

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: P775967

Luminaire Tested: HCDJBL1525CSD-HCD42TRMB-2500lm-3500K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B051)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K  
Description: 4 INCH ROUND NARROW MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

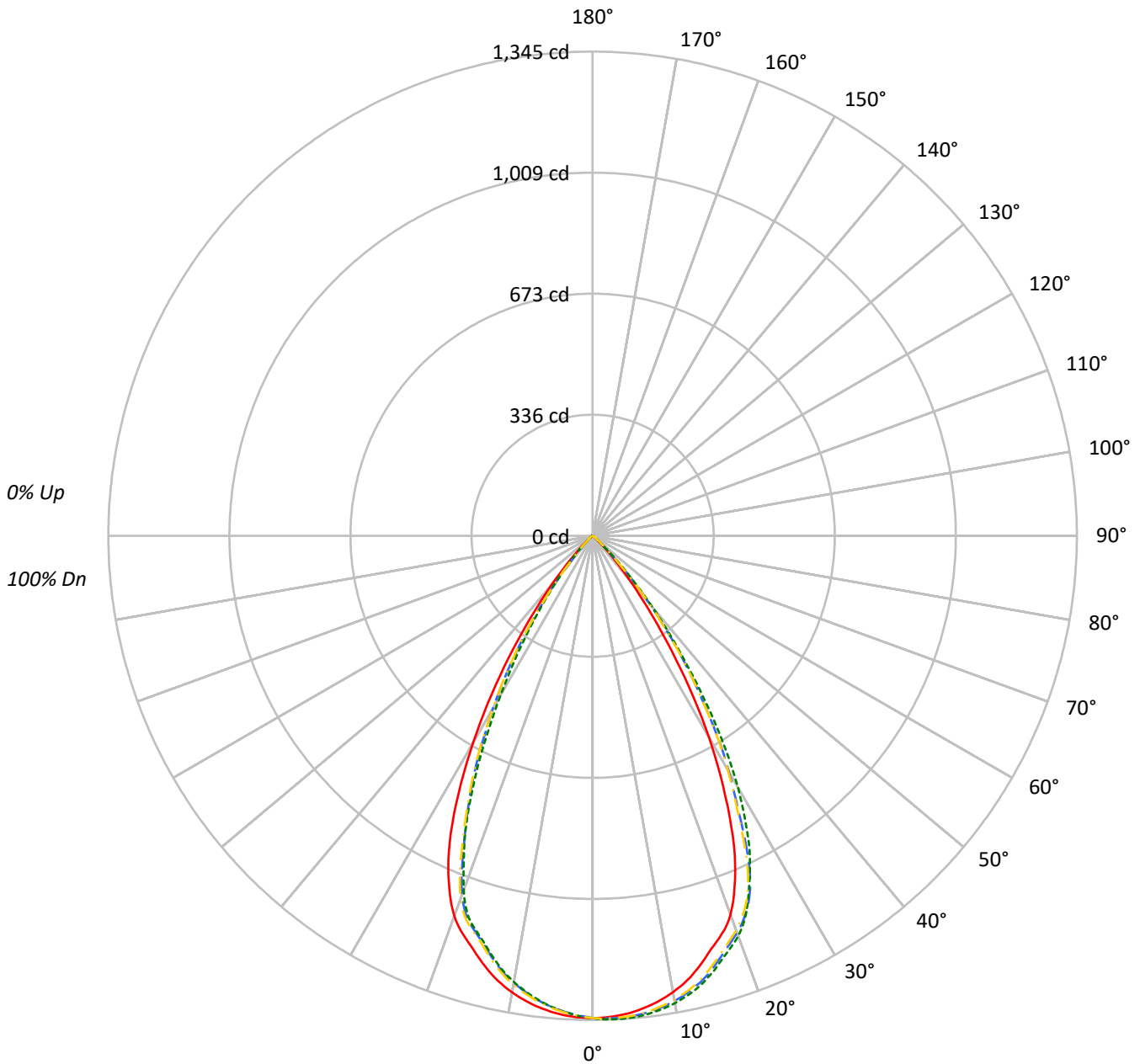
Lumens per Lamp: N/A  
Luminaire Lumens: 1182.9 lumens  
Efficiency: N/A  
Efficacy: 47.3 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.94 / 0.88  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P775967  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P775967

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |     |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |    |    |    |     |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 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 |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  |    |    |    |    |    | 94  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 108 | 103 | 100 | 96  | 106 | 102 | 98  | 95  | 99  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 89  | 88  |    |    |    |    |    | 88  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 82  |    |    |    |    |    | 82  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 98  | 91  | 85  | 81  | 96  | 89  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 79  | 83  | 80  | 78  | 76  |    |    |    |    |    | 76  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 93  | 85  | 79  | 75  | 91  | 84  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 73  | 79  | 76  | 73  | 71  |    |    |    |    |    | 71  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 68  | 67  |    |    |    |    |    | 67  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 71  | 67  | 64  | 63  |    |    |    |    |    | 63  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 59  |    |    |    |    |    | 59  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 76  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 55  |    |    |    |    |    | 55  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 73  | 63  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 61  | 56  | 53  | 52  |    |    |    |    |    | 52  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   | 270°   |
|-----|--------|--------|--------|--------|
| 0°  | 168563 | 168563 | 168563 | 168563 |
| 5°  | 167603 | 169561 | 167666 | 165923 |
| 10° | 164480 | 168454 | 164570 | 160864 |
| 15° | 158002 | 164555 | 158419 | 152217 |
| 20° | 149958 | 158489 | 150533 | 140101 |
| 25° | 127959 | 143442 | 130501 | 111018 |
| 30° | 93832  | 117272 | 96375  | 74243  |
| 35° | 55431  | 78415  | 59364  | 42311  |
| 40° | 25431  | 41827  | 28356  | 19221  |
| 45° | 7849   | 14220  | 8970   | 5624   |
| 50° | 2506   | 2839   | 2545   | 2154   |
| 55° | 1536   | 1755   | 1536   | 1316   |
| 60° | 956    | 1082   | 1007   | 881    |
| 65° | 685    | 685    | 685    | 596    |
| 70° | 478    | 478    | 478    | 368    |
| 75° | 243    | 389    | 243    | 243    |
| 80° | 217    | 217    | 217    | 217    |
| 85° | 0      | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 14843 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.4  | 10.6      |
| 10°-20°   | 341.0  | 28.8      |
| 20°-30°   | 413.9  | 35.0      |
| 30°-40°   | 243.9  | 20.6      |
| 40°-50°   | 49.1   | 4.1       |
| 50°-60°   | 6.7    | 0.6       |
| 60°-70°   | 2.3    | 0.2       |
| 70°-80°   | 0.7    | 0.1       |
| 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°    | 880.3  | 74.4      |
| 0°-40°    | 1124.1 | 95.0      |
| 0°-60°    | 1179.9 | 99.7      |
| 0°-90°    | 1182.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1182.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1339 | 1339 | 1339 | 1339 | 1339 |      |
| 5°  | 1327 | 1342 | 1327 | 1313 | 1327 | 125  |
| 15° | 1213 | 1263 | 1216 | 1168 | 1213 | 341  |
| 25° | 922  | 1033 | 940  | 800  | 922  | 413  |
| 35° | 361  | 510  | 386  | 275  | 361  | 229  |
| 45° | 44   | 80   | 50   | 32   | 44   | 43   |
| 55° | 7    | 8    | 7    | 6    | 7    | 7    |
| 65° | 2    | 2    | 2    | 2    | 2    | 2    |
| 75° | 0    | 1    | 0    | 0    | 0    | 1    |
| 85° | 0    | 0    | 0    | 0    | 0    | 0    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P775967

