

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P997727

Luminaire Tested: SA2XXRDP-B485DB2750-4F0-XX-W2A-A\_3000K

Issue Date: 5/2/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P997727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/2/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDP-B485DB2750-4F0-XX-W2A-A\_3000K  
Description: Define 2 Regressed Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

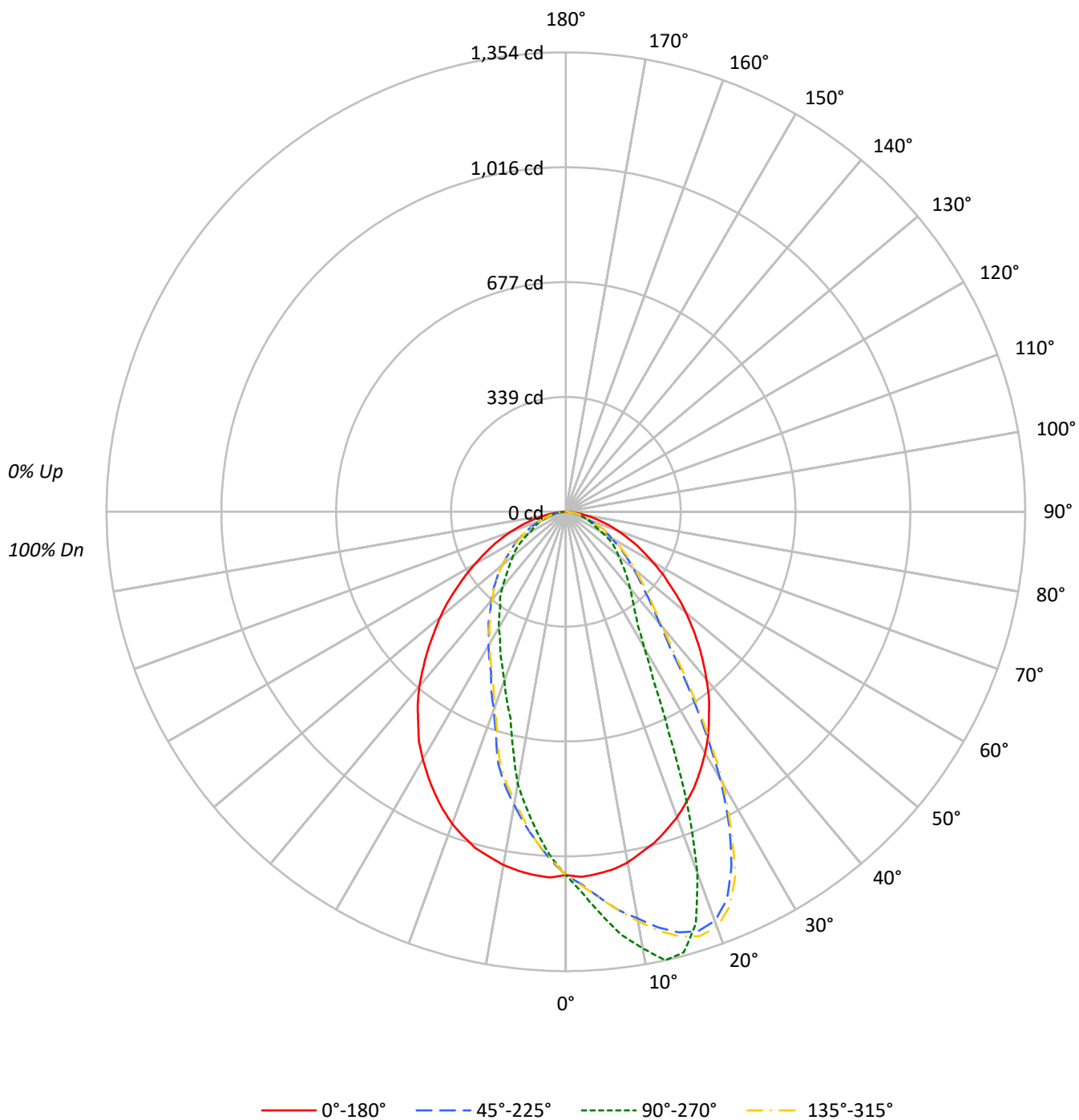
Lumens per Lamp: N/A  
Luminaire Lumens: 1850.0 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P997727

CATALOG NUMBER: SA2XXRDP-B485DB2750-4F0-XX-W2A-A\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P997727

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |
| 4   | 87  | 77  | 69  | 63  | 85  | 76  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 59  |    |    |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 39  |    |    |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 35  |    |    |
| 10  | 59  | 47  | 39  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 34  | 44  | 38  | 34  | 44  | 38  | 34  | 33  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 16945 | 16945 | 16945 | 16945 |
| 5°  | 17023 | 18925 | 17081 | 15119 |
| 10° | 16872 | 20998 | 16991 | 13106 |
| 15° | 16543 | 22030 | 16824 | 10326 |
| 20° | 16141 | 19099 | 16491 | 8935  |
| 25° | 15644 | 12526 | 15981 | 7978  |
| 30° | 14999 | 8430  | 15407 | 7220  |
| 35° | 14203 | 6829  | 14663 | 6512  |
| 40° | 13312 | 6073  | 13882 | 6026  |
| 45° | 12357 | 5496  | 12874 | 5379  |
| 50° | 11377 | 5002  | 11909 | 4984  |
| 55° | 10286 | 4703  | 10840 | 4639  |
| 60° | 9327  | 3932  | 9820  | 3885  |
| 65° | 8442  | 3315  | 8944  | 3761  |
| 70° | 7470  | 3064  | 8058  | 3545  |
| 75° | 6458  | 2868  | 7052  | 3278  |
| 80° | 5360  | 2644  | 5761  | 2917  |
| 85° | 4195  | 2434  | 4595  | 2561  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 18603 cd/sqm

TEST NUMBER: P997727

CATALOG NUMBER: SA2XXRDP-B485DB2750-4F0-XX-W2A-A\_3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.5  | 5.5       |
| 10°-20°   | 283.4  | 15.3      |
| 20°-30°   | 364.8  | 19.7      |
| 30°-40°   | 346.1  | 18.7      |
| 40°-50°   | 296.6  | 16.0      |
| 50°-60°   | 225.9  | 12.2      |
| 60°-70°   | 142.4  | 7.7       |
| 70°-80°   | 71.1   | 3.8       |
| 80°-90°   | 18.3   | 1.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 749.7  | 40.5      |
| 0°-40°    | 1095.8 | 59.2      |
| 0°-60°    | 1618.2 | 87.5      |
| 0°-90°    | 1850.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1850.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1070 | 1070 | 1070 | 1070 | 1070 |      |
| 5°  | 1071 | 1191 | 1075 | 952  | 1071 | 102  |
| 15° | 1010 | 1344 | 1027 | 630  | 1010 | 284  |
| 25° | 896  | 717  | 915  | 457  | 896  | 411  |
| 35° | 735  | 353  | 759  | 337  | 735  | 460  |
| 45° | 552  | 246  | 575  | 240  | 552  | 426  |
| 55° | 373  | 170  | 393  | 168  | 373  | 336  |
| 65° | 225  | 88   | 239  | 100  | 225  | 224  |
| 75° | 106  | 47   | 115  | 54   | 106  | 114  |
| 85° | 23   | 13   | 25   | 14   | 23   | 28   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1077.2 | 1081.7 | 1083.9 | 1086.9 | 1093.6 | 1098.1 | 1104.7 | 1106.2 | 1105.5 | 1108.5 | 1100.3 |
| 5°    | 1071.3 | 1080.9 | 1089.9 | 1097.3 | 1109.2 | 1116.6 | 1124.8 | 1134.5 | 1136.7 | 1147.9 | 1141.2 |
| 7.5°  | 1063.1 | 1077.2 | 1089.9 | 1104.7 | 1122.6 | 1132.3 | 1144.9 | 1159.8 | 1166.5 | 1179.9 | 1183.6 |
| 10°   | 1049.7 | 1069.8 | 1091.4 | 1107.0 | 1131.5 | 1148.6 | 1160.5 | 1184.3 | 1200.0 | 1220.1 | 1217.1 |
| 12.5° | 1028.1 | 1054.2 | 1083.2 | 1109.2 | 1141.2 | 1152.4 | 1174.7 | 1199.2 | 1219.3 | 1237.9 | 1254.3 |
| 15°   | 1009.5 | 1039.3 | 1071.3 | 1103.3 | 1139.7 | 1160.5 | 1182.9 | 1214.8 | 1236.4 | 1269.2 | 1283.3 |
| 17.5° | 984.2  | 1022.2 | 1060.1 | 1095.8 | 1139.0 | 1162.8 | 1190.3 | 1221.5 | 1253.5 | 1284.8 | 1295.9 |
| 20°   | 958.2  | 999.1  | 1040.0 | 1088.4 | 1137.5 | 1160.5 | 1188.8 | 1227.5 | 1258.7 | 1283.3 | 1283.3 |
| 22.5° | 926.9  | 976.8  | 1023.7 | 1069.8 | 1123.3 | 1156.8 | 1185.8 | 1231.2 | 1253.5 | 1258.7 | 1238.7 |
| 25°   | 895.7  | 945.5  | 996.9  | 1054.2 | 1115.2 | 1144.9 | 1177.7 | 1220.1 | 1227.5 | 1206.7 | 1154.6 |
