

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: HALO

Report Number: P1590565

Luminaire Tested: HCDLS1525CSD6TRH-LO-4000K

Issue Date: 9/4/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1590565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2603928B003)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/4/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: HCDLS1525CSD6TRH-LO-4000K  
Description: 6" Selectable Round Trim+ Haze (Semi-specular) 1500 Lumens 4000K  
  
Light Source:  
Ballast/Driver: -

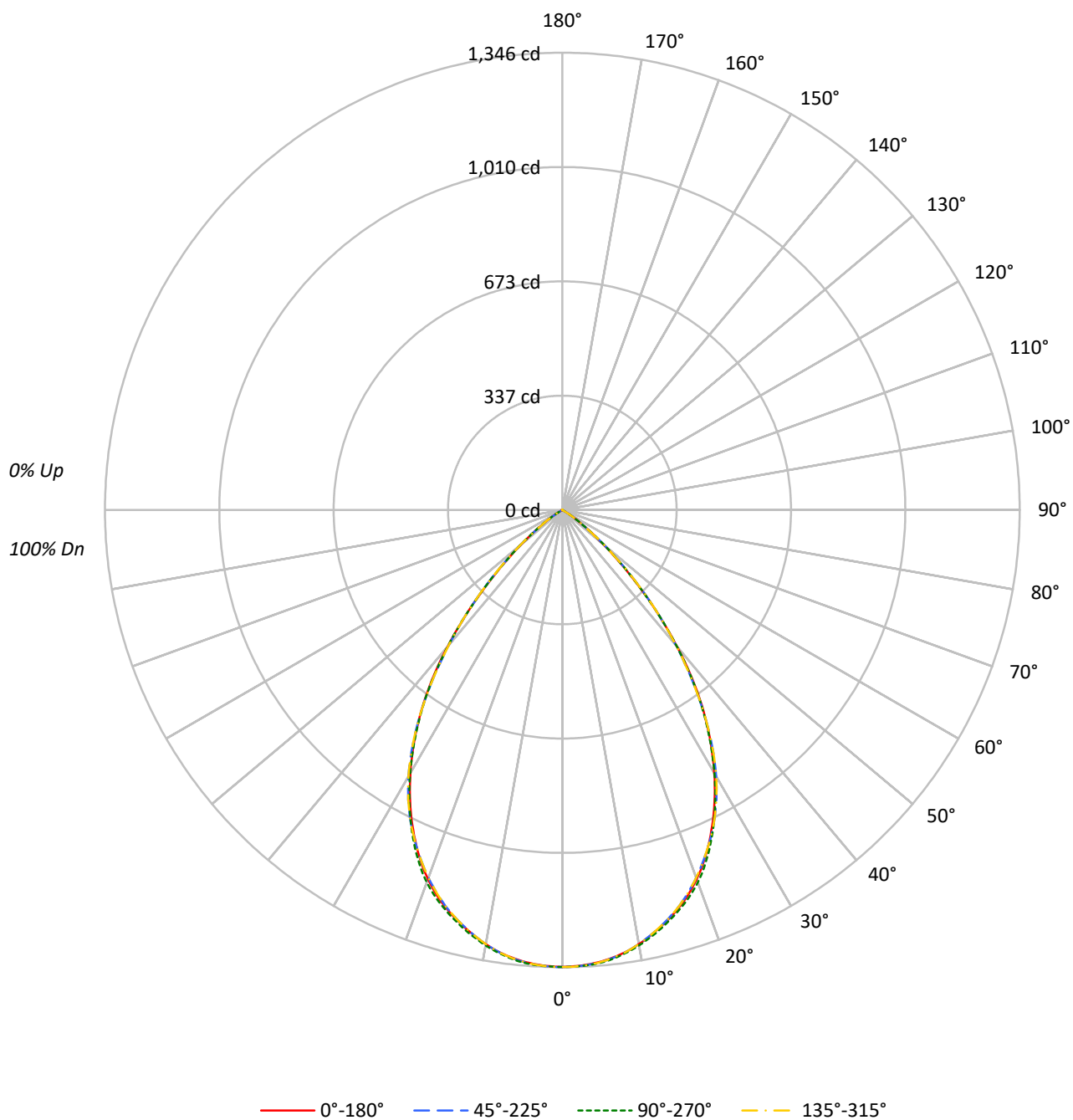
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1710.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.06  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.9  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

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

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|--|-----|-----|-----|--|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |  | 20  |     |     |  |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50  |     |     |  |  | 30  |     |     |  |  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  |  | 50  | 30  | 10  |  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 |  | 104 | 102 | 100 |  |  | 100 | 98  | 97  |  |  | 96  |
| 2   | 107 | 101 | 97  | 93  | 104 | 99  | 95  | 92  |  | 96  | 93  | 90  |  |  | 93  | 90  | 88  |  |  | 90  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  |  | 89  | 85  | 81  |  |  | 87  | 83  | 80  |  |  | 84  |
| 4   | 94  | 86  | 80  | 75  | 92  | 85  | 79  | 75  |  | 83  | 78  | 74  |  |  | 80  | 76  | 73  |  |  | 79  |
| 5   | 89  | 79  | 73  | 68  | 87  | 78  | 72  | 68  |  | 77  | 71  | 67  |  |  | 75  | 70  | 67  |  |  | 73  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  |  | 71  | 66  | 61  |  |  | 70  | 65  | 61  |  |  | 68  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  |  | 66  | 61  | 56  |  |  | 65  | 60  | 56  |  |  | 64  |
| 8   | 74  | 64  | 57  | 52  | 73  | 63  | 57  | 52  |  | 62  | 56  | 52  |  |  | 61  | 56  | 52  |  |  | 60  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  |  | 58  | 52  | 48  |  |  | 57  | 52  | 48  |  |  | 56  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  |  | 54  | 49  | 45  |  |  | 54  | 48  | 45  |  |  | 53  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 73750 | 73750 | 73750 | 73750 |
| 5°  | 73387 | 73569 | 73387 | 73569 |
| 10° | 72249 | 72438 | 72249 | 72438 |
| 15° | 70284 | 70608 | 70284 | 70608 |
| 20° | 67468 | 68063 | 67468 | 68063 |
| 25° | 62834 | 63312 | 62834 | 63312 |
| 30° | 56604 | 56711 | 56604 | 56711 |
| 35° | 48546 | 48292 | 48546 | 48292 |
| 40° | 37613 | 37599 | 37613 | 37599 |
| 45° | 24933 | 25003 | 24933 | 25003 |
| 50° | 13509 | 13842 | 13509 | 13842 |
| 55° | 5524  | 5486  | 5524  | 5486  |
| 60° | 614   | 515   | 614   | 515   |
| 65° | 91    | 65    | 91    | 65    |
| 70° | 32    | 16    | 32    | 16    |
| 75° | 0     | 0     | 0     | 0     |
| 80° | 0     | 0     | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 25328 cd/sqm