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 |
| 0.5°  | 1339.7 | 1340.5 | 1339.7 | 1339.2 | 1342.0 | 1341.0 | 1340.2 | 1340.0 | 1339.7 | 1339.4 | 1337.4 |
| 1°    | 1339.2 | 1340.5 | 1340.5 | 1340.2 | 1343.0 | 1342.0 | 1341.0 | 1340.2 | 1339.4 | 1338.4 | 1335.7 |
| 1.5°  | 1338.7 | 1340.5 | 1341.2 | 1341.2 | 1343.7 | 1342.7 | 1341.2 | 1340.0 | 1338.7 | 1337.2 | 1333.9 |
| 2°    | 1337.7 | 1340.0 | 1341.5 | 1341.7 | 1344.2 | 1343.2 | 1341.5 | 1339.7 | 1337.9 | 1335.9 | 1331.7 |
| 2.5°  | 1336.4 | 1339.4 | 1341.5 | 1342.0 | 1344.7 | 1343.5 | 1341.2 | 1339.2 | 1336.7 | 1334.2 | 1329.2 |
| 3°    | 1334.9 | 1338.4 | 1341.2 | 1342.2 | 1344.7 | 1343.5 | 1341.0 | 1338.2 | 1335.4 | 1332.2 | 1326.7 |
| 3.5°  | 1333.4 | 1337.4 | 1341.0 | 1342.0 | 1344.5 | 1343.0 | 1340.2 | 1337.2 | 1333.7 | 1329.9 | 1323.9 |
| 4°    | 1331.4 | 1335.9 | 1340.2 | 1341.5 | 1344.0 | 1342.5 | 1339.4 | 1335.7 | 1331.7 | 1327.4 | 1320.7 |
| 4.5°  | 1329.2 | 1334.4 | 1339.4 | 1341.0 | 1343.2 | 1341.7 | 1338.2 | 1334.2 | 1329.7 | 1324.9 | 1317.1 |
| 5°    | 1326.7 | 1332.4 | 1338.2 | 1340.0 | 1342.2 | 1340.5 | 1336.9 | 1332.4 | 1327.2 | 1321.9 | 1313.4 |
| 5.5°  | 1323.9 | 1330.4 | 1336.7 | 1338.9 | 1341.0 | 1339.2 | 1335.2 | 1330.4 | 1324.4 | 1318.7 | 1309.6 |
| 6°    | 1320.9 | 1327.9 | 1334.9 | 1337.4 | 1339.4 | 1337.4 | 1333.2 | 1327.9 | 1321.4 | 1315.1 | 1305.4 |
| 6.5°  | 1317.7 | 1325.4 | 1332.9 | 1335.7 | 1337.9 | 1335.7 | 1330.9 | 1325.2 | 1318.2 | 1311.1 | 1300.9 |
| 7°    | 1314.4 | 1322.4 | 1330.7 | 1333.7 | 1335.7 | 1333.4 | 1328.7 | 1322.2 | 1314.9 | 1307.1 | 1295.9 |
| 7.5°  | 1310.4 | 1319.2 | 1328.2 | 1331.7 | 1333.4 | 1330.9 | 1326.2 | 1319.2 | 1311.1 | 1302.6 | 1290.8 |
| 8°    | 1306.4 | 1315.6 | 1325.7 | 1329.2 | 1330.9 | 1328.4 | 1322.9 | 1315.6 | 1306.9 | 1298.1 | 1285.6 |
| 8.5°  | 1301.9 | 1311.9 | 1322.4 | 1326.4 | 1328.2 | 1325.4 | 1319.7 | 1311.9 | 1302.6 | 1293.3 | 1279.8 |
| 9°    | 1297.4 | 1307.9 | 1319.2 | 1323.4 | 1325.2 | 1322.4 | 1316.1 | 1307.9 | 1298.1 | 1288.1 | 1274.1 |
| 9.5°  | 1292.3 | 1303.4 | 1315.6 | 1320.2 | 1321.9 | 1318.9 | 1312.4 | 1303.6 | 1293.1 | 1282.8 | 1267.5 |
| 10°   | 1287.1 | 1298.9 | 1311.9 | 1316.6 | 1318.2 | 1315.4 | 1308.4 | 1299.1 | 1287.8 | 1276.8 | 1261.0 |
| 10.5° | 1281.3 | 1293.8 | 1307.9 | 1312.9 | 1314.4 | 1311.1 | 1304.1 | 1294.1 | 1282.3 | 1270.8 | 1254.3 |
| 11°   | 1275.8 | 1288.8 | 1303.4 | 1308.6 | 1310.1 | 1306.9 | 1299.4 | 1288.8 | 1276.8 | 1264.3 | 1247.0 |
| 11.5° | 1269.5 | 1283.3 | 1298.6 | 1304.4 | 1305.6 | 1302.1 | 1294.3 | 1283.3 | 1270.5 | 1257.5 | 1239.0 |
| 12°   | 1262.8 | 1277.3 | 1293.6 | 1299.9 | 1300.9 | 1297.4 | 1289.1 | 1277.6 | 1264.0 | 1250.3 | 1230.7 |
| 12.5° | 1255.5 | 1270.8 | 1288.3 | 1294.6 | 1295.9 | 1291.8 | 1283.3 | 1271.3 | 1257.0 | 1242.5 | 1221.9 |
| 13°   | 1247.7 | 1264.3 | 1282.3 | 1289.3 | 1290.1 | 1286.3 | 1277.3 | 1264.8 | 1249.8 | 1234.5 | 1212.7 |
| 13.5° | 1239.5 | 1256.8 | 1276.6 | 1283.6 | 1284.1 | 1280.1 | 1270.8 | 1257.5 | 1241.7 | 1225.9 | 1203.1 |
| 14°   | 1231.0 | 1249.3 | 1270.0 | 1277.3 | 1277.8 | 1273.6 | 1263.8 | 1250.0 | 1233.5 | 1216.7 | 1192.9 |
| 14.5° | 1221.9 | 1241.0 | 1263.0 | 1270.5 | 1270.5 | 1266.0 | 1256.5 | 1242.0 | 1224.9 | 1207.2 | 1183.1 |
| 15°   | 1212.7 | 1232.2 | 1255.5 | 1263.3 | 1263.0 | 1258.8 | 1248.5 | 1233.7 | 1215.9 | 1197.6 | 1173.3 |
| 15.5° | 1203.4 | 1223.2 | 1247.5 | 1255.5 | 1255.5 | 1250.8 | 1240.2 | 1224.9 | 1206.7 | 1188.1 | 1164.6 |
| 16°   | 1194.6 | 1214.4 | 1239.0 | 1247.5 | 1247.2 | 1242.5 | 1231.7 | 1215.9 | 1197.4 | 1178.8 | 1156.0 |
| 16.5° | 1186.6 | 1205.7 | 1230.2 | 1239.0 | 1238.5 | 1234.0 | 1222.9 | 1207.2 | 1188.9 | 1170.3 | 1147.5 |
| 17°   | 1178.3 | 1197.6 | 1221.4 | 1230.7 | 1230.2 | 1225.4 | 1214.2 | 1198.6 | 1180.6 | 1162.3 | 1139.0 |
| 17.5° | 1170.6 | 1189.6 | 1213.2 | 1222.2 | 1222.2 | 1217.4 | 1205.9 | 1190.6 | 1172.6 | 1154.0 | 1130.5 |
| 18°   | 1162.6 | 1181.9 | 1204.9 | 1214.4 | 1214.9 | 1209.7 | 1198.4 | 1182.6 | 1164.3 | 1145.5 | 1120.5 |
| 18.5° | 1154.0 | 1173.6 | 1197.1 | 1206.9 | 1207.2 | 1202.1 | 1190.1 | 1174.1 | 1155.8 | 1136.5 | 1108.9 |
| 19°   | 1144.0 | 1165.6 | 1189.1 | 1199.1 | 1199.6 | 1194.4 | 1182.1 | 1166.3 | 1146.5 | 1126.0 | 1094.9 |
| 19.5° | 1132.5 | 1156.5 | 1181.4 | 1191.1 | 1192.1 | 1186.6 | 1174.1 | 1157.3 | 1136.0 | 1113.5 | 1078.9 |
| 20°   | 1119.7 | 1146.3 | 1173.1 | 1183.6 | 1183.4 | 1178.1 | 1165.6 | 1147.8 | 1124.0 | 1099.2 | 1060.1 |
| 20.5° | 1104.9 | 1134.7 | 1164.6 | 1174.8 | 1173.3 | 1168.6 | 1156.3 | 1137.3 | 1110.2 | 1083.4 | 1039.0 |
| 21°   | 1088.9 | 1122.5 | 1155.0 | 1165.1 | 1161.8 | 1157.5 | 1146.3 | 1125.5 | 1095.7 | 1065.6 | 1014.7 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 22.5° | 1033.5 | 1076.1 | 1121.5 | 1128.5 | 1120.0 | 1118.2 | 1110.4 | 1083.1 | 1043.3 | 1001.7 | 936.3 |
| 23°   | 1013.5 | 1057.8 | 1107.7 | 1114.0 | 1103.4 | 1102.2 | 1096.4 | 1066.3 | 1025.0 | 977.7  | 910.5 |
| 23.5° | 992.9  | 1038.5 | 1092.4 | 1097.7 | 1085.6 | 1084.9 | 1079.9 | 1047.6 | 1005.2 | 952.6  | 884.9 |
| 24°   | 970.1  | 1018.0 | 1075.4 | 1079.6 | 1068.1 | 1067.3 | 1061.8 | 1027.8 | 984.7  | 927.3  | 860.9 |
| 24.5° | 946.3  | 996.2  | 1056.1 | 1061.1 | 1050.8 | 1048.1 | 1041.0 | 1007.2 | 962.9  | 902.0  | 836.6 |
| 25°   | 921.5  | 973.6  | 1033.3 | 1041.0 | 1033.0 | 1029.0 | 1019.0 | 985.2  | 939.8  | 877.9  | 812.3 |
| 25.5° | 895.2  | 949.6  | 1009.0 | 1021.5 | 1015.2 | 1010.0 | 993.7  | 961.6  | 914.8  | 854.1  | 787.7 |
| 26°   | 868.4  | 923.5  | 981.2  | 1000.5 | 996.4  | 990.4  | 966.1  | 936.6  | 889.0  | 830.8  | 762.7 |
| 26.5° | 840.6  | 895.5  | 951.6  | 978.9  | 976.4  | 968.6  | 936.8  | 910.0  | 861.9  | 806.8  | 736.9 |
| 27°   | 812.8  | 866.4  | 920.8  | 955.6  | 955.1  | 946.1  | 908.5  | 881.9  | 835.1  | 782.5  | 710.3 |
| 27.5° | 785.2  | 835.8  | 890.5  | 932.1  | 931.3  | 922.3  | 879.7  | 852.6  | 806.8  | 757.9  | 682.5 |
| 28°   | 757.9  | 804.5  | 860.9  | 905.7  | 907.0  | 897.7  | 852.1  | 821.3  | 778.2  | 732.6  | 655.2 |
| 28.5° | 730.4  | 773.5  | 833.3  | 878.9  | 881.7  | 870.7  | 825.1  | 791.2  | 750.9  | 706.6  | 628.4 |
| 29°   | 702.0  | 742.9  | 807.0  | 850.4  | 857.4  | 842.9  | 800.8  | 761.7  | 721.3  | 679.2  | 602.8 |
| 29.5° | 674.0  | 711.8  | 782.2  | 821.3  | 832.3  | 814.0  | 775.5  | 732.9  | 692.0  | 650.2  | 577.5 |
| 30°   | 645.7  | 683.0  | 757.2  | 791.5  | 807.0  | 785.5  | 750.7  | 705.1  | 663.2  | 621.9  | 552.5 |
| 30.5° | 617.4  | 653.2  | 732.1  | 763.2  | 780.0  | 756.7  | 725.6  | 677.0  | 635.1  | 593.1  | 528.2 |
| 31°   | 587.8  | 624.6  | 705.3  | 735.1  | 752.7  | 729.1  | 699.8  | 649.4  | 606.1  | 565.0  | 503.6 |
| 31.5° | 558.7  | 595.6  | 678.0  | 707.3  | 722.8  | 701.5  | 672.0  | 621.9  | 577.5  | 537.2  | 479.1 |
| 32°   | 529.4  | 567.5  | 649.4  | 680.5  | 692.8  | 674.7  | 643.9  | 594.1  | 549.2  | 510.6  | 454.3 |
| 32.5° | 500.1  | 540.2  | 620.4  | 654.7  | 662.0  | 647.2  | 615.6  | 565.7  | 521.9  | 484.6  | 427.9 |
| 33°   | 470.8  | 513.1  | 590.8  | 628.1  | 631.1  | 620.6  | 587.3  | 536.7  | 493.6  | 459.0  | 402.1 |
| 33.5° | 441.7  | 486.1  | 562.2  | 601.3  | 600.8  | 592.8  | 559.2  | 508.9  | 466.0  | 433.2  | 376.8 |
| 34°   | 413.4  | 460.5  | 535.2  | 574.0  | 570.5  | 565.7  | 532.7  | 482.1  | 439.0  | 406.9  | 352.3 |
| 34.5° | 386.4  | 434.7  | 509.4  | 546.7  | 540.4  | 537.4  | 507.9  | 455.8  | 412.7  | 380.6  | 327.7 |
| 35°   | 360.8  | 409.4  | 483.3  | 518.4  | 510.4  | 509.9  | 482.1  | 430.4  | 386.4  | 354.3  | 304.4 |
| 35.5° | 336.2  | 385.3  | 458.8  | 490.3  | 481.3  | 483.1  | 457.5  | 405.9  | 361.3  | 328.7  | 281.9 |
| 36°   | 312.4  | 362.8  | 434.2  | 462.5  | 453.0  | 456.0  | 432.2  | 382.8  | 337.0  | 303.4  | 260.1 |
| 36.5° | 289.1  | 340.2  | 409.7  | 436.2  | 424.9  | 428.7  | 406.6  | 360.0  | 313.7  | 279.4  | 238.5 |
| 37°   | 267.1  | 317.4  | 384.3  | 410.2  | 398.1  | 401.9  | 380.6  | 337.7  | 289.9  | 256.1  | 217.0 |
| 37.5° | 246.3  | 295.7  | 359.5  | 385.1  | 372.6  | 375.6  | 354.8  | 315.4  | 268.6  | 235.8  | 195.4 |
| 38°   | 226.0  | 273.6  | 334.2  | 360.3  | 347.8  | 350.0  | 329.5  | 293.9  | 247.8  | 215.7  | 174.1 |
| 38.5° | 206.5  | 252.1  | 309.9  | 335.0  | 323.7  | 324.5  | 304.9  | 272.3  | 229.0  | 195.4  | 154.3 |
| 39°   | 188.4  | 231.0  | 287.1  | 311.2  | 300.2  | 300.2  | 280.9  | 251.1  | 210.2  | 175.4  | 136.0 |
| 39.5° | 171.1  | 210.7  | 265.1  | 287.4  | 277.1  | 276.1  | 258.6  | 231.0  | 191.4  | 158.8  | 119.3 |
| 40°   | 154.8  | 191.4  | 244.8  | 263.8  | 254.6  | 253.3  | 238.8  | 211.2  | 172.6  | 141.8  | 104.5 |
| 40.5° | 139.6  | 172.9  | 224.5  | 240.8  | 234.3  | 231.8  | 219.0  | 191.4  | 155.8  | 126.3  | 91.5  |
| 41°   | 125.0  | 155.3  | 205.5  | 218.0  | 214.0  | 210.5  | 199.2  | 171.6  | 140.6  | 111.7  | 80.2  |
| 41.5° | 112.0  | 139.3  | 186.7  | 196.7  | 193.7  | 189.2  | 179.4  | 154.1  | 125.8  | 98.2   | 70.4  |
| 42°   | 99.7   | 124.3  | 168.1  | 176.4  | 173.4  | 167.6  | 159.6  | 137.8  | 112.2  | 85.9   | 62.4  |
| 42.5° | 88.4   | 110.2  | 150.1  | 157.6  | 156.1  | 149.1  | 141.6  | 122.0  | 99.7   | 75.4   | 55.4  |
| 43°   | 79.4   | 97.0   | 132.0  | 139.8  | 138.8  | 131.5  | 124.0  | 107.5  | 88.2   | 65.9   | 48.6  |
| 43.5° | 70.7   | 85.9   | 115.3  | 123.3  | 123.3  | 115.5  | 107.7  | 94.5   | 77.4   | 57.6   | 42.8  |



