

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 COMMERCIAL

Report Number: P776068

Luminaire Tested: HCDJBS1525CSD-HCD62TRMB-2500lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B058)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD62TRMB-2500lm-4000K  
Description: 6 INCH ROUND NARROW MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

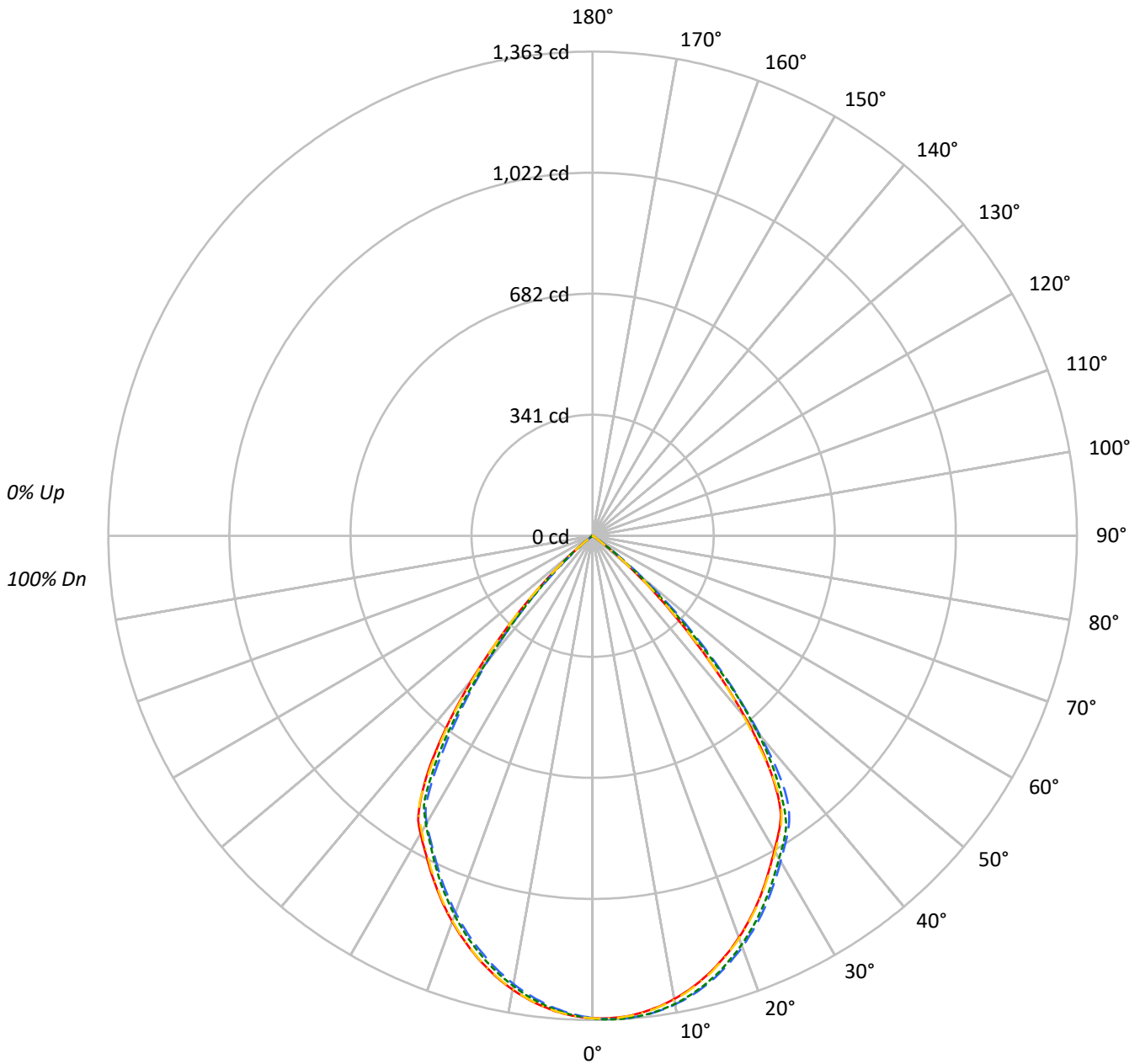
Lumens per Lamp: N/A  
Luminaire Lumens: 1773.7 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.11  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776068  
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P776068

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMB-2500lm-4000K

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |     | 0   |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 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 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 100 | 96  | 92  | 96  | 93  | 90  | 93  | 91  | 88  | 91  | 88  | 86  | 85  | 85  | 85  | 85  |
| 3   | 101 | 94  | 88  | 84  | 98  | 92  | 87  | 83  | 89  | 85  | 82  | 87  | 83  | 80  | 85  | 82  | 79  | 77  | 77  | 77  | 77  |
| 4   | 95  | 86  | 80  | 76  | 93  | 85  | 80  | 75  | 83  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 71  | 71  | 71  | 71  |
| 5   | 89  | 80  | 73  | 69  | 87  | 79  | 73  | 68  | 77  | 72  | 68  | 75  | 71  | 67  | 74  | 70  | 66  | 65  | 65  | 65  | 65  |
| 6   | 84  | 74  | 67  | 63  | 82  | 73  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 62  | 69  | 64  | 61  | 60  | 60  | 60  | 60  |
| 7   | 79  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  | 55  | 55  | 55  |
| 8   | 75  | 64  | 57  | 53  | 73  | 63  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 60  | 56  | 52  | 51  | 51  | 51  | 51  |
| 9   | 70  | 60  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 48  | 56  | 52  | 48  | 47  | 47  | 47  | 47  |
| 10  | 67  | 56  | 50  | 45  | 66  | 55  | 49  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 44  | 44  | 44  | 44  |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 74462 | 74462 | 74462 | 74462 |
| 5°  | 74450 | 74840 | 73696 | 73426 |
| 10° | 73696 | 74464 | 72210 | 71642 |
| 15° | 72265 | 73321 | 70086 | 69229 |
| 20° | 70216 | 71488 | 67451 | 66307 |
| 25° | 67631 | 69089 | 64322 | 62798 |
| 30° | 64782 | 66441 | 61320 | 59389 |
| 35° | 61302 | 63008 | 53813 | 50815 |
| 40° | 47961 | 51625 | 37656 | 33377 |
| 45° | 28212 | 32569 | 19017 | 16692 |
| 50° | 11113 | 13432 | 5552  | 5578  |
| 55° | 1625  | 2112  | 459   | 564   |
| 60° | 362   | 395   | 340   | 274   |
| 65° | 259   | 259   | 233   | 195   |
| 70° | 208   | 208   | 160   | 160   |
| 75° | 169   | 169   | 106   | 106   |
| 80° | 95    | 95    | 95    | 95    |
| 85° | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 36019 cd/sqm