TEST NUMBER: P1590565

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.3  | 7.4       |
| 10°-20°   | 348.0  | 20.4      |
| 20°-30°   | 477.1  | 27.9      |
| 30°-40°   | 447.5  | 26.2      |
| 40°-50°   | 251.8  | 14.7      |
| 50°-60°   | 57.3   | 3.4       |
| 60°-70°   | 1.0    | 0.1       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.1    | 0.0       |
| 130°-140° | 0.2    | 0.0       |
| 140°-150° | 0.3    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-30°    | 951.4  | 55.6      |
| 0°-40°    | 1398.9 | 81.8      |
| 0°-60°    | 1707.9 | 99.9      |
| 0°-90°    | 1709.0 | 99.9      |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.5    | 0.0       |
| 90°-180°  | 1.0    | 0.1       |
| 0°-180°   | 1710.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1345 | 1345 | 1345 | 1345 | 1345 |      |
| 5°   | 1334 | 1337 | 1334 | 1337 | 1334 | 126  |
| 15°  | 1238 | 1244 | 1238 | 1244 | 1238 | 348  |
| 25°  | 1039 | 1047 | 1039 | 1047 | 1039 | 475  |
| 35°  | 725  | 722  | 725  | 722  | 725  | 447  |
| 45°  | 322  | 322  | 322  | 322  | 322  | 250  |
| 55°  | 58   | 57   | 58   | 57   | 58   | 58   |
| 65°  | 1    | 0    | 1    | 0    | 1    | 1    |
| 75°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 85°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 90°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 95°  | 0    | 0    | 0    | 0    | 0    | 0    |
| 105° | 0    | 0    | 0    | 0    | 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° | 1    | 1    | 1    | 1    | 1    | 0    |
| 165° | 1    | 1    | 1    | 1    | 1    | 0    |
| 175° | 1    | 1    | 1    | 1    | 1    | 0    |
| 180° | 1    | 1    | 1    | 1    | 1    |      |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 |
| 0.5°  | 1344.7 | 1345.0 | 1345.6 | 1345.5 | 1345.1 | 1345.5 | 1345.6 | 1345.0 | 1344.7 | 1345.0 | 1345.6 |
| 1°    | 1344.4 | 1344.6 | 1345.3 | 1345.2 | 1344.8 | 1345.2 | 1345.3 | 1344.6 | 1344.4 | 1344.6 | 1345.3 |
| 1.5°  | 1343.7 | 1344.0 | 1344.7 | 1344.8 | 1344.5 | 1344.8 | 1344.7 | 1344.0 | 1343.7 | 1344.0 | 1344.7 |
| 2°    | 1342.9 | 1343.3 | 1344.1 | 1344.2 | 1344.1 | 1344.2 | 1344.1 | 1343.3 | 1342.9 | 1343.3 | 1344.1 |
| 2.5°  | 1341.9 | 1342.3 | 1343.1 | 1343.5 | 1343.4 | 1343.5 | 1343.1 | 1342.3 | 1341.9 | 1342.3 | 1343.1 |
| 3°    | 1340.7 | 1341.1 | 1341.9 | 1342.4 | 1342.7 | 1342.4 | 1341.9 | 1341.1 | 1340.7 | 1341.1 | 1341.9 |
| 3.5°  | 1339.2 | 1339.6 | 1340.5 | 1341.2 | 1341.6 | 1341.2 | 1340.5 | 1339.6 | 1339.2 | 1339.6 | 1340.5 |
| 4°    | 1337.5 | 1338.1 | 1338.8 | 1339.6 | 1340.4 | 1339.6 | 1338.8 | 1338.1 | 1337.5 | 1338.1 | 1338.8 |
| 4.5°  | 1335.8 | 1336.1 | 1337.1 | 1337.8 | 1338.8 | 1337.8 | 1337.1 | 1336.1 | 1335.8 | 1336.1 | 1337.1 |
| 5°    | 1333.6 | 1334.0 | 1334.9 | 1335.8 | 1336.9 | 1335.8 | 1334.9 | 1334.0 | 1333.6 | 1334.0 | 1334.9 |
| 5.5°  | 1331.3 | 1331.7 | 1332.4 | 1333.2 | 1334.6 | 1333.2 | 1332.4 | 1331.7 | 1331.3 | 1331.7 | 1332.4 |
| 6°    | 1328.7 | 1329.2 | 1329.6 | 1330.4 | 1332.0 | 1330.4 | 1329.6 | 1329.2 | 1328.7 | 1329.2 | 1329.6 |
| 6.5°  | 1325.7 | 1326.5 | 1326.6 | 1327.3 | 1329.0 | 1327.3 | 1326.6 | 1326.5 | 1325.7 | 1326.5 | 1326.6 |
| 7°    | 1322.7 | 1323.4 | 1323.2 | 1323.9 | 1325.8 | 1323.9 | 1323.2 | 1323.4 | 1322.7 | 1323.4 | 1323.2 |
| 7.5°  | 1319.3 | 1320.1 | 1319.7 | 1320.3 | 1322.1 | 1320.3 | 1319.7 | 1320.1 | 1319.3 | 1320.1 | 1319.7 |
| 8°    | 1315.6 | 1316.4 | 1315.9 | 1316.3 | 1318.5 | 1316.3 | 1315.9 | 1316.4 | 1315.6 | 1316.4 | 1315.9 |
| 8.5°  | 1311.5 | 1312.6 | 1311.8 | 1312.3 | 1314.5 | 1312.3 | 1311.8 | 1312.6 | 1311.5 | 1312.6 | 1311.8 |
| 9°    | 1307.3 | 1308.3 | 1307.4 | 1308.0 | 1310.2 | 1308.0 | 1307.4 | 1308.3 | 1307.3 | 1308.3 | 1307.4 |
| 9.5°  | 1302.6 | 1303.8 | 1302.7 | 1303.6 | 1306.0 | 1303.6 | 1302.7 | 1303.8 | 1302.6 | 1303.8 | 1302.7 |
| 10°   | 1297.9 | 1299.0 | 1297.6 | 1298.9 | 1301.3 | 1298.9 | 1297.6 | 1299.0 | 1297.9 | 1299.0 | 1297.6 |
| 10.5° | 1292.8 | 1293.6 | 1292.4 | 1294.2 | 1296.4 | 1294.2 | 1292.4 | 1293.6 | 1292.8 | 1293.6 | 1292.4 |
| 11°   | 1287.4 | 1288.1 | 1286.9 | 1289.1 | 1291.4 | 1289.1 | 1286.9 | 1288.1 | 1287.4 | 1288.1 | 1286.9 |
| 11.5° | 1281.9 | 1282.4 | 1281.1 | 1283.9 | 1286.1 | 1283.9 | 1281.1 | 1282.4 | 1281.9 | 1282.4 | 1281.1 |
| 12°   | 1276.2 | 1276.5 | 1275.2 | 1278.6 | 1280.6 | 1278.6 | 1275.2 | 1276.5 | 1276.2 | 1276.5 | 1275.2 |
| 12.5° | 1270.2 | 1270.2 | 1269.1 | 1273.0 | 1274.9 | 1273.0 | 1269.1 | 1270.2 | 1270.2 | 1270.2 | 1269.1 |
| 13°   | 1264.2 | 1263.9 | 1262.8 | 1267.3 | 1269.3 | 1267.3 | 1262.8 | 1263.9 | 1264.2 | 1263.9 | 1262.8 |
| 13.5° | 1258.0 | 1257.2 | 1256.5 | 1261.5 | 1263.3 | 1261.5 | 1256.5 | 1257.2 | 1258.0 | 1257.2 | 1256.5 |
| 14°   | 1251.6 | 1250.6 | 1249.9 | 1255.2 | 1256.9 | 1255.2 | 1249.9 | 1250.6 | 1251.6 | 1250.6 | 1249.9 |
| 14.5° | 1245.2 | 1243.5 | 1243.1 | 1248.8 | 1250.7 | 1248.8 | 1243.1 | 1243.5 | 1245.2 | 1243.5 | 1243.1 |
| 15°   | 1238.4 | 1236.5 | 1236.1 | 1242.0 | 1244.1 | 1242.0 | 1236.1 | 1236.5 | 1238.4 | 1236.5 | 1236.1 |
| 15.5° | 1231.4 | 1229.2 | 1229.1 | 1235.3 | 1237.5 | 1235.3 | 1229.1 | 1229.2 | 1231.4 | 1229.2 | 1229.1 |
| 16°   | 1224.4 | 1221.8 | 1221.8 | 1227.9 | 1230.5 | 1227.9 | 1221.8 | 1221.8 | 1224.4 | 1221.8 | 1221.8 |
| 16.5° | 1217.2 | 1213.8 | 1214.0 | 1220.2 | 1223.6 | 1220.2 | 1214.0 | 1213.8 | 1217.2 | 1213.8 | 1214.0 |
| 17°   | 1209.9 | 1206.0 | 1205.9 | 1212.4 | 1216.4 | 1212.4 | 1205.9 | 1206.0 | 1209.9 | 1206.0 | 1205.9 |
| 17.5° | 1201.8 | 1198.0 | 1197.6 | 1204.1 | 1209.0 | 1204.1 | 1197.6 | 1198.0 | 1201.8 | 1198.0 | 1197.6 |
| 18°   | 1193.4 | 1189.6 | 1189.1 | 1195.6 | 1201.2 | 1195.6 | 1189.1 | 1189.6 | 1193.4 | 1189.6 | 1189.1 |
| 18.5° | 1184.6 | 1180.9 | 1180.2 | 1187.0 | 1193.0 | 1187.0 | 1180.2 | 1180.9 | 1184.6 | 1180.9 | 1180.2 |
| 19°   | 1175.7 | 1172.0 | 1171.0 | 1178.3 | 1184.6 | 1178.3 | 1171.0 | 1172.0 | 1175.7 | 1172.0 | 1171.0 |
| 19.5° | 1166.2 | 1162.7 | 1161.5 | 1169.3 | 1176.0 | 1169.3 | 1161.5 | 1162.7 | 1166.2 | 1162.7 | 1161.5 |
| 20°   | 1156.5 | 1153.1 | 1152.0 | 1159.8 | 1166.7 | 1159.8 | 1152.0 | 1153.1 | 1156.5 | 1153.1 | 1152.0 |
| 20.5° | 1146.3 | 1143.2 | 1142.1 | 1149.9 | 1156.4 | 1149.9 | 1142.1 | 1143.2 | 1146.3 | 1143.2 | 1142.1 |
| 21°   | 1135.9 | 1133.0 | 1131.8 | 1139.5 | 1146.0 | 1139.5 | 1131.8 | 1133.0 | 1135.9 | 1133.0 | 1131.8 |
| 21.5° | 1125.1 | 1122.4 | 1121.2 | 1128.9 | 1134.9 | 1128.9 | 1121.2 | 1122.4 | 1125.1 | 1122.4 | 1121.2 |
| 22°   | 1113.8 | 1111.5 | 1110.5 | 1117.7 | 1123.3 | 1117.7 | 1110.5 | 1111.5 | 1113.8 | 1111.5 | 1110.5 |