TEST NUMBER: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 45°   | 44.1 | 56.6  | 74.9 | 83.4  | 79.9 | 75.2   | 67.9 | 60.6   | 50.4 | 38.1   | 28.6 |
| 45.5° | 37.8 | 47.1  | 64.6 | 73.2  | 67.6 | 64.4   | 57.4 | 51.9   | 43.1 | 32.8   | 25.6 |
| 46°   | 32.1 | 39.8  | 54.6 | 62.9  | 57.1 | 54.6   | 48.6 | 43.6   | 36.3 | 28.1   | 22.8 |
| 46.5° | 26.8 | 33.3  | 44.3 | 52.6  | 47.6 | 46.1   | 40.8 | 36.8   | 30.6 | 25.3   | 19.8 |
| 47°   | 22.5 | 27.6  | 37.3 | 42.6  | 39.3 | 38.3   | 34.1 | 30.6   | 27.3 | 22.3   | 17.0 |
| 47.5° | 18.8 | 22.8  | 30.8 | 35.3  | 32.3 | 31.8   | 30.8 | 27.3   | 24.1 | 19.5   | 14.0 |
| 48°   | 16.3 | 18.8  | 25.6 | 29.1  | 28.8 | 28.3   | 27.6 | 24.1   | 20.8 | 16.8   | 13.0 |
| 48.5° | 14.8 | 16.3  | 21.0 | 23.6  | 25.1 | 25.1   | 24.3 | 21.0   | 17.5 | 14.0   | 12.5 |
| 49°   | 14.0 | 14.8  | 17.8 | 19.3  | 21.5 | 21.5   | 21.0 | 17.8   | 14.3 | 13.3   | 12.0 |
| 49.5° | 13.3 | 14.0  | 15.8 | 16.5  | 18.0 | 18.0   | 17.5 | 14.8   | 13.5 | 12.5   | 11.5 |
| 50°   | 12.8 | 13.3  | 14.5 | 15.0  | 14.5 | 14.8   | 14.3 | 13.8   | 13.0 | 12.0   | 10.8 |
| 50.5° | 12.0 | 12.8  | 13.8 | 14.0  | 13.8 | 14.0   | 13.8 | 13.3   | 12.3 | 11.5   | 10.3 |
| 51°   | 11.5 | 12.0  | 13.3 | 13.5  | 13.3 | 13.3   | 13.0 | 12.5   | 11.8 | 10.8   | 9.5  |
| 51.5° | 10.8 | 11.5  | 12.5 | 12.8  | 12.5 | 12.5   | 12.3 | 11.8   | 11.0 | 10.3   | 9.0  |
| 52°   | 10.3 | 10.8  | 12.0 | 12.3  | 12.0 | 12.0   | 11.8 | 11.0   | 10.3 | 9.5    | 8.5  |
| 52.5° | 9.5  | 10.0  | 11.3 | 11.5  | 11.3 | 11.3   | 11.0 | 10.5   | 9.8  | 9.0    | 8.0  |
| 53°   | 9.0  | 9.5   | 10.5 | 10.8  | 10.5 | 10.5   | 10.3 | 9.8    | 9.0  | 8.5    | 7.5  |
| 53.5° | 8.5  | 8.8   | 9.8  | 10.0  | 9.8  | 9.8    | 9.5  | 9.3    | 8.5  | 8.0    | 7.0  |
| 54°   | 8.0  | 8.3   | 9.3  | 9.5   | 9.3  | 9.3    | 9.0  | 8.5    | 8.0  | 7.5    | 6.8  |
| 54.5° | 7.5  | 7.8   | 8.8  | 9.0   | 8.5  | 8.5    | 8.5  | 8.0    | 7.5  | 7.0    | 6.3  |
| 55°   | 7.0  | 7.5   | 8.0  | 8.3   | 8.0  | 8.0    | 8.0  | 7.5    | 7.0  | 6.8    | 6.0  |
| 55.5° | 6.5  | 7.0   | 7.5  | 7.8   | 7.5  | 7.5    | 7.5  | 7.0    | 6.8  | 6.3    | 5.5  |
| 56°   | 6.3  | 6.5   | 7.0  | 7.3   | 7.0  | 7.0    | 7.0  | 6.8    | 6.3  | 6.0    | 5.3  |
| 56.5° | 5.8  | 6.0   | 6.8  | 6.8   | 6.8  | 6.8    | 6.5  | 6.3    | 6.0  | 5.5    | 5.0  |
| 57°   | 5.5  | 5.8   | 6.3  | 6.5   | 6.3  | 6.3    | 6.3  | 6.0    | 5.5  | 5.3    | 4.8  |
| 57.5° | 5.0  | 5.3   | 5.8  | 6.0   | 5.8  | 5.8    | 5.8  | 5.5    | 5.3  | 5.0    | 4.5  |
| 58°   | 4.8  | 5.0   | 5.5  | 5.8   | 5.5  | 5.5    | 5.5  | 5.3    | 5.0  | 4.8    | 4.3  |
| 58.5° | 4.5  | 4.8   | 5.3  | 5.3   | 5.3  | 5.3    | 5.0  | 5.0    | 4.8  | 4.5    | 4.0  |
| 59°   | 4.3  | 4.5   | 4.8  | 5.0   | 4.8  | 4.8    | 4.8  | 4.8    | 4.5  | 4.3    | 3.8  |
| 59.5° | 4.0  | 4.3   | 4.5  | 4.8   | 4.5  | 4.5    | 4.5  | 4.3    | 4.3  | 4.0    | 3.5  |
| 60°   | 3.8  | 4.0   | 4.3  | 4.5   | 4.3  | 4.3    | 4.3  | 4.0    | 4.0  | 3.8    | 3.3  |
| 60.5° | 3.5  | 3.8   | 4.0  | 4.3   | 4.0  | 4.0    | 4.0  | 3.8    | 3.8  | 3.5    | 3.3  |
| 61°   | 3.5  | 3.5   | 3.8  | 4.0   | 3.8  | 3.8    | 3.8  | 3.8    | 3.5  | 3.3    | 3.0  |
| 61.5° | 3.3  | 3.3   | 3.5  | 3.8   | 3.5  | 3.5    | 3.5  | 3.5    | 3.3  | 3.0    | 2.8  |
| 62°   | 3.0  | 3.0   | 3.5  | 3.5   | 3.5  | 3.5    | 3.3  | 3.3    | 3.0  | 3.0    | 2.8  |
| 62.5° | 2.8  | 3.0   | 3.3  | 3.3   | 3.3  | 3.3    | 3.3  | 3.0    | 3.0  | 2.8    | 2.5  |
| 63°   | 2.8  | 2.8   | 3.0  | 3.0   | 3.0  | 3.0    | 3.0  | 3.0    | 2.8  | 2.8    | 2.5  |
| 63.5° | 2.5  | 2.5   | 2.8  | 3.0   | 2.8  | 2.8    | 2.8  | 2.8    | 2.5  | 2.5    | 2.3  |
| 64°   | 2.5  | 2.5   | 2.8  | 2.8   | 2.8  | 2.8    | 2.8  | 2.5    | 2.5  | 2.3    | 2.3  |
| 64.5° | 2.3  | 2.3   | 2.5  | 2.5   | 2.5  | 2.5    | 2.5  | 2.5    | 2.3  | 2.3    | 2.0  |
| 65°   | 2.3  | 2.3   | 2.5  | 2.5   | 2.3  | 2.3    | 2.3  | 2.3    | 2.3  | 2.0    | 2.0  |
| 65.5° | 2.0  | 2.0   | 2.3  | 2.3   | 2.3  | 2.3    | 2.3  | 2.3    | 2.0  | 2.0    | 1.8  |
| 66°   | 2.0  | 2.0   | 2.0  | 2.3   | 2.0  | 2.0    | 2.0  | 2.0    | 2.0  | 1.8    | 1.8  |





