93   | 96   | 97   | 99   | 98   | 98    | 101   | 101   | 102   | 99    |
| 83.0  | 76   | 76   | 73   | 73   | 76   | 78   | 82   | 83   | 85   | 85   | 84    | 85    | 84    | 86    | 87    |
| 84.0  | 66   | 66   | 63   | 62   | 64   | 65   | 69   | 70   | 71   | 73   | 71    | 70    | 70    | 71    | 73    |
| 85.0  | 59   | 58   | 56   | 55   | 55   | 56   | 59   | 61   | 61   | 64   | 62    | 60    | 60    | 61    | 63    |
| 86.0  | 52   | 50   | 51   | 50   | 49   | 50   | 51   | 52   | 53   | 56   | 55    | 52    | 52    | 53    | 55    |
| 87.0  | 46   | 44   | 46   | 46   | 43   | 45   | 45   | 46   | 46   | 48   | 49    | 46    | 46    | 46    | 48    |
| 88.0  | 40   | 39   | 43   | 43   | 40   | 42   | 41   | 41   | 41   | 42   | 44    | 41    | 41    | 40    | 41    |
| 89.0  | 37   | 37   | 41   | 41   | 39   | 41   | 40   | 40   | 39   | 40   | 43    | 41    | 39    | 38    | 38    |
| 90.0  | 36   | 35   | 39   | 39   | 38   | 40   | 39   | 38   | 38   | 38   | 40    | 41    | 39    | 37    | 36    |
| 91.0  | 35   | 34   | 36   | 37   | 38   | 39   | 38   | 37   | 36   | 36   | 37    | 38    | 38    | 35    | 34    |
| 92.0  | 34   | 33   | 33   | 34   | 37   | 37   | 37   | 35   | 35   | 34   | 33    | 36    | 36    | 35    | 32    |
| 93.0  | 34   | 33   | 30   | 31   | 35   | 35   | 35   | 34   | 34   | 32   | 31    | 33    | 34    | 33    | 31    |
| 94.0  | 33   | 31   | 28   | 29   | 32   | 31   | 33   | 32   | 33   | 31   | 28    | 31    | 31    | 32    | 30    |
| 95.0  | 30   | 29   | 26   | 26   | 28   | 28   | 30   | 30   | 31   | 29   | 26    | 27    | 28    | 29    | 29    |
| 96.0  | 27   | 27   | 24   | 24   | 25   | 24   | 27   | 28   | 28   | 28   | 24    | 24    | 25    | 26    | 27    |
| 97.0  | 23   | 24   | 24   | 23   | 22   | 22   | 23   | 25   | 25   | 26   | 23    | 21    | 22    | 23    | 25    |
| 98.0  | 20   | 21   | 22   | 22   | 20   | 20   | 20   | 22   | 22   | 24   | 22    | 19    | 19    | 19    | 23    |
| 99.0  | 17   | 18   | 21   | 21   | 18   | 19   | 18   | 19   | 19   | 21   | 22    | 18    | 18    | 17    | 20    |
| 100.0 | 15   | 15   | 20   | 20   | 17   | 18   | 16   | 16   | 17   | 19   | 20    | 17    | 16    | 15    | 17    |
| 101.0 | 15   | 14   | 18   | 18   | 16   | 17   | 15   | 14   | 15   | 16   | 19    | 17    | 16    | 14    | 14    |
| 102.0 | 15   | 13   | 16   | 16   | 16   | 17   | 15   | 13   | 13   | 14   | 17    | 17    | 16    | 13    | 12    |
| 103.0 | 15   | 12   | 13   | 14   | 16   | 16   | 15   | 13   | 13   | 12   | 14    | 16    | 15    | 13    | 11    |
| 104.0 | 14   | 13   | 11   | 12   | 15   | 15   | 14   | 13   | 13   | 11   | 12    | 15    | 15    | 13    | 11    |
| 105.0 | 13   | 13   | 10   | 11   | 14   | 13   | 14   | 13   | 13   | 11   | 10    | 14    | 14    | 14    | 11    |
| 106.0 | 12   | 13   | 10   | 10   | 13   | 12   | 13   | 13   | 13   | 11   | 10    | 12    | 13    | 13    | 11    |
| 107.0 | 10   | 13   | 10   | 9    | 11   | 10   | 12   | 13   | 13   | 12   | 9     | 11    | 11    | 13    | 12    |





