

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: P776047

Luminaire Tested: HCDJBL51525CSD-HCD61TRMW-2500lm-3500K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B037)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD61TRMW-2500lm-3500K  
Description: 6 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

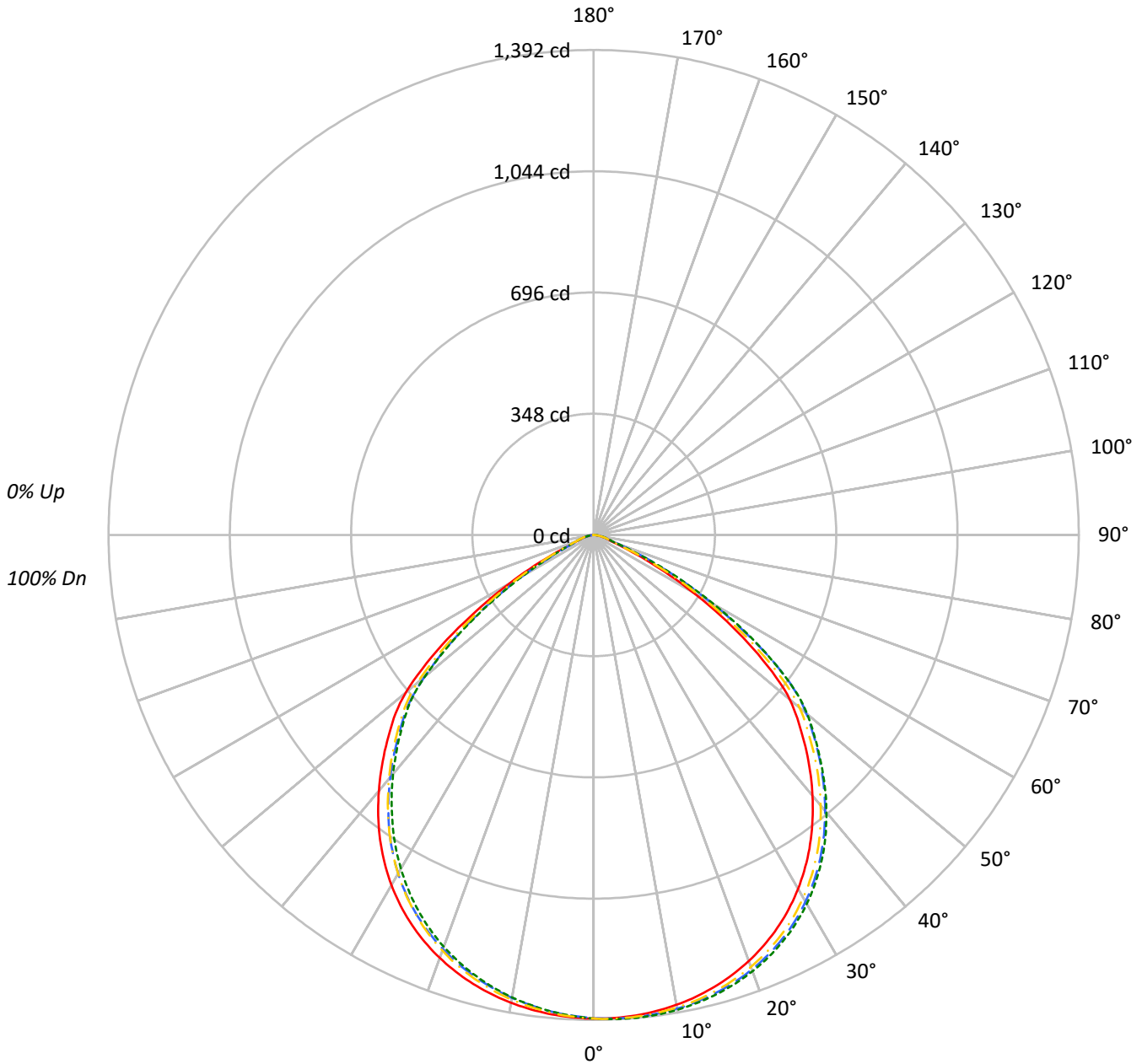
Lumens per Lamp: N/A  
Luminaire Lumens: 3062.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.32  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P776047  
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-3500K

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

RF	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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34								
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30								

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

	0°	90°	180°	270°
0°	76074	76074	76074	76074
5°	76183	76568	76018	75589
10°	76240	77036	75906	75026
15°	76181	77447	75727	74331
20°	75922	77753	75367	73361
25°	75337	77811	74684	71986
30°	74239	77411	73461	70030
35°	72464	76339	71487	67378
40°	69910	74361	68621	64063
45°	66604	71504	64991	60185
50°	62659	68262	59921	53934
55°	51668	59458	47071	40285
60°	35852	43736	30732	25371
65°	19418	25826	14671	12985
70°	9248	10979	8078	8046
75°	7434	8388	6164	6481
80°	5619	6882	4199	4893
85°	3459	5535	1761	2830

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 73504 cd/sqm



TEST NUMBER: P776047

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	4.3
10°-20°	377.3	12.3
20°-30°	570.2	18.6
30°-40°	670.6	21.9
40°-50°	653.1	21.3
50°-60°	460.7	15.0
60°-70°	154.3	5.0
70°-80°	37.3	1.2
80°-90°	7.4	0.2
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°	1079.0	35.2
0°-40°	1749.6	57.1
0°-60°	2863.3	93.5
0°-90°	3062.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1388	1388	1388	1388	1388	
5°	1384	1391	1381	1374	1384	132
15°	1342	1365	1334	1310	1342	379
25°	1246	1286	1235	1190	1246	573
35°	1083	1141	1068	1007	1083	676
45°	859	922	838	776	859	662
55°	541	622	492	422	541	479
65°	150	199	113	100	150	161
75°	35	40	29	31	35	38
85°	6	9	3	4	6	7
90°	0	0	0	0	0	