TEST NUMBER: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**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: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 | 1339.4 |
| 0.5°  | 1336.2 | 1338.9 | 1338.2 | 1338.2 | 1338.7 | 1339.7 |
| 1°    | 1334.2 | 1337.2 | 1336.7 | 1336.7 | 1337.9 | 1339.2 |
| 1.5°  | 1332.2 | 1335.2 | 1334.7 | 1335.2 | 1336.7 | 1338.7 |
| 2°    | 1329.7 | 1332.7 | 1332.4 | 1333.2 | 1335.2 | 1337.7 |
| 2.5°  | 1326.9 | 1330.2 | 1329.9 | 1330.9 | 1333.4 | 1336.4 |
| 3°    | 1324.2 | 1327.4 | 1327.2 | 1328.7 | 1331.4 | 1334.9 |
| 3.5°  | 1320.9 | 1324.2 | 1324.2 | 1325.9 | 1329.4 | 1333.4 |
| 4°    | 1317.4 | 1320.9 | 1320.9 | 1322.9 | 1326.7 | 1331.4 |
| 4.5°  | 1313.9 | 1317.1 | 1317.4 | 1319.7 | 1323.9 | 1329.2 |
| 5°    | 1309.6 | 1313.4 | 1313.6 | 1316.4 | 1320.9 | 1326.7 |
| 5.5°  | 1305.6 | 1309.1 | 1309.4 | 1312.6 | 1317.9 | 1323.9 |
| 6°    | 1300.9 | 1304.6 | 1305.1 | 1308.6 | 1314.1 | 1320.9 |
| 6.5°  | 1296.4 | 1299.9 | 1300.6 | 1304.1 | 1310.4 | 1317.7 |
| 7°    | 1291.1 | 1294.9 | 1295.6 | 1299.9 | 1306.4 | 1314.4 |
| 7.5°  | 1285.6 | 1289.6 | 1290.6 | 1294.9 | 1301.9 | 1310.4 |
| 8°    | 1280.1 | 1283.8 | 1285.1 | 1289.6 | 1297.4 | 1306.4 |
| 8.5°  | 1274.1 | 1278.1 | 1279.3 | 1284.1 | 1292.3 | 1301.9 |
| 9°    | 1267.8 | 1271.8 | 1273.3 | 1278.6 | 1287.1 | 1297.4 |
| 9.5°  | 1261.5 | 1265.5 | 1267.0 | 1272.3 | 1281.6 | 1292.3 |
| 10°   | 1254.5 | 1258.8 | 1260.3 | 1266.3 | 1275.8 | 1287.1 |
| 10.5° | 1247.5 | 1251.5 | 1253.3 | 1259.5 | 1269.5 | 1281.3 |
| 11°   | 1239.5 | 1244.0 | 1246.0 | 1252.3 | 1262.8 | 1275.8 |
| 11.5° | 1231.5 | 1235.7 | 1237.7 | 1244.5 | 1255.8 | 1269.5 |
| 12°   | 1222.9 | 1227.5 | 1229.2 | 1236.5 | 1248.2 | 1262.8 |
| 12.5° | 1213.7 | 1218.2 | 1219.9 | 1227.2 | 1240.0 | 1255.5 |
| 13°   | 1204.2 | 1208.4 | 1210.2 | 1218.2 | 1231.7 | 1247.7 |
| 13.5° | 1194.1 | 1198.6 | 1200.6 | 1208.7 | 1222.4 | 1239.5 |
| 14°   | 1183.6 | 1188.4 | 1190.4 | 1198.6 | 1213.2 | 1231.0 |
| 14.5° | 1173.6 | 1178.1 | 1180.1 | 1188.9 | 1203.4 | 1221.9 |
| 15°   | 1164.3 | 1168.3 | 1170.3 | 1178.6 | 1193.9 | 1212.7 |
| 15.5° | 1155.5 | 1159.3 | 1161.6 | 1169.6 | 1184.4 | 1203.4 |
| 16°   | 1146.8 | 1150.8 | 1153.0 | 1161.1 | 1175.8 | 1194.6 |
| 16.5° | 1138.0 | 1142.3 | 1144.3 | 1152.8 | 1167.8 | 1186.6 |
| 17°   | 1129.5 | 1133.7 | 1135.8 | 1144.5 | 1159.8 | 1178.3 |
| 17.5° | 1120.2 | 1124.7 | 1127.0 | 1136.3 | 1151.5 | 1170.6 |
| 18°   | 1108.2 | 1114.5 | 1117.0 | 1127.2 | 1143.3 | 1162.6 |
| 18.5° | 1094.7 | 1100.7 | 1103.9 | 1116.7 | 1133.7 | 1154.0 |
| 19°   | 1079.1 | 1085.4 | 1089.9 | 1103.9 | 1122.5 | 1144.0 |
| 19.5° | 1061.3 | 1067.1 | 1072.9 | 1089.1 | 1109.4 | 1132.5 |
| 20°   | 1041.3 | 1046.1 | 1053.8 | 1071.4 | 1094.4 | 1119.7 |
| 20.5° | 1019.5 | 1023.8 | 1032.5 | 1051.8 | 1076.9 | 1104.9 |
| 21°   | 996.4  | 1000.5 | 1009.7 | 1029.5 | 1057.3 | 1088.9 |



