

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: CORELITE

Report Number: P571968

Luminaire Tested: 22ID-45-L840-SWD

Issue Date: 10/5/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P571968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22ID-45-L840-SWD  
Description: 4500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED SWEEP LENS AND 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4621.0 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.21 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

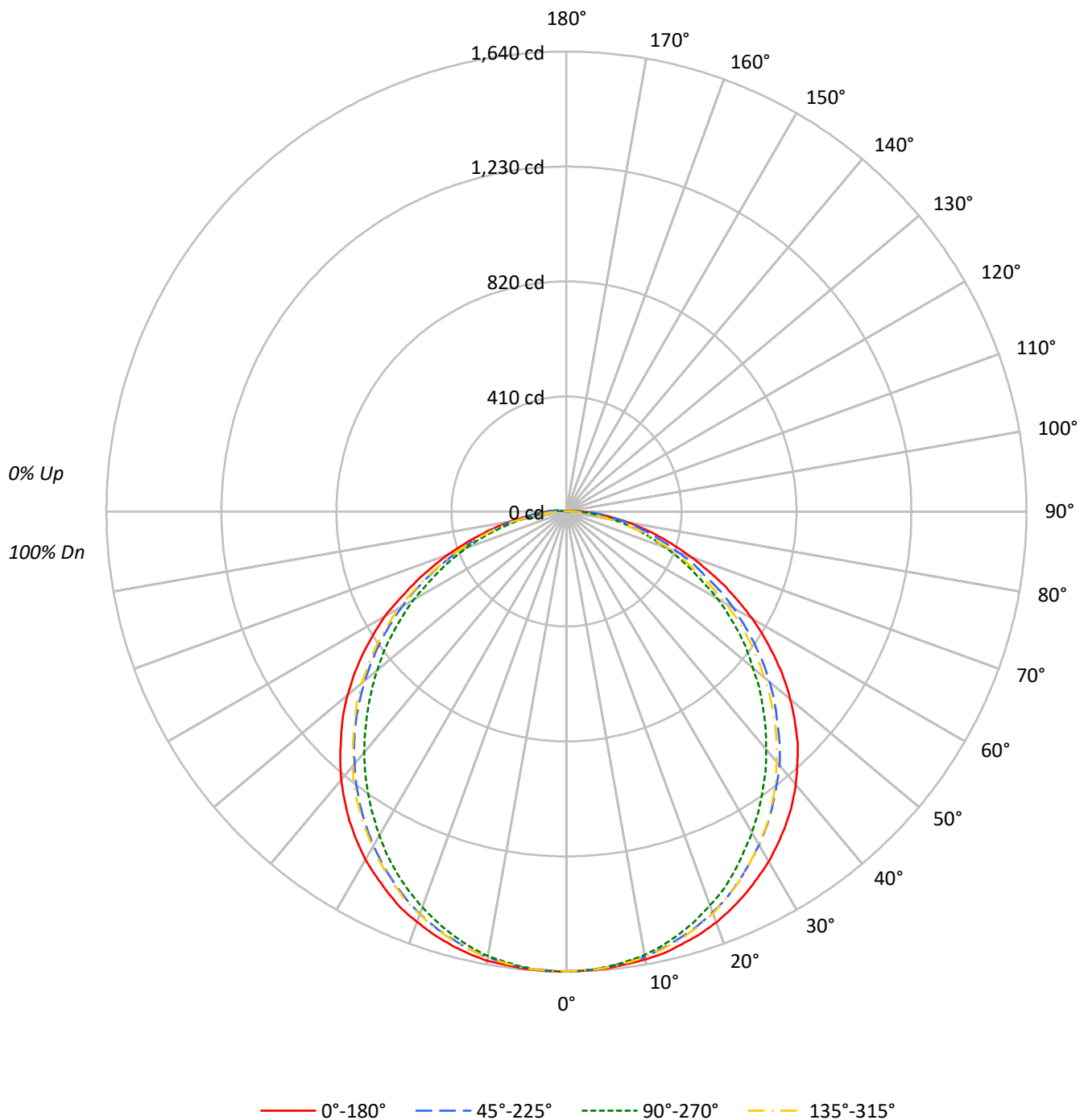
Input Watts (W): 37.2  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 108 | 104 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 94  | 91  |  | 93  | 90  | 88  |  | 89  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  |  | 81  | 77  | 73  |  | 78  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 54  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 46  |  | 57  | 51  | 46  |  | 56  |
| 6   | 70  | 57  | 48  | 41  | 68  | 56  | 47  | 41  | 54  | 46  | 41  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 43  | 36  | 63  | 51  | 42  | 36  | 49  | 41  | 36  |  | 47  | 41  | 36  |  | 46  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  |  | 43  | 37  | 32  |  | 42  |
| 9   | 56  | 43  | 35  | 29  | 55  | 42  | 35  | 29  | 41  | 34  | 29  |  | 40  | 34  | 29  |  | 39  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 26  | 38  | 31  | 26  |  | 37  | 31  | 26  |  | 36  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 4414 | 4414 | 4414 | 4414 |
| 5°  | 4387 | 4374 | 4393 | 4381 |
| 10° | 4368 | 4324 | 4380 | 4337 |
| 15° | 4351 | 4251 | 4357 | 4263 |
| 20° | 4335 | 4156 | 4329 | 4175 |
| 25° | 4307 | 4050 | 4293 | 4076 |
| 30° | 4276 | 3921 | 4249 | 3955 |
| 35° | 4233 | 3783 | 4183 | 3826 |
| 40° | 4176 | 3638 | 4100 | 3684 |
| 45° | 4095 | 3480 | 3990 | 3521 |
| 50° | 3966 | 3299 | 3878 | 3352 |
| 55° | 3806 | 3139 | 3719 | 3168 |
| 60° | 3597 | 2937 | 3511 | 2958 |
| 65° | 3336 | 2651 | 3186 | 2688 |
| 70° | 3009 | 2404 | 2862 | 2419 |
| 75° | 2686 | 2120 | 2485 | 2046 |
| 80° | 2328 | 1770 | 2085 | 1722 |
| 85° | 1858 | 1421 | 1749 | 1421 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.3  | 3.4       |
| 10°-20°   | 445.5  | 9.6       |
| 20°-30°   | 673.1  | 14.6      |
| 30°-40°   | 805.0  | 17.4      |
| 40°-50°   | 823.6  | 17.8      |
| 50°-60°   | 728.9  | 15.8      |
| 60°-70°   | 540.0  | 11.7      |
| 70°-80°   | 311.3  | 6.7       |
| 80°-90°   | 115.6  | 2.5       |
| 90°-100°  | 21.1   | 0.5       |
| 100°-110° | 1.7    | 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°    | 1273.8 | 27.6      |
| 0°-40°    | 2078.8 | 45.0      |
| 0°-60°    | 3631.2 | 78.6      |
| 0°-90°    | 4598.1 | 99.5      |
| 90°-120°  | 22.8   | 0.5       |
| 90°-150°  | 22.8   | 0.5       |
| 90°-180°  | 23.0   | 0.5       |
| 0°-180°   | 4621.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1640 | 1640 | 1640 | 1640 | 1640 |      |
| 5°   | 1636 | 1631 | 1638 | 1634 | 1636 | 156  |
| 15°  | 1597 | 1560 | 1599 | 1564 | 1597 | 451  |
| 25°  | 1507 | 1417 | 1502 | 1426 | 1507 | 695  |
| 35°  | 1364 | 1219 | 1348 | 1233 | 1364 | 853  |
| 45°  | 1166 | 991  | 1136 | 1002 | 1166 | 897  |
| 55°  | 908  | 749  | 887  | 756  | 908  | 810  |
| 65°  | 618  | 491  | 590  | 498  | 618  | 610  |
| 75°  | 339  | 267  | 313  | 258  | 339  | 360  |
| 85°  | 118  | 90   | 111  | 90   | 118  | 118  |
| 90°  | 46   | 32   | 62   | 48   | 46   | 27   |
| 95°  | 7    | 5    | 32   | 28   | 7    | 5    |
| 105° | 0    | 0    | 5    | 5    | 0    | 0    |
| 115° | 0    | 0    | 0    | 0    | 0    | 0    |
| 125° | 0    | 0    | 0    | 0    | 0    | 0    |
| 135° | 0    | 0    | 0    | 0    | 0    | 0    |
| 145° | 0    | 0    | 0    | 0    | 0    | 0    |
| 155° | 0    | 0    | 0    | 0    | 0    | 0    |
| 165° | 0    | 0    | 0    | 0    | 0    | 0    |
| 175° | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0    | 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°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1638.1 | 1640.4 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1635.8 | 1635.8 | 1638.1 | 1638.1 | 1638.1 |
| 5°     | 1635.8 | 1635.8 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1631.2 | 1631.2 | 1633.5 | 1633.5 | 1631.2 |
| 7.5°   | 1628.9 | 1628.9 | 1628.9 | 1626.6 | 1624.3 | 1626.6 | 1624.3 | 1624.3 | 1624.3 | 1624.3 | 1622.0 |
| 10°    | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1617.4 | 1617.4 | 1615.1 | 1615.1 | 1612.8 | 1612.8 | 1612.8 |
| 12.5°  | 1612.8 | 1612.8 | 1610.5 | 1608.1 | 1605.8 | 1605.8 | 1603.5 | 1601.2 | 1598.9 | 1596.6 | 1594.3 |
| 15°    | 1596.6 | 1596.6 | 1596.6 | 1592.0 | 1589.7 | 1587.4 | 1587.4 | 1585.1 | 1580.5 | 1578.2 | 1573.6 |
| 17.5°  | 1580.5 | 1580.5 | 1578.2 | 1573.6 | 1571.3 | 1569.0 | 1566.7 | 1564.4 | 1559.8 | 1555.2 | 1550.6 |
| 20°    | 1559.8 | 1559.8 | 1557.5 | 1552.9 | 1548.2 | 1545.9 | 1545.9 | 1541.3 | 1532.1 | 1527.5 | 1522.9 |
| 22.5°  | 1534.4 | 1536.7 | 1534.4 | 1529.8 | 1525.2 | 1520.6 | 1520.6 | 1511.4 | 1504.5 | 1499.9 | 1493.0 |
| 25°    | 1506.8 | 1506.8 | 1504.5 | 1499.9 | 1493.0 | 1488.3 | 1488.3 | 1476.8 | 1472.2 | 1465.3 | 1453.8 |