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 Test Item Number: 014010

### Candela Table (cd)

|       | 150.0 | 160.0 | 170.0 | 180.0 | 190.0 | 200.0 | 210.0 | 220.0 | 230.0 | 240.0 | 250.0 | 260.0 | 270.0 | 280.0 | 290.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 54.0  | 1610  | 1528  | 1589  | 1585  | 1604  | 1621  | 1608  | 1630  | 1632  | 1645  | 1681  | 1681  | 1677  | 1701  | 1699  |
| 55.0  | 1610  | 1533  | 1598  | 1591  | 1610  | 1626  | 1609  | 1629  | 1632  | 1655  | 1681  | 1682  | 1691  | 1701  | 1707  |
| 56.0  | 1603  | 1535  | 1592  | 1602  | 1621  | 1616  | 1618  | 1623  | 1639  | 1671  | 1677  | 1690  | 1704  | 1694  | 1722  |
| 57.0  | 1591  | 1530  | 1578  | 1609  | 1625  | 1600  | 1622  | 1622  | 1650  | 1678  | 1678  | 1700  | 1712  | 1696  | 1731  |
| 58.0  | 1576  | 1509  | 1567  | 1597  | 1613  | 1587  | 1615  | 1625  | 1653  | 1667  | 1681  | 1703  | 1702  | 1703  | 1722  |
| 59.0  | 1567  | 1481  | 1561  | 1576  | 1585  | 1574  | 1593  | 1621  | 1635  | 1644  | 1673  | 1686  | 1679  | 1701  | 1697  |
| 60.0  | 1551  | 1445  | 1550  | 1544  | 1552  | 1560  | 1564  | 1602  | 1603  | 1615  | 1647  | 1656  | 1653  | 1680  | 1668  |
| 61.0  | 1521  | 1412  | 1524  | 1513  | 1517  | 1528  | 1529  | 1566  | 1563  | 1586  | 1607  | 1619  | 1627  | 1638  | 1639  |
| 62.0  | 1474  | 1372  | 1475  | 1481  | 1488  | 1482  | 1502  | 1519  | 1529  | 1558  | 1556  | 1582  | 1603  | 1591  | 1609  |
| 63.0  | 1418  | 1318  | 1417  | 1441  | 1445  | 1425  | 1468  | 1471  | 1489  | 1517  | 1511  | 1549  | 1559  | 1546  | 1567  |
| 64.0  | 1359  | 1254  | 1357  | 1385  | 1390  | 1371  | 1416  | 1422  | 1441  | 1459  | 1465  | 1497  | 1494  | 1499  | 1501  |
| 65.0  | 1303  | 1183  | 1295  | 1316  | 1318  | 1314  | 1344  | 1366  | 1375  | 1386  | 1408  | 1427  | 1417  | 1435  | 1424  |
| 66.0  | 1234  | 1109  | 1228  | 1235  | 1246  | 1252  | 1267  | 1294  | 1298  | 1311  | 1333  | 1344  | 1335  | 1352  | 1343  |
| 67.0  | 1145  | 1035  | 1147  | 1150  | 1161  | 1166  | 1181  | 1201  | 1205  | 1223  | 1235  | 1250  | 1241  | 1251  | 1253  |
| 68.0  | 1034  | 948   | 1034  | 1054  | 1065  | 1060  | 1083  | 1093  | 1109  | 1123  | 1125  | 1138  | 1132  | 1134  | 1144  |
| 69.0  | 916   | 853   | 924   | 948   | 959   | 945   | 975   | 976   | 994   | 1001  | 997   | 1022  | 1007  | 1000  | 1023  |
| 70.0  | 802   | 756   | 811   | 838   | 846   | 838   | 868   | 869   | 886   | 888   | 885   | 902   | 888   | 888   | 891   |
| 71.0  | 699   | 656   | 706   | 725   | 729   | 730   | 749   | 757   | 769   | 760   | 767   | 767   | 752   | 769   | 755   |
| 72.0  | 606   | 565   | 612   | 621   | 623   | 632   | 640   | 648   | 654   | 645   | 649   | 646   | 636   | 648   | 641   |
| 73.0  | 521   | 487   | 527   | 531   | 533   | 540   | 543   | 548   | 548   | 549   | 543   | 545   | 539   | 540   | 543   |
| 74.0  | 444   | 419   | 449   | 455   | 456   | 460   | 462   | 461   | 463   | 465   | 456   | 458   | 454   | 452   | 455   |
| 75.0  | 371   | 355   | 374   | 384   | 386   | 384   | 391   | 383   | 388   | 388   | 379   | 380   | 377   | 373   | 375   |
| 76.0  | 309   | 294   | 306   | 316   | 319   | 318   | 325   | 313   | 317   | 316   | 309   | 310   | 306   | 302   | 303   |
| 77.0  | 255   | 241   | 249   | 256   | 260   | 261   | 265   | 255   | 256   | 255   | 251   | 250   | 246   | 247   | 244   |
| 78.0  | 212   | 200   | 205   | 208   | 214   | 218   | 218   | 210   | 209   | 207   | 206   | 204   | 200   | 202   | 201   |
| 79.0  | 177   | 168   | 170   | 171   | 178   | 181   | 178   | 172   | 171   | 170   | 170   | 168   | 166   | 166   | 169   |