TEST NUMBER: P776068

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.4  | 7.2       |
| 10°-20°   | 352.7  | 19.9      |
| 20°-30°   | 501.5  | 28.3      |
| 30°-40°   | 517.9  | 29.2      |
| 40°-50°   | 247.5  | 14.0      |
| 50°-60°   | 23.9   | 1.3       |
| 60°-70°   | 1.9    | 0.1       |
| 70°-80°   | 0.7    | 0.0       |
| 80°-90°   | 0.1    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 981.7  | 55.3      |
| 0°-40°    | 1499.6 | 84.5      |
| 0°-60°    | 1771.0 | 99.8      |
| 0°-90°    | 1773.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1773.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1358 | 1358 | 1358 | 1358 | 1358 |      |
| 5°  | 1353 | 1360 | 1339 | 1334 | 1353 | 128  |
| 15° | 1273 | 1292 | 1235 | 1220 | 1273 | 358  |
| 25° | 1118 | 1142 | 1063 | 1038 | 1118 | 514  |
| 35° | 916  | 942  | 804  | 759  | 916  | 555  |
| 45° | 364  | 420  | 245  | 215  | 364  | 285  |
| 55° | 17   | 22   | 5    | 6    | 17   | 31   |
| 65° | 2    | 2    | 2    | 2    | 2    | 2    |
| 75° | 1    | 1    | 0    | 0    | 1    | 1    |
| 85° | 0    | 0    | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P776068

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 |
| 0.5°  | 1358.5 | 1358.5 | 1358.8 | 1358.3 | 1360.3 | 1359.8 | 1359.0 | 1358.8 | 1357.3 | 1356.5 | 1355.5 |
| 1°    | 1359.0 | 1359.3 | 1359.8 | 1359.5 | 1361.3 | 1360.3 | 1359.5 | 1358.5 | 1356.2 | 1355.0 | 1353.9 |
| 1.5°  | 1359.0 | 1359.8 | 1360.6 | 1360.6 | 1361.8 | 1360.8 | 1359.8 | 1358.0 | 1354.7 | 1353.2 | 1351.7 |
| 2°    | 1359.0 | 1360.3 | 1361.3 | 1361.6 | 1362.6 | 1361.3 | 1359.5 | 1357.0 | 1353.4 | 1351.1 | 1349.4 |
| 2.5°  | 1358.5 | 1360.3 | 1361.8 | 1362.1 | 1362.6 | 1361.3 | 1359.3 | 1355.7 | 1351.7 | 1349.1 | 1346.8 |
| 3°    | 1357.8 | 1360.3 | 1361.8 | 1362.3 | 1362.6 | 1361.1 | 1358.5 | 1354.7 | 1349.6 | 1346.6 | 1344.0 |
| 3.5°  | 1357.0 | 1359.8 | 1361.8 | 1362.6 | 1362.3 | 1360.6 | 1357.8 | 1353.2 | 1347.6 | 1344.0 | 1341.0 |
| 4°    | 1356.0 | 1359.0 | 1361.3 | 1362.3 | 1361.8 | 1360.0 | 1356.7 | 1351.1 | 1345.0 | 1341.0 | 1337.7 |
| 4.5°  | 1354.7 | 1358.0 | 1360.8 | 1362.1 | 1361.3 | 1359.0 | 1355.5 | 1349.1 | 1342.5 | 1337.7 | 1334.3 |
| 5°    | 1352.9 | 1356.7 | 1360.0 | 1361.3 | 1360.0 | 1357.8 | 1353.9 | 1346.8 | 1339.2 | 1334.3 | 1330.8 |
| 5.5°  | 1351.1 | 1355.7 | 1359.3 | 1360.6 | 1358.8 | 1356.5 | 1352.2 | 1344.5 | 1335.9 | 1330.5 | 1326.7 |
| 6°    | 1349.1 | 1354.2 | 1358.0 | 1359.3 | 1357.5 | 1355.0 | 1350.1 | 1342.2 | 1332.6 | 1327.0 | 1322.4 |
| 6.5°  | 1346.6 | 1352.4 | 1356.5 | 1358.3 | 1355.7 | 1352.9 | 1348.1 | 1339.2 | 1329.0 | 1322.9 | 1317.8 |
| 7°    | 1344.0 | 1350.1 | 1354.7 | 1356.7 | 1353.9 | 1350.9 | 1345.5 | 1336.1 | 1325.2 | 1318.3 | 1313.2 |
| 7.5°  | 1341.2 | 1347.8 | 1352.7 | 1355.0 | 1351.7 | 1348.6 | 1343.0 | 1332.8 | 1321.1 | 1313.7 | 1308.4 |