| 27.5°  | 1474.5 | 1474.5 | 1472.2 | 1467.6 | 1463.0 | 1456.1 | 1453.8 | 1442.3 | 1435.4 | 1428.4 | 1414.6 |
| 30°    | 1442.3 | 1440.0 | 1440.0 | 1430.7 | 1426.1 | 1419.2 | 1416.9 | 1403.1 | 1396.2 | 1387.0 | 1373.1 |
| 32.5°  | 1403.1 | 1403.1 | 1403.1 | 1391.6 | 1387.0 | 1380.1 | 1377.8 | 1363.9 | 1354.7 | 1343.2 | 1329.4 |
| 35°    | 1363.9 | 1361.6 | 1357.0 | 1350.1 | 1343.2 | 1336.3 | 1334.0 | 1320.2 | 1310.9 | 1297.1 | 1281.0 |
| 37.5°  | 1320.2 | 1315.5 | 1313.2 | 1306.3 | 1299.4 | 1287.9 | 1287.9 | 1274.1 | 1262.6 | 1248.7 | 1230.3 |
| 40°    | 1271.8 | 1267.2 | 1264.9 | 1255.6 | 1248.7 | 1239.5 | 1237.2 | 1223.4 | 1207.3 | 1195.7 | 1181.9 |
| 42.5°  | 1218.8 | 1214.2 | 1209.6 | 1207.3 | 1195.7 | 1186.5 | 1184.2 | 1168.1 | 1152.0 | 1140.5 | 1126.6 |
| 45°    | 1165.8 | 1158.9 | 1154.3 | 1149.7 | 1138.1 | 1128.9 | 1126.6 | 1108.2 | 1094.4 | 1082.9 | 1062.1 |
| 47.5°  | 1103.6 | 1099.0 | 1092.1 | 1082.9 | 1078.2 | 1066.7 | 1066.7 | 1048.3 | 1034.5 | 1020.6 | 1006.8 |
| 50°    | 1041.4 | 1034.5 | 1029.9 | 1020.6 | 1013.7 | 1004.5 | 997.6  | 986.1  | 972.3  | 958.4  | 944.6  |
| 52.5°  | 976.9  | 970.0  | 967.7  | 960.7  | 949.2  | 940.0  | 933.1  | 923.9  | 907.8  | 893.9  | 882.4  |
| 55°    | 907.8  | 905.4  | 896.2  | 893.9  | 882.4  | 873.2  | 868.6  | 854.8  | 840.9  | 829.4  | 815.6  |
| 57.5°  | 836.3  | 829.4  | 829.4  | 822.5  | 813.3  | 801.8  | 801.8  | 785.6  | 774.1  | 762.6  | 748.8  |
| 60°    | 764.9  | 760.3  | 760.3  | 748.8  | 744.2  | 735.0  | 735.0  | 716.5  | 707.3  | 695.8  | 686.6  |
| 62.5°  | 688.9  | 693.5  | 682.0  | 682.0  | 672.8  | 665.8  | 663.5  | 652.0  | 640.5  | 631.3  | 622.1  |
| 65°    | 617.5  | 619.8  | 612.8  | 610.5  | 596.7  | 589.8  | 587.5  | 578.3  | 569.1  | 559.9  | 546.0  |
| 67.5°  | 541.4  | 543.7  | 541.4  | 536.8  | 529.9  | 523.0  | 520.7  | 511.5  | 504.6  | 495.3  | 490.7  |
| 70°    | 470.0  | 470.0  | 472.3  | 470.0  | 463.1  | 458.5  | 458.5  | 447.0  | 440.1  | 433.1  | 421.6  |
| 72.5°  | 403.2  | 407.8  | 405.5  | 405.5  | 398.6  | 394.0  | 394.0  | 384.8  | 380.2  | 373.2  | 364.0  |
| 75°    | 338.7  | 341.0  | 343.3  | 341.0  | 336.4  | 334.1  | 331.8  | 327.2  | 322.6  | 317.9  | 308.7  |
| 77.5°  | 278.8  | 281.1  | 281.1  | 281.1  | 278.8  | 278.8  | 274.2  | 269.6  | 267.3  | 265.0  | 258.0  |
| 80°    | 221.2  | 223.5  | 225.8  | 225.8  | 223.5  | 221.2  | 221.2  | 218.9  | 218.9  | 216.6  | 214.3  |
| 82.5°  | 165.9  | 170.5  | 172.8  | 175.1  | 175.1  | 177.4  | 175.1  | 172.8  | 172.8  | 170.5  | 168.2  |
| 85°    | 117.5  | 122.1  | 126.7  | 129.0  | 131.3  | 131.3  | 131.3  | 131.3  | 131.3  | 131.3  | 126.7  |
| 87.5°  | 78.3   | 82.9   | 87.5   | 89.9   | 92.2   | 92.2   | 92.2   | 92.2   | 92.2   | 92.2   | 89.9   |
| 90°    | 46.1   | 50.7   | 53.0   | 55.3   | 57.6   | 55.3   | 57.6   | 57.6   | 59.9   | 59.9   | 57.6   |
| 92.5°  | 23.0   | 25.3   | 25.3   | 27.6   | 27.6   | 27.6   | 27.6   | 27.6   | 27.6   | 30.0   | 27.6   |
| 95°    | 6.9    | 6.9    | 9.2    | 9.2    | 9.2    | 9.2    | 6.9    | 6.9    | 4.6    | 4.6    | 2.3    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1638.1 | 1638.1 | 1638.1 | 1638.1 |
| 5°     | 1631.2 | 1631.2 | 1628.9 | 1631.2 | 1631.2 | 1628.9 | 1631.2 | 1631.2 | 1631.2 | 1631.2 | 1633.5 |
| 7.5°   | 1622.0 | 1622.0 | 1619.7 | 1619.7 | 1619.7 | 1619.7 | 1619.7 | 1617.4 | 1619.7 | 1619.7 | 1619.7 |
| 10°    | 1608.1 | 1608.1 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1603.5 | 1603.5 | 1605.8 | 1605.8 | 1605.8 |
| 12.5°  | 1592.0 | 1589.7 | 1587.4 | 1587.4 | 1585.1 | 1585.1 | 1585.1 | 1585.1 | 1585.1 | 1585.1 | 1585.1 |
| 15°    | 1571.3 | 1569.0 | 1566.7 | 1564.4 | 1564.4 | 1564.4 | 1559.8 | 1562.1 | 1559.8 | 1559.8 | 1562.1 |
| 17.5°  | 1548.2 | 1543.6 | 1539.0 | 1536.7 | 1536.7 | 1536.7 | 1532.1 | 1532.1 | 1529.8 | 1529.8 | 1532.1 |
| 20°    | 1516.0 | 1513.7 | 1506.8 | 1504.5 | 1504.5 | 1502.2 | 1497.6 | 1497.6 | 1497.6 | 1495.3 | 1499.9 |
| 22.5°  | 1486.0 | 1481.4 | 1472.2 | 1469.9 | 1469.9 | 1467.6 | 1460.7 | 1460.7 | 1460.7 | 1460.7 | 1460.7 |
| 25°    | 1446.9 | 1442.3 | 1435.4 | 1428.4 | 1428.4 | 1426.1 | 1419.2 | 1419.2 | 1416.9 | 1416.9 | 1419.2 |
| 27.5°  | 1405.4 | 1400.8 | 1391.6 | 1384.7 | 1384.7 | 1382.4 | 1375.5 | 1375.5 | 1370.8 | 1368.5 | 1373.1 |
| 30°    | 1361.6 | 1357.0 | 1347.8 | 1340.9 | 1338.6 | 1336.3 | 1329.4 | 1329.4 | 1322.5 | 1322.5 | 1327.1 |
| 32.5°  | 1322.5 | 1310.9 | 1299.4 | 1292.5 | 1290.2 | 1287.9 | 1281.0 | 1278.7 | 1274.1 | 1271.8 | 1274.1 |
| 35°    | 1274.1 | 1258.0 | 1251.0 | 1241.8 | 1239.5 | 1237.2 | 1230.3 | 1223.4 | 1221.1 | 1218.8 | 1221.1 |
| 37.5°  | 1223.4 | 1207.3 | 1198.0 | 1188.8 | 1186.5 | 1181.9 | 1172.7 | 1168.1 | 1165.8 | 1165.8 | 1168.1 |
| 40°    | 1163.5 | 1154.3 | 1142.8 | 1131.2 | 1128.9 | 1126.6 | 1117.4 | 1115.1 | 1110.5 | 1108.2 | 1112.8 |
| 42.5°  | 1108.2 | 1096.7 | 1085.2 | 1073.6 | 1073.6 | 1071.3 | 1062.1 | 1057.5 | 1052.9 | 1050.6 | 1052.9 |
| 45°    | 1048.3 | 1036.8 | 1025.3 | 1016.0 | 1013.7 | 1006.8 | 1002.2 | 997.6  | 993.0  | 990.7  | 993.0  |
| 47.5°  | 986.1  | 974.6  | 965.4  | 953.8  | 951.5  | 949.2  | 942.3  | 937.7  | 930.8  | 933.1  | 933.1  |
| 50°    | 926.2  | 914.7  | 903.1  | 893.9  | 889.3  | 882.4  | 882.4  | 877.8  | 868.6  | 866.3  | 870.9  |