| 80.0  | 147   | 142   | 142   | 142   | 148   | 149   | 147   | 141   | 141   | 141   | 141   | 141   | 137   | 137   | 141   |
| 81.0  | 121   | 119   | 118   | 118   | 122   | 122   | 121   | 116   | 119   | 118   | 118   | 119   | 115   | 115   | 118   |
| 82.0  | 99    | 98    | 97    | 96    | 99    | 99    | 98    | 96    | 97    | 95    | 99    | 99    | 95    | 97    | 97    |
| 83.0  | 81    | 80    | 82    | 80    | 80    | 80    | 80    | 81    | 82    | 80    | 82    | 82    | 80    | 81    | 81    |
| 84.0  | 67    | 66    | 70    | 68    | 66    | 67    | 66    | 70    | 70    | 68    | 69    | 69    | 68    | 69    | 69    |
| 85.0  | 58    | 57    | 61    | 60    | 58    | 58    | 58    | 61    | 61    | 60    | 60    | 60    | 60    | 60    | 60    |
| 86.0  | 51    | 50    | 53    | 54    | 52    | 51    | 52    | 54    | 53    | 54    | 51    | 52    | 54    | 52    | 52    |
| 87.0  | 46    | 44    | 46    | 48    | 47    | 46    | 47    | 47    | 46    | 48    | 45    | 46    | 47    | 45    | 45    |
| 88.0  | 41    | 39    | 40    | 42    | 43    | 43    | 44    | 42    | 41    | 43    | 40    | 41    | 42    | 41    | 40    |
| 89.0  | 41    | 39    | 37    | 40    | 42    | 42    | 43    | 40    | 39    | 41    | 39    | 39    | 39    | 39    | 38    |
| 90.0  | 40    | 39    | 35    | 37    | 41    | 41    | 41    | 38    | 37    | 38    | 38    | 37    | 36    | 36    | 37    |
| 91.0  | 38    | 38    | 34    | 35    | 39    | 39    | 38    | 36    | 35    | 36    | 37    | 36    | 35    | 35    | 36    |
| 92.0  | 35    | 36    | 32    | 33    | 36    | 36    | 36    | 33    | 34    | 34    | 36    | 35    | 33    | 34    | 35    |
| 93.0  | 32    | 34    | 31    | 31    | 32    | 33    | 32    | 31    | 33    | 31    | 34    | 33    | 32    | 32    | 33    |
| 94.0  | 29    | 31    | 30    | 29    | 29    | 29    | 29    | 30    | 32    | 29    | 32    | 32    | 30    | 31    | 31    |
| 95.0  | 25    | 27    | 29    | 27    | 26    | 26    | 26    | 29    | 30    | 28    | 30    | 30    | 29    | 29    | 29    |
| 96.0  | 23    | 24    | 27    | 26    | 24    | 24    | 24    | 28    | 28    | 26    | 27    | 27    | 27    | 27    | 27    |
| 97.0  | 20    | 21    | 25    | 25    | 22    | 21    | 22    | 26    | 25    | 25    | 24    | 24    | 25    | 24    | 23    |
| 98.0  | 19    | 19    | 23    | 23    | 21    | 20    | 21    | 23    | 22    | 23    | 20    | 21    | 23    | 21    | 20    |
| 99.0  | 18    | 17    | 20    | 22    | 20    | 19    | 20    | 21    | 19    | 20    | 17    | 18    | 20    | 18    | 17    |
| 100.0 | 17    | 16    | 17    | 19    | 19    | 18    | 19    | 18    | 16    | 18    | 15    | 16    | 17    | 16    | 15    |
| 101.0 | 17    | 16    | 15    | 17    | 18    | 18    | 18    | 15    | 14    | 15    | 13    | 14    | 14    | 14    | 13    |
| 102.0 | 16    | 15    | 13    | 14    | 17    | 17    | 16    | 13    | 12    | 13    | 12    | 12    | 12    | 12    | 13    |
| 103.0 | 15    | 15    | 11    | 12    | 15    | 15    | 14    | 11    | 11    | 11    | 11    | 11    | 11    | 12    | 13    |
| 104.0 | 14    | 14    | 11    | 11    | 13    | 14    | 13    | 10    | 11    | 10    | 12    | 12    | 11    | 12    | 13    |
| 105.0 | 12    | 13    | 11    | 10    | 12    | 12    | 11    | 10    | 11    | 10    | 12    | 12    | 11    | 13    | 13    |
| 106.0 | 11    | 12    | 11    | 10    | 10    | 10    | 9     | 10    | 11    | 10    | 12    | 12    | 12    | 13    | 13    |
| 107.0 | 9     | 11    | 12    | 10    | 9     | 9     | 9     | 11    | 12    | 10    | 12    | 12    | 12    | 13    | 13    |