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CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1102.0 | 1100.2 | 1099.9 | 1106.6 | 1111.2 | 1106.6 | 1099.9 | 1100.2 | 1102.0 | 1100.2 | 1099.9 |
| 23°   | 1089.9 | 1088.9 | 1088.9 | 1095.1 | 1099.0 | 1095.1 | 1088.9 | 1088.9 | 1089.9 | 1088.9 | 1088.9 |
| 23.5° | 1077.6 | 1077.1 | 1077.8 | 1083.2 | 1086.5 | 1083.2 | 1077.8 | 1077.1 | 1077.6 | 1077.1 | 1077.8 |
| 24°   | 1064.8 | 1065.4 | 1066.7 | 1071.2 | 1073.5 | 1071.2 | 1066.7 | 1065.4 | 1064.8 | 1065.4 | 1066.7 |
| 24.5° | 1052.0 | 1053.4 | 1055.2 | 1058.9 | 1060.1 | 1058.9 | 1055.2 | 1053.4 | 1052.0 | 1053.4 | 1055.2 |
| 25°   | 1038.8 | 1041.0 | 1043.4 | 1046.3 | 1046.7 | 1046.3 | 1043.4 | 1041.0 | 1038.8 | 1041.0 | 1043.4 |
| 25.5° | 1025.5 | 1028.6 | 1031.4 | 1033.4 | 1032.6 | 1033.4 | 1031.4 | 1028.6 | 1025.5 | 1028.6 | 1031.4 |
| 26°   | 1012.0 | 1015.8 | 1019.0 | 1020.2 | 1018.5 | 1020.2 | 1019.0 | 1015.8 | 1012.0 | 1015.8 | 1019.0 |
| 26.5° | 998.1  | 1002.8 | 1006.2 | 1006.8 | 1003.9 | 1006.8 | 1006.2 | 1002.8 | 998.1  | 1002.8 | 1006.2 |
| 27°   | 984.1  | 989.5  | 993.1  | 993.1  | 989.2  | 993.1  | 993.1  | 989.5  | 984.1  | 989.5  | 993.1  |
| 27.5° | 969.9  | 975.7  | 979.6  | 979.1  | 974.4  | 979.1  | 979.6  | 975.7  | 969.9  | 975.7  | 979.6  |
| 28°   | 955.6  | 961.6  | 965.6  | 964.5  | 959.0  | 964.5  | 965.6  | 961.6  | 955.6  | 961.6  | 965.6  |
| 28.5° | 940.5  | 947.1  | 951.3  | 949.7  | 943.7  | 949.7  | 951.3  | 947.1  | 940.5  | 947.1  | 951.3  |
| 29°   | 925.4  | 932.4  | 936.5  | 934.5  | 928.2  | 934.5  | 936.5  | 932.4  | 925.4  | 932.4  | 936.5  |
| 29.5° | 909.9  | 917.1  | 921.4  | 919.0  | 912.5  | 919.0  | 921.4  | 917.1  | 909.9  | 917.1  | 921.4  |
| 30°   | 894.2  | 901.4  | 905.6  | 902.9  | 895.9  | 902.9  | 905.6  | 901.4  | 894.2  | 901.4  | 905.6  |
| 30.5° | 878.5  | 885.6  | 889.3  | 886.3  | 879.5  | 886.3  | 889.3  | 885.6  | 878.5  | 885.6  | 889.3  |
| 31°   | 862.2  | 869.2  | 872.7  | 869.4  | 862.4  | 869.4  | 872.7  | 869.2  | 862.2  | 869.2  | 872.7  |
| 31.5° | 845.9  | 852.6  | 855.6  | 852.3  | 845.4  | 852.3  | 855.6  | 852.6  | 845.9  | 852.6  | 855.6  |
| 32°   | 829.2  | 835.3  | 837.7  | 834.8  | 828.2  | 834.8  | 837.7  | 835.3  | 829.2  | 835.3  | 837.7  |
| 32.5° | 812.6  | 818.2  | 819.8  | 817.0  | 810.8  | 817.0  | 819.8  | 818.2  | 812.6  | 818.2  | 819.8  |
| 33°   | 795.5  | 800.1  | 801.3  | 799.0  | 793.2  | 799.0  | 801.3  | 800.1  | 795.5  | 800.1  | 801.3  |
| 33.5° | 778.9  | 782.2  | 782.8  | 780.5  | 775.4  | 780.5  | 782.8  | 782.2  | 778.9  | 782.2  | 782.8  |
| 34°   | 761.0  | 763.7  | 763.4  | 762.1  | 757.7  | 762.1  | 763.4  | 763.7  | 761.0  | 763.7  | 763.4  |
| 34.5° | 743.4  | 745.2  | 744.2  | 742.9  | 739.7  | 742.9  | 744.2  | 745.2  | 743.4  | 745.2  | 744.2  |
| 35°   | 725.4  | 725.8  | 724.2  | 723.9  | 721.6  | 723.9  | 724.2  | 725.8  | 725.4  | 725.8  | 724.2  |
| 35.5° | 707.1  | 706.5  | 704.2  | 704.5  | 703.4  | 704.5  | 704.2  | 706.5  | 707.1  | 706.5  | 704.2  |
| 36°   | 687.9  | 686.9  | 683.8  | 684.9  | 684.9  | 684.9  | 683.8  | 686.9  | 687.9  | 686.9  | 683.8  |
| 36.5° | 668.9  | 667.2  | 663.6  | 665.2  | 666.3  | 665.2  | 663.6  | 667.2  | 668.9  | 667.2  | 663.6  |
| 37°   | 649.5  | 647.0  | 642.7  | 645.7  | 647.0  | 645.7  | 642.7  | 647.0  | 649.5  | 647.0  | 642.7  |
| 37.5° | 629.5  | 626.9  | 622.1  | 625.8  | 627.1  | 625.8  | 622.1  | 626.9  | 629.5  | 626.9  | 622.1  |
| 38°   | 609.1  | 606.4  | 601.7  | 605.6  | 606.2  | 605.6  | 601.7  | 606.4  | 609.1  | 606.4  | 601.7  |
| 38.5° | 589.0  | 586.1  | 581.2  | 585.2  | 585.8  | 585.2  | 581.2  | 586.1  | 589.0  | 586.1  | 581.2  |
| 39°   | 568.3  | 564.6  | 560.9  | 564.8  | 565.6  | 564.8  | 560.9  | 564.6  | 568.3  | 564.6  | 560.9  |
| 39.5° | 546.8  | 544.0  | 540.8  | 544.4  | 545.4  | 544.4  | 540.8  | 544.0  | 546.8  | 544.0  | 540.8  |
| 40°   | 525.6  | 523.7  | 520.7  | 523.7  | 525.4  | 523.7  | 520.7  | 523.7  | 525.6  | 523.7  | 520.7  |
| 40.5° | 504.6  | 503.5  | 500.7  | 503.1  | 505.1  | 503.1  | 500.7  | 503.5  | 504.6  | 503.5  | 500.7  |
| 41°   | 483.3  | 483.2  | 480.5  | 482.5  | 484.2  | 482.5  | 480.5  | 483.2  | 483.3  | 483.2  | 480.5  |
| 41.5° | 462.2  | 462.8  | 460.2  | 462.1  | 463.5  | 462.1  | 460.2  | 462.8  | 462.2  | 462.8  | 460.2  |
| 42°   | 441.3  | 442.2  | 440.3  | 441.9  | 442.7  | 441.9  | 440.3  | 442.2  | 441.3  | 442.2  | 440.3  |
| 42.5° | 420.7  | 421.8  | 420.8  | 422.3  | 422.1  | 422.3  | 420.8  | 421.8  | 420.7  | 421.8  | 420.8  |
| 43°   | 400.3  | 401.3  | 401.5  | 402.7  | 401.3  | 402.7  | 401.5  | 401.3  | 400.3  | 401.3  | 401.5  |
| 43.5° | 380.2  | 381.4  | 382.3  | 383.2  | 380.8  | 383.2  | 382.3  | 381.4  | 380.2  | 381.4  | 382.3  |
| 44°   | 360.5  | 361.3  | 363.2  | 364.0  | 360.9  | 364.0  | 363.2  | 361.3  | 360.5  | 361.3  | 363.2  |
| 44.5° | 340.8  | 342.1  | 344.7  | 345.6  | 341.6  | 345.6  | 344.7  | 342.1  | 340.8  | 342.1  | 344.7  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 321.6 | 323.2 | 326.5 | 326.7 | 322.5 | 326.7  | 326.5 | 323.2  | 321.6 | 323.2  | 326.5 |
| 45.5° | 302.6 | 304.8 | 308.4 | 308.1 | 304.0 | 308.1  | 308.4 | 304.8  | 302.6 | 304.8  | 308.4 |
| 46°   | 284.0 | 286.7 | 290.3 | 290.1 | 285.8 | 290.1  | 290.3 | 286.7  | 284.0 | 286.7  | 290.3 |
| 46.5° | 266.1 | 269.1 | 272.6 | 272.5 | 268.4 | 272.5  | 272.6 | 269.1  | 266.1 | 269.1  | 272.6 |
| 47°   | 248.6 | 251.9 | 255.2 | 255.3 | 251.4 | 255.3  | 255.2 | 251.9  | 248.6 | 251.9  | 255.2 |
| 47.5° | 231.8 | 235.1 | 238.2 | 238.7 | 235.0 | 238.7  | 238.2 | 235.1  | 231.8 | 235.1  | 238.2 |
| 48°   | 215.4 | 218.8 | 221.6 | 222.1 | 219.1 | 222.1  | 221.6 | 218.8  | 215.4 | 218.8  | 221.6 |
| 48.5° | 200.0 | 203.0 | 205.3 | 206.5 | 203.9 | 206.5  | 205.3 | 203.0  | 200.0 | 203.0  | 205.3 |
| 49°   | 185.3 | 187.8 | 189.7 | 191.2 | 189.2 | 191.2  | 189.7 | 187.8  | 185.3 | 187.8  | 189.7 |
| 49.5° | 171.7 | 173.6 | 175.1 | 176.6 | 175.3 | 176.6  | 175.1 | 173.6  | 171.7 | 173.6  | 175.1 |
| 50°   | 158.4 | 159.9 | 161.1 | 162.9 | 162.3 | 162.9  | 161.1 | 159.9  | 158.4 | 159.9  | 161.1 |
| 50.5° | 145.4 | 146.4 | 147.4 | 149.4 | 149.5 | 149.4  | 147.4 | 146.4  | 145.4 | 146.4  | 147.4 |
| 51°   | 132.8 | 133.3 | 133.8 | 136.2 | 136.9 | 136.2  | 133.8 | 133.3  | 132.8 | 133.3  | 133.8 |