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1387.7	1387.7	1387.7	1387.7	1387.7	1387.7	1387.7	1387.7	1387.7	1387.7	1387.7
0.5°	1388.4	1388.2	1387.4	1386.2	1388.9	1389.2	1388.9	1388.9	1388.2	1387.2	1385.9
1°	1388.4	1388.4	1388.2	1387.2	1389.7	1389.7	1389.4	1388.9	1387.9	1386.7	1384.9
1.5°	1388.4	1388.7	1388.4	1387.9	1390.2	1390.2	1389.7	1388.7	1387.2	1385.7	1383.9
2°	1388.2	1388.7	1388.9	1388.7	1390.7	1390.4	1389.7	1388.4	1386.7	1384.9	1382.7
2.5°	1387.7	1388.7	1389.2	1389.2	1391.2	1390.4	1389.7	1388.2	1386.2	1383.9	1381.7
3°	1387.4	1388.7	1389.4	1389.7	1391.2	1390.7	1389.7	1387.7	1385.2	1382.9	1380.1
3.5°	1386.7	1388.7	1389.7	1390.2	1391.4	1390.7	1389.4	1387.2	1384.4	1381.7	1378.6
4°	1386.2	1388.2	1389.4	1390.4	1391.4	1390.7	1389.2	1386.7	1383.7	1380.4	1377.1
4.5°	1385.2	1387.7	1389.4	1390.7	1391.7	1390.4	1388.9	1385.7	1382.4	1378.9	1375.1
5°	1384.4	1387.2	1389.2	1390.7	1391.4	1390.2	1388.2	1384.9	1381.4	1377.4	1373.6
5.5°	1383.4	1386.7	1388.7	1390.4	1391.2	1389.7	1387.7	1383.9	1380.1	1375.9	1371.6
6°	1382.4	1385.7	1388.4	1390.4	1390.7	1389.2	1387.2	1382.9	1378.6	1374.1	1369.6
6.5°	1381.2	1384.9	1387.7	1390.2	1390.2	1388.7	1386.2	1381.7	1377.1	1372.1	1367.4
7°	1379.9	1383.9	1386.9	1389.7	1389.7	1387.7	1385.4	1380.4	1375.6	1370.4	1365.1
7.5°	1378.4	1382.9	1386.2	1389.2	1388.9	1386.9	1384.4	1378.9	1373.9	1368.4	1362.6
8°	1376.9	1381.7	1385.2	1388.7	1388.2	1385.9	1383.2	1377.4	1372.1	1366.1	1360.3
8.5°	1375.1	1380.4	1384.4	1388.2	1387.2	1384.9	1381.7	1375.9	1370.1	1363.8	1357.6
9°	1373.4	1378.9	1383.2	1387.2	1386.2	1383.7	1380.4	1374.1	1368.1	1361.3	1355.1
9.5°	1371.4	1377.4	1381.9	1386.2	1385.2	1382.4	1379.1	1372.4	1365.9	1358.8	1352.1
10°	1369.6	1375.6	1380.6	1385.2	1383.9	1380.9	1377.4	1370.1	1363.6	1356.3	1349.3
10.5°	1367.4	1373.9	1379.1	1384.2	1382.4	1379.1	1375.6	1368.1	1361.1	1353.6	1346.0
11°	1365.1	1371.9	1377.4	1382.7	1380.9	1377.6	1373.9	1365.9	1358.6	1350.8	1343.0
11.5°	1362.6	1369.9	1375.9	1381.4	1379.1	1375.6	1371.9	1363.6	1356.1	1347.8	1339.8
12°	1360.1	1367.6	1373.9	1379.9	1377.4	1373.9	1369.9	1361.1	1353.3	1344.8	1336.5
12.5°	1357.3	1365.4	1371.9	1378.1	1375.6	1371.9	1367.6	1358.6	1350.3	1341.5	1333.0
13°	1354.6	1362.8	1369.9	1376.4	1373.6	1369.9	1365.4	1355.8	1347.3	1338.3	1329.2
13.5°	1351.6	1360.6	1367.6	1374.6	1371.6	1367.4	1362.8	1353.1	1344.3	1334.8	1325.5
14°	1348.6	1357.8	1365.4	1372.6	1369.4	1365.1	1360.3	1350.1	1341.0	1331.3	1321.7
14.5°	1345.5	1355.1	1362.8	1370.6	1366.9	1362.6	1357.6	1347.0	1337.5	1327.5	1317.5
15°	1342.3	1352.1	1360.3	1368.1	1364.6	1360.1	1354.8	1343.8	1334.3	1324.0	1313.4
15.5°	1338.8	1349.1	1357.6	1365.9	1362.1	1357.1	1351.8	1340.5	1330.5	1320.0	1309.2
16°	1335.3	1345.8	1354.8	1363.3	1359.3	1354.3	1348.6	1337.0	1327.0	1316.0	1304.9
16.5°	1331.5	1342.5	1351.6	1361.1	1356.3	1351.3	1345.5	1333.5	1323.0	1311.7	1300.4
17°	1327.5	1339.0	1348.8	1358.1	1353.6	1348.1	1342.3	1329.7	1319.0	1307.4	1295.6
17.5°	1323.5	1335.5	1345.5	1355.3	1350.3	1344.8	1338.8	1325.7	1314.7	1302.9	1290.9
18°	1319.5	1331.8	1342.3	1352.3	1347.0	1341.5	1335.0	1321.7	1310.4	1298.4	1286.1
18.5°	1315.2	1328.0	1338.8	1349.1	1343.5	1337.8	1331.3	1317.7	1306.2	1293.6	1280.8
19°	1310.7	1324.0	1335.0	1345.8	1340.3	1334.3	1327.5	1313.4	1301.4	1288.9	1275.8
19.5°	1306.2	1319.7	1331.3	1342.5	1336.5	1330.2	1323.5	1308.9	1296.6	1283.9	1270.6
20°	1301.4	1315.5	1327.2	1339.0	1332.8	1326.2	1319.5	1304.4	1291.9	1278.6	1265.1
20.5°	1296.6	1311.2	1323.5	1335.3	1328.7	1322.0	1315.0	1299.7	1286.9	1273.3	1259.3
21°	1291.6	1306.4	1319.2	1331.5	1324.7	1317.7	1310.4	1294.6	1281.9	1268.1	1253.8