| 52.5°  | 864.0  | 852.5  | 840.9  | 831.7  | 829.4  | 822.5  | 815.6  | 813.3  | 808.7  | 811.0  | 808.7  |
| 55°    | 801.8  | 787.9  | 776.4  | 769.5  | 764.9  | 760.3  | 755.7  | 751.1  | 744.2  | 748.8  | 748.8  |
| 57.5°  | 732.7  | 721.1  | 714.2  | 705.0  | 702.7  | 700.4  | 691.2  | 688.9  | 682.0  | 684.3  | 682.0  |
| 60°    | 670.4  | 658.9  | 652.0  | 642.8  | 640.5  | 633.6  | 629.0  | 626.7  | 619.8  | 624.4  | 619.8  |
| 62.5°  | 610.5  | 592.1  | 582.9  | 573.7  | 573.7  | 569.1  | 564.5  | 559.9  | 552.9  | 550.6  | 550.6  |
| 65°    | 541.4  | 529.9  | 523.0  | 513.8  | 513.8  | 509.2  | 504.6  | 500.0  | 493.0  | 490.7  | 495.3  |
| 67.5°  | 479.2  | 472.3  | 460.8  | 453.9  | 453.9  | 449.3  | 444.7  | 442.4  | 435.4  | 433.1  | 435.4  |
| 70°    | 421.6  | 414.7  | 403.2  | 396.3  | 396.3  | 394.0  | 387.1  | 384.8  | 377.8  | 375.5  | 373.2  |
| 72.5°  | 364.0  | 352.5  | 347.9  | 341.0  | 341.0  | 338.7  | 331.8  | 329.5  | 322.6  | 320.2  | 317.9  |
| 75°    | 306.4  | 301.8  | 292.6  | 288.0  | 290.3  | 283.4  | 281.1  | 276.5  | 269.6  | 267.3  | 267.3  |
| 77.5°  | 253.4  | 251.1  | 241.9  | 237.3  | 237.3  | 232.7  | 230.4  | 225.8  | 223.5  | 218.9  | 216.6  |
| 80°    | 207.4  | 205.1  | 195.8  | 191.2  | 191.2  | 186.6  | 182.0  | 179.7  | 172.8  | 168.2  | 168.2  |
| 82.5°  | 165.9  | 161.3  | 154.4  | 149.8  | 147.5  | 145.1  | 140.5  | 135.9  | 129.0  | 126.7  | 122.1  |
| 85°    | 124.4  | 122.1  | 115.2  | 112.9  | 108.3  | 108.3  | 103.7  | 99.1   | 92.2   | 89.9   | 87.5   |
| 87.5°  | 87.5   | 87.5   | 80.6   | 78.3   | 76.0   | 73.7   | 69.1   | 66.8   | 59.9   | 57.6   | 53.0   |
| 90°    | 55.3   | 55.3   | 50.7   | 48.4   | 46.1   | 43.8   | 41.5   | 39.2   | 34.6   | 32.3   | 27.6   |
| 92.5°  | 25.3   | 25.3   | 23.0   | 20.7   | 20.7   | 20.7   | 18.4   | 18.4   | 16.1   | 13.8   | 11.5   |
| 95°    | 2.3    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1638.1 | 1638.1 | 1635.8 | 1638.1 | 1635.8 | 1635.8 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 |
| 5°     | 1633.5 | 1631.2 | 1631.2 | 1631.2 | 1628.9 | 1631.2 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 |
| 7.5°   | 1619.7 | 1619.7 | 1619.7 | 1619.7 | 1619.7 | 1619.7 | 1622.0 | 1622.0 | 1624.3 | 1624.3 | 1626.6 |
| 10°    | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1605.8 | 1608.1 | 1608.1 | 1612.8 | 1612.8 | 1615.1 | 1617.4 |
| 12.5°  | 1585.1 | 1585.1 | 1585.1 | 1587.4 | 1587.4 | 1589.7 | 1592.0 | 1594.3 | 1596.6 | 1601.2 | 1601.2 |
| 15°    | 1562.1 | 1562.1 | 1562.1 | 1564.4 | 1564.4 | 1566.7 | 1571.3 | 1573.6 | 1578.2 | 1582.8 | 1582.8 |
| 17.5°  | 1534.4 | 1534.4 | 1532.1 | 1536.7 | 1536.7 | 1539.0 | 1545.9 | 1548.2 | 1552.9 | 1557.5 | 1559.8 |
| 20°    | 1499.9 | 1499.9 | 1499.9 | 1504.5 | 1504.5 | 1509.1 | 1513.7 | 1518.3 | 1525.2 | 1532.1 | 1534.4 |
| 22.5°  | 1463.0 | 1463.0 | 1467.6 | 1469.9 | 1469.9 | 1476.8 | 1481.4 | 1488.3 | 1493.0 | 1499.9 | 1504.5 |
| 25°    | 1419.2 | 1423.8 | 1423.8 | 1428.4 | 1433.1 | 1435.4 | 1444.6 | 1449.2 | 1456.1 | 1465.3 | 1469.9 |
| 27.5°  | 1377.8 | 1380.1 | 1384.7 | 1384.7 | 1389.3 | 1391.6 | 1403.1 | 1405.4 | 1414.6 | 1426.1 | 1430.7 |
| 30°    | 1324.8 | 1331.7 | 1331.7 | 1338.6 | 1343.2 | 1347.8 | 1357.0 | 1361.6 | 1370.8 | 1382.4 | 1391.6 |
| 32.5°  | 1276.4 | 1283.3 | 1287.9 | 1287.9 | 1294.8 | 1299.4 | 1310.9 | 1315.5 | 1327.1 | 1336.3 | 1347.8 |
| 35°    | 1225.7 | 1230.3 | 1234.9 | 1237.2 | 1241.8 | 1248.7 | 1260.3 | 1264.9 | 1276.4 | 1287.9 | 1299.4 |
| 37.5°  | 1168.1 | 1177.3 | 1181.9 | 1181.9 | 1186.5 | 1191.1 | 1205.0 | 1211.9 | 1223.4 | 1234.9 | 1246.4 |
| 40°    | 1115.1 | 1119.7 | 1124.3 | 1126.6 | 1133.5 | 1135.8 | 1149.7 | 1156.6 | 1165.8 | 1181.9 | 1191.1 |
| 42.5°  | 1055.2 | 1059.8 | 1066.7 | 1066.7 | 1069.0 | 1082.9 | 1089.8 | 1096.7 | 1108.2 | 1124.3 | 1138.1 |
| 45°    | 995.3  | 999.9  | 1006.8 | 1009.1 | 1009.1 | 1020.6 | 1029.9 | 1036.8 | 1048.3 | 1064.4 | 1078.2 |
| 47.5°  | 933.1  | 937.7  | 944.6  | 944.6  | 946.9  | 958.4  | 967.7  | 974.6  | 986.1  | 1002.2 | 1013.7 |
| 50°    | 873.2  | 877.8  | 882.4  | 882.4  | 884.7  | 889.3  | 903.1  | 910.1  | 921.6  | 937.7  | 949.2  |
| 52.5°  | 811.0  | 813.3  | 820.2  | 820.2  | 820.2  | 829.4  | 838.6  | 845.5  | 857.1  | 873.2  | 880.1  |
| 55°    | 746.5  | 748.8  | 755.7  | 758.0  | 758.0  | 767.2  | 774.1  | 781.0  | 790.3  | 801.8  | 817.9  |
| 57.5°  | 679.7  | 686.6  | 691.2  | 691.2  | 695.8  | 700.4  | 709.6  | 711.9  | 728.0  | 735.0  | 746.5  |
| 60°    | 619.8  | 624.4  | 629.0  | 629.0  | 626.7  | 635.9  | 642.8  | 647.4  | 654.3  | 670.4  | 679.7  |
| 62.5°  | 552.9  | 555.2  | 559.9  | 559.9  | 562.2  | 566.8  | 571.4  | 580.6  | 582.9  | 592.1  | 610.5  |
| 65°    | 493.0  | 493.0  | 495.3  | 497.7  | 497.7  | 502.3  | 506.9  | 513.8  | 516.1  | 523.0  | 536.8  |
| 67.5°  | 430.8  | 433.1  | 435.4  | 435.4  | 435.4  | 437.7  | 442.4  | 449.3  | 451.6  | 456.2  | 467.7  |
| 70°    | 370.9  | 373.2  | 375.5  | 375.5  | 375.5  | 375.5  | 380.2  | 387.1  | 387.1  | 391.7  | 398.6  |
| 72.5°  | 315.6  | 315.6  | 317.9  | 317.9  | 317.9  | 317.9  | 317.9  | 324.9  | 322.6  | 329.5  | 334.1  |
| 75°    | 262.6  | 260.3  | 260.3  | 262.6  | 260.3  | 260.3  | 260.3  | 265.0  | 265.0  | 265.0  | 271.9  |