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### Candela Table (cd)

|       | 300.0 | 310.0 | 320.0 | 330.0 | 340.0 | 350.0 | 360.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 54.0  | 1707  | 1721  | 1716  | 1727  | 1705  | 1736  | 1725  |
| 55.0  | 1723  | 1721  | 1730  | 1733  | 1712  | 1734  | 1729  |
| 56.0  | 1736  | 1731  | 1734  | 1729  | 1725  | 1724  | 1742  |
| 57.0  | 1734  | 1738  | 1723  | 1716  | 1733  | 1717  | 1744  |
| 58.0  | 1716  | 1730  | 1701  | 1705  | 1720  | 1713  | 1732  |
| 59.0  | 1691  | 1702  | 1684  | 1695  | 1692  | 1701  | 1701  |
| 60.0  | 1669  | 1665  | 1667  | 1680  | 1655  | 1672  | 1661  |
| 61.0  | 1647  | 1632  | 1642  | 1647  | 1623  | 1620  | 1623  |
| 62.0  | 1610  | 1599  | 1596  | 1592  | 1586  | 1562  | 1581  |
| 63.0  | 1556  | 1553  | 1533  | 1528  | 1536  | 1508  | 1527  |
| 64.0  | 1488  | 1493  | 1462  | 1463  | 1467  | 1452  | 1454  |
| 65.0  | 1414  | 1416  | 1388  | 1392  | 1380  | 1379  | 1365  |
| 66.0  | 1334  | 1323  | 1309  | 1308  | 1284  | 1285  | 1264  |
| 67.0  | 1246  | 1224  | 1210  | 1203  | 1185  | 1168  | 1157  |
| 68.0  | 1135  | 1112  | 1090  | 1074  | 1070  | 1026  | 1026  |
| 69.0  | 999   | 985   | 954   | 942   | 943   | 914   | 911   |
| 70.0  | 870   | 858   | 826   | 818   | 814   | 794   | 784   |
| 71.0  | 742   | 732   | 709   | 704   | 688   | 678   | 665   |
| 72.0  | 627   | 613   | 603   | 601   | 581   | 571   | 564   |
| 73.0  | 530   | 513   | 511   | 510   | 493   | 480   | 481   |
| 74.0  | 443   | 434   | 428   | 427   | 416   | 403   | 407   |
| 75.0  | 366   | 361   | 351   | 351   | 344   | 335   | 338   |
| 76.0  | 295   | 292   | 281   | 283   | 276   | 273   | 272   |
| 77.0  | 239   | 238   | 229   | 229   | 221   | 222   | 219   |
| 78.0  | 196   | 195   | 190   | 189   | 182   | 183   | 180   |
| 79.0  | 164   | 162   | 158   | 156   | 152   | 152   | 150   |
| 80.0  | 137   | 136   | 132   | 129   | 127   | 127   | 126   |
| 81.0  | 115   | 116   | 111   | 106   | 108   | 107   | 105   |
| 82.0  | 95    | 97    | 93    | 90    | 91    | 90    | 90    |
| 83.0  | 80    | 80    | 78    | 76    | 76    | 74    | 75    |
| 84.0  | 69    | 68    | 67    | 66    | 64    | 62    | 64    |
| 85.0  | 61    | 59    | 58    | 58    | 56    | 53    | 56    |
| 86.0  | 53    | 51    | 51    | 52    | 49    | 46    | 49    |
| 87.0  | 46    | 45    | 44    | 45    | 43    | 41    | 43    |
| 88.0  | 41    | 39    | 39    | 41    | 38    | 38    | 38    |
| 89.0  | 38    | 38    | 37    | 38    | 36    | 37    | 36    |
| 90.0  | 36    | 36    | 36    | 36    | 35    | 37    | 35    |
| 91.0  | 34    | 35    | 35    | 34    | 34    | 36    | 34    |
| 92.0  | 33    | 34    | 34    | 32    | 33    | 35    | 33    |
| 93.0  | 32    | 33    | 33    | 30    | 33    | 33    | 33    |
| 94.0  | 30    | 32    | 31    | 29    | 31    | 31    | 31    |
| 95.0  | 29    | 29    | 29    | 28    | 29    | 28    | 29    |
| 96.0  | 27    | 26    | 26    | 26    | 26    | 25    | 26    |
| 97.0  | 24    | 22    | 23    | 25    | 23    | 22    | 24    |
| 98.0  | 22    | 19    | 20    | 22    | 20    | 18    | 21    |
| 99.0  | 19    | 16    | 16    | 20    | 17    | 16    | 18    |
| 100.0 | 16    | 14    | 14    | 17    | 14    | 15    | 15    |
| 101.0 | 14    | 13    | 13    | 14    | 13    | 14    | 13    |
| 102.0 | 12    | 12    | 12    | 12    | 12    | 13    | 12    |
| 103.0 | 11    | 12    | 12    | 11    | 12    | 13    | 12    |
| 104.0 | 11    | 12    | 12    | 10    | 12    | 14    | 12    |
| 105.0 | 11    | 13    | 13    | 10    | 13    | 14    | 13    |
| 106.0 | 12    | 13    | 13    | 10    | 13    | 13    | 13    |
| 107.0 | 12    | 12    | 12    | 11    | 13    | 12    | 13    |