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1275.3	1291.9	1305.7	1319.5	1311.4	1303.9	1296.1	1279.3	1265.3	1250.8	1235.7
23°	1269.8	1286.9	1300.9	1315.0	1306.7	1299.2	1291.1	1273.8	1259.3	1244.7	1228.9
23.5°	1264.0	1281.4	1295.9	1310.4	1301.9	1294.1	1285.9	1268.1	1253.5	1238.5	1222.7
24°	1258.0	1275.8	1290.6	1305.9	1296.9	1288.9	1280.3	1262.3	1247.2	1232.2	1215.9
24.5°	1252.0	1270.1	1285.4	1300.9	1291.6	1283.4	1274.8	1256.3	1241.0	1225.4	1209.1
25°	1245.5	1264.0	1279.8	1295.9	1286.4	1277.8	1269.3	1250.3	1234.7	1218.9	1202.1
25.5°	1239.0	1258.0	1274.3	1290.6	1280.8	1272.1	1263.3	1243.7	1227.9	1212.1	1194.6
26°	1232.2	1251.8	1268.3	1285.4	1275.1	1266.3	1257.3	1237.2	1221.2	1205.1	1187.3
26.5°	1225.7	1245.5	1262.5	1279.8	1269.3	1260.0	1251.3	1230.7	1214.1	1197.6	1179.8
27°	1218.4	1238.7	1256.3	1274.1	1263.3	1254.0	1244.7	1223.7	1207.1	1190.6	1172.0
27.5°	1211.4	1232.2	1250.0	1268.3	1257.0	1247.5	1238.0	1216.7	1199.9	1183.1	1164.2
28°	1203.9	1225.4	1243.7	1262.3	1250.5	1240.7	1231.5	1209.6	1192.3	1175.0	1156.0
28.5°	1196.6	1218.2	1237.0	1256.3	1244.0	1234.0	1224.4	1202.4	1184.6	1167.3	1147.9
29°	1188.8	1210.9	1230.2	1249.8	1237.2	1226.9	1217.2	1194.8	1176.8	1159.0	1139.4
29.5°	1180.8	1203.6	1222.9	1243.2	1230.2	1219.7	1209.9	1187.1	1168.5	1150.7	1130.9
30°	1172.8	1195.8	1215.9	1236.5	1222.9	1212.6	1202.6	1179.0	1160.5	1142.2	1121.9
30.5°	1164.8	1188.1	1208.6	1229.4	1215.7	1204.9	1194.6	1171.0	1152.0	1133.4	1112.8
31°	1156.2	1180.3	1200.9	1222.7	1208.1	1197.1	1186.8	1162.7	1143.4	1124.6	1103.8
31.5°	1147.7	1172.0	1193.1	1215.2	1200.4	1189.1	1179.0	1154.2	1134.7	1115.6	1094.3
32°	1138.9	1163.5	1185.1	1207.6	1192.6	1181.0	1170.5	1145.4	1125.6	1106.3	1084.8
32.5°	1129.9	1155.2	1177.0	1199.9	1184.3	1172.8	1162.0	1136.7	1116.6	1096.8	1074.7
33°	1120.9	1146.4	1168.5	1192.1	1176.0	1164.0	1153.5	1127.9	1107.3	1087.3	1065.0
33.5°	1111.6	1137.4	1160.0	1183.8	1167.5	1155.2	1144.7	1118.6	1097.5	1077.2	1055.2
34°	1102.1	1128.6	1151.5	1175.8	1159.0	1146.4	1135.7	1109.1	1087.8	1067.2	1044.6
34.5°	1092.8	1119.4	1142.4	1167.3	1150.0	1137.4	1126.4	1099.6	1078.0	1057.2	1034.4
35°	1082.8	1110.1	1133.4	1158.5	1140.7	1128.1	1117.1	1090.0	1068.2	1046.9	1023.6
35.5°	1073.0	1100.3	1124.1	1149.7	1131.4	1118.9	1107.3	1080.0	1057.9	1036.1	1012.8
36°	1062.4	1090.5	1114.6	1140.7	1122.1	1108.8	1097.8	1070.0	1047.4	1025.6	1001.5
36.5°	1052.4	1080.7	1105.1	1131.4	1112.3	1098.8	1087.8	1059.7	1036.6	1014.5	990.5
37°	1042.4	1070.7	1095.0	1122.1	1102.3	1088.8	1077.5	1049.4	1026.1	1003.5	979.2
37.5°	1031.6	1060.7	1085.5	1112.3	1092.0	1078.5	1067.2	1038.6	1015.3	992.5	967.9
38°	1020.8	1050.2	1075.2	1102.6	1082.0	1068.2	1056.9	1027.8	1004.5	981.2	956.1
38.5°	1010.0	1039.6	1065.0	1092.5	1071.2	1057.7	1046.1	1017.1	993.0	969.7	944.1
39°	999.0	1028.8	1054.4	1082.5	1060.9	1046.6	1035.4	1005.8	981.7	957.9	932.3
39.5°	988.2	1018.1	1043.9	1072.0	1049.9	1035.9	1024.3	994.5	970.4	945.8	920.3
40°	976.9	1007.3	1033.1	1061.4	1039.1	1024.8	1013.3	983.5	958.9	934.1	908.0
40.5°	965.4	996.0	1022.3	1050.7	1027.8	1013.5	1002.0	971.9	947.3	922.0	896.2
41°	954.1	984.7	1011.0	1039.9	1016.8	1002.0	990.7	960.4	935.3	909.7	883.4
41.5°	942.6	973.4	999.8	1028.6	1005.5	990.7	978.9	948.3	923.5	897.7	871.1
42°	930.8	962.1	988.5	1017.6	994.0	979.2	967.4	936.6	911.5	885.4	858.6
42.5°	919.0	950.6	977.2	1006.3	982.2	967.4	956.1	924.8	899.5	873.1	846.0
43°	907.2	938.8	965.4	995.0	970.4	955.6	944.1	912.7	887.4	860.3	833.0
43.5°	895.4	927.0	953.9	983.2	958.6	943.8	931.8	900.7	875.1	847.8	820.5