| 27.5° | 858.5  | 914.3  | 972.3  | 1034.1 | 1098.1 | 1135.2 | 1165.0 | 1193.3 | 1179.1 | 1123.3 | 1042.3 |
| 30°   | 820.6  | 880.8  | 946.3  | 1005.1 | 1082.4 | 1116.6 | 1141.9 | 1150.1 | 1105.5 | 1014.7 | 909.8  |
| 32.5° | 781.1  | 839.9  | 909.1  | 979.8  | 1057.9 | 1090.6 | 1107.0 | 1085.4 | 1003.6 | 889.0  | 761.0  |
| 35°   | 735.0  | 801.2  | 873.4  | 947.0  | 1024.4 | 1049.0 | 1058.6 | 1005.8 | 900.9  | 752.9  | 625.7  |
| 37.5° | 693.3  | 759.6  | 836.9  | 912.1  | 987.2  | 1000.6 | 990.9  | 908.3  | 775.2  | 628.6  | 504.4  |
| 40°   | 644.2  | 714.9  | 790.8  | 874.9  | 936.6  | 940.3  | 916.5  | 809.4  | 644.2  | 506.6  | 430.0  |
| 42.5° | 598.9  | 670.3  | 746.2  | 831.7  | 878.6  | 865.9  | 834.0  | 693.3  | 537.9  | 436.7  | 374.9  |
| 45°   | 552.0  | 619.7  | 701.5  | 777.4  | 810.9  | 781.1  | 732.8  | 583.2  | 451.6  | 375.7  | 328.1  |
| 47.5° | 506.6  | 569.9  | 650.9  | 723.9  | 729.8  | 696.3  | 639.0  | 488.8  | 391.3  | 330.3  | 291.6  |
| 50°   | 462.0  | 525.2  | 601.1  | 661.4  | 655.4  | 609.3  | 544.6  | 424.8  | 340.0  | 291.6  | 259.6  |
| 52.5° | 417.3  | 474.6  | 548.3  | 595.9  | 570.6  | 526.0  | 462.0  | 360.1  | 296.8  | 254.4  | 229.9  |
| 55°   | 372.7  | 426.3  | 489.5  | 528.9  | 488.8  | 437.4  | 392.1  | 308.7  | 257.4  | 223.2  | 204.6  |
| 57.5° | 335.5  | 377.9  | 435.9  | 459.8  | 411.4  | 371.2  | 331.8  | 265.6  | 223.2  | 198.6  | 177.1  |
| 60°   | 294.6  | 333.3  | 380.9  | 395.0  | 345.2  | 312.5  | 279.0  | 224.7  | 191.2  | 169.6  | 155.5  |
| 62.5° | 259.6  | 291.6  | 328.1  | 328.1  | 284.2  | 259.6  | 234.3  | 188.2  | 160.7  | 143.6  | 136.9  |
| 65°   | 225.4  | 248.5  | 274.5  | 271.5  | 234.3  | 212.8  | 192.7  | 155.5  | 134.7  | 122.7  | 116.1  |
| 67.5° | 191.9  | 209.8  | 226.9  | 216.5  | 189.7  | 171.1  | 152.5  | 125.7  | 111.6  | 103.4  | 94.5   |
| 70°   | 161.4  | 175.6  | 184.5  | 174.8  | 148.0  | 132.4  | 119.0  | 101.2  | 90.0   | 79.6   | 74.4   |
| 72.5° | 135.4  | 141.3  | 144.3  | 132.4  | 110.1  | 101.2  | 91.5   | 78.9   | 69.2   | 64.0   | 62.5   |
| 75°   | 105.6  | 110.8  | 108.6  | 99.7   | 81.1   | 74.4   | 67.0   | 58.0   | 55.8   | 52.8   | 51.3   |
| 77.5° | 82.6   | 82.6   | 78.9   | 70.7   | 58.0   | 52.8   | 49.8   | 45.4   | 43.1   | 42.4   | 40.9   |
| 80°   | 58.8   | 58.0   | 55.8   | 46.9   | 39.4   | 36.5   | 36.5   | 33.5   | 32.7   | 31.2   | 31.2   |
| 82.5° | 38.7   | 38.7   | 35.7   | 28.3   | 26.0   | 25.3   | 24.5   | 23.1   | 23.1   | 22.3   | 22.3   |
| 85°   | 23.1   | 21.6   | 17.9   | 15.6   | 14.9   | 14.9   | 14.1   | 13.4   | 14.1   | 13.4   | 13.4   |
| 87.5° | 10.4   | 8.2    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1108.5 | 1110.0 | 1112.2 | 1122.6 | 1124.1 | 1127.1 | 1125.6 | 1125.6 | 1126.3 | 1124.8 | 1125.6 |
| 5°    | 1156.1 | 1158.3 | 1169.5 | 1182.1 | 1185.1 | 1182.1 | 1185.8 | 1191.0 | 1191.0 | 1191.0 | 1189.6 |
| 7.5°  | 1200.7 | 1208.9 | 1221.5 | 1240.1 | 1243.9 | 1247.6 | 1254.3 | 1249.8 | 1251.3 | 1258.0 | 1255.8 |
| 10°   | 1243.9 | 1255.8 | 1269.9 | 1285.5 | 1293.7 | 1298.9 | 1301.9 | 1308.6 | 1324.2 | 1306.4 | 1313.0 |
| 12.5° | 1284.8 | 1301.9 | 1316.8 | 1333.9 | 1339.8 | 1346.5 | 1348.8 | 1354.7 | 1354.7 | 1354.0 | 1359.2 |
| 15°   | 1311.6 | 1327.2 | 1340.6 | 1351.7 | 1353.2 | 1351.7 | 1350.2 | 1351.0 | 1353.2 | 1344.3 | 1349.5 |
| 17.5° | 1317.5 | 1319.0 | 1323.5 | 1319.0 | 1319.7 | 1304.1 | 1295.2 | 1293.0 | 1272.1 | 1272.9 | 1290.0 |
| 20°   | 1288.5 | 1263.2 | 1256.5 | 1232.0 | 1217.1 | 1176.9 | 1175.4 | 1164.3 | 1120.4 | 1133.8 | 1130.8 |
| 22.5° | 1208.9 | 1165.7 | 1108.5 | 1080.2 | 1066.1 | 1023.7 | 990.9  | 967.9  | 952.2  | 936.6  | 929.9  |
| 25°   | 1104.0 | 1034.1 | 953.0  | 897.2  | 889.0  | 849.6  | 789.3  | 761.0  | 727.6  | 717.2  | 735.0  |
| 27.5° | 968.6  | 877.8  | 786.3  | 700.8  | 685.2  | 649.5  | 619.0  | 598.9  | 560.2  | 558.0  | 559.4  |
| 30°   | 784.9  | 693.3  | 616.7  | 560.9  | 522.2  | 505.9  | 485.8  | 470.9  | 455.3  | 461.2  | 462.7  |
| 32.5° | 645.0  | 558.0  | 486.5  | 456.8  | 438.9  | 428.5  | 411.4  | 401.7  | 395.0  | 392.8  | 392.1  |
| 35°   | 512.6  | 454.5  | 422.6  | 393.5  | 383.1  | 375.7  | 363.0  | 358.6  | 352.6  | 353.4  | 353.4  |
| 37.5° | 438.9  | 390.6  | 366.8  | 351.9  | 342.2  | 338.5  | 330.3  | 325.8  | 322.1  | 320.6  | 322.9  |