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 Test Item Number: 014010

Candela Table (cd)

|       | 0.0 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 |
|-------|-----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 108.0 | 9   | 13   | 10   | 9    | 10   | 9    | 11   | 13   | 12   | 13   | 10    | 10    | 10    | 11    | 12    |
| 109.0 | 8   | 12   | 11   | 10   | 9    | 8    | 9    | 12   | 11   | 13   | 10    | 8     | 9     | 10    | 12    |
| 110.0 | 9   | 10   | 11   | 11   | 8    | 8    | 8    | 11   | 10   | 12   | 11    | 8     | 8     | 9     | 11    |
| 111.0 | 9   | 9    | 12   | 11   | 8    | 9    | 7    | 9    | 9    | 11   | 11    | 8     | 7     | 8     | 10    |
| 112.0 | 10  | 8    | 11   | 11   | 8    | 9    | 7    | 8    | 8    | 9    | 12    | 8     | 7     | 7     | 8     |
| 113.0 | 11  | 7    | 11   | 11   | 9    | 10   | 8    | 7    | 7    | 8    | 11    | 9     | 8     | 6     | 7     |
| 114.0 | 10  | 7    | 10   | 10   | 9    | 10   | 8    | 6    | 7    | 7    | 10    | 10    | 9     | 6     | 6     |
| 115.0 | 9   | 7    | 8    | 9    | 10   | 10   | 9    | 6    | 7    | 6    | 9     | 10    | 9     | 7     | 6     |
| 116.0 | 7   | 8    | 7    | 8    | 10   | 9    | 9    | 7    | 7    | 6    | 7     | 10    | 10    | 8     | 6     |
| 117.0 | 6   | 9    | 6    | 7    | 9    | 8    | 9    | 7    | 8    | 7    | 6     | 10    | 9     | 8     | 6     |
| 118.0 | 5   | 9    | 5    | 5    | 9    | 7    | 9    | 8    | 9    | 8    | 5     | 9     | 9     | 8     | 7     |
| 119.0 | 5   | 9    | 6    | 5    | 7    | 6    | 8    | 8    | 9    | 8    | 5     | 8     | 8     | 8     | 8     |
| 120.0 | 6   | 8    | 6    | 5    | 6    | 5    | 6    | 8    | 9    | 9    | 6     | 6     | 6     | 7     | 8     |
| 121.0 | 7   | 7    | 7    | 5    | 5    | 4    | 5    | 8    | 8    | 9    | 6     | 5     | 5     | 6     | 8     |
| 122.0 | 8   | 6    | 8    | 6    | 4    | 5    | 4    | 7    | 7    | 8    | 7     | 4     | 4     | 5     | 7     |
| 123.0 | 8   | 5    | 8    | 7    | 4    | 5    | 3    | 6    | 6    | 7    | 8     | 4     | 4     | 4     | 6     |
| 124.0 | 7   | 4    | 8    | 8    | 4    | 6    | 3    | 4    | 5    | 6    | 8     | 4     | 4     | 3     | 5     |
| 125.0 | 5   | 3    | 7    | 7    | 5    | 7    | 4    | 3    | 4    | 5    | 8     | 5     | 4     | 3     | 4     |
| 126.0 | 4   | 4    | 6    | 7    | 6    | 7    | 5    | 3    | 3    | 4    | 7     | 6     | 5     | 3     | 3     |
| 127.0 | 3   | 4    | 5    | 6    | 7    | 7    | 6    | 3    | 4    | 3    | 5     | 7     | 6     | 4     | 2     |
| 128.0 | 3   | 5    | 3    | 4    | 7    | 6    | 6    | 3    | 4    | 3    | 4     | 7     | 7     | 5     | 2     |
| 129.0 | 4   | 6    | 3    | 3    | 6    | 5    | 6    | 4    | 5    | 4    | 3     | 7     | 7     | 6     | 3     |
| 130.0 | 5   | 6    | 2    | 2    | 5    | 3    | 5    | 5    | 6    | 5    | 3     | 6     | 6     | 6     | 4     |
| 131.0 | 6   | 6    | 3    | 2    | 4    | 2    | 4    | 6    | 6    | 6    | 3     | 4     | 5     | 5     | 4     |
| 132.0 | 6   | 5    | 3    | 2    | 3    | 1    | 3    | 6    | 6    | 6    | 3     | 3     | 4     | 5     | 5     |
| 133.0 | 5   | 4    | 4    | 3    | 2    | 1    | 2    | 6    | 6    | 6    | 4     | 2     | 3     | 3     | 5     |
| 134.0 | 4   | 3    | 4    | 4    | 1    | 2    | 1    | 5    | 5    | 5    | 5     | 2     | 2     | 2     | 5     |
| 135.0 | 2   | 2    | 5    | 4    | 1    | 3    | 1    | 4    | 3    | 4    | 5     | 2     | 1     | 1     | 4     |
| 136.0 | 1   | 1    | 5    | 5    | 1    | 3    | 1    | 3    | 2    | 3    | 6     | 3     | 2     | 1     | 3     |
| 137.0 | 3   | 3    | 4    | 5    | 2    | 4    | 2    | 2    | 1    | 2    | 5     | 4     | 2     | 1     | 2     |
| 138.0 | 4   | 4    | 3    | 4    | 3    | 4    | 3    | 1    | 1    | 1    | 4     | 4     | 3     | 2     | 1     |
| 139.0 | 3   | 3    | 2    | 3    | 4    | 4    | 4    | 1    | 1    | 1    | 3     | 5     | 4     | 3     | 3     |
| 140.0 | 1   | 2    | 1    | 2    | 4    | 4    | 4    | 1    | 2    | 1    | 2     | 5     | 4     | 4     | 4     |
| 141.0 | 2   | 1    | 2    | 1    | 4    | 3    | 4    | 2    | 3    | 2    | 1     | 4     | 5     | 5     | 4     |
| 142.0 | 3   | 2    | 4    | 2    | 3    | 1    | 4    | 3    | 4    | 3    | 3     | 3     | 4     | 5     | 3     |
| 143.0 | 4   | 3    | 4    | 3    | 2    | 1    | 3    | 4    | 4    | 4    | 4     | 2     | 4     | 4     | 2     |
| 144.0 | 3   | 4    | 3    | 4    | 1    | 3    | 2    | 4    | 4    | 4    | 4     | 1     | 3     | 3     | 1     |
| 145.0 | 1   | 3    | 2    | 3    | 1    | 4    | 1    | 4    | 4    | 4    | 3     | 2     | 1     | 2     | 1     |
| 146.0 | 1   | 3    | 1    | 3    | 2    | 3    | 2    | 3    | 3    | 4    | 2     | 4     | 1     | 1     | 3     |
| 147.0 | 2   | 2    | 1    | 2    | 0    | 3    | 3    | 2    | 2    | 3    | 1     | 4     | 3     | 2     | 4     |
| 148.0 | 0   | 0    | 2    | 1    | 1    | 2    | 3    | 1    | 1    | 2    | 2     | 3     | 4     | 3     | 3     |
| 149.0 | 1   | 1    | 0    | 1    | 3    | 1    | 3    | 1    | 2    | 1    | 4     | 2     | 3     | 3     | 3     |
| 150.0 | 3   | 1    | 1    | 2    | 3    | 1    | 3    | 2    | 3    | 2    | 4     | 1     | 3     | 3     | 2     |
| 151.0 | 3   | 0    | 1    | 0    | 2    | 2    | 2    | 0    | 3    | 1    | 3     | 1     | 2     | 2     | 1     |
| 152.0 | 2   | 1    | 0    | 1    | 1    | 0    | 1    | 1    | 3    | 1    | 2     | 2     | 1     | 1     | 1     |
| 153.0 | 0   | 1    | 2    | 1    | 0    | 1    | 1    | 3    | 3    | 3    | 1     | 0     | 1     | 1     | 1     |
| 154.0 | 1   | 0    | 3    | 0    | 1    | 1    | 2    | 3    | 2    | 3    | 1     | 1     | 2     | 2     | 0     |
| 155.0 | 1   | 2    | 2    | 2    | 1    | 0    | 0    | 3    | 1    | 3    | 2     | 1     | 1     | 1     | 1     |
| 156.0 | 0   | 3    | 1    | 3    | 0    | 2    | 1    | 1    | 1    | 2    | 0     | 0     | 0     | 1     | 1     |
| 157.0 | 1   | 2    | 1    | 3    | 1    | 3    | 1    | 0    | 1    | 1    | 1     | 1     | 1     | 1     | 0     |
| 158.0 | 1   | 1    | 1    | 2    | 0    | 2    | 0    | 1    | 0    | 0    | 2     | 3     | 1     | 0     | 2     |
| 159.0 | 0   | 1    | 0    | 1    | 0    | 1    | 2    | 1    | 1    | 1    | 0     | 3     | 0     | 1     | 3     |
| 160.0 | 2   | 1    | 1    | 1    | 2    | 0    | 3    | 0    | 1    | 0    | 2     | 2     | 2     | 2     | 2     |
| 161.0 | 2   | 0    | 1    | 1    | 3    | 1    | 2    | 1    | 0    | 1    | 3     | 1     | 3     | 3     | 1     |