TEST NUMBER: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°   |
|-------|--------|-------|--------|-------|--------|--------|
| 22.5° | 918.3  | 931.0 | 934.1  | 951.8 | 987.4  | 1033.5 |
| 23°   | 891.0  | 908.0 | 908.0  | 924.5 | 961.1  | 1013.5 |
| 23.5° | 863.4  | 882.9 | 881.4  | 897.5 | 936.1  | 992.9  |
| 24°   | 837.1  | 856.6 | 853.6  | 870.7 | 911.0  | 970.1  |
| 24.5° | 809.8  | 828.8 | 825.8  | 845.6 | 887.0  | 946.3  |
| 25°   | 783.2  | 799.5 | 798.5  | 819.6 | 863.7  | 921.5  |
| 25.5° | 757.4  | 770.9 | 770.9  | 794.5 | 840.4  | 895.2  |
| 26°   | 731.9  | 741.1 | 742.6  | 769.2 | 816.5  | 868.4  |
| 26.5° | 705.3  | 712.6 | 714.8  | 744.4 | 792.2  | 840.6  |
| 27°   | 679.0  | 682.5 | 687.8  | 717.8 | 766.7  | 812.8  |
| 27.5° | 652.2  | 653.2 | 660.7  | 691.0 | 740.1  | 785.2  |
| 28°   | 626.1  | 624.4 | 633.4  | 663.2 | 711.6  | 757.9  |
| 28.5° | 599.6  | 595.1 | 607.6  | 635.4 | 683.0  | 730.4  |
| 29°   | 573.0  | 565.5 | 580.5  | 607.8 | 652.7  | 702.0  |
| 29.5° | 546.5  | 537.9 | 554.2  | 581.8 | 624.9  | 674.0  |
| 30°   | 520.1  | 510.9 | 527.2  | 555.2 | 595.8  | 645.7  |
| 30.5° | 493.3  | 484.1 | 500.4  | 529.4 | 568.8  | 617.4  |
| 31°   | 467.3  | 458.5 | 472.0  | 503.9 | 541.7  | 587.8  |
| 31.5° | 441.0  | 434.5 | 445.0  | 479.8 | 515.4  | 558.7  |
| 32°   | 415.7  | 410.4 | 419.2  | 455.5 | 489.3  | 529.4  |
| 32.5° | 390.4  | 387.1 | 394.4  | 431.2 | 464.5  | 500.1  |
| 33°   | 366.6  | 363.6 | 370.6  | 405.9 | 438.7  | 470.8  |
| 33.5° | 342.8  | 339.7 | 347.8  | 381.1 | 412.4  | 441.7  |
| 34°   | 320.0  | 317.4 | 325.2  | 356.5 | 385.6  | 413.4  |
| 34.5° | 298.2  | 295.9 | 303.7  | 331.7 | 359.8  | 386.4  |
| 35°   | 276.6  | 275.4 | 282.1  | 307.9 | 333.5  | 360.8  |
| 35.5° | 255.6  | 255.8 | 262.3  | 284.9 | 307.9  | 336.2  |
| 36°   | 237.3  | 238.0 | 242.3  | 262.6 | 283.4  | 312.4  |
| 36.5° | 219.2  | 220.2 | 223.0  | 241.0 | 260.1  | 289.1  |
| 37°   | 200.9  | 203.7 | 204.7  | 220.0 | 238.0  | 267.1  |
| 37.5° | 182.9  | 187.4 | 187.4  | 199.4 | 217.0  | 246.3  |
| 38°   | 164.6  | 171.4 | 171.4  | 179.4 | 196.9  | 226.0  |
| 38.5° | 149.8  | 156.6 | 155.8  | 160.4 | 177.6  | 206.5  |
| 39°   | 135.0  | 142.6 | 141.6  | 142.6 | 159.6  | 188.4  |
| 39.5° | 121.3  | 129.3 | 128.0  | 125.8 | 142.6  | 171.1  |
| 40°   | 108.0  | 117.0 | 115.3  | 110.0 | 125.8  | 154.8  |
| 40.5° | 96.5   | 105.0 | 103.0  | 96.5  | 111.0  | 139.6  |
| 41°   | 84.9   | 94.2  | 91.5   | 85.4  | 97.2   | 125.0  |
| 41.5° | 74.9   | 85.2  | 82.7   | 76.9  | 85.2   | 112.0  |
| 42°   | 65.6   | 76.4  | 73.9   | 68.4  | 76.7   | 99.7   |
| 42.5° | 57.6   | 67.6  | 65.4   | 60.1  | 68.2   | 88.4   |
| 43°   | 50.4   | 58.9  | 56.6   | 51.6  | 59.6   | 79.4   |
| 43.5° | 43.8   | 50.1  | 47.9   | 45.6  | 51.1   | 70.7   |