| 40°   | 378.7  | 345.2  | 330.3  | 316.9  | 308.7  | 307.2  | 302.8  | 297.6  | 293.1  | 293.9  | 296.1  |
| 42.5° | 334.8  | 315.4  | 297.6  | 287.2  | 281.2  | 279.0  | 275.3  | 271.5  | 271.5  | 269.3  | 268.6  |
| 45°   | 299.8  | 284.2  | 269.3  | 259.6  | 255.9  | 252.9  | 248.5  | 247.7  | 244.8  | 245.5  | 246.2  |
| 47.5° | 268.6  | 255.9  | 244.8  | 235.1  | 231.4  | 230.6  | 226.2  | 223.2  | 223.2  | 222.4  | 221.7  |
| 50°   | 240.3  | 227.6  | 218.0  | 212.8  | 207.6  | 206.1  | 205.3  | 204.6  | 203.1  | 203.1  | 203.8  |
| 52.5° | 217.2  | 204.6  | 197.1  | 192.7  | 189.7  | 188.2  | 188.2  | 187.5  | 187.5  | 187.5  | 186.7  |
| 55°   | 191.9  | 181.5  | 175.6  | 174.1  | 172.6  | 171.8  | 171.1  | 169.6  | 168.9  | 170.4  | 168.9  |
| 57.5° | 168.1  | 164.4  | 159.2  | 157.7  | 154.0  | 154.0  | 151.8  | 150.3  | 148.8  | 150.3  | 150.3  |
| 60°   | 149.5  | 144.3  | 141.3  | 136.9  | 133.9  | 130.9  | 127.2  | 126.5  | 125.0  | 124.2  | 123.5  |
| 62.5° | 130.2  | 125.7  | 118.3  | 111.6  | 107.1  | 104.2  | 102.7  | 101.9  | 101.9  | 101.2  | 101.2  |
| 65°   | 108.6  | 98.2   | 94.5   | 92.2   | 91.5   | 90.8   | 89.3   | 88.5   | 89.3   | 88.5   | 89.3   |
| 67.5° | 84.8   | 83.3   | 81.1   | 79.6   | 78.9   | 78.1   | 78.1   | 77.4   | 77.4   | 77.4   | 77.4   |
| 70°   | 73.6   | 69.9   | 69.2   | 67.7   | 67.7   | 67.0   | 67.0   | 67.0   | 67.0   | 66.2   | 67.7   |
| 72.5° | 61.0   | 58.8   | 58.0   | 57.3   | 57.3   | 57.3   | 56.5   | 56.5   | 56.5   | 55.8   | 56.5   |
| 75°   | 49.8   | 49.1   | 47.6   | 47.6   | 46.9   | 47.6   | 46.9   | 46.9   | 46.1   | 46.9   | 46.9   |
| 77.5° | 40.2   | 39.4   | 38.7   | 38.7   | 37.9   | 37.9   | 37.9   | 37.9   | 37.9   | 37.9   | 38.7   |
| 80°   | 30.5   | 29.8   | 29.0   | 29.8   | 29.0   | 29.8   | 29.0   | 29.0   | 29.8   | 29.0   | 29.0   |
| 82.5° | 22.3   | 21.6   | 21.6   | 20.8   | 20.8   | 20.8   | 20.8   | 20.8   | 20.8   | 20.8   | 20.8   |
| 85°   | 13.4   | 12.6   | 12.6   | 13.4   | 12.6   | 13.4   | 12.6   | 12.6   | 12.6   | 13.4   | 13.4   |
| 87.5° | 6.0    | 6.7    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1128.6 | 1123.3 | 1121.9 | 1123.3 | 1121.9 | 1122.6 | 1117.4 | 1098.1 | 1103.3 | 1095.1 | 1099.5 |
| 5°    | 1192.5 | 1188.1 | 1178.4 | 1176.9 | 1175.4 | 1173.9 | 1166.5 | 1149.4 | 1142.7 | 1131.5 | 1130.8 |
| 7.5°  | 1253.5 | 1253.5 | 1246.1 | 1240.9 | 1234.2 | 1229.0 | 1219.3 | 1194.0 | 1183.6 | 1170.2 | 1162.8 |
| 10°   | 1313.8 | 1294.4 | 1302.6 | 1297.4 | 1281.1 | 1278.1 | 1260.2 | 1245.4 | 1225.3 | 1211.9 | 1200.0 |
| 12.5° | 1356.9 | 1351.0 | 1343.5 | 1339.1 | 1334.6 | 1325.0 | 1313.0 | 1275.1 | 1264.7 | 1237.9 | 1224.5 |
| 15°   | 1355.5 | 1351.7 | 1354.0 | 1354.0 | 1352.5 | 1350.2 | 1340.6 | 1313.0 | 1295.2 | 1269.2 | 1246.1 |
| 17.5° | 1282.5 | 1292.2 | 1301.9 | 1308.6 | 1323.5 | 1330.2 | 1339.1 | 1322.7 | 1311.6 | 1289.2 | 1264.7 |
| 20°   | 1155.3 | 1179.1 | 1207.4 | 1213.4 | 1226.8 | 1266.2 | 1284.0 | 1298.2 | 1302.6 | 1295.2 | 1275.1 |
| 22.5° | 978.3  | 998.4  | 1066.8 | 1065.3 | 1084.7 | 1131.5 | 1183.6 | 1226.0 | 1259.5 | 1278.1 | 1270.6 |
| 25°   | 766.3  | 794.5  | 831.0  | 858.5  | 921.7  | 991.7  | 1056.4 | 1124.1 | 1182.1 | 1233.4 | 1246.1 |
| 27.5° | 579.5  | 616.7  | 645.7  | 682.2  | 714.2  | 796.8  | 880.1  | 985.7  | 1053.4 | 1150.9 | 1201.5 |
| 30°   | 468.7  | 485.8  | 514.8  | 531.9  | 547.5  | 610.8  | 705.3  | 809.4  | 928.4  | 1040.8 | 1127.8 |
| 32.5° | 400.2  | 412.1  | 433.7  | 441.2  | 457.5  | 499.9  | 559.4  | 654.7  | 777.4  | 913.6  | 1028.1 |
| 35°   | 359.3  | 372.0  | 376.4  | 383.1  | 396.5  | 423.3  | 464.2  | 533.4  | 644.2  | 777.4  | 914.3  |
| 37.5° | 324.4  | 331.1  | 343.7  | 348.2  | 352.6  | 372.7  | 400.2  | 448.6  | 522.2  | 631.6  | 783.4  |
| 40°   | 299.8  | 303.5  | 310.2  | 313.9  | 316.9  | 331.1  | 355.6  | 388.3  | 442.6  | 526.0  | 665.8  |
| 42.5° | 273.8  | 278.2  | 282.7  | 287.2  | 290.9  | 302.0  | 316.9  | 348.2  | 384.6  | 447.8  | 549.0  |
| 45°   | 248.5  | 251.5  | 256.7  | 259.6  | 264.8  | 273.8  | 287.2  | 308.7  | 341.5  | 381.6  | 463.5  |
| 47.5° | 225.4  | 229.1  | 231.4  | 235.1  | 238.8  | 248.5  | 261.1  | 275.3  | 302.0  | 341.5  | 401.0  |