| 77.5°  | 209.7  | 209.7  | 207.4  | 205.1  | 205.1  | 205.1  | 205.1  | 207.4  | 209.7  | 212.0  | 212.0  |
| 80°    | 161.3  | 159.0  | 159.0  | 156.7  | 154.4  | 154.4  | 152.1  | 156.7  | 152.1  | 159.0  | 159.0  |
| 82.5°  | 117.5  | 115.2  | 112.9  | 110.6  | 110.6  | 108.3  | 106.0  | 108.3  | 108.3  | 108.3  | 112.9  |
| 85°    | 80.6   | 76.0   | 76.0   | 71.4   | 71.4   | 69.1   | 69.1   | 71.4   | 69.1   | 71.4   | 73.7   |
| 87.5°  | 48.4   | 46.1   | 43.8   | 39.2   | 39.2   | 39.2   | 36.9   | 39.2   | 39.2   | 41.5   | 43.8   |
| 90°    | 23.0   | 20.7   | 18.4   | 18.4   | 16.1   | 16.1   | 16.1   | 18.4   | 18.4   | 20.7   | 25.3   |
| 92.5°  | 9.2    | 6.9    | 6.9    | 4.6    | 4.6    | 4.6    | 6.9    | 9.2    | 11.5   | 13.8   | 16.1   |
| 95°    | 2.3    | 2.3    | 2.3    | 2.3    | 0.0    | 2.3    | 2.3    | 4.6    | 6.9    | 9.2    | 11.5   |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.3    | 2.3    | 4.6    | 4.6    | 6.9    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.3    | 2.3    | 4.6    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.3    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|--------|------|------|------|--------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 5°     | 1633.5 | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1635.8 |
| 7.5°   | 1626.6 | 1628.9 | 1628.9 | 1628.9 | 1628.9 | 1631.2 | 1631.2 | 1631.2 | 1631.2 | 1631.2 | 1628.9 |
| 10°    | 1617.4 | 1617.4 | 1619.7 | 1622.0 | 1622.0 | 1624.3 | 1624.3 | 1626.6 | 1624.3 | 1624.3 | 1622.0 |
| 12.5°  | 1603.5 | 1605.8 | 1608.1 | 1608.1 | 1610.5 | 1612.8 | 1612.8 | 1615.1 | 1612.8 | 1612.8 | 1610.5 |
| 15°    | 1587.4 | 1589.7 | 1592.0 | 1594.3 | 1596.6 | 1596.6 | 1598.9 | 1598.9 | 1596.6 | 1596.6 | 1594.3 |
| 17.5°  | 1566.7 | 1569.0 | 1571.3 | 1573.6 | 1578.2 | 1578.2 | 1580.5 | 1580.5 | 1580.5 | 1578.2 | 1575.9 |
| 20°    | 1539.0 | 1543.6 | 1548.2 | 1550.6 | 1552.9 | 1557.5 | 1557.5 | 1557.5 | 1557.5 | 1557.5 | 1555.2 |
| 22.5°  | 1511.4 | 1516.0 | 1520.6 | 1522.9 | 1529.8 | 1532.1 | 1532.1 | 1534.4 | 1534.4 | 1532.1 | 1529.8 |
| 25°    | 1476.8 | 1483.7 | 1488.3 | 1490.6 | 1497.6 | 1499.9 | 1502.2 | 1502.2 | 1499.9 | 1499.9 | 1495.3 |
| 27.5°  | 1442.3 | 1451.5 | 1451.5 | 1456.1 | 1463.0 | 1463.0 | 1469.9 | 1467.6 | 1469.9 | 1465.3 | 1460.7 |
| 30°    | 1400.8 | 1410.0 | 1412.3 | 1416.9 | 1421.5 | 1426.1 | 1433.1 | 1433.1 | 1435.4 | 1428.4 | 1423.8 |
| 32.5°  | 1359.3 | 1368.5 | 1370.8 | 1375.5 | 1380.1 | 1384.7 | 1391.6 | 1391.6 | 1393.9 | 1389.3 | 1384.7 |
| 35°    | 1306.3 | 1322.5 | 1324.8 | 1329.4 | 1336.3 | 1340.9 | 1347.8 | 1347.8 | 1350.1 | 1347.8 | 1338.6 |
| 37.5°  | 1255.6 | 1271.8 | 1274.1 | 1281.0 | 1290.2 | 1294.8 | 1299.4 | 1299.4 | 1304.0 | 1297.1 | 1292.5 |
| 40°    | 1207.3 | 1218.8 | 1221.1 | 1228.0 | 1239.5 | 1239.5 | 1248.7 | 1248.7 | 1246.4 | 1246.4 | 1239.5 |
| 42.5°  | 1149.7 | 1161.2 | 1165.8 | 1172.7 | 1181.9 | 1191.1 | 1195.7 | 1193.4 | 1193.4 | 1198.0 | 1191.1 |
| 45°    | 1089.8 | 1103.6 | 1105.9 | 1112.8 | 1122.0 | 1131.2 | 1138.1 | 1135.8 | 1135.8 | 1138.1 | 1128.9 |
| 47.5°  | 1027.6 | 1039.1 | 1041.4 | 1050.6 | 1059.8 | 1064.4 | 1075.9 | 1080.5 | 1075.9 | 1078.2 | 1069.0 |
| 50°    | 958.4  | 974.6  | 979.2  | 986.1  | 997.6  | 1002.2 | 1013.7 | 1018.3 | 1013.7 | 1011.4 | 1004.5 |
| 52.5°  | 898.5  | 912.4  | 912.4  | 921.6  | 930.8  | 942.3  | 949.2  | 953.8  | 949.2  | 946.9  | 946.9  |
| 55°    | 829.4  | 843.2  | 845.5  | 850.2  | 861.7  | 873.2  | 880.1  | 887.0  | 882.4  | 884.7  | 880.1  |
| 57.5°  | 760.3  | 771.8  | 774.1  | 781.0  | 790.3  | 804.1  | 808.7  | 815.6  | 815.6  | 813.3  | 804.1  |
| 60°    | 691.2  | 702.7  | 705.0  | 711.9  | 718.8  | 728.0  | 739.6  | 746.5  | 741.9  | 744.2  | 732.7  |
| 62.5°  | 622.1  | 631.3  | 635.9  | 638.2  | 649.7  | 661.2  | 665.8  | 665.8  | 675.1  | 672.8  | 663.5  |
| 65°    | 546.0  | 555.2  | 557.6  | 562.2  | 571.4  | 582.9  | 589.8  | 589.8  | 594.4  | 594.4  | 585.2  |
| 67.5°  | 476.9  | 486.1  | 488.4  | 490.7  | 500.0  | 513.8  | 516.1  | 518.4  | 520.7  | 520.7  | 513.8  |
| 70°    | 407.8  | 417.0  | 419.3  | 423.9  | 428.5  | 442.4  | 444.7  | 447.0  | 453.9  | 451.6  | 444.7  |
| 72.5°  | 343.3  | 350.2  | 352.5  | 354.8  | 359.4  | 373.2  | 375.5  | 377.8  | 384.8  | 384.8  | 384.8  |
| 75°    | 278.8  | 285.7  | 288.0  | 288.0  | 294.9  | 306.4  | 311.0  | 313.3  | 317.9  | 320.2  | 320.2  |
| 77.5°  | 218.9  | 223.5  | 223.5  | 225.8  | 232.7  | 244.2  | 248.8  | 253.4  | 255.7  | 258.0  | 260.3  |
| 80°    | 163.6  | 168.2  | 170.5  | 172.8  | 177.4  | 186.6  | 191.2  | 198.1  | 200.4  | 202.7  | 205.1  |
| 82.5°  | 115.2  | 119.8  | 119.8  | 124.4  | 129.0  | 138.2  | 142.8  | 149.8  | 152.1  | 156.7  | 159.0  |
| 85°    | 76.0   | 82.9   | 85.2   | 85.2   | 92.2   | 99.1   | 106.0  | 110.6  | 115.2  | 117.5  | 122.1  |
| 87.5°  | 48.4   | 53.0   | 57.6   | 59.9   | 64.5   | 71.4   | 76.0   | 80.6   | 85.2   | 89.9   | 94.5   |
| 90°    | 30.0   | 34.6   | 36.9   | 41.5   | 46.1   | 50.7   | 55.3   | 62.2   | 64.5   | 69.1   | 73.7   |
| 92.5°  | 20.7   | 25.3   | 27.6   | 27.6   | 32.3   | 36.9   | 41.5   | 46.1   | 48.4   | 50.7   | 53.0   |