| 8°    | 1338.4 | 1345.3 | 1350.6 | 1353.2 | 1349.6 | 1346.1 | 1339.9 | 1329.3 | 1316.5 | 1309.2 | 1303.6 |
| 8.5°  | 1335.1 | 1342.5 | 1348.1 | 1350.6 | 1346.8 | 1343.3 | 1336.9 | 1325.4 | 1312.0 | 1304.1 | 1298.2 |
| 9°    | 1331.6 | 1339.7 | 1345.5 | 1348.3 | 1344.0 | 1340.5 | 1333.3 | 1321.1 | 1307.6 | 1299.0 | 1292.9 |
| 9.5°  | 1328.0 | 1336.4 | 1342.7 | 1345.5 | 1341.0 | 1336.9 | 1329.8 | 1317.0 | 1302.5 | 1293.6 | 1287.0 |
| 10°   | 1323.9 | 1332.8 | 1339.4 | 1342.5 | 1337.7 | 1333.6 | 1326.0 | 1312.2 | 1297.2 | 1288.0 | 1281.4 |
| 10.5° | 1319.8 | 1329.0 | 1336.1 | 1339.4 | 1334.1 | 1330.0 | 1321.9 | 1307.6 | 1291.9 | 1281.9 | 1275.3 |
| 11°   | 1315.5 | 1325.2 | 1332.8 | 1335.9 | 1330.3 | 1326.0 | 1317.6 | 1302.8 | 1286.3 | 1276.1 | 1269.0 |
| 11.5° | 1311.2 | 1321.1 | 1328.8 | 1332.3 | 1326.2 | 1321.6 | 1313.2 | 1297.7 | 1280.7 | 1270.0 | 1262.3 |
| 12°   | 1306.4 | 1316.5 | 1324.9 | 1328.5 | 1321.9 | 1317.6 | 1308.4 | 1292.4 | 1274.6 | 1263.9 | 1256.0 |
| 12.5° | 1301.0 | 1312.0 | 1320.6 | 1324.4 | 1317.6 | 1313.0 | 1303.3 | 1286.8 | 1268.4 | 1257.3 | 1248.9 |
| 13°   | 1295.9 | 1307.1 | 1316.0 | 1320.1 | 1312.7 | 1308.4 | 1298.2 | 1281.2 | 1262.1 | 1250.4 | 1242.2 |
| 13.5° | 1290.6 | 1302.3 | 1311.2 | 1315.8 | 1307.9 | 1303.1 | 1293.1 | 1274.8 | 1255.2 | 1243.8 | 1235.1 |
| 14°   | 1285.0 | 1297.2 | 1306.4 | 1310.7 | 1302.8 | 1298.0 | 1287.3 | 1269.0 | 1248.6 | 1236.6 | 1227.7 |
| 14.5° | 1279.1 | 1291.9 | 1301.0 | 1305.9 | 1297.2 | 1292.1 | 1281.4 | 1262.6 | 1241.7 | 1229.5 | 1220.1 |
| 15°   | 1273.3 | 1286.3 | 1295.9 | 1300.5 | 1291.9 | 1286.3 | 1275.6 | 1255.7 | 1234.9 | 1222.1 | 1212.5 |
| 15.5° | 1267.2 | 1280.2 | 1290.6 | 1294.9 | 1286.3 | 1280.2 | 1269.2 | 1249.1 | 1227.7 | 1214.5 | 1205.1 |
| 16°   | 1260.6 | 1274.0 | 1284.5 | 1289.3 | 1280.2 | 1274.0 | 1262.8 | 1242.2 | 1220.1 | 1206.9 | 1197.2 |
| 16.5° | 1253.9 | 1267.9 | 1278.4 | 1283.5 | 1274.0 | 1267.9 | 1256.5 | 1235.1 | 1212.7 | 1198.7 | 1189.3 |
| 17°   | 1247.3 | 1261.6 | 1272.0 | 1277.6 | 1267.4 | 1261.6 | 1249.6 | 1228.0 | 1205.1 | 1191.1 | 1180.9 |
| 17.5° | 1240.5 | 1255.0 | 1265.9 | 1271.2 | 1260.8 | 1254.7 | 1242.7 | 1220.9 | 1197.2 | 1183.2 | 1172.5 |
| 18°   | 1233.6 | 1248.1 | 1259.3 | 1264.6 | 1253.9 | 1247.8 | 1235.6 | 1213.2 | 1189.3 | 1174.8 | 1163.9 |
| 18.5° | 1226.5 | 1241.0 | 1252.4 | 1258.0 | 1247.1 | 1240.5 | 1228.0 | 1205.6 | 1181.2 | 1166.4 | 1155.5 |
| 19°   | 1218.6 | 1234.1 | 1245.8 | 1251.4 | 1239.9 | 1233.6 | 1220.9 | 1197.7 | 1173.0 | 1157.8 | 1146.8 |
| 19.5° | 1211.2 | 1227.0 | 1238.7 | 1244.3 | 1232.8 | 1226.0 | 1213.5 | 1189.8 | 1164.6 | 1149.4 | 1137.7 |
| 20°   | 1203.6 | 1219.6 | 1231.6 | 1237.1 | 1225.4 | 1218.6 | 1205.9 | 1181.4 | 1156.2 | 1140.5 | 1128.5 |
| 20.5° | 1195.7 | 1212.0 | 1224.2 | 1229.8 | 1217.8 | 1210.7 | 1198.0 | 1173.5 | 1147.3 | 1131.3 | 1119.3 |
| 21°   | 1188.0 | 1204.3 | 1216.5 | 1222.4 | 1209.7 | 1203.1 | 1189.8 | 1164.9 | 1138.4 | 1122.4 | 1109.9 |