| 50°   | 204.6  | 209.0  | 212.0  | 212.8  | 215.7  | 224.7  | 235.1  | 250.7  | 267.8  | 298.3  | 350.4  |
| 52.5° | 189.7  | 190.4  | 192.7  | 195.7  | 194.9  | 200.1  | 209.8  | 221.7  | 239.5  | 264.1  | 302.0  |
| 55°   | 172.6  | 174.8  | 176.3  | 177.1  | 177.1  | 181.5  | 186.7  | 197.9  | 212.0  | 232.1  | 264.1  |
| 57.5° | 151.0  | 153.3  | 157.7  | 159.2  | 161.4  | 163.7  | 165.9  | 173.3  | 185.2  | 204.6  | 230.6  |
| 60°   | 128.7  | 130.2  | 134.7  | 137.6  | 139.1  | 145.1  | 148.0  | 154.0  | 160.7  | 174.8  | 199.4  |
| 62.5° | 103.4  | 104.9  | 107.1  | 110.1  | 113.1  | 122.0  | 129.4  | 135.4  | 140.6  | 150.3  | 170.4  |
| 65°   | 90.0   | 90.8   | 92.2   | 93.0   | 93.7   | 97.5   | 104.2  | 112.3  | 122.0  | 129.4  | 141.3  |
| 67.5° | 78.1   | 78.9   | 79.6   | 81.1   | 81.8   | 82.6   | 85.6   | 87.8   | 97.5   | 107.9  | 116.8  |
| 70°   | 67.0   | 68.4   | 69.2   | 69.2   | 69.9   | 71.4   | 72.9   | 75.9   | 78.9   | 84.1   | 95.2   |
| 72.5° | 56.5   | 57.3   | 58.8   | 58.8   | 58.8   | 60.3   | 61.7   | 63.2   | 64.7   | 67.7   | 72.2   |
| 75°   | 46.9   | 48.4   | 48.4   | 48.4   | 49.1   | 49.1   | 50.6   | 52.1   | 53.6   | 55.8   | 57.3   |
| 77.5° | 38.7   | 38.7   | 38.7   | 38.7   | 39.4   | 39.4   | 40.2   | 41.7   | 42.4   | 43.1   | 44.6   |
| 80°   | 29.0   | 29.8   | 29.8   | 29.8   | 30.5   | 30.5   | 30.5   | 32.0   | 32.7   | 32.7   | 34.2   |
| 82.5° | 21.6   | 21.6   | 21.6   | 22.3   | 21.6   | 22.3   | 22.3   | 23.1   | 22.3   | 23.1   | 23.8   |
| 85°   | 13.4   | 13.4   | 13.4   | 14.1   | 14.1   | 14.1   | 14.1   | 14.1   | 14.1   | 14.1   | 14.9   |
| 87.5° | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 6.7    | 7.4    | 6.7    | 6.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1092.8 | 1089.1 | 1089.1 | 1086.9 | 1086.9 | 1075.0 | 1075.0 | 1078.7 | 1074.2 | 1069.0 | 1061.6 |
| 5°    | 1121.1 | 1112.9 | 1110.7 | 1107.7 | 1098.1 | 1083.2 | 1077.2 | 1075.0 | 1066.1 | 1054.9 | 1042.3 |
| 7.5°  | 1147.9 | 1134.5 | 1127.8 | 1121.1 | 1108.5 | 1087.6 | 1075.7 | 1067.5 | 1054.2 | 1037.0 | 1020.7 |
| 10°   | 1173.9 | 1156.8 | 1139.7 | 1131.5 | 1113.7 | 1087.6 | 1070.5 | 1057.1 | 1037.8 | 1014.7 | 991.7  |
| 12.5° | 1197.7 | 1162.0 | 1159.1 | 1142.7 | 1116.6 | 1086.9 | 1060.9 | 1041.5 | 1017.0 | 990.2  | 963.4  |
| 15°   | 1218.6 | 1182.1 | 1164.3 | 1149.4 | 1115.2 | 1078.0 | 1050.4 | 1026.6 | 993.9  | 963.4  | 930.7  |
| 17.5° | 1229.0 | 1189.6 | 1177.7 | 1153.1 | 1118.1 | 1069.8 | 1032.6 | 1003.6 | 967.9  | 931.4  | 894.2  |
| 20°   | 1239.4 | 1193.3 | 1173.9 | 1156.8 | 1109.2 | 1054.2 | 1012.5 | 979.0  | 939.6  | 896.4  | 855.5  |
| 22.5° | 1244.6 | 1193.3 | 1170.2 | 1146.4 | 1100.3 | 1037.0 | 987.9  | 948.5  | 902.4  | 858.5  | 809.4  |
| 25°   | 1235.7 | 1188.8 | 1161.3 | 1136.7 | 1084.7 | 1016.2 | 959.7  | 915.0  | 865.9  | 816.1  | 766.3  |
| 27.5° | 1213.4 | 1178.4 | 1146.4 | 1121.1 | 1063.1 | 989.4  | 929.9  | 879.3  | 828.7  | 773.0  | 722.4  |
| 30°   | 1171.7 | 1156.1 | 1130.8 | 1102.5 | 1039.3 | 965.6  | 895.0  | 842.9  | 787.1  | 731.3  | 678.5  |
| 32.5° | 1107.0 | 1120.4 | 1104.0 | 1079.5 | 1011.0 | 932.9  | 857.8  | 804.9  | 743.9  | 683.7  | 635.3  |
| 35°   | 1028.1 | 1075.7 | 1066.8 | 1049.7 | 981.3  | 897.9  | 822.8  | 758.8  | 697.8  | 636.8  | 588.5  |
| 37.5° | 941.8  | 1014.0 | 1021.4 | 1011.0 | 947.0  | 862.2  | 779.6  | 717.2  | 654.7  | 592.9  | 543.8  |
| 40°   | 823.5  | 934.4  | 958.2  | 962.7  | 911.3  | 819.1  | 732.8  | 671.8  | 610.0  | 549.8  | 490.3  |
| 42.5° | 714.9  | 854.8  | 884.5  | 903.1  | 865.9  | 776.7  | 689.6  | 621.9  | 560.9  | 506.6  | 447.1  |
| 45°   | 613.0  | 758.8  | 807.2  | 831.0  | 814.6  | 728.3  | 638.3  | 575.1  | 519.3  | 469.4  | 412.1  |
| 47.5° | 508.1  | 654.7  | 722.4  | 760.3  | 760.3  | 679.2  | 589.2  | 526.7  | 473.1  | 430.7  | 380.2  |
| 50°   | 438.2  | 560.2  | 630.1  | 680.0  | 693.3  | 629.4  | 544.6  | 483.6  | 433.0  | 386.8  | 348.2  |
| 52.5° | 373.5  | 482.8  | 540.8  | 592.9  | 631.6  | 575.8  | 494.7  | 439.7  | 389.8  | 346.7  | 316.2  |
| 55°   | 322.9  | 404.7  | 457.5  | 514.8  | 558.0  | 521.5  | 446.4  | 392.8  | 349.7  | 313.9  | 287.9  |
| 57.5° | 274.5  | 345.9  | 389.1  | 439.7  | 485.8  | 458.3  | 398.0  | 351.9  | 313.9  | 282.7  | 259.6  |