| 95°    | 13.8   | 18.4   | 18.4   | 20.7   | 23.0   | 27.6   | 30.0   | 32.3   | 34.6   | 34.6   | 34.6   |
| 97.5°  | 9.2    | 11.5   | 13.8   | 13.8   | 16.1   | 18.4   | 20.7   | 20.7   | 23.0   | 23.0   | 23.0   |
| 100°   | 4.6    | 6.9    | 6.9    | 9.2    | 9.2    | 11.5   | 13.8   | 13.8   | 13.8   | 13.8   | 13.8   |
| 102.5° | 2.3    | 4.6    | 4.6    | 4.6    | 6.9    | 6.9    | 6.9    | 9.2    | 9.2    | 9.2    | 9.2    |
| 105°   | 0.0    | 2.3    | 2.3    | 2.3    | 2.3    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.3    | 2.3    | 2.3    | 2.3    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° | 185° | 190° | 195° |
|--------|------|------|--------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 |
| 5°     | 1635.8 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 |
| 7.5°   | 1628.9 | 1628.9 | 1628.9 | 1626.6 | 1626.6 | 1626.6 | 1626.6 | 1624.3 | 1624.3 | 1622.0 | 1622.0 |
| 10°    | 1622.0 | 1619.7 | 1619.7 | 1617.4 | 1617.4 | 1617.4 | 1615.1 | 1615.1 | 1612.8 | 1610.5 | 1610.5 |
| 12.5°  | 1608.1 | 1608.1 | 1605.8 | 1605.8 | 1603.5 | 1601.2 | 1598.9 | 1596.6 | 1594.3 | 1594.3 | 1589.7 |
| 15°    | 1592.0 | 1589.7 | 1589.7 | 1585.1 | 1585.1 | 1582.8 | 1578.2 | 1575.9 | 1573.6 | 1571.3 | 1566.7 |
| 17.5°  | 1573.6 | 1569.0 | 1569.0 | 1566.7 | 1564.4 | 1559.8 | 1555.2 | 1552.9 | 1548.2 | 1545.9 | 1543.6 |
| 20°    | 1550.6 | 1548.2 | 1548.2 | 1541.3 | 1536.7 | 1532.1 | 1527.5 | 1522.9 | 1520.6 | 1513.7 | 1509.1 |
| 22.5°  | 1525.2 | 1520.6 | 1520.6 | 1516.0 | 1509.1 | 1504.5 | 1495.3 | 1490.6 | 1486.0 | 1479.1 | 1474.5 |
| 25°    | 1490.6 | 1486.0 | 1486.0 | 1479.1 | 1472.2 | 1467.6 | 1458.4 | 1451.5 | 1444.6 | 1437.7 | 1437.7 |
| 27.5°  | 1456.1 | 1451.5 | 1449.2 | 1442.3 | 1435.4 | 1428.4 | 1419.2 | 1410.0 | 1405.4 | 1398.5 | 1393.9 |
| 30°    | 1416.9 | 1412.3 | 1412.3 | 1403.1 | 1396.2 | 1387.0 | 1375.5 | 1366.2 | 1357.0 | 1352.4 | 1347.8 |
| 32.5°  | 1377.8 | 1375.5 | 1368.5 | 1361.6 | 1352.4 | 1343.2 | 1329.4 | 1320.2 | 1310.9 | 1304.0 | 1299.4 |
| 35°    | 1334.0 | 1331.7 | 1324.8 | 1317.9 | 1306.3 | 1294.8 | 1281.0 | 1271.8 | 1262.6 | 1255.6 | 1248.7 |
| 37.5°  | 1285.6 | 1283.3 | 1276.4 | 1264.9 | 1258.0 | 1244.1 | 1230.3 | 1218.8 | 1211.9 | 1202.7 | 1193.4 |
| 40°    | 1234.9 | 1230.3 | 1223.4 | 1214.2 | 1205.0 | 1191.1 | 1175.0 | 1165.8 | 1156.6 | 1147.4 | 1138.1 |
| 42.5°  | 1179.6 | 1177.3 | 1170.4 | 1156.6 | 1147.4 | 1135.8 | 1119.7 | 1108.2 | 1099.0 | 1087.5 | 1082.9 |
| 45°    | 1122.0 | 1122.0 | 1115.1 | 1103.6 | 1089.8 | 1075.9 | 1062.1 | 1050.6 | 1039.1 | 1029.9 | 1020.6 |
| 47.5°  | 1062.1 | 1062.1 | 1052.9 | 1043.7 | 1029.9 | 1016.0 | 999.9  | 988.4  | 976.9  | 970.0  | 960.7  |
| 50°    | 999.9  | 997.6  | 993.0  | 976.9  | 967.7  | 953.8  | 937.7  | 928.5  | 917.0  | 907.8  | 898.5  |
| 52.5°  | 935.4  | 933.1  | 928.5  | 912.4  | 903.1  | 889.3  | 873.2  | 864.0  | 854.8  | 843.2  | 836.3  |
| 55°    | 868.6  | 866.3  | 857.1  | 852.5  | 836.3  | 824.8  | 808.7  | 801.8  | 787.9  | 778.7  | 771.8  |
| 57.5°  | 797.2  | 797.2  | 790.3  | 781.0  | 767.2  | 755.7  | 741.9  | 732.7  | 721.1  | 714.2  | 707.3  |
| 60°    | 728.0  | 728.0  | 723.4  | 711.9  | 700.4  | 688.9  | 675.1  | 668.1  | 656.6  | 652.0  | 645.1  |
| 62.5°  | 658.9  | 658.9  | 649.7  | 642.8  | 631.3  | 619.8  | 608.2  | 592.1  | 585.2  | 578.3  | 573.7  |
| 65°    | 580.6  | 580.6  | 571.4  | 569.1  | 557.6  | 546.0  | 536.8  | 532.2  | 523.0  | 516.1  | 509.2  |
| 67.5°  | 511.5  | 511.5  | 502.3  | 500.0  | 490.7  | 481.5  | 470.0  | 467.7  | 456.2  | 453.9  | 447.0  |
| 70°    | 442.4  | 444.7  | 437.7  | 430.8  | 423.9  | 417.0  | 407.8  | 400.9  | 394.0  | 391.7  | 387.1  |
| 72.5°  | 375.5  | 373.2  | 373.2  | 368.6  | 361.7  | 354.8  | 347.9  | 343.3  | 336.4  | 334.1  | 329.5  |
| 75°    | 313.3  | 311.0  | 308.7  | 308.7  | 301.8  | 294.9  | 290.3  | 288.0  | 281.1  | 276.5  | 274.2  |
| 77.5°  | 253.4  | 255.7  | 255.7  | 251.1  | 246.5  | 241.9  | 239.6  | 235.0  | 228.1  | 225.8  | 223.5  |
| 80°    | 200.4  | 202.7  | 202.7  | 198.1  | 195.8  | 191.2  | 186.6  | 186.6  | 179.7  | 179.7  | 177.4  |
| 82.5°  | 154.4  | 154.4  | 154.4  | 154.4  | 149.8  | 147.5  | 147.5  | 140.5  | 140.5  | 138.2  | 135.9  |
| 85°    | 119.8  | 119.8  | 119.8  | 122.1  | 119.8  | 117.5  | 117.5  | 112.9  | 110.6  | 108.3  | 106.0  |
| 87.5°  | 96.8   | 96.8   | 99.1   | 99.1   | 99.1   | 96.8   | 96.8   | 94.5   | 92.2   | 87.5   | 85.2   |
| 90°    | 73.7   | 76.0   | 76.0   | 78.3   | 78.3   | 78.3   | 76.0   | 73.7   | 71.4   | 69.1   | 66.8   |
| 92.5°  | 55.3   | 55.3   | 57.6   | 57.6   | 57.6   | 57.6   | 57.6   | 55.3   | 53.0   | 53.0   | 50.7   |
| 95°    | 34.6   | 36.9   | 36.9   | 36.9   | 39.2   | 39.2   | 39.2   | 39.2   | 36.9   | 34.6   | 34.6   |
| 97.5°  | 23.0   | 20.7   | 20.7   | 20.7   | 20.7   | 23.0   | 23.0   | 23.0   | 20.7   | 20.7   | 20.7   |
| 100°   | 13.8   | 11.5   | 11.5   | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    | 11.5   |
| 102.5° | 6.9    | 6.9    | 6.9    | 4.6    | 4.6    | 2.3    | 2.3    | 2.3    | 2.3    | 4.6    | 6.9    |
| 105°   | 2.3    | 2.3    | 2.3    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.3    | 2.3    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 200° | 202.5° | 205° | 210° | 215° | 220° | 225° | 230° | 235° | 240° | 245° |