| 51.5° | 121.7 | 121.0 | 120.9 | 123.9 | 124.8 | 123.9  | 120.9 | 121.0  | 121.7 | 121.0  | 120.9 |
| 52°   | 110.7 | 109.8 | 108.9 | 112.0 | 112.9 | 112.0  | 108.9 | 109.8  | 110.7 | 109.8  | 108.9 |
| 52.5° | 100.6 | 99.2  | 98.0  | 101.1 | 102.1 | 101.1  | 98.0  | 99.2   | 100.6 | 99.2   | 98.0  |
| 53°   | 91.1  | 89.4  | 87.9  | 91.2  | 92.1  | 91.2   | 87.9  | 89.4   | 91.1  | 89.4   | 87.9  |
| 53.5° | 82.0  | 80.3  | 78.7  | 81.7  | 82.3  | 81.7   | 78.7  | 80.3   | 82.0  | 80.3   | 78.7  |
| 54°   | 73.4  | 71.8  | 70.3  | 72.9  | 73.4  | 72.9   | 70.3  | 71.8   | 73.4  | 71.8   | 70.3  |
| 54.5° | 65.4  | 63.9  | 62.5  | 64.7  | 65.1  | 64.7   | 62.5  | 63.9   | 65.4  | 63.9   | 62.5  |
| 55°   | 57.8  | 56.6  | 55.4  | 57.0  | 57.4  | 57.0   | 55.4  | 56.6   | 57.8  | 56.6   | 55.4  |
| 55.5° | 50.8  | 49.8  | 49.0  | 49.9  | 50.0  | 49.9   | 49.0  | 49.8   | 50.8  | 49.8   | 49.0  |
| 56°   | 44.5  | 43.8  | 42.8  | 43.6  | 43.6  | 43.6   | 42.8  | 43.8   | 44.5  | 43.8   | 42.8  |
| 56.5° | 38.5  | 38.2  | 37.2  | 37.6  | 37.6  | 37.6   | 37.2  | 38.2   | 38.5  | 38.2   | 37.2  |
| 57°   | 33.0  | 32.7  | 31.6  | 31.8  | 32.1  | 31.8   | 31.6  | 32.7   | 33.0  | 32.7   | 31.6  |
| 57.5° | 27.5  | 27.3  | 26.2  | 26.2  | 26.5  | 26.2   | 26.2  | 27.3   | 27.5  | 27.3   | 26.2  |
| 58°   | 21.9  | 22.0  | 21.2  | 21.1  | 20.9  | 21.1   | 21.2  | 22.0   | 21.9  | 22.0   | 21.2  |
| 58.5° | 17.0  | 17.2  | 16.0  | 16.1  | 16.0  | 16.1   | 16.0  | 17.2   | 17.0  | 17.2   | 16.0  |
| 59°   | 12.0  | 12.3  | 11.0  | 11.1  | 11.1  | 11.1   | 11.0  | 12.3   | 12.0  | 12.3   | 11.0  |
| 59.5° | 8.4   | 8.3   | 7.0   | 7.0   | 7.4   | 7.0    | 7.0   | 8.3    | 8.4   | 8.3    | 7.0   |
| 60°   | 5.6   | 5.5   | 4.7   | 4.2   | 4.7   | 4.2    | 4.7   | 5.5    | 5.6   | 5.5    | 4.7   |
| 60.5° | 3.5   | 3.9   | 3.1   | 2.9   | 3.8   | 2.9    | 3.1   | 3.9    | 3.5   | 3.9    | 3.1   |
| 61°   | 2.9   | 3.2   | 2.4   | 2.3   | 3.0   | 2.3    | 2.4   | 3.2    | 2.9   | 3.2    | 2.4   |
| 61.5° | 2.4   | 2.5   | 1.8   | 1.8   | 2.3   | 1.8    | 1.8   | 2.5    | 2.4   | 2.5    | 1.8   |
| 62°   | 1.9   | 1.9   | 1.4   | 1.3   | 1.7   | 1.3    | 1.4   | 1.9    | 1.9   | 1.9    | 1.4   |
| 62.5° | 1.3   | 1.5   | 1.1   | 1.0   | 1.0   | 1.0    | 1.1   | 1.5    | 1.3   | 1.5    | 1.1   |
| 63°   | 1.1   | 1.1   | 1.0   | 0.9   | 0.8   | 0.9    | 1.0   | 1.1    | 1.1   | 1.1    | 1.0   |
| 63.5° | 1.0   | 1.0   | 0.8   | 0.8   | 0.7   | 0.8    | 0.8   | 1.0    | 1.0   | 1.0    | 0.8   |
| 64°   | 0.9   | 0.8   | 0.7   | 0.7   | 0.6   | 0.7    | 0.7   | 0.8    | 0.9   | 0.8    | 0.7   |
| 64.5° | 0.8   | 0.7   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.7    | 0.8   | 0.7    | 0.6   |
| 65°   | 0.7   | 0.6   | 0.6   | 0.5   | 0.5   | 0.5    | 0.6   | 0.6    | 0.7   | 0.6    | 0.6   |
| 65.5° | 0.6   | 0.6   | 0.5   | 0.5   | 0.4   | 0.5    | 0.5   | 0.6    | 0.6   | 0.6    | 0.5   |
| 66°   | 0.5   | 0.5   | 0.4   | 0.4   | 0.4   | 0.4    | 0.4   | 0.5    | 0.5   | 0.5    | 0.4   |
| 66.5° | 0.5   | 0.5   | 0.4   | 0.4   | 0.3   | 0.4    | 0.4   | 0.5    | 0.5   | 0.5    | 0.4   |
| 67°   | 0.4   | 0.4   | 0.4   | 0.3   | 0.3   | 0.3    | 0.4   | 0.4    | 0.4   | 0.4    | 0.4   |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 0.4 | 0.4   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.4    | 0.4  | 0.4    | 0.3  |
| 68°   | 0.3 | 0.3   | 0.3 | 0.2   | 0.2 | 0.2    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 68.5° | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  | 0.3    | 0.2  |
| 69°   | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  | 0.3    | 0.2  |
| 69.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 70°   | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 | 0.1    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 70.5° | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.2    | 0.2  | 0.2    | 0.1  |
| 71°   | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.2    | 0.2  | 0.2    | 0.1  |
| 71.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 72°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 72.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 73°   | 0.1 | 0.1   | 0.1 | 0.0   | 0.0 | 0.0    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 73.5° | 0.1 | 0.1   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.1    | 0.1  | 0.1    | 0.0  |
| 74°   | 0.1 | 0.1   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.1    | 0.1  | 0.1    | 0.0  |
| 74.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 90°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98.5°  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99°    | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99.5°  | 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  |
| 100.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102°   | 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  |
| 103°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104.5° | 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  |
| 105.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107°   | 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  |
| 108°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109.5° | 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  |
| 110.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 112°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 112.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114.5° | 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  |
| 115.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117°   | 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  |
| 118°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119.5° | 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  |
| 120.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121.5° | 0.1 | 0.0   | 0.0 | 0.1   | 0.0 | 0.1    | 0.0  | 0.0    | 0.1  | 0.0    | 0.0  |