| 60°   | 233.6  | 291.6  | 325.1  | 364.5  | 421.8  | 402.5  | 352.6  | 310.2  | 279.7  | 251.5  | 232.1  |
| 62.5° | 198.6  | 244.8  | 273.0  | 301.3  | 353.4  | 344.4  | 305.8  | 273.0  | 247.0  | 223.2  | 206.8  |
| 65°   | 162.9  | 200.9  | 223.2  | 247.7  | 289.4  | 293.1  | 261.9  | 238.8  | 215.0  | 194.2  | 179.3  |
| 67.5° | 131.7  | 161.4  | 181.5  | 202.4  | 235.8  | 246.2  | 224.7  | 205.3  | 185.2  | 168.1  | 154.7  |
| 70°   | 106.4  | 127.2  | 142.1  | 158.5  | 186.0  | 198.6  | 187.5  | 174.1  | 157.7  | 143.6  | 131.7  |
| 72.5° | 84.1   | 97.5   | 106.4  | 119.0  | 141.3  | 154.0  | 153.3  | 141.3  | 129.4  | 119.8  | 110.1  |
| 75°   | 61.7   | 72.2   | 79.6   | 87.8   | 105.6  | 117.5  | 120.5  | 115.3  | 103.4  | 96.0   | 88.5   |
| 77.5° | 46.9   | 52.8   | 56.5   | 62.5   | 75.1   | 85.6   | 90.0   | 88.5   | 80.3   | 74.4   | 69.2   |
| 80°   | 35.7   | 37.2   | 38.7   | 40.9   | 51.3   | 61.0   | 64.0   | 63.2   | 58.8   | 56.5   | 50.6   |
| 82.5° | 25.3   | 26.0   | 26.8   | 27.5   | 31.2   | 39.4   | 42.4   | 43.9   | 40.2   | 37.9   | 32.7   |
| 85°   | 14.9   | 15.6   | 15.6   | 17.1   | 17.9   | 20.1   | 25.3   | 25.3   | 24.5   | 21.6   | 20.8   |
| 87.5° | 7.4    | 7.4    | 6.7    | 6.7    | 7.4    | 8.2    | 9.7    | 11.2   | 9.7    | 8.9    | 8.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1058.6 | 1059.4 | 1061.6 | 1054.9 | 1044.5 | 1040.0 | 1026.6 | 1024.4 | 1022.2 | 1022.2 | 1024.4 |
| 5°    | 1034.8 | 1031.8 | 1032.6 | 1019.9 | 1005.1 | 996.1  | 977.5  | 980.5  | 970.8  | 964.9  | 966.4  |
| 7.5°  | 1008.8 | 1000.6 | 999.9  | 983.5  | 964.9  | 948.5  | 929.2  | 924.7  | 915.8  | 905.4  | 900.9  |
| 10°   | 976.0  | 970.1  | 958.9  | 940.3  | 916.5  | 903.1  | 877.1  | 861.5  | 859.2  | 843.6  | 837.7  |
| 12.5° | 942.6  | 932.2  | 921.0  | 895.0  | 868.2  | 846.6  | 827.3  | 810.1  | 798.2  | 784.9  | 775.9  |
| 15°   | 903.9  | 891.2  | 878.6  | 851.1  | 819.8  | 798.2  | 769.2  | 743.9  | 709.0  | 681.4  | 665.8  |
| 17.5° | 861.5  | 847.3  | 830.2  | 799.7  | 769.2  | 739.5  | 685.9  | 656.2  | 631.6  | 615.2  | 605.6  |
| 20°   | 817.6  | 802.0  | 784.9  | 754.4  | 701.5  | 649.5  | 619.7  | 596.6  | 581.8  | 565.4  | 553.5  |
| 22.5° | 771.5  | 755.1  | 736.5  | 688.9  | 633.1  | 596.6  | 573.6  | 552.0  | 530.4  | 521.5  | 515.5  |
| 25°   | 728.3  | 713.4  | 689.6  | 624.9  | 581.0  | 547.5  | 521.5  | 507.4  | 496.2  | 484.3  | 473.1  |
| 27.5° | 683.7  | 656.2  | 622.7  | 568.4  | 540.8  | 506.6  | 488.0  | 477.6  | 458.3  | 450.1  | 444.9  |
| 30°   | 630.1  | 599.6  | 567.6  | 528.9  | 496.9  | 473.1  | 456.0  | 438.9  | 427.8  | 419.6  | 410.7  |
| 32.5° | 575.8  | 546.8  | 526.7  | 486.5  | 462.7  | 438.2  | 421.8  | 411.4  | 395.0  | 389.8  | 386.1  |
| 35°   | 528.9  | 504.4  | 486.5  | 453.8  | 431.5  | 409.2  | 397.3  | 381.6  | 371.2  | 361.6  | 355.6  |
| 37.5° | 482.8  | 469.4  | 450.8  | 423.3  | 399.5  | 381.6  | 365.3  | 360.1  | 345.9  | 340.7  | 334.8  |
| 40°   | 450.8  | 430.7  | 415.1  | 391.3  | 371.2  | 351.9  | 341.5  | 329.6  | 319.9  | 311.7  | 309.5  |
| 42.5° | 412.1  | 397.3  | 388.3  | 362.3  | 341.5  | 330.3  | 317.7  | 304.3  | 296.8  | 290.1  | 282.0  |
| 45°   | 383.1  | 369.7  | 357.1  | 336.3  | 317.7  | 303.5  | 292.4  | 283.4  | 270.8  | 267.8  | 255.2  |
| 47.5° | 352.6  | 339.2  | 329.6  | 308.7  | 291.6  | 278.2  | 270.0  | 258.1  | 247.7  | 241.0  | 235.1  |
| 50°   | 322.1  | 311.0  | 302.0  | 284.2  | 269.3  | 255.2  | 244.0  | 232.1  | 227.6  | 216.5  | 212.8  |
| 52.5° | 293.1  | 285.7  | 276.0  | 258.9  | 244.0  | 232.1  | 220.2  | 210.5  | 203.8  | 197.9  | 193.4  |
| 55°   | 268.6  | 256.7  | 252.2  | 233.6  | 220.9  | 208.3  | 197.9  | 191.9  | 183.8  | 180.0  | 176.3  |
| 57.5° | 241.0  | 234.3  | 226.9  | 212.8  | 198.6  | 186.7  | 179.3  | 170.4  | 165.9  | 161.4  | 158.5  |
| 60°   | 217.2  | 207.6  | 201.6  | 189.7  | 177.1  | 165.9  | 159.2  | 152.5  | 146.6  | 142.8  | 136.9  |
| 62.5° | 189.7  | 182.3  | 178.5  | 165.9  | 155.5  | 145.1  | 139.1  | 132.4  | 128.0  | 121.3  | 113.8  |
| 65°   | 165.9  | 159.9  | 155.5  | 145.1  | 135.4  | 125.7  | 119.8  | 111.6  | 105.6  | 101.9  | 101.2  |
| 67.5° | 145.1  | 140.6  | 133.9  | 124.2  | 114.6  | 107.1  | 100.4  | 93.7   | 93.0   | 91.5   | 91.5   |