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Candela Table (cd)

|       | 150.0 | 160.0 | 170.0 | 180.0 | 190.0 | 200.0 | 210.0 | 220.0 | 230.0 | 240.0 | 250.0 | 260.0 | 270.0 | 280.0 | 290.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 108.0 | 8     | 9     | 12    | 11    | 8     | 8     | 8     | 12    | 12    | 11    | 12    | 12    | 12    | 12    | 12    |
| 109.0 | 8     | 8     | 12    | 11    | 8     | 8     | 9     | 12    | 12    | 11    | 11    | 11    | 12    | 11    | 11    |
| 110.0 | 8     | 7     | 11    | 12    | 9     | 9     | 10    | 12    | 11    | 11    | 10    | 10    | 11    | 10    | 9     |
| 111.0 | 8     | 7     | 10    | 12    | 10    | 10    | 10    | 11    | 10    | 11    | 8     | 9     | 10    | 9     | 8     |
| 112.0 | 8     | 8     | 9     | 11    | 10    | 10    | 11    | 10    | 8     | 10    | 7     | 7     | 9     | 8     | 7     |
| 113.0 | 9     | 8     | 7     | 9     | 11    | 11    | 11    | 8     | 7     | 8     | 6     | 6     | 7     | 7     | 7     |
| 114.0 | 10    | 9     | 6     | 8     | 10    | 10    | 10    | 7     | 6     | 7     | 6     | 6     | 6     | 7     | 8     |
| 115.0 | 10    | 9     | 6     | 7     | 10    | 10    | 9     | 6     | 6     | 6     | 6     | 6     | 6     | 8     | 8     |
| 116.0 | 9     | 9     | 6     | 6     | 9     | 9     | 7     | 6     | 6     | 5     | 6     | 7     | 7     | 9     | 9     |
| 117.0 | 8     | 9     | 7     | 6     | 7     | 7     | 6     | 6     | 7     | 5     | 7     | 8     | 7     | 9     | 9     |
| 118.0 | 7     | 8     | 7     | 6     | 6     | 6     | 5     | 6     | 8     | 5     | 8     | 8     | 8     | 9     | 10    |
| 119.0 | 6     | 6     | 8     | 6     | 5     | 5     | 5     | 7     | 8     | 6     | 8     | 9     | 9     | 9     | 9     |
| 120.0 | 5     | 5     | 8     | 7     | 5     | 5     | 5     | 8     | 8     | 7     | 8     | 8     | 9     | 8     | 8     |
| 121.0 | 4     | 4     | 8     | 8     | 5     | 5     | 5     | 8     | 8     | 7     | 7     | 8     | 8     | 7     | 7     |
| 122.0 | 4     | 4     | 8     | 8     | 5     | 5     | 6     | 8     | 7     | 7     | 5     | 7     | 7     | 5     | 5     |
| 123.0 | 4     | 4     | 7     | 8     | 6     | 6     | 7     | 8     | 6     | 7     | 4     | 5     | 6     | 4     | 4     |
| 124.0 | 5     | 5     | 6     | 7     | 7     | 7     | 8     | 7     | 5     | 6     | 3     | 4     | 5     | 4     | 4     |
| 125.0 | 5     | 5     | 4     | 6     | 7     | 7     | 7     | 6     | 4     | 5     | 3     | 4     | 4     | 4     | 4     |
| 126.0 | 6     | 6     | 3     | 5     | 7     | 7     | 7     | 4     | 3     | 4     | 3     | 3     | 3     | 5     | 5     |
| 127.0 | 7     | 7     | 3     | 4     | 7     | 7     | 6     | 3     | 3     | 3     | 3     | 4     | 3     | 5     | 6     |
| 128.0 | 6     | 7     | 3     | 3     | 6     | 6     | 4     | 3     | 3     | 2     | 4     | 4     | 4     | 6     | 6     |
| 129.0 | 6     | 6     | 3     | 3     | 5     | 4     | 3     | 3     | 3     | 2     | 5     | 5     | 5     | 6     | 7     |
| 130.0 | 5     | 5     | 3     | 3     | 3     | 3     | 2     | 3     | 4     | 2     | 6     | 6     | 5     | 7     | 7     |
| 131.0 | 4     | 4     | 4     | 4     | 3     | 2     | 2     | 4     | 5     | 3     | 6     | 6     | 6     | 6     | 6     |
| 132.0 | 3     | 2     | 5     | 5     | 2     | 2     | 3     | 4     | 5     | 4     | 6     | 6     | 6     | 5     | 5     |
| 133.0 | 2     | 2     | 6     | 5     | 2     | 2     | 4     | 5     | 5     | 4     | 5     | 5     | 6     | 4     | 4     |
| 134.0 | 1     | 1     | 6     | 6     | 3     | 3     | 5     | 5     | 5     | 5     | 4     | 4     | 5     | 3     | 3     |
| 135.0 | 1     | 2     | 5     | 5     | 3     | 4     | 5     | 5     | 4     | 5     | 2     | 3     | 4     | 2     | 2     |
| 136.0 | 2     | 2     | 4     | 4     | 4     | 5     | 5     | 5     | 3     | 5     | 1     | 2     | 2     | 1     | 1     |
| 137.0 | 3     | 3     | 3     | 3     | 5     | 5     | 5     | 4     | 2     | 4     | 1     | 1     | 2     | 1     | 1     |
| 138.0 | 4     | 4     | 1     | 2     | 5     | 5     | 4     | 3     | 1     | 3     | 1     | 1     | 1     | 2     | 2     |
| 139.0 | 4     | 5     | 1     | 1     | 5     | 5     | 3     | 2     | 2     | 1     | 2     | 1     | 1     | 3     | 3     |
| 140.0 | 4     | 4     | 4     | 3     | 4     | 4     | 2     | 1     | 4     | 2     | 3     | 2     | 1     | 3     | 4     |
| 141.0 | 4     | 4     | 4     | 4     | 3     | 2     | 1     | 3     | 4     | 4     | 4     | 3     | 2     | 4     | 4     |
| 142.0 | 3     | 2     | 4     | 4     | 2     | 1     | 3     | 4     | 3     | 4     | 4     | 3     | 3     | 4     | 4     |
| 143.0 | 2     | 1     | 3     | 3     | 1     | 2     | 4     | 4     | 2     | 4     | 4     | 4     | 4     | 4     | 4     |
| 144.0 | 1     | 2     | 2     | 2     | 3     | 4     | 4     | 3     | 1     | 3     | 4     | 4     | 4     | 3     | 3     |
| 145.0 | 2     | 3     | 1     | 1     | 4     | 4     | 3     | 2     | 2     | 1     | 3     | 3     | 4     | 2     | 2     |
| 146.0 | 3     | 4     | 2     | 2     | 4     | 3     | 2     | 1     | 3     | 1     | 1     | 2     | 3     | 1     | 1     |
| 147.0 | 4     | 3     | 3     | 3     | 3     | 2     | 1     | 2     | 4     | 3     | 1     | 1     | 2     | 1     | 2     |
| 148.0 | 3     | 3     | 4     | 4     | 2     | 1     | 2     | 4     | 3     | 3     | 2     | 1     | 1     | 2     | 3     |
| 149.0 | 3     | 2     | 3     | 4     | 1     | 1     | 4     | 3     | 3     | 3     | 3     | 2     | 1     | 0     | 3     |
| 150.0 | 2     | 1     | 2     | 3     | 1     | 2     | 3     | 3     | 2     | 3     | 3     | 0     | 1     | 1     | 3     |
| 151.0 | 1     | 1     | 1     | 2     | 1     | 1     | 3     | 2     | 1     | 2     | 3     | 1     | 0     | 3     | 2     |
| 152.0 | 1     | 1     | 1     | 1     | 0     | 1     | 2     | 1     | 1     | 1     | 2     | 3     | 2     | 3     | 1     |
| 153.0 | 2     | 0     | 1     | 1     | 1     | 3     | 1     | 1     | 1     | 1     | 1     | 3     | 3     | 2     | 1     |
| 154.0 | 0     | 1     | 1     | 2     | 1     | 3     | 1     | 2     | 0     | 2     | 1     | 3     | 3     | 1     | 2     |
| 155.0 | 1     | 1     | 0     | 0     | 0     | 3     | 2     | 0     | 1     | 0     | 1     | 2     | 2     | 0     | 0     |
| 156.0 | 1     | 0     | 1     | 1     | 2     | 2     | 0     | 1     | 1     | 1     | 0     | 1     | 1     | 1     | 1     |
| 157.0 | 0     | 2     | 1     | 1     | 3     | 1     | 1     | 1     | 0     | 1     | 1     | 0     | 0     | 1     | 1     |
| 158.0 | 2     | 3     | 0     | 0     | 2     | 1     | 1     | 0     | 2     | 0     | 1     | 2     | 2     | 0     | 0     |
| 159.0 | 3     | 2     | 2     | 1     | 1     | 1     | 0     | 2     | 3     | 2     | 0     | 0     | 1     | 1     | 2     |
| 160.0 | 3     | 2     | 3     | 3     | 0     | 0     | 2     | 3     | 3     | 3     | 2     | 1     | 1     | 1     | 3     |
| 161.0 | 2     | 0     | 2     | 3     | 1     | 1     | 3     | 2     | 2     | 3     | 3     | 1     | 1     | 0     | 2     |