| 122°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 122.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 123°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 123.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 124°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 124.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 125°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 125.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128.5° | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129°   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 132°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 132.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 133°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 133.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 134°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 134.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 135°   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 135.5° | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 136°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 136.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 137°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 137.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 138°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 138.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 139°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 139.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 140°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 140.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 141°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 141.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.3 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 142°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 142.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 143°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 143.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 144°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 144.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 145°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 145.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 146°   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 146.5° | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 147°   | 0.5 | 0.5   | 0.4 | 0.4   | 0.4 | 0.4    | 0.4  | 0.5    | 0.5  | 0.5    | 0.4  |
| 147.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 148°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 148.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 149°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 149.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 150°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 150.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 151°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 151.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 152°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 152.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 153°   | 0.6 | 0.6   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.6    | 0.6  | 0.6    | 0.5  |
| 153.5° | 0.6 | 0.6   | 0.6 | 0.5   | 0.5 | 0.5    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 154°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.5 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 154.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 155°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 155.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 156°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 156.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 157°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 157.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 158°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 158.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 159°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 159.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 160°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 160.5° | 0.7 | 0.7   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.7    | 0.7  | 0.7    | 0.6  |
| 161°   | 0.7 | 0.7   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.7    | 0.7  | 0.7    | 0.6  |
| 161.5° | 0.7 | 0.7   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.7    | 0.7  | 0.7    | 0.6  |
| 162°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 162.5° | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 163°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 163.5° | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 164°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 164.5° | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 165°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 165.5° | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 166°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 166.5° | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 167°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 167.5° | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 168°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 168.5° | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 169°   | 0.7 | 0.7   | 0.7 | 0.6   | 0.6 | 0.6    | 0.7  | 0.7    | 0.7  | 0.7    | 0.7  |
| 169.5° | 0.7 | 0.7   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.7    | 0.7  | 0.7    | 0.6  |
| 170°   | 0.7 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.7  | 0.6    | 0.6  |
| 170.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 171°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 171.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 172°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 172.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 173°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 173.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 174°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 174.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 175°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 175.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 176°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 176.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 177°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 177.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 178°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 178.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 179°   | 0.6 | 0.6   | 0.6 | 0.6   | 0.7 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 179.5° | 0.6 | 0.6   | 0.6 | 0.6   | 0.7 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |



TEST NUMBER: P1590565  
CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

|      | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 180° | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 | 1345.3 |
| 0.5°  | 1345.5 | 1345.1 | 1345.5 | 1345.6 | 1345.0 | 1344.7 |
| 1°    | 1345.2 | 1344.8 | 1345.2 | 1345.3 | 1344.6 | 1344.4 |
| 1.5°  | 1344.8 | 1344.5 | 1344.8 | 1344.7 | 1344.0 | 1343.7 |
| 2°    | 1344.2 | 1344.1 | 1344.2 | 1344.1 | 1343.3 | 1342.9 |
| 2.5°  | 1343.5 | 1343.4 | 1343.5 | 1343.1 | 1342.3 | 1341.9 |
| 3°    | 1342.4 | 1342.7 | 1342.4 | 1341.9 | 1341.1 | 1340.7 |
| 3.5°  | 1341.2 | 1341.6 | 1341.2 | 1340.5 | 1339.6 | 1339.2 |
| 4°    | 1339.6 | 1340.4 | 1339.6 | 1338.8 | 1338.1 | 1337.5 |
| 4.5°  | 1337.8 | 1338.8 | 1337.8 | 1337.1 | 1336.1 | 1335.8 |
| 5°    | 1335.8 | 1336.9 | 1335.8 | 1334.9 | 1334.0 | 1333.6 |
| 5.5°  | 1333.2 | 1334.6 | 1333.2 | 1332.4 | 1331.7 | 1331.3 |
| 6°    | 1330.4 | 1332.0 | 1330.4 | 1329.6 | 1329.2 | 1328.7 |
| 6.5°  | 1327.3 | 1329.0 | 1327.3 | 1326.6 | 1326.5 | 1325.7 |
| 7°    | 1323.9 | 1325.8 | 1323.9 | 1323.2 | 1323.4 | 1322.7 |
| 7.5°  | 1320.3 | 1322.1 | 1320.3 | 1319.7 | 1320.1 | 1319.3 |
| 8°    | 1316.3 | 1318.5 | 1316.3 | 1315.9 | 1316.4 | 1315.6 |
| 8.5°  | 1312.3 | 1314.5 | 1312.3 | 1311.8 | 1312.6 | 1311.5 |
| 9°    | 1308.0 | 1310.2 | 1308.0 | 1307.4 | 1308.3 | 1307.3 |
| 9.5°  | 1303.6 | 1306.0 | 1303.6 | 1302.7 | 1303.8 | 1302.6 |
| 10°   | 1298.9 | 1301.3 | 1298.9 | 1297.6 | 1299.0 | 1297.9 |
| 10.5° | 1294.2 | 1296.4 | 1294.2 | 1292.4 | 1293.6 | 1292.8 |
| 11°   | 1289.1 | 1291.4 | 1289.1 | 1286.9 | 1288.1 | 1287.4 |
| 11.5° | 1283.9 | 1286.1 | 1283.9 | 1281.1 | 1282.4 | 1281.9 |
| 12°   | 1278.6 | 1280.6 | 1278.6 | 1275.2 | 1276.5 | 1276.2 |
| 12.5° | 1273.0 | 1274.9 | 1273.0 | 1269.1 | 1270.2 | 1270.2 |
| 13°   | 1267.3 | 1269.3 | 1267.3 | 1262.8 | 1263.9 | 1264.2 |
| 13.5° | 1261.5 | 1263.3 | 1261.5 | 1256.5 | 1257.2 | 1258.0 |
| 14°   | 1255.2 | 1256.9 | 1255.2 | 1249.9 | 1250.6 | 1251.6 |
| 14.5° | 1248.8 | 1250.7 | 1248.8 | 1243.1 | 1243.5 | 1245.2 |
| 15°   | 1242.0 | 1244.1 | 1242.0 | 1236.1 | 1236.5 | 1238.4 |
| 15.5° | 1235.3 | 1237.5 | 1235.3 | 1229.1 | 1229.2 | 1231.4 |
| 16°   | 1227.9 | 1230.5 | 1227.9 | 1221.8 | 1221.8 | 1224.4 |
| 16.5° | 1220.2 | 1223.6 | 1220.2 | 1214.0 | 1213.8 | 1217.2 |
| 17°   | 1212.4 | 1216.4 | 1212.4 | 1205.9 | 1206.0 | 1209.9 |
| 17.5° | 1204.1 | 1209.0 | 1204.1 | 1197.6 | 1198.0 | 1201.8 |
| 18°   | 1195.6 | 1201.2 | 1195.6 | 1189.1 | 1189.6 | 1193.4 |
| 18.5° | 1187.0 | 1193.0 | 1187.0 | 1180.2 | 1180.9 | 1184.6 |
| 19°   | 1178.3 | 1184.6 | 1178.3 | 1171.0 | 1172.0 | 1175.7 |
| 19.5° | 1169.3 | 1176.0 | 1169.3 | 1161.5 | 1162.7 | 1166.2 |
| 20°   | 1159.8 | 1166.7 | 1159.8 | 1152.0 | 1153.1 | 1156.5 |
| 20.5° | 1149.9 | 1156.4 | 1149.9 | 1142.1 | 1143.2 | 1146.3 |
| 21°   | 1139.5 | 1146.0 | 1139.5 | 1131.8 | 1133.0 | 1135.9 |
| 21.5° | 1128.9 | 1134.9 | 1128.9 | 1121.2 | 1122.4 | 1125.1 |
| 22°   | 1117.7 | 1123.3 | 1117.7 | 1110.5 | 1111.5 | 1113.8 |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1106.6 | 1111.2 | 1106.6 | 1099.9 | 1100.2 | 1102.0 |
| 23°   | 1095.1 | 1099.0 | 1095.1 | 1088.9 | 1088.9 | 1089.9 |
| 23.5° | 1083.2 | 1086.5 | 1083.2 | 1077.8 | 1077.1 | 1077.6 |
| 24°   | 1071.2 | 1073.5 | 1071.2 | 1066.7 | 1065.4 | 1064.8 |
| 24.5° | 1058.9 | 1060.1 | 1058.9 | 1055.2 | 1053.4 | 1052.0 |
| 25°   | 1046.3 | 1046.7 | 1046.3 | 1043.4 | 1041.0 | 1038.8 |
| 25.5° | 1033.4 | 1032.6 | 1033.4 | 1031.4 | 1028.6 | 1025.5 |
| 26°   | 1020.2 | 1018.5 | 1020.2 | 1019.0 | 1015.8 | 1012.0 |
| 26.5° | 1006.8 | 1003.9 | 1006.8 | 1006.2 | 1002.8 | 998.1  |
| 27°   | 993.1  | 989.2  | 993.1  | 993.1  | 989.5  | 984.1  |
| 27.5° | 979.1  | 974.4  | 979.1  | 979.6  | 975.7  | 969.9  |
| 28°   | 964.5  | 959.0  | 964.5  | 965.6  | 961.6  | 955.6  |
| 28.5° | 949.7  | 943.7  | 949.7  | 951.3  | 947.1  | 940.5  |
| 29°   | 934.5  | 928.2  | 934.5  | 936.5  | 932.4  | 925.4  |
| 29.5° | 919.0  | 912.5  | 919.0  | 921.4  | 917.1  | 909.9  |
| 30°   | 902.9  | 895.9  | 902.9  | 905.6  | 901.4  | 894.2  |
| 30.5° | 886.3  | 879.5  | 886.3  | 889.3  | 885.6  | 878.5  |
| 31°   | 869.4  | 862.4  | 869.4  | 872.7  | 869.2  | 862.2  |
| 31.5° | 852.3  | 845.4  | 852.3  | 855.6  | 852.6  | 845.9  |
| 32°   | 834.8  | 828.2  | 834.8  | 837.7  | 835.3  | 829.2  |
| 32.5° | 817.0  | 810.8  | 817.0  | 819.8  | 818.2  | 812.6  |
| 33°   | 799.0  | 793.2  | 799.0  | 801.3  | 800.1  | 795.5  |
| 33.5° | 780.5  | 775.4  | 780.5  | 782.8  | 782.2  | 778.9  |
| 34°   | 762.1  | 757.7  | 762.1  | 763.4  | 763.7  | 761.0  |
| 34.5° | 742.9  | 739.7  | 742.9  | 744.2  | 745.2  | 743.4  |
| 35°   | 723.9  | 721.6  | 723.9  | 724.2  | 725.8  | 725.4  |
| 35.5° | 704.5  | 703.4  | 704.5  | 704.2  | 706.5  | 707.1  |
| 36°   | 684.9  | 684.9  | 684.9  | 683.8  | 686.9  | 687.9  |
| 36.5° | 665.2  | 666.3  | 665.2  | 663.6  | 667.2  | 668.9  |
| 37°   | 645.7  | 647.0  | 645.7  | 642.7  | 647.0  | 649.5  |
| 37.5° | 625.8  | 627.1  | 625.8  | 622.1  | 626.9  | 629.5  |
| 38°   | 605.6  | 606.2  | 605.6  | 601.7  | 606.4  | 609.1  |
| 38.5° | 585.2  | 585.8  | 585.2  | 581.2  | 586.1  | 589.0  |
| 39°   | 564.8  | 565.6  | 564.8  | 560.9  | 564.6  | 568.3  |
| 39.5° | 544.4  | 545.4  | 544.4  | 540.8  | 544.0  | 546.8  |
| 40°   | 523.7  | 525.4  | 523.7  | 520.7  | 523.7  | 525.6  |
| 40.5° | 503.1  | 505.1  | 503.1  | 500.7  | 503.5  | 504.6  |
| 41°   | 482.5  | 484.2  | 482.5  | 480.5  | 483.2  | 483.3  |
| 41.5° | 462.1  | 463.5  | 462.1  | 460.2  | 462.8  | 462.2  |
| 42°   | 441.9  | 442.7  | 441.9  | 440.3  | 442.2  | 441.3  |
| 42.5° | 422.3  | 422.1  | 422.3  | 420.8  | 421.8  | 420.7  |
| 43°   | 402.7  | 401.3  | 402.7  | 401.5  | 401.3  | 400.3  |
| 43.5° | 383.2  | 380.8  | 383.2  | 382.3  | 381.4  | 380.2  |
| 44°   | 364.0  | 360.9  | 364.0  | 363.2  | 361.3  | 360.5  |
| 44.5° | 345.6  | 341.6  | 345.6  | 344.7  | 342.1  | 340.8  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 326.7  | 322.5 | 326.7  | 326.5 | 323.2  | 321.6 |
| 45.5° | 308.1  | 304.0 | 308.1  | 308.4 | 304.8  | 302.6 |
| 46°   | 290.1  | 285.8 | 290.1  | 290.3 | 286.7  | 284.0 |
| 46.5° | 272.5  | 268.4 | 272.5  | 272.6 | 269.1  | 266.1 |
| 47°   | 255.3  | 251.4 | 255.3  | 255.2 | 251.9  | 248.6 |
| 47.5° | 238.7  | 235.0 | 238.7  | 238.2 | 235.1  | 231.8 |
| 48°   | 222.1  | 219.1 | 222.1  | 221.6 | 218.8  | 215.4 |
| 48.5° | 206.5  | 203.9 | 206.5  | 205.3 | 203.0  | 200.0 |
| 49°   | 191.2  | 189.2 | 191.2  | 189.7 | 187.8  | 185.3 |
| 49.5° | 176.6  | 175.3 | 176.6  | 175.1 | 173.6  | 171.7 |
| 50°   | 162.9  | 162.3 | 162.9  | 161.1 | 159.9  | 158.4 |
| 50.5° | 149.4  | 149.5 | 149.4  | 147.4 | 146.4  | 145.4 |
| 51°   | 136.2  | 136.9 | 136.2  | 133.8 | 133.3  | 132.8 |
| 51.5° | 123.9  | 124.8 | 123.9  | 120.9 | 121.0  | 121.7 |
| 52°   | 112.0  | 112.9 | 112.0  | 108.9 | 109.8  | 110.7 |
| 52.5° | 101.1  | 102.1 | 101.1  | 98.0  | 99.2   | 100.6 |
| 53°   | 91.2   | 92.1  | 91.2   | 87.9  | 89.4   | 91.1  |
| 53.5° | 81.7   | 82.3  | 81.7   | 78.7  | 80.3   | 82.0  |
| 54°   | 72.9   | 73.4  | 72.9   | 70.3  | 71.8   | 73.4  |
| 54.5° | 64.7   | 65.1  | 64.7   | 62.5  | 63.9   | 65.4  |
| 55°   | 57.0   | 57.4  | 57.0   | 55.4  | 56.6   | 57.8  |
| 55.5° | 49.9   | 50.0  | 49.9   | 49.0  | 49.8   | 50.8  |
| 56°   | 43.6   | 43.6  | 43.6   | 42.8  | 43.8   | 44.5  |
| 56.5° | 37.6   | 37.6  | 37.6   | 37.2  | 38.2   | 38.5  |
| 57°   | 31.8   | 32.1  | 31.8   | 31.6  | 32.7   | 33.0  |
| 57.5° | 26.2   | 26.5  | 26.2   | 26.2  | 27.3   | 27.5  |
| 58°   | 21.1   | 20.9  | 21.1   | 21.2  | 22.0   | 21.9  |
| 58.5° | 16.1   | 16.0  | 16.1   | 16.0  | 17.2   | 17.0  |
| 59°   | 11.1   | 11.1  | 11.1   | 11.0  | 12.3   | 12.0  |
| 59.5° | 7.0    | 7.4   | 7.0    | 7.0   | 8.3    | 8.4   |
| 60°   | 4.2    | 4.7   | 4.2    | 4.7   | 5.5    | 5.6   |
| 60.5° | 2.9    | 3.8   | 2.9    | 3.1   | 3.9    | 3.5   |
| 61°   | 2.3    | 3.0   | 2.3    | 2.4   | 3.2    | 2.9   |
| 61.5° | 1.8    | 2.3   | 1.8    | 1.8   | 2.5    | 2.4   |
| 62°   | 1.3    | 1.7   | 1.3    | 1.4   | 1.9    | 1.9   |
| 62.5° | 1.0    | 1.0   | 1.0    | 1.1   | 1.5    | 1.3   |
| 63°   | 0.9    | 0.8   | 0.9    | 1.0   | 1.1    | 1.1   |
| 63.5° | 0.8    | 0.7   | 0.8    | 0.8   | 1.0    | 1.0   |
| 64°   | 0.7    | 0.6   | 0.7    | 0.7   | 0.8    | 0.9   |
| 64.5° | 0.6    | 0.6   | 0.6    | 0.6   | 0.7    | 0.8   |
| 65°   | 0.5    | 0.5   | 0.5    | 0.6   | 0.6    | 0.7   |
| 65.5° | 0.5    | 0.4   | 0.5    | 0.5   | 0.6    | 0.6   |
| 66°   | 0.4    | 0.4   | 0.4    | 0.4   | 0.5    | 0.5   |
| 66.5° | 0.4    | 0.3   | 0.4    | 0.4   | 0.5    | 0.5   |
| 67°   | 0.3    | 0.3   | 0.3    | 0.4   | 0.4    | 0.4   |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.4    | 0.4  |
| 68°   | 0.2    | 0.2  | 0.2    | 0.3  | 0.3    | 0.3  |
| 68.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.3    | 0.3  |
| 69°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.3    | 0.3  |
| 69.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 70°   | 0.1    | 0.1  | 0.1    | 0.2  | 0.2    | 0.2  |
| 70.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.2    | 0.2  |
| 71°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.2    | 0.2  |
| 71.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 72°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 72.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 73°   | 0.0    | 0.0  | 0.0    | 0.1  | 0.1    | 0.1  |