| 70°   | 122.0  | 117.5  | 113.8  | 103.4  | 95.2   | 87.0   | 85.6   | 83.3   | 81.1   | 80.3   | 78.9   |
| 72.5° | 101.9  | 98.2   | 93.7   | 84.8   | 76.6   | 74.4   | 72.9   | 71.4   | 69.2   | 68.4   | 67.7   |
| 75°   | 82.6   | 77.4   | 74.4   | 66.2   | 64.0   | 62.5   | 61.0   | 58.8   | 57.3   | 56.5   | 55.1   |
| 77.5° | 63.2   | 58.0   | 58.0   | 53.6   | 52.1   | 49.8   | 48.4   | 46.9   | 46.1   | 44.6   | 44.6   |
| 80°   | 44.6   | 44.6   | 43.1   | 40.9   | 38.7   | 37.9   | 35.7   | 35.0   | 34.2   | 35.0   | 33.5   |
| 82.5° | 32.7   | 29.8   | 29.8   | 28.3   | 26.8   | 26.0   | 24.5   | 24.5   | 23.8   | 23.8   | 23.8   |
| 85°   | 18.6   | 18.6   | 17.9   | 16.4   | 15.6   | 15.6   | 14.9   | 14.9   | 14.1   | 14.1   | 13.4   |
| 87.5° | 7.4    | 6.7    | 7.4    | 6.7    | 6.7    | 6.0    | 6.0    | 6.0    | 5.2    | 6.0    | 5.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1024.4 | 1022.9 | 1018.4 | 1019.9 | 1017.7 | 1017.7 | 1016.2 | 1016.2 | 1016.2 | 1019.9 | 1017.7 |
| 5°    | 968.6  | 963.4  | 958.2  | 956.0  | 953.7  | 951.5  | 951.5  | 950.8  | 957.4  | 956.0  | 961.9  |
| 7.5°  | 899.4  | 897.9  | 887.5  | 887.5  | 883.8  | 882.3  | 886.0  | 886.8  | 887.5  | 889.0  | 892.7  |
| 10°   | 837.7  | 834.0  | 819.1  | 820.6  | 818.3  | 815.4  | 817.6  | 816.1  | 821.3  | 822.8  | 821.3  |
| 12.5° | 764.8  | 758.1  | 741.7  | 733.5  | 724.6  | 717.9  | 726.1  | 720.1  | 741.0  | 746.9  | 763.3  |
| 15°   | 668.1  | 655.4  | 644.2  | 644.2  | 636.1  | 630.1  | 633.8  | 640.5  | 645.0  | 651.7  | 654.7  |
| 17.5° | 603.3  | 598.1  | 589.2  | 584.0  | 581.8  | 579.5  | 579.5  | 582.5  | 592.2  | 591.4  | 597.4  |
| 20°   | 548.3  | 545.3  | 540.8  | 534.1  | 531.9  | 530.4  | 530.4  | 530.4  | 537.1  | 543.1  | 546.8  |
| 22.5° | 510.3  | 508.1  | 505.1  | 496.2  | 491.7  | 490.3  | 494.0  | 496.2  | 501.4  | 505.9  | 509.6  |
| 25°   | 472.4  | 467.2  | 462.0  | 459.0  | 456.8  | 456.8  | 458.3  | 459.0  | 461.2  | 463.5  | 467.9  |
| 27.5° | 441.2  | 437.4  | 430.0  | 421.8  | 421.8  | 419.6  | 421.1  | 422.6  | 427.8  | 435.2  | 438.9  |
| 30°   | 406.2  | 405.4  | 402.5  | 399.5  | 396.5  | 395.0  | 398.0  | 400.2  | 401.0  | 404.7  | 404.7  |
| 32.5° | 380.9  | 375.7  | 370.5  | 367.5  | 366.0  | 365.3  | 366.0  | 369.0  | 369.0  | 373.5  | 378.7  |
| 35°   | 355.6  | 352.6  | 347.4  | 342.2  | 340.7  | 337.0  | 340.0  | 343.0  | 348.2  | 350.4  | 352.6  |
| 37.5° | 328.1  | 324.4  | 322.1  | 320.6  | 317.7  | 318.4  | 316.2  | 320.6  | 325.1  | 324.4  | 325.8  |
| 40°   | 307.2  | 300.6  | 293.9  | 293.1  | 292.4  | 291.6  | 291.6  | 292.4  | 295.3  | 298.3  | 302.8  |
| 42.5° | 280.5  | 278.2  | 272.3  | 266.3  | 264.8  | 263.4  | 261.9  | 264.8  | 270.8  | 276.0  | 278.2  |
| 45°   | 252.9  | 250.0  | 248.5  | 244.0  | 241.0  | 240.3  | 238.8  | 242.5  | 247.7  | 250.0  | 251.5  |
| 47.5° | 227.6  | 226.9  | 222.4  | 223.2  | 220.9  | 221.7  | 220.9  | 223.2  | 223.2  | 225.4  | 226.9  |
| 50°   | 210.5  | 208.3  | 206.1  | 204.6  | 202.4  | 202.4  | 201.6  | 202.4  | 205.3  | 208.3  | 207.6  |
| 52.5° | 193.4  | 189.7  | 189.0  | 188.2  | 186.7  | 188.2  | 186.0  | 186.7  | 189.7  | 191.2  | 190.4  |
| 55°   | 173.3  | 172.6  | 171.1  | 169.6  | 168.9  | 168.1  | 168.1  | 168.1  | 171.1  | 173.3  | 174.1  |
| 57.5° | 157.7  | 154.0  | 151.0  | 151.0  | 148.0  | 147.3  | 148.8  | 149.5  | 151.8  | 153.3  | 154.7  |
| 60°   | 136.1  | 134.7  | 130.2  | 128.0  | 123.5  | 122.7  | 122.7  | 125.7  | 129.4  | 134.7  | 136.1  |
| 62.5° | 113.1  | 110.8  | 110.1  | 110.1  | 110.1  | 110.1  | 110.1  | 110.1  | 110.1  | 110.8  | 110.8  |
| 65°   | 100.4  | 101.2  | 100.4  | 99.7   | 100.4  | 100.4  | 99.7   | 99.7   | 99.7   | 100.4  | 101.2  |
| 67.5° | 90.0   | 89.3   | 90.0   | 89.3   | 88.5   | 88.5   | 87.8   | 88.5   | 89.3   | 90.0   | 90.0   |
| 70°   | 78.1   | 78.1   | 77.4   | 78.1   | 77.4   | 76.6   | 75.9   | 75.9   | 77.4   | 78.1   | 78.1   |
| 72.5° | 67.0   | 67.0   | 66.2   | 66.2   | 64.7   | 64.7   | 65.5   | 64.7   | 64.7   | 67.0   | 67.0   |
| 75°   | 55.8   | 55.1   | 54.3   | 54.3   | 53.6   | 53.6   | 53.6   | 52.8   | 54.3   | 54.3   | 55.1   |
| 77.5° | 43.9   | 43.9   | 43.9   | 43.1   | 43.1   | 42.4   | 42.4   | 43.1   | 43.1   | 43.1   | 43.9   |