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	859.1	891.2	918.3	948.1	922.3	907.2	895.4	863.6	838.3	810.4	783.4
45.5°	846.8	878.9	906.5	936.1	910.0	894.9	883.2	851.3	826.0	798.4	771.3
46°	834.5	866.6	894.2	924.0	897.9	882.4	870.6	839.0	813.4	786.1	759.5
46.5°	822.0	854.3	881.9	911.7	885.4	870.1	858.1	826.5	801.2	773.8	747.5
47°	809.9	842.3	869.6	899.5	872.9	858.1	846.0	814.4	789.4	762.0	734.7
47.5°	797.9	830.0	857.6	887.2	860.8	846.0	834.0	802.4	777.3	749.3	721.2
48°	785.9	817.7	845.0	874.6	849.1	833.8	822.0	790.4	764.3	735.5	706.4
48.5°	773.3	805.7	833.0	862.6	836.8	822.2	809.7	777.6	750.5	720.4	689.6
49°	761.5	793.6	820.7	850.3	824.7	809.7	797.6	763.3	736.0	703.9	671.8
49.5°	748.2	781.1	808.9	837.8	812.7	797.6	784.9	748.7	719.9	686.1	652.5
50°	734.7	768.6	796.6	825.7	800.4	784.1	770.8	733.2	702.6	667.3	633.2
50.5°	719.9	754.8	783.9	813.7	786.9	770.1	756.3	716.7	684.6	648.7	613.8
51°	703.1	740.0	770.1	801.4	772.6	754.5	740.5	698.9	666.0	628.9	593.5
51.5°	684.3	723.4	755.3	788.4	757.5	736.7	722.9	679.5	645.7	608.8	573.2
52°	665.2	705.9	739.7	774.3	740.5	718.7	704.1	659.0	624.9	588.3	552.4
52.5°	645.4	687.1	722.4	759.5	721.9	700.4	685.6	637.9	603.8	567.5	531.8
53°	625.1	667.3	704.4	743.7	703.4	680.8	665.2	616.4	582.2	545.6	511.0
53.5°	604.1	646.7	684.8	726.7	683.6	661.0	644.9	594.0	560.4	524.1	490.2
54°	583.3	626.4	664.2	708.1	663.5	640.9	623.9	572.0	537.9	502.8	469.7
54.5°	561.9	605.1	642.4	688.3	642.7	620.9	602.6	550.2	515.5	481.2	448.6
55°	540.6	583.5	620.6	667.3	622.1	600.1	580.5	527.1	492.5	458.9	427.3
55.5°	519.1	560.9	598.3	645.7	600.8	578.7	558.7	505.0	469.9	437.3	406.7
56°	498.0	538.6	575.5	623.4	579.2	556.9	536.6	482.4	447.1	415.7	385.9
56.5°	475.9	516.1	552.2	600.8	557.2	534.9	514.3	460.9	424.8	394.2	365.3
57°	454.6	493.0	528.6	578.0	534.9	512.8	491.7	439.1	403.0	373.1	345.3
57.5°	433.1	470.4	505.8	554.9	512.0	490.7	469.7	417.8	381.4	352.1	325.7
58°	411.2	447.3	483.0	532.3	489.7	468.2	447.6	396.2	360.1	331.2	306.2
58.5°	389.9	424.3	459.6	509.5	466.9	445.1	425.8	374.9	339.0	311.2	286.9
59°	368.9	402.2	436.8	487.0	444.1	422.3	403.7	353.6	319.0	290.9	268.3
59.5°	348.0	380.1	414.7	464.9	421.5	399.5	382.1	333.5	299.4	271.6	250.5
60°	327.0	358.3	393.2	442.6	398.9	377.1	360.8	312.9	280.3	252.5	233.5
60.5°	306.4	337.3	371.6	420.8	376.9	354.8	339.8	293.4	261.8	235.7	216.4
61°	287.1	316.5	349.6	398.7	355.3	333.0	319.2	273.6	243.5	218.9	199.3
61.5°	267.3	296.1	329.0	378.1	334.3	311.7	298.9	255.0	226.4	202.4	182.3
62°	248.7	276.3	308.9	356.3	313.2	290.6	278.6	237.7	209.4	185.6	165.2
62.5°	230.7	257.3	289.4	335.8	292.4	269.8	258.8	220.2	192.1	168.8	150.7
63°	213.4	239.0	270.1	315.4	272.3	250.3	241.0	202.9	175.0	154.5	136.9
63.5°	196.3	220.9	251.0	295.4	252.8	231.9	222.9	185.6	157.7	141.2	124.1
64°	180.3	203.9	233.0	275.6	234.7	213.9	204.9	168.3	141.9	128.4	112.3
64.5°	164.7	187.3	215.4	256.0	216.9	195.6	187.1	152.7	126.9	116.3	101.6
65°	149.7	171.8	198.6	237.5	199.1	177.5	169.0	138.2	113.1	105.3	92.0
65.5°	135.4	156.7	182.5	219.4	181.0	161.5	152.7	124.4	100.1	95.0	83.5
66°	121.9	143.2	167.0	201.6	163.2	145.9	137.7	111.6	89.0	86.3	76.5





TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	88.0	106.3	124.4	152.2	119.6	106.1	98.8	80.0	64.7	65.2	60.9
68°	81.2	95.8	111.8	137.7	106.6	94.8	88.5	72.2	60.2	60.4	57.4
68.5°	74.7	87.3	100.3	123.6	95.5	84.5	79.5	65.7	57.4	56.4	54.9
69°	68.0	80.5	90.3	110.8	85.0	75.7	72.0	60.4	55.2	53.7	52.7
69.5°	61.2	74.0	83.5	98.8	76.2	68.2	65.4	56.7	52.9	51.4	50.7
70°	57.7	67.2	76.7	87.8	68.5	62.4	60.4	53.9	50.4	49.1	48.4
70.5°	55.2	60.7	70.2	80.7	62.7	57.7	56.7	51.7	48.1	46.9	46.4
71°	52.9	56.4	63.7	73.5	57.9	54.9	54.2	49.4	45.6	44.9	44.4
71.5°	50.7	53.4	56.9	66.4	54.7	52.7	51.9	47.1	43.4	42.6	42.1
72°	48.4	51.2	54.2	59.4	52.4	50.4	49.9	44.9	41.1	40.4	40.1
72.5°	45.9	48.9	52.2	55.7	50.2	48.1	47.6	42.6	38.9	38.4	38.1
73°	43.6	46.6	49.9	53.4	48.1	46.1	45.4	40.4	36.9	36.4	36.1
73.5°	41.4	44.4	47.6	51.2	45.9	43.9	43.4	38.4	34.9	34.4	34.4
74°	39.4	42.1	45.4	49.1	43.6	41.9	41.1	36.1	32.8	32.3	32.3
74.5°	37.1	40.1	43.4	46.9	41.6	39.6	39.1	34.1	30.8	30.3	30.6
75°	35.1	37.9	41.1	44.6	39.6	37.6	37.1	32.1	29.1	28.6	28.8
75.5°	33.1	35.9	39.1	42.6	37.6	35.6	35.1	30.3	27.3	26.8	27.1
76°	31.1	33.9	36.9	40.4	35.6	33.9	33.1	28.3	25.6	25.1	25.6
76.5°	29.3	31.8	35.1	38.4	33.6	31.8	31.3	26.6	23.8	23.3	23.8
77°	27.3	30.1	33.1	36.4	31.8	30.1	29.6	24.8	22.1	21.8	22.3
77.5°	25.6	28.1	31.1	34.4	30.1	28.3	27.8	23.1	20.6	20.3	20.8
78°	24.1	26.3	29.3	32.6	28.3	26.6	26.1	21.6	19.1	18.8	19.3
78.5°	22.3	24.6	27.6	30.6	26.6	25.1	24.3	20.1	17.6	17.1	17.8
79°	20.8	23.1	25.8	28.8	24.8	23.3	22.8	18.6	16.0	15.5	16.5
79.5°	19.3	21.3	24.1	27.3	23.3	22.1	21.3	17.1	14.5	14.3	15.0
80°	17.8	19.8	22.6	25.6	21.8	20.6	19.8	15.5	13.3	12.8	13.5
80.5°	16.3	18.3	21.1	23.8	20.3	19.1	18.3	14.0	12.0	11.5	12.3
81°	15.0	16.8	19.6	22.3	18.8	17.6	16.8	12.8	10.8	10.3	11.3
81.5°	13.8	15.5	18.1	20.8	17.3	16.3	15.3	11.3	9.5	9.0	10.0
82°	12.3	14.0	16.5	19.3	15.8	14.8	14.0	10.3	8.5	7.8	8.8
82.5°	11.0	12.8	15.3	18.1	14.5	13.5	12.8	9.0	7.3	6.8	7.8
83°	10.0	11.5	14.0	16.5	13.3	12.3	11.5	7.8	6.3	5.8	6.8
83.5°	8.8	10.5	12.8	15.3	12.3	11.0	10.3	6.8	5.3	4.8	5.8
84°	7.8	9.3	11.5	14.0	11.0	10.0	9.3	5.8	4.3	3.8	4.8
84.5°	6.8	8.3	10.3	12.8	9.8	8.8	8.0	4.8	3.5	3.0	4.0
85°	5.5	7.0	9.3	11.5	8.8	7.8	7.0	4.0	2.8	2.5	3.3
85.5°	4.5	6.0	8.0	10.3	7.8	6.8	6.0	3.3	2.0	2.0	2.5
86°	3.8	5.0	7.0	9.3	6.8	5.8	5.3	2.8	1.8	1.5	1.8
86.5°	2.8	4.0	6.3	8.3	5.8	4.8	4.3	2.0	1.3	1.0	1.0
87°	2.3	3.3	5.3	7.3	4.8	4.0	3.5	1.5	0.8	0.5	0.5
87.5°	1.8	2.8	4.5	6.3	3.8	3.0	2.8	1.0	0.5	0.3	0.0
88°	1.3	2.3	3.5	5.3	3.0	2.3	2.0	0.5	0.3	0.0	0.0
88.5°	0.8	1.5	2.8	4.3	2.3	1.5	1.3	0.3	0.0	0.0	0.0