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### Candela Table (cd)

|       | 300.0 | 310.0 | 320.0 | 330.0 | 340.0 | 350.0 | 360.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 108.0 | 12    | 12    | 11    | 11    | 12    | 11    | 12    |
| 109.0 | 12    | 10    | 10    | 12    | 10    | 9     | 11    |
| 110.0 | 11    | 9     | 9     | 11    | 9     | 8     | 10    |
| 111.0 | 10    | 8     | 7     | 11    | 8     | 7     | 8     |
| 112.0 | 9     | 7     | 6     | 9     | 7     | 7     | 7     |
| 113.0 | 8     | 6     | 6     | 8     | 6     | 7     | 7     |
| 114.0 | 6     | 6     | 6     | 7     | 6     | 8     | 6     |
| 115.0 | 6     | 6     | 7     | 6     | 7     | 9     | 7     |
| 116.0 | 6     | 6     | 8     | 5     | 7     | 9     | 8     |
| 117.0 | 7     | 7     | 8     | 5     | 8     | 9     | 8     |
| 118.0 | 8     | 8     | 8     | 6     | 8     | 9     | 9     |
| 119.0 | 8     | 8     | 8     | 6     | 8     | 9     | 9     |
| 120.0 | 8     | 7     | 7     | 7     | 8     | 8     | 8     |
| 121.0 | 8     | 6     | 6     | 8     | 7     | 6     | 8     |
| 122.0 | 7     | 5     | 4     | 8     | 6     | 5     | 6     |
| 123.0 | 6     | 4     | 3     | 7     | 5     | 4     | 5     |
| 124.0 | 5     | 3     | 3     | 6     | 4     | 3     | 4     |
| 125.0 | 4     | 3     | 3     | 5     | 3     | 3     | 3     |
| 126.0 | 3     | 3     | 3     | 4     | 3     | 4     | 3     |
| 127.0 | 3     | 3     | 4     | 3     | 3     | 5     | 4     |
| 128.0 | 4     | 4     | 5     | 2     | 4     | 5     | 5     |
| 129.0 | 4     | 5     | 5     | 2     | 5     | 6     | 6     |
| 130.0 | 5     | 6     | 5     | 3     | 6     | 6     | 6     |
| 131.0 | 6     | 6     | 5     | 4     | 6     | 6     | 6     |
| 132.0 | 6     | 5     | 4     | 4     | 5     | 5     | 6     |
| 133.0 | 5     | 5     | 4     | 5     | 5     | 4     | 5     |
| 134.0 | 4     | 4     | 2     | 5     | 3     | 3     | 3     |
| 135.0 | 3     | 3     | 1     | 4     | 2     | 2     | 2     |
| 136.0 | 2     | 2     | 2     | 3     | 1     | 1     | 1     |
| 137.0 | 1     | 1     | 4     | 2     | 2     | 3     | 3     |
| 138.0 | 2     | 3     | 4     | 1     | 4     | 4     | 4     |
| 139.0 | 4     | 4     | 4     | 2     | 4     | 4     | 4     |
| 140.0 | 4     | 4     | 3     | 4     | 3     | 3     | 3     |
| 141.0 | 3     | 3     | 2     | 4     | 2     | 2     | 2     |
| 142.0 | 2     | 2     | 1     | 3     | 1     | 1     | 1     |
| 143.0 | 1     | 1     | 2     | 2     | 1     | 1     | 1     |
| 144.0 | 2     | 2     | 3     | 1     | 2     | 3     | 3     |
| 145.0 | 4     | 4     | 4     | 1     | 0     | 3     | 3     |
| 146.0 | 4     | 4     | 3     | 1     | 1     | 3     | 3     |
| 147.0 | 3     | 3     | 2     | 1     | 3     | 3     | 3     |
| 148.0 | 2     | 2     | 1     | 0     | 3     | 2     | 2     |
| 149.0 | 1     | 1     | 0     | 2     | 2     | 1     | 1     |
| 150.0 | 1     | 1     | 1     | 3     | 1     | 0     | 1     |
| 151.0 | 2     | 2     | 1     | 3     | 0     | 2     | 2     |
| 152.0 | 0     | 0     | 0     | 2     | 1     | 0     | 0     |
| 153.0 | 1     | 1     | 1     | 0     | 1     | 1     | 1     |
| 154.0 | 1     | 1     | 0     | 1     | 0     | 1     | 1     |
| 155.0 | 0     | 0     | 0     | 1     | 1     | 0     | 0     |
| 156.0 | 2     | 2     | 2     | 0     | 0     | 1     | 1     |
| 157.0 | 3     | 3     | 3     | 1     | 0     | 3     | 3     |
| 158.0 | 2     | 3     | 2     | 1     | 2     | 3     | 3     |
| 159.0 | 2     | 2     | 1     | 0     | 3     | 2     | 2     |
| 160.0 | 1     | 1     | 0     | 2     | 2     | 1     | 1     |
| 161.0 | 1     | 1     | 1     | 3     | 1     | 1     | 0     |



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Candela Table (cd)

|       | 0.0 | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 |
|-------|-----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 162.0 | 1   | 1    | 0    | 0    | 2    | 1    | 2    | 1    | 2    | 1    | 3     | 1     | 2     | 2     | 0     |
| 163.0 | 1   | 1    | 2    | 1    | 1    | 0    | 1    | 0    | 3    | 0    | 2     | 1     | 1     | 1     | 1     |
| 164.0 | 2   | 0    | 3    | 1    | 1    | 1    | 1    | 2    | 2    | 1    | 0     | 0     | 1     | 1     | 1     |
| 165.0 | 0   | 1    | 3    | 0    | 2    | 0    | 1    | 3    | 1    | 2    | 1     | 1     | 2     | 1     | 0     |
| 166.0 | 1   | 1    | 2    | 1    | 0    | 0    | 0    | 2    | 0    | 3    | 1     | 1     | 0     | 0     | 1     |
| 167.0 | 1   | 0    | 1    | 1    | 1    | 2    | 1    | 2    | 1    | 2    | 0     | 0     | 1     | 1     | 1     |
| 168.0 | 0   | 2    | 1    | 0    | 1    | 3    | 1    | 0    | 1    | 1    | 1     | 2     | 1     | 1     | 0     |
| 169.0 | 2   | 3    | 2    | 2    | 0    | 2    | 0    | 1    | 0    | 1    | 1     | 3     | 0     | 0     | 2     |
| 170.0 | 3   | 2    | 0    | 3    | 1    | 1    | 2    | 1    | 1    | 1    | 0     | 2     | 1     | 2     | 3     |
| 171.0 | 2   | 1    | 1    | 2    | 3    | 0    | 3    | 0    | 1    | 0    | 2     | 2     | 3     | 3     | 2     |
| 172.0 | 0   | 1    | 1    | 1    | 3    | 2    | 2    | 1    | 0    | 1    | 3     | 0     | 3     | 3     | 1     |
| 173.0 | 1   | 2    | 0    | 0    | 2    | 1    | 1    | 1    | 2    | 1    | 3     | 1     | 2     | 2     | 1     |
| 174.0 | 1   | 0    | 1    | 1    | 1    | 1    | 1    | 0    | 3    | 0    | 2     | 1     | 1     | 1     | 2     |
| 175.0 | 0   | 1    | 3    | 1    | 0    | 1    | 1    | 2    | 2    | 2    | 1     | 0     | 0     | 1     | 0     |
| 176.0 | 2   | 1    | 2    | 0    | 2    | 0    | 1    | 3    | 1    | 3    | 1     | 1     | 2     | 1     | 1     |
| 177.0 | 3   | 0    | 1    | 1    | 0    | 1    | 0    | 2    | 0    | 3    | 1     | 1     | 1     | 0     | 1     |
| 178.0 | 2   | 2    | 0    | 0    | 1    | 3    | 1    | 1    | 1    | 2    | 0     | 0     | 1     | 1     | 0     |
| 179.0 | 1   | 3    | 1    | 1    | 1    | 3    | 1    | 0    | 1    | 1    | 1     | 2     | 1     | 1     | 1     |
| 180.0 | 0   | 3    | 2    | 1    | 1    | 2    | 1    | 0    | 0    | 0    | 1     | 3     | 2     | 1     | 1     |