TEST NUMBER: P776068

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1162.8 | 1180.2 | 1192.9 | 1198.5 | 1185.5 | 1178.6 | 1164.9 | 1138.9 | 1111.2 | 1094.1 | 1081.4 |
| 23°   | 1154.2 | 1171.2 | 1184.7 | 1190.6 | 1177.1 | 1170.2 | 1156.2 | 1130.0 | 1101.5 | 1084.5 | 1071.2 |
| 23.5° | 1145.3 | 1162.8 | 1176.3 | 1181.9 | 1168.4 | 1161.6 | 1147.6 | 1120.9 | 1092.1 | 1074.8 | 1061.3 |
| 24°   | 1136.1 | 1153.9 | 1167.9 | 1174.0 | 1159.8 | 1152.9 | 1138.7 | 1111.7 | 1082.4 | 1065.1 | 1051.1 |
| 24.5° | 1127.2 | 1145.5 | 1159.3 | 1165.4 | 1150.9 | 1144.0 | 1129.8 | 1102.5 | 1073.0 | 1055.0 | 1041.2 |
| 25°   | 1118.1 | 1136.4 | 1150.6 | 1156.5 | 1142.2 | 1135.1 | 1120.6 | 1093.1 | 1063.4 | 1045.3 | 1030.8 |
| 25.5° | 1108.7 | 1127.2 | 1141.5 | 1147.6 | 1133.1 | 1126.0 | 1111.4 | 1083.7 | 1053.4 | 1035.1 | 1020.6 |
| 26°   | 1099.5 | 1118.6 | 1132.6 | 1138.7 | 1124.2 | 1116.8 | 1102.3 | 1074.0 | 1043.8 | 1025.2 | 1010.4 |
| 26.5° | 1089.8 | 1109.4 | 1123.4 | 1129.8 | 1115.0 | 1107.4 | 1092.9 | 1064.6 | 1034.1 | 1015.0 | 1000.8 |
| 27°   | 1080.4 | 1100.3 | 1114.2 | 1120.6 | 1105.9 | 1098.2 | 1083.5 | 1055.0 | 1023.9 | 1005.3 | 990.6  |
| 27.5° | 1070.7 | 1090.6 | 1105.1 | 1111.2 | 1096.4 | 1088.8 | 1074.0 | 1045.0 | 1014.5 | 995.7  | 980.9  |
| 28°   | 1061.3 | 1081.2 | 1095.7 | 1102.0 | 1086.8 | 1079.6 | 1064.4 | 1035.6 | 1005.1 | 986.5  | 971.2  |
| 28.5° | 1051.4 | 1071.8 | 1086.5 | 1092.4 | 1077.1 | 1070.0 | 1055.0 | 1026.5 | 996.2  | 977.1  | 962.3  |
| 29°   | 1041.7 | 1062.3 | 1077.1 | 1083.2 | 1067.9 | 1060.6 | 1045.8 | 1017.0 | 987.0  | 967.7  | 952.7  |
| 29.5° | 1032.6 | 1052.9 | 1067.7 | 1074.0 | 1058.8 | 1051.4 | 1036.9 | 1008.1 | 977.6  | 958.3  | 943.3  |
| 30°   | 1023.4 | 1043.8 | 1058.5 | 1064.6 | 1049.6 | 1042.5 | 1027.7 | 999.0  | 968.7  | 949.1  | 933.8  |
| 30.5° | 1014.2 | 1034.6 | 1049.4 | 1055.5 | 1040.7 | 1033.3 | 1019.1 | 990.3  | 959.5  | 939.4  | 923.4  |
| 31°   | 1005.3 | 1026.0 | 1040.7 | 1046.6 | 1032.3 | 1024.7 | 1010.2 | 981.4  | 949.9  | 929.3  | 912.7  |
| 31.5° | 996.2  | 1017.0 | 1031.8 | 1037.9 | 1023.4 | 1016.0 | 1001.5 | 972.3  | 939.7  | 916.8  | 899.0  |
| 32°   | 987.3  | 1008.1 | 1022.9 | 1029.0 | 1014.8 | 1007.4 | 992.6  | 962.6  | 924.9  | 900.0  | 880.4  |
| 32.5° | 978.4  | 999.2  | 1014.5 | 1020.6 | 1005.9 | 998.7  | 983.5  | 952.2  | 908.4  | 880.4  | 859.0  |
| 33°   | 969.0  | 990.3  | 1005.6 | 1011.4 | 996.7  | 988.8  | 973.5  | 939.7  | 889.8  | 858.0  | 834.6  |
| 33.5° | 958.8  | 981.2  | 996.7  | 1003.1 | 986.3  | 978.9  | 962.8  | 924.4  | 870.0  | 834.1  | 809.4  |
| 34°   | 947.8  | 971.0  | 986.8  | 993.4  | 974.0  | 967.2  | 950.9  | 907.4  | 849.6  | 808.7  | 782.4  |
| 34.5° | 933.1  | 960.0  | 976.6  | 983.0  | 958.5  | 953.4  | 937.7  | 888.0  | 827.5  | 783.7  | 755.7  |
| 35°   | 916.0  | 947.1  | 964.6  | 970.0  | 941.5  | 937.1  | 922.4  | 867.9  | 804.1  | 758.5  | 728.2  |
| 35.5° | 897.5  | 932.6  | 951.7  | 954.7  | 923.2  | 919.3  | 905.1  | 846.3  | 779.6  | 733.1  | 702.0  |
| 36°   | 876.8  | 915.0  | 935.9  | 937.4  | 904.8  | 900.0  | 885.0  | 823.4  | 752.9  | 708.4  | 674.0  |
| 36.5° | 856.2  | 896.2  | 918.8  | 918.8  | 885.2  | 878.9  | 861.3  | 798.7  | 725.7  | 683.7  | 647.3  |
| 37°   | 833.6  | 874.3  | 899.0  | 899.2  | 865.4  | 856.7  | 834.4  | 773.3  | 697.5  | 657.0  | 620.4  |
| 37.5° | 809.7  | 850.9  | 876.8  | 879.4  | 844.0  | 832.8  | 805.3  | 745.5  | 670.2  | 630.5  | 593.6  |
| 38°   | 784.0  | 824.4  | 850.9  | 858.3  | 822.4  | 808.1  | 774.0  | 716.5  | 641.7  | 602.3  | 565.9  |
| 38.5° | 757.0  | 796.7  | 824.2  | 835.9  | 798.2  | 782.2  | 744.0  | 685.7  | 613.2  | 574.3  | 537.9  |
| 39°   | 728.8  | 766.4  | 794.9  | 812.5  | 773.8  | 754.5  | 714.0  | 655.7  | 584.2  | 545.0  | 510.4  |
| 39.5° | 700.0  | 736.6  | 764.1  | 787.3  | 747.8  | 726.2  | 685.7  | 623.7  | 556.0  | 516.5  | 483.2  |
| 40°   | 670.2  | 705.6  | 733.8  | 761.6  | 721.4  | 695.9  | 657.3  | 591.9  | 526.2  | 487.8  | 455.5  |
| 40.5° | 639.9  | 673.5  | 703.8  | 734.9  | 693.6  | 665.9  | 630.0  | 560.3  | 497.2  | 460.8  | 428.8  |
| 41°   | 607.9  | 641.5  | 674.3  | 706.4  | 666.4  | 636.4  | 601.8  | 529.3  | 467.7  | 432.8  | 402.3  |
| 41.5° | 576.1  | 611.7  | 645.5  | 677.4  | 637.1  | 607.1  | 573.3  | 498.2  | 437.9  | 406.4  | 376.3  |
| 42°   | 543.5  | 581.7  | 616.3  | 646.8  | 607.6  | 578.4  | 543.8  | 468.4  | 407.6  | 379.4  | 350.4  |
| 42.5° | 512.2  | 551.7  | 588.0  | 617.0  | 576.3  | 549.9  | 513.5  | 439.4  | 378.1  | 352.7  | 324.4  |
| 43°   | 480.9  | 521.6  | 558.8  | 586.3  | 545.3  | 521.1  | 484.0  | 410.9  | 349.1  | 325.4  | 299.2  |
| 43.5° | 451.1  | 492.1  | 530.0  | 556.2  | 513.2  | 492.6  | 455.2  | 382.7  | 321.4  | 299.5  | 274.8  |