| 73.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.1    | 0.1  |
| 74°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.1    | 0.1  |
| 74.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 75.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 76.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 78.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 79.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 80.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 81.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 83.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 86.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 88.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 89.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 90°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 91.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 92.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 93.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 94.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 95.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 96.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 97.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 98.5°  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99°    | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 99.5°  | 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  |
| 100.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 101.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 102°   | 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  |
| 103°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 103.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 104.5° | 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  |
| 105.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 106.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 107°   | 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  |
| 108°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 108.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 109.5° | 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  |
| 110.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 111.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 112°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 113.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 114.5° | 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  |
| 115.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 116.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117°   | 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  |
| 118°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 118.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 119.5° | 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  |
| 120.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 121.5° | 0.1    | 0.0  | 0.1    | 0.0  | 0.0    | 0.1  |
| 122°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 122.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 123°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 123.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 124°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 124.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 125°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 125.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 126.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 127.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 128.5° | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129°   | 0.1    | 0.1  | 0.1    | 0.1  | 0.1    | 0.1  |
| 129.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 130.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 131.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 132°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 132.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 133°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 133.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 134°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 134.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 135°   | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 135.5° | 0.2    | 0.2  | 0.2    | 0.2  | 0.2    | 0.2  |
| 136°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 136.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 137°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 137.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 138°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 138.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 139°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 139.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 140°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 140.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 141°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 141.5° | 0.4    | 0.3  | 0.4    | 0.4  | 0.4    | 0.4  |
| 142°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 142.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 143°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 143.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 144°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 144.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 145°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 145.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 146°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 146.5° | 0.4    | 0.4  | 0.4    | 0.4  | 0.4    | 0.4  |
| 147°   | 0.4    | 0.4  | 0.4    | 0.4  | 0.5    | 0.5  |
| 147.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 148°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 148.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 149°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 149.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 150°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 150.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 151°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 151.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 152°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 152.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 153°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.6    | 0.6  |
| 153.5° | 0.5    | 0.5  | 0.5    | 0.6  | 0.6    | 0.6  |
| 154°   | 0.6    | 0.5  | 0.6    | 0.6  | 0.6    | 0.6  |
| 154.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 155°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 155.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 156°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 156.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 157°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 157.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 158°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 158.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 159°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 159.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 160°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 160.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.7    | 0.7  |
| 161°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.7    | 0.7  |
| 161.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.7    | 0.7  |
| 162°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 162.5° | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 163°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 163.5° | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 164°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 164.5° | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 165°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 165.5° | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 166°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 166.5° | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 167°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 167.5° | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 168°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 168.5° | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 169°   | 0.6    | 0.6  | 0.6    | 0.7  | 0.7    | 0.7  |
| 169.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.7    | 0.7  |
| 170°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.7  |
| 170.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 171°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 171.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 172°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 172.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 173°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 173.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 174°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 174.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 175°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 175.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 176°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 176.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 177°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 177.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 178°   | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 178.5° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |
| 179°   | 0.6    | 0.7  | 0.6    | 0.6  | 0.6    | 0.6  |
| 179.5° | 0.6    | 0.7  | 0.6    | 0.6  | 0.6    | 0.6  |



TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**CANDELA DISTRIBUTION (continued):**

|      | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|------|--------|------|--------|------|--------|------|
| 180° | 0.6    | 0.6  | 0.6    | 0.6  | 0.6    | 0.6  |

TEST NUMBER: P1590565

CATALOG NUMBER: HCDLS1525CSD6TRH-LO-4000K

**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 | 7.8              | 8.9 | 8.1 | 9.2 | 9.5 | 7.5            | 8.6 | 7.9 | 8.9 | 9.2 |
|                 | 3H   | 7.6              | 8.6 | 8.0 | 8.9 | 9.3 | 7.3            | 8.3 | 7.7 | 8.6 | 9.0 |
|                 | 4H   | 7.5              | 8.4 | 7.9 | 8.8 | 9.2 | 7.2            | 8.1 | 7.6 | 8.5 | 8.9 |
|                 | 6H   | 7.4              | 8.3 | 7.8 | 8.6 | 9.0 | 7.1            | 8.0 | 7.6 | 8.3 | 8.7 |
|                 | 8H   | 7.4              | 8.1 | 7.8 | 8.5 | 9.0 | 7.1            | 7.9 | 7.5 | 8.3 | 8.7 |
|                 | 12H  | 7.3              | 8.1 | 7.8 | 8.4 | 8.9 | 7.0            | 7.8 | 7.5 | 8.2 | 8.6 |
| 4H              | 2H   | 7.5              | 8.4 | 7.9 | 8.8 | 9.2 | 7.2            | 8.1 | 7.6 | 8.5 | 8.9 |
|                 | 3H   | 7.3              | 8.1 | 7.8 | 8.5 | 8.9 | 7.1            | 7.8 | 7.5 | 8.2 | 8.6 |
|                 | 4H   | 7.2              | 7.9 | 7.7 | 8.3 | 8.8 | 6.9            | 7.6 | 7.4 | 8.0 | 8.5 |
|                 | 6H   | 7.1              | 7.7 | 7.6 | 8.1 | 8.6 | 6.8            | 7.4 | 7.3 | 7.9 | 8.3 |
|                 | 8H   | 7.1              | 7.6 | 7.5 | 8.0 | 8.5 | 6.8            | 7.3 | 7.3 | 7.7 | 8.2 |
|                 | 12H  | 7.0              | 7.5 | 7.5 | 7.9 | 8.4 | 6.7            | 7.2 | 7.2 | 7.7 | 8.1 |
| 8H              | 4H   | 7.1              | 7.6 | 7.5 | 8.0 | 8.5 | 6.8            | 7.3 | 7.3 | 7.7 | 8.2 |
|                 | 6H   | 6.9              | 7.4 | 7.5 | 7.9 | 8.3 | 6.7            | 7.1 | 7.2 | 7.6 | 8.1 |
|                 | 8H   | 6.9              | 7.2 | 7.4 | 7.8 | 8.3 | 6.6            | 7.0 | 7.1 | 7.5 | 8.0 |
|                 | 12H  | 6.8              | 7.1 | 7.3 | 7.6 | 8.2 | 6.5            | 6.9 | 7.0 | 7.4 | 7.9 |
| 12H             | 4H   | 7.0              | 7.5 | 7.5 | 7.9 | 8.4 | 6.7            | 7.2 | 7.2 | 7.7 | 8.1 |
|                 | 6H   | 6.9              | 7.2 | 7.4 | 7.7 | 8.3 | 6.6            | 7.0 | 7.1 | 7.4 | 8.0 |
|                 | 8H   | 6.8              | 7.1 | 7.3 | 7.6 | 8.2 | 6.5            | 6.9 | 7.0 | 7.4 | 7.9 |















































(END OF REPORT)