TEST NUMBER: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 45°   | 29.1   | 31.6 | 30.6   | 30.6 | 34.1   | 44.1 |
| 45.5° | 25.6   | 26.6 | 25.8   | 26.6 | 29.8   | 37.8 |
| 46°   | 21.8   | 22.0 | 22.0   | 22.8 | 25.6   | 32.1 |
| 46.5° | 18.3   | 18.3 | 18.5   | 19.5 | 21.8   | 26.8 |
| 47°   | 14.8   | 15.8 | 15.8   | 16.8 | 18.5   | 22.5 |
| 47.5° | 13.5   | 14.3 | 14.3   | 15.0 | 16.3   | 18.8 |
| 48°   | 12.8   | 13.3 | 13.5   | 14.0 | 14.8   | 16.3 |
| 48.5° | 12.3   | 12.8 | 12.8   | 13.3 | 13.8   | 14.8 |
| 49°   | 11.8   | 12.3 | 12.3   | 12.8 | 13.3   | 14.0 |
| 49.5° | 11.0   | 11.5 | 11.8   | 12.0 | 12.8   | 13.3 |
| 50°   | 10.5   | 11.0 | 11.0   | 11.5 | 12.0   | 12.8 |
| 50.5° | 9.8    | 10.3 | 10.5   | 10.8 | 11.5   | 12.0 |
| 51°   | 9.3    | 9.8  | 9.8    | 10.3 | 10.8   | 11.5 |
| 51.5° | 8.8    | 9.3  | 9.3    | 9.5  | 10.3   | 10.8 |
| 52°   | 8.3    | 8.5  | 8.8    | 9.0  | 9.5    | 10.3 |
| 52.5° | 7.8    | 8.0  | 8.3    | 8.5  | 9.0    | 9.5  |
| 53°   | 7.3    | 7.5  | 7.8    | 8.0  | 8.5    | 9.0  |
| 53.5° | 7.0    | 7.3  | 7.3    | 7.5  | 8.0    | 8.5  |
| 54°   | 6.5    | 6.8  | 6.8    | 7.3  | 7.5    | 8.0  |
| 54.5° | 6.3    | 6.3  | 6.5    | 6.8  | 7.0    | 7.5  |
| 55°   | 5.8    | 6.0  | 6.0    | 6.3  | 6.8    | 7.0  |
| 55.5° | 5.5    | 5.8  | 5.8    | 6.0  | 6.3    | 6.5  |
| 56°   | 5.3    | 5.3  | 5.5    | 5.8  | 6.0    | 6.3  |
| 56.5° | 4.8    | 5.0  | 5.0    | 5.3  | 5.5    | 5.8  |
| 57°   | 4.5    | 4.8  | 4.8    | 5.0  | 5.3    | 5.5  |
| 57.5° | 4.3    | 4.5  | 4.5    | 4.8  | 5.0    | 5.0  |
| 58°   | 4.0    | 4.3  | 4.3    | 4.5  | 4.8    | 4.8  |
| 58.5° | 4.0    | 4.0  | 4.0    | 4.3  | 4.5    | 4.5  |
| 59°   | 3.8    | 3.8  | 3.8    | 4.0  | 4.3    | 4.3  |
| 59.5° | 3.5    | 3.5  | 3.8    | 3.8  | 4.0    | 4.0  |
| 60°   | 3.3    | 3.5  | 3.5    | 3.5  | 3.8    | 3.8  |
| 60.5° | 3.0    | 3.3  | 3.3    | 3.3  | 3.5    | 3.5  |
| 61°   | 3.0    | 3.0  | 3.0    | 3.3  | 3.3    | 3.5  |
| 61.5° | 2.8    | 2.8  | 3.0    | 3.0  | 3.0    | 3.3  |
| 62°   | 2.8    | 2.8  | 2.8    | 2.8  | 3.0    | 3.0  |
| 62.5° | 2.5    | 2.5  | 2.5    | 2.8  | 2.8    | 2.8  |
| 63°   | 2.3    | 2.5  | 2.5    | 2.5  | 2.5    | 2.8  |
| 63.5° | 2.3    | 2.3  | 2.3    | 2.5  | 2.5    | 2.5  |
| 64°   | 2.0    | 2.3  | 2.3    | 2.3  | 2.3    | 2.5  |
| 64.5° | 2.0    | 2.0  | 2.0    | 2.0  | 2.3    | 2.3  |
| 65°   | 2.0    | 2.0  | 2.0    | 2.0  | 2.0    | 2.3  |
| 65.5° | 1.8    | 1.8  | 1.8    | 2.0  | 2.0    | 2.0  |
| 66°   | 1.8    | 1.8  | 1.8    | 1.8  | 1.8    | 2.0  |