TEST NUMBER: P776068

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 363.9 | 404.1 | 442.0 | 464.6 | 420.1 | 406.1  | 372.0 | 304.8  | 245.3 | 226.2  | 206.4 |
| 45.5° | 337.1 | 375.8 | 414.5 | 435.4 | 389.3 | 377.9  | 345.0 | 280.4  | 222.4 | 202.8  | 183.5 |
| 46°   | 309.9 | 348.6 | 386.5 | 405.9 | 360.1 | 350.1  | 318.6 | 258.0  | 199.5 | 179.1  | 160.6 |
| 46.5° | 283.5 | 322.6 | 359.8 | 377.4 | 330.8 | 323.2  | 292.9 | 235.6  | 176.6 | 155.7  | 141.0 |
| 47°   | 258.0 | 297.7 | 333.1 | 349.1 | 302.8 | 296.2  | 266.7 | 213.2  | 157.3 | 136.1  | 122.1 |
| 47.5° | 233.6 | 273.3 | 307.1 | 321.1 | 275.6 | 270.0  | 243.8 | 190.8  | 138.7 | 117.3  | 105.1 |
| 48°   | 210.4 | 249.6 | 281.7 | 293.6 | 251.9 | 245.3  | 220.9 | 168.4  | 121.4 | 99.5   | 89.6  |
| 48.5° | 188.3 | 227.0 | 256.0 | 267.2 | 228.2 | 220.6  | 198.0 | 148.3  | 105.6 | 84.2   | 75.6  |
| 49°   | 167.4 | 204.8 | 231.6 | 241.0 | 204.6 | 195.9  | 175.3 | 129.8  | 90.8  | 70.5   | 63.1  |
| 49.5° | 148.1 | 183.7 | 207.9 | 216.8 | 180.9 | 171.2  | 155.7 | 113.0  | 77.6  | 58.3   | 52.4  |
| 50°   | 130.3 | 163.4 | 185.0 | 193.1 | 157.5 | 148.9  | 135.6 | 96.7   | 65.1  | 48.1   | 43.0  |
| 50.5° | 113.7 | 143.5 | 163.6 | 170.5 | 136.9 | 128.2  | 117.0 | 81.9   | 54.2  | 39.7   | 35.4  |
| 51°   | 98.0  | 124.7 | 142.2 | 149.6 | 118.1 | 108.7  | 99.5  | 69.0   | 44.3  | 34.1   | 30.3  |
| 51.5° | 84.5  | 106.6 | 122.6 | 129.3 | 100.8 | 91.6   | 83.7  | 57.0   | 38.2  | 28.2   | 25.2  |
| 52°   | 73.0  | 90.3  | 104.8 | 110.9 | 84.2  | 75.8   | 67.9  | 46.3   | 32.1  | 22.6   | 20.1  |
| 52.5° | 61.6  | 78.4  | 87.5  | 93.4  | 69.2  | 61.6   | 54.5  | 39.7   | 26.0  | 17.0   | 15.0  |
| 53°   | 50.1  | 66.2  | 75.3  | 80.7  | 55.5  | 49.4   | 42.7  | 33.1   | 19.8  | 11.5   | 9.9   |
| 53.5° | 38.7  | 53.9  | 63.1  | 67.9  | 43.5  | 39.2   | 35.9  | 26.7   | 13.7  | 8.4    | 7.1   |
| 54°   | 30.5  | 41.7  | 50.9  | 55.5  | 36.4  | 32.6   | 29.0  | 20.4   | 7.6   | 6.1    | 5.3   |
| 54.5° | 23.2  | 29.8  | 38.7  | 42.7  | 29.3  | 26.2   | 22.4  | 13.7   | 5.6   | 4.8    | 4.6   |
| 55°   | 17.0  | 21.6  | 26.5  | 30.3  | 22.1  | 19.8   | 15.5  | 7.4    | 4.8   | 4.3    | 4.3   |
| 55.5° | 11.7  | 15.5  | 19.1  | 22.1  | 14.8  | 13.5   | 8.7   | 5.3    | 4.3   | 4.3    | 4.1   |
| 56°   | 7.9   | 10.4  | 13.0  | 15.5  | 7.6   | 7.1    | 6.1   | 4.6    | 4.3   | 4.1    | 3.8   |
| 56.5° | 6.9   | 9.2   | 8.7   | 10.2  | 5.6   | 5.3    | 4.8   | 4.3    | 4.1   | 3.8    | 3.8   |
| 57°   | 5.9   | 7.9   | 7.6   | 8.7   | 4.8   | 4.6    | 4.6   | 4.3    | 3.8   | 3.8    | 3.6   |
| 57.5° | 4.8   | 6.6   | 6.4   | 7.1   | 4.6   | 4.3    | 4.3   | 4.1    | 3.8   | 3.6    | 3.3   |
| 58°   | 4.1   | 5.3   | 5.3   | 5.9   | 4.3   | 4.3    | 4.1   | 3.8    | 3.6   | 3.3    | 3.3   |
| 58.5° | 3.8   | 4.1   | 4.3   | 4.3   | 4.1   | 4.1    | 4.1   | 3.8    | 3.3   | 3.3    | 3.1   |
| 59°   | 3.6   | 3.8   | 4.1   | 4.1   | 3.8   | 3.8    | 3.8   | 3.6    | 3.3   | 3.1    | 3.1   |
| 59.5° | 3.6   | 3.8   | 3.8   | 4.1   | 3.8   | 3.8    | 3.6   | 3.3    | 3.1   | 3.1    | 2.8   |
| 60°   | 3.3   | 3.6   | 3.8   | 3.8   | 3.6   | 3.6    | 3.6   | 3.3    | 3.1   | 2.8    | 2.8   |
| 60.5° | 3.1   | 3.3   | 3.6   | 3.6   | 3.3   | 3.3    | 3.3   | 3.1    | 2.8   | 2.8    | 2.5   |
| 61°   | 3.1   | 3.3   | 3.3   | 3.6   | 3.3   | 3.3    | 3.1   | 2.8    | 2.5   | 2.5    | 2.5   |
| 61.5° | 2.8   | 3.1   | 3.3   | 3.3   | 3.1   | 3.1    | 3.1   | 2.8    | 2.5   | 2.5    | 2.3   |
| 62°   | 2.8   | 2.8   | 3.1   | 3.1   | 2.8   | 2.8    | 2.8   | 2.5    | 2.3   | 2.3    | 2.3   |
| 62.5° | 2.5   | 2.8   | 2.8   | 3.1   | 2.8   | 2.8    | 2.8   | 2.5    | 2.3   | 2.3    | 2.0   |
| 63°   | 2.5   | 2.5   | 2.8   | 2.8   | 2.5   | 2.5    | 2.5   | 2.3    | 2.3   | 2.0    | 2.0   |
| 63.5° | 2.3   | 2.5   | 2.5   | 2.8   | 2.5   | 2.5    | 2.5   | 2.3    | 2.0   | 2.0    | 2.0   |
| 64°   | 2.3   | 2.3   | 2.5   | 2.5   | 2.3   | 2.3    | 2.3   | 2.0    | 2.0   | 2.0    | 1.8   |
| 64.5° | 2.0   | 2.3   | 2.3   | 2.5   | 2.3   | 2.3    | 2.3   | 2.0    | 1.8   | 1.8    | 1.8   |
| 65°   | 2.0   | 2.0   | 2.3   | 2.3   | 2.0   | 2.0    | 2.0   | 2.0    | 1.8   | 1.8    | 1.8   |
| 65.5° | 1.8   | 2.0   | 2.0   | 2.3   | 2.0   | 2.0    | 2.0   | 1.8    | 1.8   | 1.8    | 1.5   |
| 66°   | 1.8   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0    | 1.8   | 1.8    | 1.5   | 1.5    | 1.5   |