|--------|------|--------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1640.4 | 1638.1 | 1640.4 | 1638.1 | 1638.1 | 1638.1 |
| 5°     | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1631.2 |
| 7.5°   | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1622.0 | 1622.0 |
| 10°    | 1610.5 | 1610.5 | 1610.5 | 1608.1 | 1610.5 | 1610.5 | 1608.1 | 1610.5 | 1608.1 | 1610.5 | 1610.5 |
| 12.5°  | 1592.0 | 1589.7 | 1589.7 | 1589.7 | 1589.7 | 1589.7 | 1589.7 | 1589.7 | 1589.7 | 1589.7 | 1592.0 |
| 15°    | 1569.0 | 1569.0 | 1566.7 | 1566.7 | 1564.4 | 1564.4 | 1564.4 | 1564.4 | 1566.7 | 1566.7 | 1569.0 |
| 17.5°  | 1541.3 | 1541.3 | 1541.3 | 1536.7 | 1539.0 | 1534.4 | 1536.7 | 1536.7 | 1539.0 | 1539.0 | 1541.3 |
| 20°    | 1509.1 | 1506.8 | 1506.8 | 1504.5 | 1502.2 | 1502.2 | 1504.5 | 1504.5 | 1509.1 | 1509.1 | 1511.4 |
| 22.5°  | 1474.5 | 1472.2 | 1472.2 | 1467.6 | 1465.3 | 1465.3 | 1467.6 | 1469.9 | 1474.5 | 1472.2 | 1476.8 |
| 25°    | 1433.1 | 1430.7 | 1430.7 | 1423.8 | 1428.4 | 1426.1 | 1423.8 | 1428.4 | 1430.7 | 1430.7 | 1435.4 |
| 27.5°  | 1389.3 | 1387.0 | 1384.7 | 1382.4 | 1382.4 | 1382.4 | 1380.1 | 1380.1 | 1387.0 | 1387.0 | 1391.6 |
| 30°    | 1343.2 | 1340.9 | 1338.6 | 1336.3 | 1334.0 | 1334.0 | 1331.7 | 1334.0 | 1338.6 | 1343.2 | 1345.5 |
| 32.5°  | 1294.8 | 1292.5 | 1285.6 | 1285.6 | 1285.6 | 1283.3 | 1283.3 | 1285.6 | 1290.2 | 1292.5 | 1297.1 |
| 35°    | 1241.8 | 1239.5 | 1234.9 | 1230.3 | 1232.6 | 1232.6 | 1230.3 | 1234.9 | 1239.5 | 1246.4 | 1246.4 |
| 37.5°  | 1188.8 | 1186.5 | 1181.9 | 1181.9 | 1177.3 | 1177.3 | 1175.0 | 1177.3 | 1186.5 | 1188.8 | 1193.4 |
| 40°    | 1131.2 | 1131.2 | 1126.6 | 1122.0 | 1122.0 | 1122.0 | 1119.7 | 1122.0 | 1126.6 | 1138.1 | 1138.1 |
| 42.5°  | 1075.9 | 1073.6 | 1066.7 | 1064.4 | 1062.1 | 1062.1 | 1062.1 | 1066.7 | 1066.7 | 1080.5 | 1080.5 |
| 45°    | 1016.0 | 1013.7 | 1006.8 | 1004.5 | 1004.5 | 1002.2 | 1002.2 | 1006.8 | 1009.1 | 1020.6 | 1020.6 |
| 47.5°  | 953.8  | 951.5  | 944.6  | 944.6  | 944.6  | 942.3  | 940.0  | 944.6  | 949.2  | 958.4  | 960.7  |
| 50°    | 893.9  | 889.3  | 884.7  | 882.4  | 880.1  | 880.1  | 877.8  | 884.7  | 889.3  | 898.5  | 896.2  |
| 52.5°  | 829.4  | 829.4  | 824.8  | 820.2  | 820.2  | 820.2  | 817.9  | 824.8  | 824.8  | 834.0  | 836.3  |
| 55°    | 767.2  | 762.6  | 760.3  | 758.0  | 755.7  | 755.7  | 755.7  | 760.3  | 760.3  | 771.8  | 771.8  |
| 57.5°  | 700.4  | 700.4  | 693.5  | 693.5  | 693.5  | 691.2  | 691.2  | 693.5  | 698.1  | 707.3  | 707.3  |
| 60°    | 638.2  | 638.2  | 629.0  | 631.3  | 629.0  | 629.0  | 629.0  | 631.3  | 633.6  | 642.8  | 642.8  |
| 62.5°  | 569.1  | 564.5  | 562.2  | 559.9  | 559.9  | 559.9  | 562.2  | 562.2  | 564.5  | 573.7  | 573.7  |
| 65°    | 506.9  | 502.3  | 500.0  | 500.0  | 497.7  | 497.7  | 497.7  | 500.0  | 502.3  | 509.2  | 509.2  |
| 67.5°  | 444.7  | 440.1  | 437.7  | 437.7  | 435.4  | 437.7  | 437.7  | 437.7  | 440.1  | 447.0  | 447.0  |
| 70°    | 384.8  | 382.5  | 375.5  | 377.8  | 375.5  | 377.8  | 377.8  | 375.5  | 377.8  | 384.8  | 384.8  |
| 72.5°  | 327.2  | 324.9  | 320.2  | 320.2  | 317.9  | 317.9  | 315.6  | 315.6  | 317.9  | 324.9  | 324.9  |
| 75°    | 271.9  | 267.3  | 265.0  | 265.0  | 262.6  | 258.0  | 262.6  | 260.3  | 260.3  | 267.3  | 267.3  |
| 77.5°  | 223.5  | 221.2  | 218.9  | 214.3  | 212.0  | 209.7  | 209.7  | 207.4  | 207.4  | 212.0  | 209.7  |
| 80°    | 175.1  | 170.5  | 168.2  | 168.2  | 165.9  | 163.6  | 161.3  | 159.0  | 159.0  | 161.3  | 161.3  |
| 82.5°  | 133.6  | 131.3  | 129.0  | 129.0  | 124.4  | 122.1  | 122.1  | 117.5  | 119.8  | 117.5  | 119.8  |
| 85°    | 106.0  | 101.4  | 99.1   | 96.8   | 94.5   | 89.9   | 89.9   | 85.2   | 85.2   | 82.9   | 82.9   |
| 87.5°  | 82.9   | 82.9   | 76.0   | 73.7   | 71.4   | 66.8   | 62.2   | 59.9   | 59.9   | 55.3   | 55.3   |
| 90°    | 64.5   | 64.5   | 59.9   | 57.6   | 53.0   | 48.4   | 46.1   | 41.5   | 39.2   | 36.9   | 34.6   |
| 92.5°  | 48.4   | 48.4   | 43.8   | 41.5   | 39.2   | 36.9   | 34.6   | 32.3   | 30.0   | 25.3   | 25.3   |
| 95°    | 34.6   | 32.3   | 30.0   | 30.0   | 27.6   | 27.6   | 25.3   | 23.0   | 20.7   | 18.4   | 18.4   |
| 97.5°  | 20.7   | 20.7   | 20.7   | 20.7   | 20.7   | 18.4   | 16.1   | 16.1   | 13.8   | 11.5   | 11.5   |
| 100°   | 11.5   | 11.5   | 11.5   | 13.8   | 11.5   | 11.5   | 11.5   | 9.2    | 9.2    | 6.9    | 6.9    |
| 102.5° | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 4.6    | 4.6    |
| 105°   | 2.3    | 2.3    | 2.3    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 2.3    | 2.3    | 2.3    |
| 107.5° | 0.0    | 0.0    | 0.0    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250° | 255° | 260° | 265° | 270° | 275° | 280° | 285° | 290° | 292.5° |
|--------|--------|------|------|------|------|------|------|------|------|------|--------|