| 80°   | 33.5   | 33.5   | 33.5   | 32.7   | 32.0   | 32.0   | 32.0   | 32.0   | 32.0   | 32.7   | 32.0   |
| 82.5° | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 22.3   | 22.3   | 22.3   | 23.1   | 23.1   | 22.3   |
| 85°   | 14.1   | 13.4   | 14.1   | 14.1   | 13.4   | 14.1   | 13.4   | 13.4   | 12.6   | 12.6   | 13.4   |
| 87.5° | 6.0    | 5.2    | 4.5    | 4.5    | 5.2    | 4.5    | 4.5    | 4.5    | 5.2    | 4.5    | 4.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1019.9 | 1023.7 | 1022.2 | 1014.0 | 1022.2 | 1024.4 | 1028.9 | 1033.3 | 1036.3 | 1040.8 | 1044.5 |
| 5°    | 956.0  | 963.4  | 967.9  | 963.4  | 978.3  | 980.5  | 990.9  | 996.9  | 1005.8 | 1013.2 | 1019.2 |
| 7.5°  | 895.7  | 901.7  | 910.6  | 912.1  | 921.0  | 931.4  | 946.3  | 961.2  | 975.3  | 982.7  | 989.4  |
| 10°   | 831.0  | 841.4  | 854.8  | 851.8  | 865.2  | 881.6  | 897.2  | 921.0  | 932.9  | 946.3  | 958.2  |
| 12.5° | 766.3  | 773.0  | 790.8  | 796.8  | 816.1  | 828.7  | 850.3  | 865.2  | 895.0  | 910.6  | 921.0  |
| 15°   | 653.2  | 680.7  | 703.0  | 729.8  | 755.1  | 778.9  | 798.2  | 825.0  | 851.1  | 863.0  | 880.1  |
| 17.5° | 601.8  | 614.5  | 627.9  | 641.3  | 674.0  | 716.4  | 750.6  | 779.6  | 802.0  | 817.6  | 837.7  |
| 20°   | 548.3  | 560.9  | 575.8  | 588.5  | 608.5  | 639.0  | 681.4  | 731.3  | 758.1  | 774.4  | 793.8  |
| 22.5° | 510.3  | 522.2  | 531.9  | 543.1  | 558.7  | 581.0  | 613.0  | 674.8  | 710.5  | 730.5  | 747.7  |
| 25°   | 469.4  | 484.3  | 494.7  | 502.9  | 515.5  | 540.1  | 566.1  | 601.1  | 665.1  | 680.7  | 704.5  |
| 27.5° | 441.2  | 445.6  | 457.5  | 470.2  | 482.8  | 496.2  | 523.0  | 552.7  | 595.9  | 630.1  | 659.1  |
| 30°   | 407.7  | 418.8  | 430.0  | 435.2  | 446.4  | 465.7  | 482.1  | 514.1  | 547.5  | 574.3  | 609.3  |
| 32.5° | 382.4  | 389.1  | 396.5  | 409.2  | 419.6  | 433.0  | 449.3  | 476.1  | 504.4  | 521.5  | 548.3  |
| 35°   | 354.1  | 358.6  | 374.2  | 379.4  | 389.8  | 403.2  | 419.6  | 440.4  | 470.9  | 484.3  | 503.6  |
| 37.5° | 327.3  | 337.7  | 342.2  | 354.1  | 363.8  | 377.2  | 389.1  | 412.9  | 433.0  | 448.6  | 466.4  |
| 40°   | 306.5  | 311.0  | 319.1  | 329.6  | 337.7  | 348.2  | 363.0  | 380.2  | 401.7  | 414.4  | 430.0  |
| 42.5° | 281.2  | 284.9  | 295.3  | 301.3  | 314.7  | 324.4  | 333.3  | 354.1  | 373.5  | 383.1  | 398.8  |
| 45°   | 253.7  | 262.6  | 269.3  | 281.2  | 288.6  | 300.6  | 311.7  | 326.6  | 344.4  | 355.6  | 364.5  |
| 47.5° | 229.9  | 238.8  | 245.5  | 256.7  | 268.6  | 273.8  | 285.7  | 301.3  | 317.7  | 326.6  | 339.2  |
| 50°   | 210.5  | 213.5  | 226.2  | 231.4  | 244.0  | 254.4  | 262.6  | 276.0  | 293.9  | 299.1  | 309.5  |
| 52.5° | 191.9  | 194.2  | 202.4  | 209.0  | 220.2  | 229.1  | 239.5  | 252.2  | 267.1  | 275.3  | 283.4  |
| 55°   | 175.6  | 177.1  | 180.8  | 188.2  | 195.7  | 206.8  | 216.5  | 228.4  | 241.0  | 250.0  | 257.4  |
| 57.5° | 157.0  | 159.9  | 162.9  | 167.4  | 174.8  | 185.2  | 195.7  | 206.8  | 217.2  | 223.2  | 232.9  |
| 60°   | 135.4  | 139.9  | 145.1  | 150.3  | 155.5  | 162.9  | 174.8  | 185.2  | 194.9  | 200.1  | 207.6  |
| 62.5° | 112.3  | 121.3  | 125.7  | 131.7  | 136.1  | 142.8  | 151.8  | 163.7  | 170.4  | 177.1  | 183.0  |
| 65°   | 101.2  | 101.9  | 102.7  | 108.6  | 116.8  | 123.5  | 131.7  | 140.6  | 151.0  | 155.5  | 159.9  |
| 67.5° | 90.0   | 90.8   | 92.2   | 93.0   | 96.0   | 103.4  | 112.3  | 122.0  | 130.2  | 133.2  | 137.6  |
| 70°   | 78.9   | 78.9   | 81.8   | 82.6   | 83.3   | 84.1   | 91.5   | 101.2  | 108.6  | 112.3  | 117.5  |
| 72.5° | 67.0   | 67.7   | 69.2   | 69.9   | 71.4   | 72.9   | 75.1   | 80.3   | 89.3   | 93.0   | 98.9   |
| 75°   | 55.1   | 55.8   | 56.5   | 57.3   | 59.5   | 60.3   | 62.5   | 65.5   | 69.2   | 73.6   | 77.4   |
| 77.5° | 43.9   | 43.9   | 44.6   | 46.1   | 47.6   | 48.4   | 50.6   | 52.1   | 53.6   | 55.8   | 58.8   |
| 80°   | 32.7   | 33.5   | 33.5   | 35.0   | 35.0   | 35.7   | 36.5   | 38.7   | 40.2   | 41.7   | 43.1   |
| 82.5° | 22.3   | 23.8   | 23.8   | 23.8   | 24.5   | 25.3   | 26.0   | 26.0   | 27.5   | 28.3   | 30.5   |
| 85°   | 13.4   | 14.1   | 14.1   | 14.1   | 13.4   | 14.9   | 14.9   | 15.6   | 15.6   | 15.6   | 16.4   |
| 87.5° | 5.2    | 4.5    | 5.2    | 5.2    | 5.2    | 6.0    | 5.2    | 5.2    | 6.0    | 6.7    | 6.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P997727