TEST NUMBER: P776068

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 1.5 | 1.5   | 1.8 | 1.8   | 1.8 | 1.8    | 1.5  | 1.5    | 1.3  | 1.3    | 1.3  |
| 68°   | 1.5 | 1.5   | 1.8 | 1.8   | 1.5 | 1.5    | 1.5  | 1.5    | 1.3  | 1.3    | 1.3  |
| 68.5° | 1.3 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5    | 1.5  | 1.3    | 1.3  | 1.3    | 1.3  |
| 69°   | 1.3 | 1.5   | 1.5 | 1.5   | 1.5 | 1.5    | 1.5  | 1.3    | 1.3  | 1.3    | 1.0  |
| 69.5° | 1.3 | 1.3   | 1.5 | 1.5   | 1.3 | 1.3    | 1.3  | 1.3    | 1.0  | 1.0    | 1.0  |
| 70°   | 1.3 | 1.3   | 1.3 | 1.3   | 1.3 | 1.3    | 1.3  | 1.3    | 1.0  | 1.0    | 1.0  |
| 70.5° | 1.0 | 1.3   | 1.3 | 1.3   | 1.3 | 1.3    | 1.3  | 1.0    | 1.0  | 1.0    | 1.0  |
| 71°   | 1.0 | 1.3   | 1.3 | 1.3   | 1.3 | 1.3    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 71.5° | 1.0 | 1.0   | 1.3 | 1.3   | 1.0 | 1.0    | 1.0  | 1.0    | 0.8  | 0.8    | 0.8  |
| 72°   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0    | 1.0  | 1.0    | 0.8  | 0.8    | 0.8  |
| 72.5° | 0.8 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0    | 1.0  | 0.8    | 0.8  | 0.8    | 0.8  |
| 73°   | 0.8 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0    | 1.0  | 0.8    | 0.8  | 0.8    | 0.8  |
| 73.5° | 0.8 | 0.8   | 1.0 | 1.0   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 74°   | 0.8 | 0.8   | 0.8 | 1.0   | 0.8 | 0.8    | 0.8  | 0.8    | 0.8  | 0.5    | 0.5  |
| 74.5° | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.5  | 0.5    | 0.5  |
| 75°   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.8    | 0.5  | 0.5    | 0.5  |
| 75.5° | 0.5 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.5    | 0.5  | 0.5    | 0.5  |
| 76°   | 0.5 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8    | 0.8  | 0.5    | 0.5  | 0.5    | 0.5  |
| 76.5° | 0.5 | 0.5   | 0.8 | 0.8   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 77°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 77.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  | 0.3    | 0.5  |
| 78°   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.3  | 0.3    | 0.3  |
| 78.5° | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.5    | 0.3  | 0.3    | 0.3  |
| 79°   | 0.3 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.3    | 0.3  | 0.3    | 0.3  |
| 79.5° | 0.3 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5    | 0.5  | 0.3    | 0.3  | 0.3    | 0.3  |
| 80°   | 0.3 | 0.3   | 0.5 | 0.5   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 80.5° | 0.3 | 0.3   | 0.3 | 0.5   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 81°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 81.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 82°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 82.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.0  | 0.0    | 0.0  |
| 83°   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.3    | 0.0  | 0.0    | 0.0  |
| 83.5° | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84°   | 0.0 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 84.5° | 0.0 | 0.0   | 0.3 | 0.3   | 0.3 | 0.3    | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0 | 0.0   | 0.3 | 0.3   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85.5° | 0.0 | 0.0   | 0.0 | 0.3   | 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  |



TEST NUMBER: P776068  
CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMB-2500lm-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  |



TEST NUMBER: P776068

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 | 1358.3 |
| 0.5°  | 1355.0 | 1357.8 | 1357.5 | 1357.5 | 1358.5 | 1358.5 |
| 1°    | 1352.9 | 1356.0 | 1356.0 | 1356.5 | 1358.0 | 1359.0 |
| 1.5°  | 1350.6 | 1354.2 | 1354.2 | 1355.2 | 1357.3 | 1359.0 |
| 2°    | 1348.1 | 1352.2 | 1352.4 | 1353.7 | 1356.5 | 1359.0 |
| 2.5°  | 1345.3 | 1349.6 | 1350.1 | 1351.7 | 1355.5 | 1358.5 |
| 3°    | 1342.5 | 1347.1 | 1347.8 | 1349.6 | 1353.9 | 1357.8 |
| 3.5°  | 1339.2 | 1344.3 | 1345.0 | 1347.3 | 1352.2 | 1357.0 |
| 4°    | 1335.6 | 1341.2 | 1342.2 | 1344.8 | 1350.4 | 1356.0 |
| 4.5°  | 1332.1 | 1337.9 | 1339.2 | 1342.0 | 1348.3 | 1354.7 |
| 5°    | 1328.5 | 1334.3 | 1335.9 | 1338.9 | 1346.1 | 1352.9 |
| 5.5°  | 1324.2 | 1330.8 | 1332.3 | 1335.9 | 1343.3 | 1351.1 |
| 6°    | 1319.8 | 1326.7 | 1328.2 | 1332.3 | 1340.5 | 1349.1 |
| 6.5°  | 1315.3 | 1322.6 | 1324.4 | 1328.5 | 1337.7 | 1346.6 |
| 7°    | 1310.7 | 1318.3 | 1320.4 | 1324.7 | 1334.3 | 1344.0 |
| 7.5°  | 1305.6 | 1313.7 | 1315.8 | 1320.6 | 1330.8 | 1341.2 |
| 8°    | 1300.3 | 1308.9 | 1311.2 | 1316.0 | 1327.0 | 1338.4 |
| 8.5°  | 1294.9 | 1303.6 | 1306.1 | 1311.7 | 1323.2 | 1335.1 |
| 9°    | 1289.1 | 1298.2 | 1301.0 | 1306.9 | 1319.1 | 1331.6 |
| 9.5°  | 1283.2 | 1292.9 | 1295.7 | 1301.5 | 1314.8 | 1328.0 |
| 10°   | 1277.6 | 1287.0 | 1290.1 | 1296.4 | 1309.9 | 1323.9 |
| 10.5° | 1271.2 | 1281.4 | 1284.5 | 1290.8 | 1305.1 | 1319.8 |
| 11°   | 1264.9 | 1275.1 | 1278.4 | 1285.5 | 1299.7 | 1315.5 |
| 11.5° | 1258.3 | 1269.0 | 1272.3 | 1279.6 | 1294.9 | 1311.2 |
| 12°   | 1251.4 | 1262.6 | 1265.9 | 1273.5 | 1289.6 | 1306.4 |
| 12.5° | 1244.5 | 1255.7 | 1259.5 | 1267.2 | 1283.7 | 1301.0 |
| 13°   | 1237.4 | 1249.1 | 1252.9 | 1260.8 | 1277.6 | 1295.9 |
| 13.5° | 1230.0 | 1242.0 | 1246.1 | 1254.2 | 1272.0 | 1290.6 |
| 14°   | 1222.6 | 1234.9 | 1239.2 | 1247.6 | 1265.6 | 1285.0 |
| 14.5° | 1215.3 | 1227.5 | 1232.1 | 1240.7 | 1259.5 | 1279.1 |
| 15°   | 1207.4 | 1219.8 | 1224.4 | 1233.6 | 1252.7 | 1273.3 |
| 15.5° | 1199.5 | 1212.5 | 1217.0 | 1226.2 | 1246.1 | 1267.2 |
| 16°   | 1191.6 | 1204.6 | 1209.2 | 1218.8 | 1239.2 | 1260.6 |
| 16.5° | 1183.2 | 1196.4 | 1201.3 | 1211.4 | 1232.1 | 1253.9 |
| 17°   | 1175.1 | 1188.5 | 1193.4 | 1203.8 | 1224.7 | 1247.3 |
| 17.5° | 1166.4 | 1180.2 | 1185.2 | 1195.7 | 1217.3 | 1240.5 |
| 18°   | 1157.8 | 1171.8 | 1177.1 | 1187.8 | 1209.9 | 1233.6 |
| 18.5° | 1149.4 | 1163.1 | 1168.4 | 1179.4 | 1202.0 | 1226.5 |
| 19°   | 1140.2 | 1154.5 | 1159.8 | 1171.0 | 1194.1 | 1218.6 |
| 19.5° | 1131.0 | 1145.5 | 1151.1 | 1162.6 | 1186.3 | 1211.2 |
| 20°   | 1121.6 | 1136.6 | 1142.0 | 1153.9 | 1177.9 | 1203.6 |
| 20.5° | 1112.5 | 1127.2 | 1133.1 | 1145.3 | 1169.7 | 1195.7 |
| 21°   | 1103.1 | 1117.8 | 1123.7 | 1136.1 | 1161.1 | 1188.0 |