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Candela Table (cd)

|       | 150.0 | 160.0 | 170.0 | 180.0 | 190.0 | 200.0 | 210.0 | 220.0 | 230.0 | 240.0 | 250.0 | 260.0 | 270.0 | 280.0 | 290.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 162.0 | 1     | 1     | 1     | 2     | 1     | 1     | 2     | 1     | 1     | 2     | 2     | 0     | 0     | 2     | 2     |
| 163.0 | 1     | 1     | 1     | 1     | 0     | 0     | 1     | 0     | 1     | 1     | 1     | 1     | 1     | 3     | 1     |
| 164.0 | 1     | 0     | 2     | 1     | 1     | 2     | 0     | 1     | 2     | 1     | 0     | 3     | 3     | 2     | 1     |
| 165.0 | 0     | 1     | 0     | 2     | 1     | 3     | 1     | 1     | 0     | 1     | 2     | 3     | 3     | 1     | 1     |
| 166.0 | 1     | 1     | 1     | 0     | 0     | 3     | 1     | 1     | 1     | 0     | 0     | 2     | 2     | 0     | 0     |
| 167.0 | 1     | 0     | 1     | 1     | 2     | 2     | 0     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 168.0 | 0     | 2     | 0     | 1     | 3     | 1     | 1     | 0     | 0     | 1     | 1     | 0     | 1     | 1     | 1     |
| 169.0 | 2     | 3     | 1     | 0     | 2     | 1     | 0     | 1     | 2     | 0     | 0     | 1     | 2     | 0     | 0     |
| 170.0 | 3     | 2     | 3     | 1     | 1     | 1     | 0     | 2     | 3     | 2     | 1     | 1     | 0     | 1     | 2     |
| 171.0 | 3     | 1     | 3     | 3     | 1     | 0     | 2     | 3     | 2     | 3     | 3     | 0     | 1     | 1     | 3     |
| 172.0 | 2     | 1     | 2     | 3     | 2     | 1     | 3     | 2     | 2     | 2     | 3     | 1     | 1     | 0     | 3     |
| 173.0 | 1     | 2     | 1     | 2     | 0     | 1     | 2     | 1     | 0     | 1     | 2     | 1     | 0     | 2     | 2     |
| 174.0 | 1     | 0     | 0     | 1     | 1     | 0     | 1     | 1     | 1     | 0     | 1     | 0     | 1     | 3     | 1     |
| 175.0 | 2     | 1     | 2     | 1     | 1     | 2     | 0     | 1     | 1     | 1     | 1     | 2     | 3     | 2     | 1     |
| 176.0 | 0     | 1     | 0     | 2     | 0     | 3     | 1     | 0     | 0     | 1     | 1     | 3     | 3     | 1     | 1     |
| 177.0 | 1     | 0     | 1     | 0     | 1     | 3     | 1     | 1     | 1     | 0     | 0     | 2     | 2     | 0     | 0     |
| 178.0 | 1     | 1     | 1     | 1     | 3     | 2     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 179.0 | 0     | 3     | 0     | 1     | 3     | 0     | 1     | 0     | 0     | 1     | 1     | 0     | 1     | 1     | 1     |
| 180.0 | 1     | 3     | 1     | 1     | 2     | 0     | 1     | 1     | 1     | 0     | 1     | 0     | 2     | 0     | 1     |





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### Candela Table (cd)

|       | 300.0 | 310.0 | 320.0 | 330.0 | 340.0 | 350.0 | 360.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 162.0 | 1     | 2     | 1     | 2     | 0     | 2     | 1     |
| 163.0 | 0     | 0     | 0     | 1     | 1     | 0     | 1     |
| 164.0 | 1     | 1     | 1     | 0     | 0     | 1     | 0     |
| 165.0 | 1     | 1     | 0     | 1     | 1     | 1     | 1     |
| 166.0 | 0     | 0     | 1     | 1     | 1     | 0     | 1     |
| 167.0 | 2     | 1     | 2     | 0     | 0     | 1     | 0     |
| 168.0 | 3     | 3     | 3     | 1     | 1     | 3     | 1     |
| 169.0 | 3     | 3     | 3     | 1     | 2     | 3     | 0     |
| 170.0 | 2     | 2     | 2     | 0     | 3     | 2     | 0     |
| 171.0 | 1     | 1     | 0     | 2     | 2     | 1     | 2     |
| 172.0 | 1     | 0     | 1     | 3     | 1     | 0     | 2     |
| 173.0 | 2     | 1     | 1     | 2     | 1     | 1     | 2     |
| 174.0 | 0     | 1     | 0     | 1     | 2     | 1     | 1     |
| 175.0 | 1     | 0     | 1     | 0     | 0     | 0     | 1     |
| 176.0 | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 177.0 | 0     | 0     | 0     | 1     | 1     | 1     | 0     |
| 178.0 | 1     | 0     | 2     | 0     | 0     | 0     | 1     |
| 179.0 | 3     | 2     | 3     | 1     | 1     | 2     | 2     |
| 180.0 | 3     | 3     | 3     | 1     | 1     | 3     | 2     |