TEST NUMBER: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 1.5    | 1.5  | 1.5    | 1.5  | 1.5    | 1.5  |
| 68°   | 1.3    | 1.5  | 1.5    | 1.5  | 1.5    | 1.5  |
| 68.5° | 1.3    | 1.3  | 1.3    | 1.3  | 1.3    | 1.5  |
| 69°   | 1.3    | 1.3  | 1.3    | 1.3  | 1.3    | 1.3  |
| 69.5° | 1.0    | 1.3  | 1.3    | 1.3  | 1.3    | 1.3  |
| 70°   | 1.0    | 1.0  | 1.0    | 1.0  | 1.3    | 1.3  |
| 70.5° | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 71°   | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 71.5° | 1.0    | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 72°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 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° | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 74°   | 0.8    | 0.8  | 0.8    | 0.8  | 0.8    | 0.8  |
| 74.5° | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 75°   | 0.5    | 0.5  | 0.5    | 0.5  | 0.5    | 0.5  |
| 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  | 0.5    | 0.5  | 0.5    | 0.5  |
| 77.5° | 0.3    | 0.5  | 0.5    | 0.5  | 0.3    | 0.3  |
| 78°   | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 78.5° | 0.3    | 0.3  | 0.3    | 0.3  | 0.3    | 0.3  |
| 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  | 0.0    | 0.0  |
| 82°   | 0.3    | 0.3  | 0.3    | 0.3  | 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  |