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**CANDELA DISTRIBUTION (continued):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 1070.5 | 1070.5 | 1070.5 | 1070.5 |
| 2.5°  | 1051.2 | 1049.0 | 1062.3 | 1077.2 |
| 5°    | 1029.6 | 1033.3 | 1050.4 | 1071.3 |
| 7.5°  | 1007.3 | 1015.5 | 1035.6 | 1063.1 |
| 10°   | 976.0  | 990.9  | 1021.4 | 1049.7 |
| 12.5° | 945.5  | 965.6  | 994.6  | 1028.1 |
| 15°   | 911.3  | 933.6  | 969.3  | 1009.5 |
| 17.5° | 873.4  | 898.7  | 940.3  | 984.2  |
| 20°   | 833.2  | 866.7  | 910.6  | 958.2  |
| 22.5° | 788.6  | 828.7  | 874.1  | 926.9  |
| 25°   | 745.4  | 789.3  | 834.7  | 895.7  |
| 27.5° | 703.0  | 746.2  | 796.8  | 858.5  |
| 30°   | 660.6  | 700.0  | 754.4  | 820.6  |
| 32.5° | 615.2  | 656.2  | 713.4  | 781.1  |
| 35°   | 573.6  | 614.5  | 668.1  | 735.0  |
| 37.5° | 528.9  | 572.8  | 624.2  | 693.3  |
| 40°   | 476.9  | 528.2  | 578.0  | 644.2  |
| 42.5° | 433.7  | 488.0  | 536.4  | 598.9  |
| 45°   | 399.5  | 450.8  | 491.0  | 552.0  |
| 47.5° | 367.5  | 409.2  | 450.1  | 506.6  |
| 50°   | 337.0  | 369.0  | 411.4  | 462.0  |
| 52.5° | 305.8  | 333.3  | 369.7  | 417.3  |
| 55°   | 277.5  | 303.5  | 336.3  | 372.7  |
| 57.5° | 251.5  | 270.0  | 302.8  | 335.5  |
| 60°   | 222.4  | 241.8  | 267.1  | 294.6  |
| 62.5° | 197.9  | 212.8  | 236.6  | 259.6  |
| 65°   | 171.8  | 186.0  | 203.8  | 225.4  |
| 67.5° | 148.0  | 160.7  | 174.8  | 191.9  |
| 70°   | 126.5  | 136.1  | 146.6  | 161.4  |
| 72.5° | 103.4  | 113.8  | 123.5  | 135.4  |
| 75°   | 84.8   | 89.3   | 97.5   | 105.6  |
| 77.5° | 65.5   | 71.4   | 75.9   | 82.6   |
| 80°   | 46.9   | 52.1   | 53.6   | 58.8   |
| 82.5° | 31.2   | 34.2   | 37.2   | 38.7   |
| 85°   | 17.9   | 19.3   | 22.3   | 23.1   |
| 87.5° | 6.7    | 7.4    | 8.9    | 10.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 20.87            | 22.32 | 21.23 | 22.63 | 22.95 | 15.28          | 16.74 | 15.65 | 17.05 | 17.36 |
|                 | 3H   | 22.20            | 23.50 | 22.58 | 23.83 | 24.19 | 16.41          | 17.71 | 16.79 | 18.04 | 18.40 |
|                 | 4H   | 22.62            | 23.84 | 23.02 | 24.19 | 24.57 | 16.87          | 18.09 | 17.27 | 18.44 | 18.82 |
|                 | 6H   | 22.90            | 24.02 | 23.31 | 24.39 | 24.78 | 17.25          | 18.37 | 17.66 | 18.74 | 19.13 |
|                 | 8H   | 22.97            | 24.04 | 23.40 | 24.43 | 24.83 | 17.37          | 18.44 | 17.80 | 18.83 | 19.23 |
|                 | 12H  | 23.01            | 24.03 | 23.44 | 24.41 | 24.84 | 17.46          | 18.48 | 17.89 | 18.86 | 19.29 |
| 4H              | 2H   | 20.85            | 22.06 | 21.25 | 22.41 | 22.79 | 15.97          | 17.18 | 16.37 | 17.53 | 17.91 |
|                 | 3H   | 22.29            | 23.30 | 22.70 | 23.70 | 24.10 | 17.26          | 18.26 | 17.67 | 18.67 | 19.07 |
|                 | 4H   | 22.79            | 23.70 | 23.23 | 24.11 | 24.55 | 17.82          | 18.72 | 18.25 | 19.14 | 19.58 |
|                 | 6H   | 23.17            | 23.96 | 23.63 | 24.40 | 24.86 | 18.30          | 19.08 | 18.76 | 19.53 | 19.99 |
|                 | 8H   | 23.28            | 24.01 | 23.75 | 24.46 | 24.93 | 18.46          | 19.19 | 18.93 | 19.64 | 20.11 |
|                 | 12H  | 23.36            | 24.01 | 23.84 | 24.49 | 24.96 | 18.58          | 19.23 | 19.07 | 19.71 | 20.19 |
| 8H              | 4H   | 22.78            | 23.52 | 23.25 | 23.96 | 24.43 | 18.13          | 18.87 | 18.60 | 19.31 | 19.78 |
|                 | 6H   | 23.20            | 23.80 | 23.70 | 24.30 | 24.78 | 18.72          | 19.32 | 19.22 | 19.81 | 20.29 |
|                 | 8H   | 23.35            | 23.89 | 23.86 | 24.40 | 24.89 | 18.95          | 19.49 | 19.47 | 20.00 | 20.49 |
|                 | 12H  | 23.46            | 23.94 | 23.97 | 24.43 | 25.00 | 19.14          | 19.62 | 19.65 | 20.11 | 20.68 |
| 12H             | 4H   | 22.76            | 23.41 | 23.24 | 23.89 | 24.36 | 18.17          | 18.82 | 18.65 | 19.30 | 19.77 |
|                 | 6H   | 23.18            | 23.72 | 23.69 | 24.23 | 24.72 | 18.78          | 19.32 | 19.29 | 19.83 | 20.32 |
|                 | 8H   | 23.35            | 23.83 | 23.86 | 24.32 | 24.89 | 19.06          | 19.54 | 19.57 | 20.03 | 20.60 |