| 112.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 115°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 117.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 120°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 122.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 125°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 127.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 130°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 132.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 135°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 137.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 140°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 142.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 145°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 147.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 150°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 152.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 155°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 157.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 160°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 162.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 165°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 167.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 170°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 172.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 175°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 177.5° | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
| 180°   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1638.1 | 1640.4 |
| 5°     | 1633.5 | 1633.5 | 1633.5 | 1633.5 | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1635.8 | 1635.8 |
| 7.5°   | 1622.0 | 1622.0 | 1624.3 | 1624.3 | 1626.6 | 1626.6 | 1626.6 | 1628.9 | 1628.9 | 1628.9 | 1628.9 |
| 10°    | 1610.5 | 1610.5 | 1612.8 | 1615.1 | 1615.1 | 1617.4 | 1617.4 | 1619.7 | 1619.7 | 1622.0 | 1622.0 |
| 12.5°  | 1592.0 | 1592.0 | 1596.6 | 1598.9 | 1598.9 | 1601.2 | 1603.5 | 1605.8 | 1605.8 | 1608.1 | 1608.1 |
| 15°    | 1569.0 | 1571.3 | 1573.6 | 1578.2 | 1580.5 | 1585.1 | 1585.1 | 1589.7 | 1592.0 | 1592.0 | 1594.3 |
| 17.5°  | 1541.3 | 1545.9 | 1550.6 | 1552.9 | 1557.5 | 1562.1 | 1564.4 | 1569.0 | 1573.6 | 1573.6 | 1575.9 |
| 20°    | 1511.4 | 1516.0 | 1522.9 | 1525.2 | 1529.8 | 1536.7 | 1539.0 | 1543.6 | 1548.2 | 1552.9 | 1552.9 |
| 22.5°  | 1479.1 | 1483.7 | 1488.3 | 1495.3 | 1499.9 | 1506.8 | 1511.4 | 1518.3 | 1525.2 | 1525.2 | 1529.8 |
| 25°    | 1437.7 | 1444.6 | 1451.5 | 1456.1 | 1463.0 | 1472.2 | 1479.1 | 1483.7 | 1493.0 | 1495.3 | 1497.6 |
| 27.5°  | 1393.9 | 1400.8 | 1410.0 | 1414.6 | 1423.8 | 1433.1 | 1442.3 | 1451.5 | 1458.4 | 1460.7 | 1465.3 |
| 30°    | 1347.8 | 1354.7 | 1363.9 | 1373.1 | 1382.4 | 1393.9 | 1403.1 | 1412.3 | 1423.8 | 1423.8 | 1428.4 |
| 32.5°  | 1301.7 | 1310.9 | 1320.2 | 1327.1 | 1336.3 | 1350.1 | 1361.6 | 1370.8 | 1380.1 | 1384.7 | 1389.3 |
| 35°    | 1251.0 | 1262.6 | 1271.8 | 1278.7 | 1290.2 | 1304.0 | 1315.5 | 1324.8 | 1336.3 | 1340.9 | 1347.8 |
| 37.5°  | 1195.7 | 1205.0 | 1218.8 | 1228.0 | 1244.1 | 1251.0 | 1264.9 | 1274.1 | 1290.2 | 1294.8 | 1299.4 |
| 40°    | 1142.8 | 1149.7 | 1163.5 | 1172.7 | 1184.2 | 1200.4 | 1211.9 | 1228.0 | 1239.5 | 1241.8 | 1248.7 |
| 42.5°  | 1082.9 | 1096.7 | 1105.9 | 1115.1 | 1126.6 | 1142.8 | 1154.3 | 1170.4 | 1186.5 | 1188.8 | 1195.7 |
| 45°    | 1025.3 | 1036.8 | 1046.0 | 1057.5 | 1069.0 | 1085.2 | 1101.3 | 1115.1 | 1126.6 | 1131.2 | 1138.1 |
| 47.5°  | 963.0  | 976.9  | 986.1  | 999.9  | 1013.7 | 1025.3 | 1041.4 | 1055.2 | 1066.7 | 1069.0 | 1078.2 |
| 50°    | 903.1  | 914.7  | 921.6  | 933.1  | 951.5  | 963.0  | 974.6  | 993.0  | 1002.2 | 1009.1 | 1013.7 |
| 52.5°  | 840.9  | 847.8  | 859.4  | 875.5  | 887.0  | 900.8  | 910.1  | 926.2  | 937.7  | 942.3  | 951.5  |
| 55°    | 778.7  | 787.9  | 792.6  | 804.1  | 822.5  | 829.4  | 847.8  | 857.1  | 873.2  | 873.2  | 877.8  |
| 57.5°  | 709.6  | 721.1  | 728.0  | 744.2  | 755.7  | 764.9  | 776.4  | 790.3  | 801.8  | 804.1  | 811.0  |
| 60°    | 647.4  | 656.6  | 663.5  | 679.7  | 688.9  | 698.1  | 709.6  | 723.4  | 732.7  | 735.0  | 744.2  |
| 62.5°  | 580.6  | 585.2  | 592.1  | 610.5  | 615.2  | 626.7  | 642.8  | 652.0  | 663.5  | 665.8  | 670.4  |
| 65°    | 516.1  | 523.0  | 525.3  | 539.1  | 543.7  | 552.9  | 569.1  | 578.3  | 585.2  | 589.8  | 589.8  |
| 67.5°  | 451.6  | 456.2  | 463.1  | 474.6  | 476.9  | 486.1  | 500.0  | 509.2  | 516.1  | 520.7  | 520.7  |
| 70°    | 384.8  | 391.7  | 398.6  | 410.1  | 410.1  | 421.6  | 430.8  | 440.1  | 449.3  | 451.6  | 453.9  |
| 72.5°  | 324.9  | 331.8  | 336.4  | 345.6  | 347.9  | 357.1  | 366.3  | 375.5  | 382.5  | 384.8  | 389.4  |
| 75°    | 269.6  | 271.9  | 274.2  | 283.4  | 285.7  | 299.5  | 304.1  | 311.0  | 317.9  | 320.2  | 320.2  |
| 77.5°  | 214.3  | 216.6  | 218.9  | 225.8  | 230.4  | 237.3  | 241.9  | 248.8  | 255.7  | 253.4  | 262.6  |
| 80°    | 163.6  | 163.6  | 165.9  | 172.8  | 177.4  | 182.0  | 186.6  | 191.2  | 195.8  | 198.1  | 205.1  |
| 82.5°  | 119.8  | 117.5  | 117.5  | 124.4  | 126.7  | 126.7  | 133.6  | 138.2  | 142.8  | 147.5  | 145.1  |
| 85°    | 82.9   | 80.6   | 80.6   | 82.9   | 82.9   | 87.5   | 89.9   | 92.2   | 96.8   | 99.1   | 99.1   |
| 87.5°  | 53.0   | 50.7   | 48.4   | 50.7   | 48.4   | 50.7   | 53.0   | 55.3   | 57.6   | 59.9   | 62.2   |
| 90°    | 34.6   | 30.0   | 27.6   | 27.6   | 25.3   | 25.3   | 25.3   | 25.3   | 27.6   | 27.6   | 30.0   |
| 92.5°  | 23.0   | 20.7   | 18.4   | 16.1   | 13.8   | 11.5   | 9.2    | 9.2    | 11.5   | 11.5   | 11.5   |