TEST NUMBER: P776047  
CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.3	0.8	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1387.7	1387.7	1387.7	1387.7	1387.7	1387.7
0.5°	1384.2	1387.2	1387.7	1387.7	1388.4	1388.4
1°	1382.9	1386.2	1386.7	1386.9	1388.2	1388.4
1.5°	1381.4	1384.9	1385.7	1386.2	1387.7	1388.4
2°	1379.9	1383.7	1384.7	1385.2	1387.2	1388.2
2.5°	1378.4	1382.2	1383.4	1384.2	1386.4	1387.7
3°	1376.6	1380.6	1382.2	1383.2	1385.7	1387.4
3.5°	1374.9	1379.1	1380.6	1381.7	1384.9	1386.7
4°	1373.1	1377.4	1379.1	1380.4	1383.7	1386.2
4.5°	1371.1	1375.6	1377.4	1378.9	1382.7	1385.2
5°	1368.9	1373.6	1375.4	1377.1	1381.4	1384.4
5.5°	1366.6	1371.6	1373.6	1375.4	1380.1	1383.4
6°	1364.1	1369.4	1371.6	1373.6	1378.6	1382.4
6.5°	1361.6	1367.1	1369.6	1371.6	1377.1	1381.2
7°	1359.1	1364.6	1367.4	1369.6	1375.4	1379.9
7.5°	1356.3	1362.1	1364.9	1367.4	1373.6	1378.4
8°	1353.6	1359.6	1362.3	1365.1	1371.9	1376.9
8.5°	1350.6	1356.8	1359.8	1362.6	1369.9	1375.1
9°	1347.5	1354.1	1357.1	1360.1	1367.6	1373.4
9.5°	1344.5	1351.1	1354.3	1357.3	1365.4	1371.4
10°	1341.0	1347.8	1351.3	1354.6	1362.8	1369.6
10.5°	1337.8	1344.8	1348.3	1351.6	1360.3	1367.4
11°	1334.0	1341.3	1345.0	1348.6	1357.6	1365.1
11.5°	1330.5	1337.8	1341.5	1345.3	1355.1	1362.6
12°	1326.7	1334.3	1338.0	1342.0	1352.3	1360.1
12.5°	1322.7	1330.5	1334.5	1338.5	1349.1	1357.3
13°	1318.5	1326.5	1330.7	1335.0	1346.0	1354.6
13.5°	1314.4	1322.5	1326.7	1331.3	1342.5	1351.6
14°	1310.2	1318.5	1322.7	1327.5	1339.0	1348.6
14.5°	1305.7	1314.2	1318.5	1323.2	1335.5	1345.5
15°	1301.2	1309.7	1314.4	1319.5	1332.0	1342.3
15.5°	1296.4	1305.2	1309.9	1315.0	1328.0	1338.8
16°	1291.6	1300.4	1305.4	1310.4	1324.0	1335.3
16.5°	1286.6	1295.6	1300.4	1305.9	1319.7	1331.5
17°	1281.4	1290.6	1295.6	1301.2	1315.5	1327.5
17.5°	1276.3	1285.4	1290.6	1296.4	1311.2	1323.5
18°	1270.8	1280.3	1285.4	1291.4	1306.7	1319.5
18.5°	1265.3	1274.6	1280.1	1286.1	1301.9	1315.2
19°	1259.5	1269.3	1274.6	1280.8	1296.9	1310.7
19.5°	1253.5	1263.5	1269.1	1275.3	1291.9	1306.2
20°	1247.5	1257.5	1263.3	1269.8	1286.9	1301.4
20.5°	1241.5	1251.8	1257.0	1264.0	1281.6	1296.6
21°	1235.2	1245.2	1251.0	1258.0	1276.1	1291.6