TEST NUMBER: P775967

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-3500K

**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  |



Report Generated By 670245859 / DESKTOP-T8S5UU9



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





|       |        |        |        |        |        |        |        |        |        |        |       |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 21.5° | 1071.4 | 1108.4 | 1144.8 | 1153.8 | 1149.3 | 1145.8 | 1135.2 | 1112.7 | 1079.1 | 1045.8 | 989.4 |
| 22°   | 1052.6 | 1092.9 | 1133.2 | 1142.0 | 1135.2 | 1132.5 | 1123.7 | 1098.9 | 1061.6 | 1024.5 | 962.9 |



|       |      |      |      |       |       |       |      |      |      |      |      |
|-------|------|------|------|-------|-------|-------|------|------|------|------|------|
| 44°   | 61.9 | 76.2 | 99.5 | 108.0 | 107.5 | 100.5 | 93.0 | 81.9 | 67.4 | 50.4 | 37.8 |
| 44.5° | 52.9 | 66.4 | 85.2 | 93.7  | 93.2  | 87.2  | 79.7 | 70.7 | 58.4 | 43.8 | 33.1 |



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



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





|       |       |       |       |        |        |        |
|-------|-------|-------|-------|--------|--------|--------|
| 21.5° | 971.9 | 977.2 | 985.7 | 1005.0 | 1035.8 | 1071.4 |
| 22°   | 946.1 | 953.6 | 960.4 | 979.2  | 1012.0 | 1052.6 |



|       |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|
| 44°   | 38.1 | 43.3 | 41.3 | 40.1 | 44.8 | 61.9 |
| 44.5° | 32.6 | 37.3 | 35.8 | 35.3 | 39.3 | 52.9 |

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Peachtree City, GA 30269

Scaled Data Report



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

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Peachtree City, GA 30269

Scaled Data Report



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

Signify Classified - Internal  
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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)