TEST NUMBER: P776068

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1073.5 | 1089.1 | 1095.2 | 1108.4 | 1135.1 | 1162.8 |
| 23°   | 1063.4 | 1079.1 | 1085.5 | 1099.0 | 1125.7 | 1154.2 |
| 23.5° | 1053.4 | 1069.0 | 1075.6 | 1089.3 | 1116.5 | 1145.3 |
| 24°   | 1043.0 | 1058.8 | 1065.6 | 1079.6 | 1107.1 | 1136.1 |
| 24.5° | 1033.1 | 1048.6 | 1055.7 | 1069.7 | 1098.0 | 1127.2 |
| 25°   | 1022.6 | 1038.2 | 1045.3 | 1059.5 | 1088.3 | 1118.1 |
| 25.5° | 1012.2 | 1028.0 | 1035.4 | 1049.6 | 1078.6 | 1108.7 |
| 26°   | 1002.0 | 1017.6 | 1024.9 | 1039.7 | 1069.0 | 1099.5 |
| 26.5° | 991.9  | 1007.4 | 1014.8 | 1029.5 | 1059.0 | 1089.8 |
| 27°   | 981.7  | 996.9  | 1004.6 | 1019.3 | 1049.4 | 1080.4 |
| 27.5° | 972.0  | 986.8  | 994.4  | 1009.7 | 1039.4 | 1070.7 |
| 28°   | 962.3  | 976.6  | 984.2  | 999.7  | 1029.8 | 1061.3 |
| 28.5° | 952.7  | 966.9  | 974.6  | 990.1  | 1019.8 | 1051.4 |
| 29°   | 943.3  | 957.5  | 965.1  | 980.7  | 1010.4 | 1041.7 |
| 29.5° | 933.6  | 947.8  | 955.5  | 971.5  | 1001.3 | 1032.6 |
| 30°   | 923.9  | 938.2  | 946.1  | 962.3  | 991.9  | 1023.4 |
| 30.5° | 913.5  | 928.2  | 936.4  | 952.7  | 983.0  | 1014.2 |
| 31°   | 902.5  | 918.6  | 926.7  | 943.0  | 974.0  | 1005.3 |
| 31.5° | 886.5  | 908.1  | 916.3  | 933.3  | 964.9  | 996.2  |
| 32°   | 867.7  | 895.9  | 904.3  | 922.6  | 955.2  | 987.3  |
| 32.5° | 846.6  | 878.1  | 887.5  | 909.4  | 945.3  | 978.4  |
| 33°   | 822.1  | 856.5  | 868.2  | 892.6  | 934.4  | 969.0  |
| 33.5° | 796.7  | 832.8  | 846.8  | 871.0  | 918.8  | 958.8  |
| 34°   | 770.5  | 809.4  | 822.9  | 845.0  | 901.0  | 947.8  |
| 34.5° | 744.3  | 784.7  | 796.9  | 818.8  | 880.7  | 933.1  |
| 35°   | 717.3  | 759.3  | 768.4  | 792.1  | 858.0  | 916.0  |
| 35.5° | 688.8  | 733.6  | 739.7  | 765.9  | 835.1  | 897.5  |
| 36°   | 659.8  | 705.3  | 711.4  | 740.2  | 810.9  | 876.8  |
| 36.5° | 630.0  | 676.8  | 682.4  | 714.5  | 785.0  | 856.2  |
| 37°   | 600.8  | 646.8  | 654.2  | 688.8  | 758.5  | 833.6  |
| 37.5° | 571.2  | 617.3  | 626.5  | 661.8  | 731.0  | 809.7  |
| 38°   | 543.0  | 586.5  | 598.0  | 632.8  | 703.8  | 784.0  |
| 38.5° | 514.8  | 557.0  | 570.2  | 603.8  | 675.8  | 757.0  |
| 39°   | 486.8  | 527.2  | 542.2  | 574.3  | 649.4  | 728.8  |
| 39.5° | 459.0  | 497.2  | 513.7  | 544.8  | 621.9  | 700.0  |
| 40°   | 431.0  | 466.4  | 485.2  | 515.3  | 594.4  | 670.2  |
| 40.5° | 403.1  | 437.1  | 457.0  | 488.0  | 564.9  | 639.9  |
| 41°   | 375.6  | 408.9  | 429.0  | 460.6  | 536.1  | 607.9  |
| 41.5° | 349.1  | 381.4  | 401.8  | 434.1  | 505.6  | 576.1  |
| 42°   | 322.1  | 355.2  | 375.3  | 408.1  | 475.3  | 543.5  |
| 42.5° | 297.5  | 328.8  | 349.1  | 381.7  | 445.3  | 512.2  |
| 43°   | 273.8  | 304.6  | 323.7  | 354.5  | 415.8  | 480.9  |
| 43.5° | 252.9  | 280.4  | 298.7  | 327.7  | 386.5  | 451.1  |