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1215.2	1225.7	1232.0	1239.2	1258.8	1275.3
23°	1208.4	1219.2	1224.9	1232.5	1252.8	1269.8
23.5°	1201.1	1212.1	1218.2	1225.7	1246.5	1264.0
24°	1193.8	1204.9	1211.1	1218.7	1240.2	1258.0
24.5°	1186.6	1197.6	1203.9	1211.6	1233.7	1252.0
25°	1178.8	1190.1	1196.3	1204.6	1226.7	1245.5
25.5°	1171.0	1182.6	1188.6	1197.1	1219.7	1239.0
26°	1163.2	1174.5	1181.0	1189.6	1212.6	1232.2
26.5°	1155.0	1166.8	1173.0	1181.6	1205.4	1225.7
27°	1146.7	1158.5	1165.0	1173.5	1197.8	1218.4
27.5°	1138.4	1150.2	1156.5	1165.8	1190.3	1211.4
28°	1129.9	1141.7	1148.2	1157.5	1182.6	1203.9
28.5°	1120.9	1132.9	1139.7	1149.0	1174.5	1196.6
29°	1111.8	1124.1	1130.6	1140.2	1166.5	1188.8
29.5°	1102.8	1115.1	1121.9	1131.7	1158.0	1180.8
30°	1093.3	1106.3	1112.6	1122.4	1149.5	1172.8
30.5°	1084.0	1096.8	1103.3	1113.6	1140.9	1164.8
31°	1074.2	1087.3	1094.0	1104.1	1132.2	1156.2
31.5°	1064.2	1078.0	1084.8	1094.8	1123.1	1147.7
32°	1054.2	1068.2	1075.0	1085.0	1113.8	1138.9
32.5°	1044.1	1058.2	1065.0	1075.5	1104.6	1129.9
33°	1033.6	1048.4	1055.4	1065.7	1095.0	1120.9
33.5°	1023.1	1038.4	1045.4	1055.7	1085.3	1111.6
34°	1012.5	1027.8	1035.1	1045.4	1075.5	1102.1
34.5°	1001.5	1017.3	1024.6	1035.4	1065.5	1092.8
35°	990.7	1006.8	1014.3	1024.6	1055.4	1082.8
35.5°	979.4	996.0	1003.8	1014.0	1045.1	1073.0
36°	968.4	985.2	993.0	1003.3	1034.6	1062.4
36.5°	956.9	974.4	982.5	992.5	1024.1	1052.4
37°	945.6	963.4	971.4	981.7	1013.0	1042.4
37.5°	933.8	952.1	960.4	970.7	1002.5	1031.6
38°	922.3	940.8	949.4	959.4	991.5	1020.8
38.5°	910.0	929.8	938.1	947.8	980.4	1010.0
39°	898.4	918.0	927.0	936.8	968.9	999.0
39.5°	886.2	906.5	915.8	925.5	957.6	988.2
40°	874.1	895.2	904.2	914.0	946.3	976.9
40.5°	862.1	883.7	892.7	902.2	934.8	965.4
41°	849.8	871.6	880.9	890.7	923.3	954.1
41.5°	837.3	859.8	869.4	878.9	911.2	942.6
42°	825.0	848.0	857.6	867.1	899.7	930.8
42.5°	812.4	836.3	845.8	855.3	887.7	919.0
43°	800.4	824.5	834.0	843.5	875.9	907.2
43.5°	787.9	812.2	822.2	831.2	863.8	895.4



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	752.5	776.3	786.4	795.1	827.5	859.1
45.5°	740.7	764.5	774.3	783.1	814.9	846.8
46°	728.2	752.5	762.5	771.3	802.9	834.5
46.5°	715.1	740.7	750.5	759.0	790.6	822.0
47°	701.1	728.7	739.0	747.2	778.8	809.9
47.5°	685.1	715.4	726.7	735.2	766.8	797.9
48°	667.5	702.1	713.4	722.2	754.8	785.9
48.5°	648.4	687.1	699.6	708.6	742.5	773.3
49°	628.9	670.3	685.6	694.8	729.4	761.5
49.5°	609.1	652.0	668.3	678.8	716.2	748.2
50°	589.3	632.4	650.2	661.0	701.6	734.7
50.5°	568.5	612.1	629.9	641.4	685.1	719.9
51°	547.6	591.8	609.8	621.4	666.5	703.1
51.5°	526.8	570.7	588.5	600.8	646.7	684.3
52°	505.8	549.9	568.0	579.7	626.6	665.2
52.5°	485.2	528.3	546.9	558.4	606.3	645.4
53°	464.1	506.3	525.1	537.1	586.0	625.1
53.5°	443.8	485.0	502.5	515.0	564.9	604.1
54°	423.3	463.4	481.2	493.5	543.9	583.3
54.5°	402.7	442.8	459.4	471.9	522.6	561.9
55°	382.6	421.5	437.3	451.4	501.0	540.6
55.5°	362.6	400.7	416.3	430.0	479.7	519.1
56°	343.3	380.4	395.2	409.2	458.4	498.0
56.5°	324.7	360.1	374.4	388.9	437.3	475.9
57°	305.4	340.3	354.1	369.1	416.3	454.6
57.5°	286.9	321.0	334.0	348.5	395.7	433.1
58°	268.3	301.7	314.4	329.0	375.1	411.2
58.5°	251.3	283.4	296.1	310.4	354.8	389.9
59°	234.5	265.5	278.1	291.6	335.5	368.9
59.5°	217.9	248.0	260.8	273.6	316.2	348.0
60°	201.1	231.4	243.7	256.0	297.4	327.0
60.5°	184.6	214.6	227.4	238.7	279.1	306.4
61°	167.8	198.8	211.6	222.2	260.5	287.1
61.5°	153.2	184.1	196.8	205.9	242.7	267.3
62°	139.2	170.0	182.3	190.8	225.4	248.7
62.5°	126.4	156.2	168.5	176.0	208.6	230.7
63°	114.3	143.4	155.5	161.7	192.3	213.4
63.5°	103.8	131.4	143.2	148.7	177.0	196.3
64°	93.8	120.1	131.6	136.2	162.0	180.3
64.5°	85.3	109.6	120.4	124.6	147.4	164.7
65°	78.2	100.1	110.3	113.6	133.9	149.7
65.5°	72.0	91.0	100.8	103.6	121.4	135.4
66°	66.7	84.8	92.0	94.3	110.1	121.9