| 95°    | 16.1   | 13.8   | 11.5   | 9.2    | 6.9    | 6.9    | 4.6    | 2.3    | 2.3    | 2.3    | 2.3    |
| 97.5°  | 11.5   | 9.2    | 6.9    | 6.9    | 4.6    | 2.3    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 6.9    | 4.6    | 4.6    | 2.3    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 4.6    | 2.3    | 2.3    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 2.3    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 295° | 300° | 305° | 310° | 315° | 320° | 325° | 330° | 335° | 337.5° | 340° |
|--------|------|------|------|------|------|------|------|------|------|--------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|
| 0°     | 1640.4 | 1640.4 | 1640.4 | 1640.4 |
| 2.5°   | 1638.1 | 1638.1 | 1640.4 | 1638.1 |
| 5°     | 1635.8 | 1635.8 | 1638.1 | 1635.8 |
| 7.5°   | 1628.9 | 1628.9 | 1628.9 | 1628.9 |
| 10°    | 1622.0 | 1622.0 | 1624.3 | 1622.0 |
| 12.5°  | 1610.5 | 1612.8 | 1612.8 | 1612.8 |
| 15°    | 1596.6 | 1596.6 | 1596.6 | 1596.6 |
| 17.5°  | 1575.9 | 1578.2 | 1582.8 | 1580.5 |
| 20°    | 1555.2 | 1557.5 | 1562.1 | 1559.8 |
| 22.5°  | 1532.1 | 1534.4 | 1536.7 | 1534.4 |
| 25°    | 1502.2 | 1504.5 | 1506.8 | 1506.8 |
| 27.5°  | 1469.9 | 1476.8 | 1476.8 | 1474.5 |
| 30°    | 1433.1 | 1442.3 | 1444.6 | 1442.3 |
| 32.5°  | 1393.9 | 1403.1 | 1405.4 | 1403.1 |
| 35°    | 1354.7 | 1359.3 | 1366.2 | 1363.9 |
| 37.5°  | 1304.0 | 1313.2 | 1320.2 | 1320.2 |
| 40°    | 1255.6 | 1267.2 | 1271.8 | 1271.8 |
| 42.5°  | 1207.3 | 1211.9 | 1218.8 | 1218.8 |
| 45°    | 1149.7 | 1156.6 | 1163.5 | 1165.8 |
| 47.5°  | 1087.5 | 1096.7 | 1101.3 | 1103.6 |
| 50°    | 1025.3 | 1034.5 | 1039.1 | 1041.4 |
| 52.5°  | 963.0  | 967.7  | 974.6  | 976.9  |
| 55°    | 891.6  | 898.5  | 905.4  | 907.8  |
| 57.5°  | 820.2  | 829.4  | 834.0  | 836.3  |
| 60°    | 748.8  | 760.3  | 764.9  | 764.9  |
| 62.5°  | 679.7  | 686.6  | 691.2  | 688.9  |
| 65°    | 608.2  | 615.2  | 617.5  | 617.5  |
| 67.5°  | 529.9  | 539.1  | 541.4  | 541.4  |
| 70°    | 460.8  | 467.7  | 472.3  | 470.0  |
| 72.5°  | 394.0  | 400.9  | 403.2  | 403.2  |
| 75°    | 329.5  | 334.1  | 336.4  | 338.7  |
| 77.5°  | 265.0  | 271.9  | 274.2  | 278.8  |
| 80°    | 205.1  | 212.0  | 216.6  | 221.2  |
| 82.5°  | 152.1  | 156.7  | 163.6  | 165.9  |
| 85°    | 103.7  | 110.6  | 115.2  | 117.5  |
| 87.5°  | 64.5   | 69.1   | 73.7   | 78.3   |
| 90°    | 32.3   | 36.9   | 41.5   | 46.1   |
| 92.5°  | 13.8   | 16.1   | 18.4   | 23.0   |
| 95°    | 4.6    | 4.6    | 6.9    | 6.9    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P571968

CATALOG NUMBER: 22ID-45-L840-SWD

**CANDELA DISTRIBUTION (continued):**

|        | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  |

TEST NUMBER: P571968  
CATALOG NUMBER: 22ID-45-L840-SWD

**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 | 16.73            | 18.36 | 17.10 | 18.68 | 19.01 | 15.61          | 17.23 | 15.98 | 17.56 | 17.88 |
|                 | 3H   | 18.46            | 19.93 | 18.85 | 20.27 | 20.64 | 17.20          | 18.67 | 17.59 | 19.01 | 19.38 |
|                 | 4H   | 19.11            | 20.49 | 19.51 | 20.85 | 21.24 | 17.79          | 19.17 | 18.19 | 19.53 | 19.92 |
|                 | 6H   | 19.59            | 20.88 | 20.01 | 21.25 | 21.66 | 18.22          | 19.51 | 18.64 | 19.88 | 20.29 |
|                 | 8H   | 19.76            | 20.99 | 20.19 | 21.39 | 21.80 | 18.36          | 19.59 | 18.80 | 19.99 | 20.40 |
|                 | 12H  | 19.88            | 21.06 | 20.32 | 21.45 | 21.89 | 18.46          | 19.64 | 18.90 | 20.03 | 20.47 |
| 4H              | 2H   | 17.18            | 18.57 | 17.59 | 18.93 | 19.31 | 16.24          | 17.62 | 16.65 | 17.98 | 18.37 |
|                 | 3H   | 19.13            | 20.29 | 19.55 | 20.70 | 21.11 | 18.03          | 19.20 | 18.45 | 19.61 | 20.02 |
|                 | 4H   | 19.90            | 20.96 | 20.34 | 21.38 | 21.83 | 18.74          | 19.79 | 19.18 | 20.22 | 20.66 |
|                 | 6H   | 20.53            | 21.45 | 20.99 | 21.90 | 22.37 | 19.29          | 20.21 | 19.75 | 20.66 | 21.13 |
|                 | 8H   | 20.75            | 21.61 | 21.22 | 22.07 | 22.54 | 19.47          | 20.33 | 19.94 | 20.79 | 21.26 |
|                 | 12H  | 20.93            | 21.71 | 21.41 | 22.19 | 22.67 | 19.61          | 20.39 | 20.10 | 20.88 | 21.36 |
| 8H              | 4H   | 20.12            | 20.98 | 20.59 | 21.43 | 21.91 | 19.05          | 19.91 | 19.52 | 20.36 | 20.84 |
|                 | 6H   | 20.85            | 21.58 | 21.35 | 22.07 | 22.56 | 19.70          | 20.43 | 20.20 | 20.92 | 21.41 |
|                 | 8H   | 21.15            | 21.80 | 21.67 | 22.31 | 22.81 | 19.95          | 20.60 | 20.47 | 21.12 | 21.61 |
|                 | 12H  | 21.41            | 21.99 | 21.92 | 22.48 | 23.06 | 20.17          | 20.75 | 20.68 | 21.25 | 21.82 |
| 12H             | 4H   | 20.13            | 20.91 | 20.62 | 21.40 | 21.88 | 19.09          | 19.86 | 19.57 | 20.35 | 20.83 |
|                 | 6H   | 20.88            | 21.54 | 21.40 | 22.05 | 22.55 | 19.76          | 20.42 | 20.28 | 20.93 | 21.43 |
|                 | 8H   | 21.24            | 21.81 | 21.75 | 22.31 | 22.88 | 20.07          | 20.65 | 20.59 | 21.15 | 21.72 |