TEST NUMBER: P776068

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 45°   | 190.8  | 215.3 | 227.0  | 251.7 | 302.3  | 363.9 |
| 45.5° | 170.2  | 195.7 | 205.3  | 228.2 | 275.6  | 337.1 |
| 46°   | 150.9  | 176.8 | 185.0  | 205.6 | 249.9  | 309.9 |
| 46.5° | 134.4  | 159.0 | 165.1  | 183.0 | 224.9  | 283.5 |
| 47°   | 118.8  | 142.7 | 146.8  | 161.6 | 200.8  | 258.0 |
| 47.5° | 104.6  | 127.0 | 129.3  | 141.0 | 178.6  | 233.6 |
| 48°   | 90.8   | 112.2 | 113.2  | 120.9 | 157.8  | 210.4 |
| 48.5° | 78.1   | 98.5  | 98.2   | 102.8 | 138.7  | 188.3 |
| 49°   | 66.7   | 86.5  | 85.8   | 86.0  | 120.9  | 167.4 |
| 49.5° | 56.2   | 75.8  | 74.8   | 74.6  | 104.6  | 148.1 |
| 50°   | 46.8   | 65.4  | 63.6   | 63.4  | 89.3   | 130.3 |
| 50.5° | 38.4   | 54.7  | 52.7   | 51.9  | 78.4   | 113.7 |
| 51°   | 32.6   | 44.3  | 41.5   | 40.7  | 67.4   | 98.0  |
| 51.5° | 26.7   | 36.1  | 33.6   | 33.3  | 56.5   | 84.5  |
| 52°   | 21.1   | 29.0  | 27.0   | 27.0  | 45.3   | 73.0  |
| 52.5° | 15.3   | 22.4  | 20.9   | 21.6  | 34.6   | 61.6  |
| 53°   | 9.4    | 16.5  | 15.8   | 16.8  | 27.5   | 50.1  |
| 53.5° | 6.4    | 11.7  | 11.5   | 12.5  | 21.4   | 38.7  |
| 54°   | 4.8    | 7.9   | 7.9    | 8.9   | 16.0   | 30.5  |
| 54.5° | 4.3    | 6.9   | 6.9    | 7.6   | 11.7   | 23.2  |
| 55°   | 4.1    | 5.9   | 5.9    | 6.4   | 8.1    | 17.0  |
| 55.5° | 3.8    | 4.8   | 4.8    | 5.1   | 7.1    | 11.7  |
| 56°   | 3.8    | 3.8   | 3.8    | 4.1   | 6.1    | 7.9   |
| 56.5° | 3.6    | 3.8   | 3.6    | 3.8   | 4.8    | 6.9   |
| 57°   | 3.3    | 3.6   | 3.6    | 3.6   | 3.8    | 5.9   |
| 57.5° | 3.3    | 3.3   | 3.3    | 3.6   | 3.8    | 4.8   |
| 58°   | 3.1    | 3.3   | 3.3    | 3.3   | 3.6    | 4.1   |
| 58.5° | 3.1    | 3.1   | 3.1    | 3.1   | 3.6    | 3.8   |
| 59°   | 2.8    | 3.1   | 2.8    | 3.1   | 3.3    | 3.6   |
| 59.5° | 2.8    | 2.8   | 2.8    | 2.8   | 3.1    | 3.6   |
| 60°   | 2.5    | 2.5   | 2.5    | 2.5   | 3.1    | 3.3   |
| 60.5° | 2.5    | 2.5   | 2.5    | 2.5   | 2.8    | 3.1   |
| 61°   | 2.3    | 2.3   | 2.3    | 2.3   | 2.5    | 3.1   |
| 61.5° | 2.3    | 2.3   | 2.3    | 2.3   | 2.5    | 2.8   |
| 62°   | 2.0    | 2.3   | 2.0    | 2.3   | 2.3    | 2.8   |
| 62.5° | 2.0    | 2.0   | 2.0    | 2.0   | 2.3    | 2.5   |
| 63°   | 1.8    | 2.0   | 2.0    | 2.0   | 2.0    | 2.5   |
| 63.5° | 1.8    | 1.8   | 1.8    | 1.8   | 2.0    | 2.3   |
| 64°   | 1.8    | 1.8   | 1.8    | 1.8   | 2.0    | 2.3   |
| 64.5° | 1.5    | 1.8   | 1.5    | 1.8   | 1.8    | 2.0   |
| 65°   | 1.5    | 1.5   | 1.5    | 1.5   | 1.8    | 2.0   |
| 65.5° | 1.5    | 1.5   | 1.5    | 1.5   | 1.8    | 1.8   |
| 66°   | 1.5    | 1.5   | 1.5    | 1.5   | 1.5    | 1.8   |



TEST NUMBER: P776068

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 1.3    | 1.3  | 1.3    | 1.3  | 1.3    | 1.5  |
| 68°   | 1.3    | 1.3  | 1.0    | 1.3  | 1.3    | 1.5  |
| 68.5° | 1.0    | 1.0  | 1.0    | 1.0  | 1.3    | 1.3  |
| 69°   | 1.0    | 1.0  | 1.0    | 1.0  | 1.3    | 1.3  |
| 69.5° | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.3  |
| 70°   | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.3  |
| 70.5° | 0.8    | 1.0  | 0.8    | 0.8  | 1.0    | 1.0  |
| 71°   | 0.8    | 0.8  | 0.8    | 0.8  | 1.0    | 1.0  |
| 71.5° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 1.0  |
| 72°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 1.0  |
| 72.5° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 73°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 73.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.8    | 0.8  |
| 74°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.8    | 0.8  |
| 74.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.8  |
| 75°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.8  |
| 75.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 76°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 76.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 77°   | 0.5    | 0.5  | 0.3    | 0.3  | 0.5    | 0.5  |
| 77.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.5    | 0.5  |
| 78°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.5  |
| 78.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.5  |
| 79°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 79.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 80°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 80.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 81°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 81.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 82°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 82.5° | 0.0    | 0.3  | 0.3    | 0.0  | 0.3    | 0.3  |
| 83°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.3  |
| 83.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.3  |
| 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  |



TEST NUMBER: P776068  
CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMB-2500lm-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  |



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Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - 135°-315°

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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





|       |        |        |        |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1179.6 | 1195.9 | 1208.4 | 1214.5 | 1201.8 | 1195.2 | 1181.7 | 1156.2 | 1129.3 | 1113.2 | 1100.5 |
| 22°   | 1171.0 | 1188.0 | 1201.0 | 1206.6 | 1193.6 | 1186.8 | 1173.3 | 1147.6 | 1120.4 | 1103.8 | 1090.8 |



|       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 421.4 | 462.3 | 500.5 | 525.4 | 482.4 | 463.9 | 427.0 | 356.0 | 294.7 | 273.3 | 252.2 |
| 44.5° | 392.6 | 432.8 | 471.5 | 494.9 | 450.9 | 435.1 | 399.5 | 330.3 | 268.4 | 249.9 | 229.3 |



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 66.5° | 1.8 | 1.8 | 2.0 | 2.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 |
| 67°   | 1.5 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.3 |



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 |



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|       |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1093.4 | 1108.1 | 1114.5 | 1127.0 | 1152.7 | 1179.6 |
| 22°   | 1083.2 | 1098.2 | 1104.8 | 1117.8 | 1143.8 | 1171.0 |



|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 44°   | 232.3 | 257.8 | 273.8 | 301.5 | 358.3 | 421.4 |
| 44.5° | 211.5 | 235.9 | 250.4 | 276.6 | 329.8 | 392.6 |



|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 66.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.8 |
| 67°   | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 |

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|       |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|
| 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 |

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(END OF REPORT)