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	55.4	66.2	73.0	73.0	84.3	88.0
68°	53.4	59.9	66.7	68.7	78.5	81.2
68.5°	51.2	56.4	60.4	64.2	72.5	74.7
69°	49.1	54.2	56.7	59.7	66.7	68.0
69.5°	47.1	52.2	54.2	55.2	60.7	61.2
70°	45.1	50.2	52.2	53.2	56.9	57.7
70.5°	43.1	47.9	50.2	50.9	54.2	55.2
71°	41.1	45.9	48.1	48.9	51.9	52.9
71.5°	39.1	43.9	46.1	46.9	49.6	50.7
72°	37.1	41.9	43.9	44.9	47.4	48.4
72.5°	35.4	39.9	41.9	42.9	45.4	45.9
73°	33.6	37.9	39.9	40.9	43.1	43.6
73.5°	31.6	36.1	38.1	38.9	41.1	41.4
74°	29.8	34.1	36.1	36.9	38.9	39.4
74.5°	28.3	32.3	34.4	34.9	36.9	37.1
75°	26.6	30.6	32.6	33.1	34.9	35.1
75.5°	25.1	28.8	30.8	31.3	32.8	33.1
76°	23.3	27.3	29.1	29.6	31.1	31.1
76.5°	21.8	25.6	27.3	27.8	29.1	29.3
77°	20.6	24.1	25.8	26.1	27.3	27.3
77.5°	19.1	22.6	24.1	24.3	25.6	25.6
78°	17.8	21.1	22.6	22.8	23.8	24.1
78.5°	16.3	19.6	21.1	21.3	22.3	22.3
79°	15.0	18.3	19.6	19.8	20.8	20.8
79.5°	13.8	16.8	18.3	18.3	19.1	19.3
80°	12.5	15.5	16.8	17.1	17.8	17.8
80.5°	11.3	14.3	15.5	15.5	16.3	16.3
81°	10.3	13.0	14.3	14.3	14.8	15.0
81.5°	9.0	11.8	13.0	13.0	13.5	13.8
82°	8.0	10.8	11.8	11.8	12.3	12.3
82.5°	7.0	9.5	10.8	10.8	11.0	11.0
83°	6.0	8.5	9.5	9.5	9.8	10.0
83.5°	5.0	7.5	8.5	8.5	8.5	8.8
84°	4.0	6.5	7.5	7.5	7.5	7.8
84.5°	3.0	5.5	6.5	6.5	6.5	6.8
85°	2.3	4.5	5.5	5.5	5.3	5.5
85.5°	1.5	3.5	4.5	4.5	4.5	4.5
86°	0.8	2.5	3.5	3.8	3.8	3.8
86.5°	0.3	1.8	2.8	2.8	3.0	2.8
87°	0.0	1.0	1.8	2.0	2.3	2.3
87.5°	0.0	0.5	1.0	1.3	1.8	1.8
88°	0.0	0.0	0.5	0.5	1.3	1.3
88.5°	0.0	0.0	0.0	0.3	0.8	0.8



TEST NUMBER: P776047

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-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

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

Scaled Data Report



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Peachtree City, GA 30269

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°	1286.4	1301.7	1314.7	1327.7	1320.5	1313.2	1305.9	1289.9	1276.3	1262.3	1247.7
22°	1280.8	1296.9	1310.2	1323.7	1316.2	1308.9	1301.2	1284.6	1270.8	1256.8	1241.7



44°	883.7	915.3	942.3	971.9	946.6	931.5	919.8	888.4	862.8	835.3	807.9
44.5°	871.1	903.0	930.0	960.1	934.3	919.8	907.5	876.1	850.3	823.0	795.6



66.5°	109.6	129.9	152.2	185.1	147.7	131.9	123.4	100.1	79.2	78.2	70.5
67°	98.5	117.6	137.9	168.0	132.9	118.4	110.6	89.3	71.2	71.2	65.2



89°	0.5	1.0	2.0	3.5	1.5	0.8	0.5	0.0	0.0	0.0	0.0
89.5°	0.3	0.5	1.3	2.5	0.8	0.3	0.3	0.0	0.0	0.0	0.0



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21.5°	1228.7	1239.0	1244.7	1251.8	1270.6	1286.4
22°	1221.9	1232.7	1238.5	1245.5	1264.8	1280.8



44°	776.1	800.2	810.2	819.5	851.8	883.7
44.5°	764.3	788.1	798.1	807.2	839.5	871.1



66.5°	62.2	78.5	85.8	85.8	99.5	109.6
67°	58.4	72.2	79.2	78.5	90.3	98.5

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Peachtree City, GA 30269

Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.3	0.5
89.5°	0.0	0.0	0.0	0.0	0.0	0.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)