

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: P776035

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B041)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K  
Description: 6 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2933.9 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

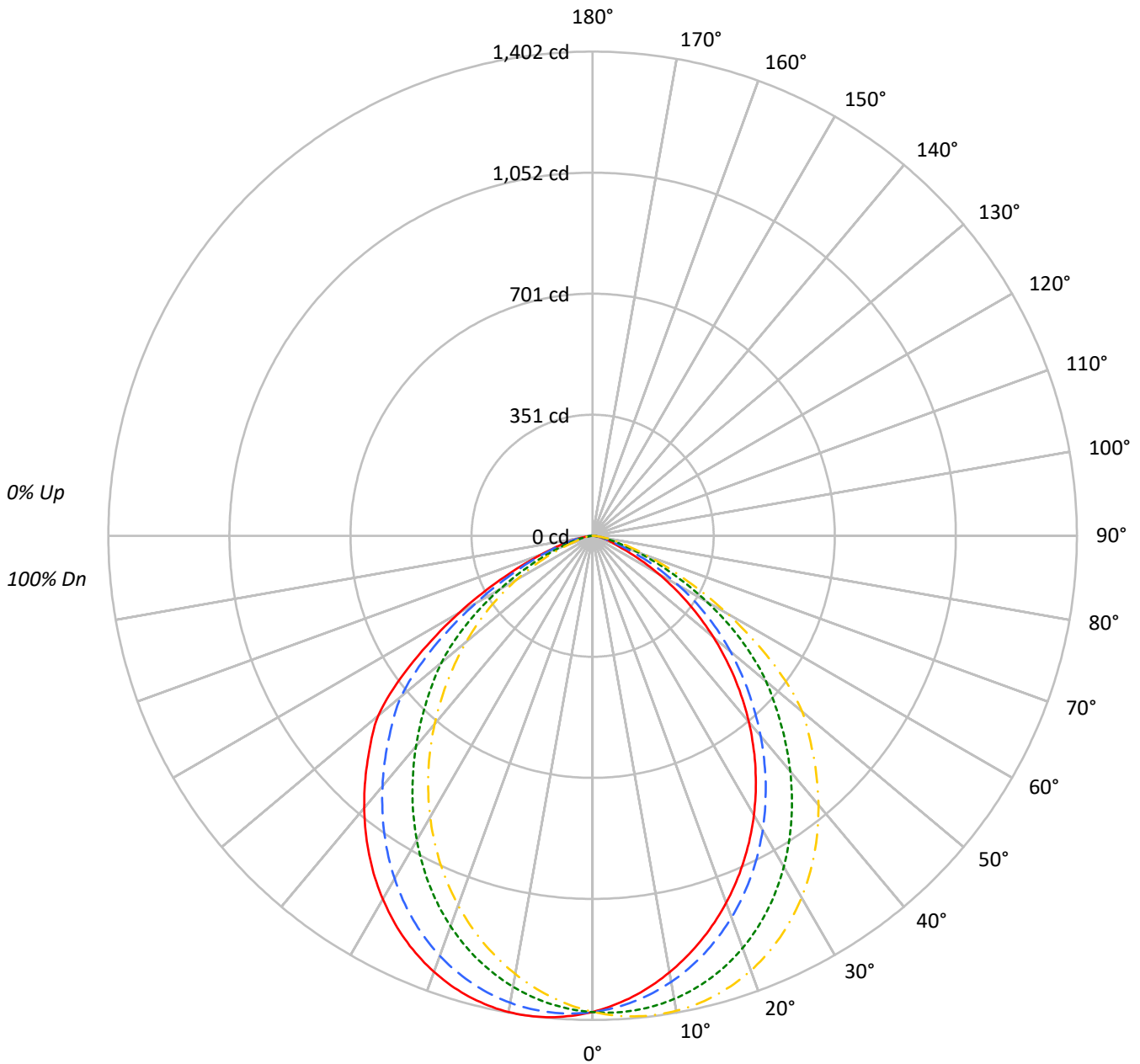
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88																			
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76																			
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66																			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58																			
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51																			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45																			
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40																			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33																			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30																			

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

	0°	90°	180°	270°
0°	75592	75592	75592	75592
5°	73696	75924	77014	74934
10°	71436	75789	77960	73818
15°	68860	75210	78411	72237
20°	65975	74084	78366	70169
25°	62737	72391	77884	67558
30°	59104	70068	76911	64459
35°	54984	67144	75476	60867
40°	50323	63684	73631	56921
45°	45012	59789	71411	52765
50°	38916	55862	69055	48706
55°	31970	50005	60442	42484
60°	24165	41773	48922	34076
65°	15864	32053	36606	25139
70°	10515	22440	25277	16926
75°	8409	14467	17538	10718
80°	6188	8871	10544	6346
85°	3334	5158	2264	3648

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 71899 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	4.4
10°-20°	365.5	12.5
20°-30°	533.4	18.2
30°-40°	603.7	20.6
40°-50°	571.2	19.5
50°-60°	433.7	14.8
60°-70°	217.3	7.4
70°-80°	68.8	2.3
80°-90°	10.4	0.4
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°	1028.8	35.1
0°-40°	1632.5	55.6
0°-60°	2637.4	89.9
0°-90°	2933.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1379	1379	1379	1379	1379	
5°	1339	1380	1400	1362	1339	126
15°	1213	1325	1382	1273	1213	341
25°	1037	1197	1288	1117	1037	476
35°	822	1003	1128	910	822	513
45°	581	771	921	681	581	447
55°	334	523	632	444	334	299
65°	122	247	282	194	122	127
75°	40	68	83	51	40	43
85°	5	8	4	6	5	7
90°	0	0	0	0	0	



TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1378.9	1378.9	1378.9	1378.9	1378.9	1378.9	1378.9	1378.9	1378.9	1378.9	1378.9
0.5°	1375.5	1376.5	1377.5	1378.2	1380.4	1380.6	1381.1	1381.4	1381.6	1381.6	1380.6
1°	1372.2	1373.8	1375.5	1377.7	1381.1	1382.3	1383.5	1384.3	1384.3	1383.8	1381.8
1.5°	1368.8	1370.9	1373.6	1376.8	1381.6	1384.0	1386.0	1386.9	1386.9	1385.7	1383.1
2°	1365.1	1367.8	1371.4	1375.8	1381.8	1385.2	1387.9	1389.4	1389.1	1387.7	1383.8
2.5°	1361.0	1364.4	1369.0	1374.6	1381.8	1386.4	1389.8	1391.5	1391.5	1389.4	1384.7
3°	1357.1	1361.0	1366.3	1373.1	1381.8	1387.4	1391.8	1393.7	1393.2	1390.6	1385.2
3.5°	1353.0	1357.4	1363.7	1371.4	1381.6	1388.4	1393.2	1395.6	1395.2	1391.8	1385.5
4°	1348.4	1353.5	1360.8	1369.7	1381.1	1388.9	1394.7	1397.3	1396.9	1393.0	1385.7
4.5°	1344.1	1349.4	1357.6	1367.8	1380.6	1389.4	1395.9	1399.0	1398.3	1393.7	1385.7
5°	1339.2	1345.3	1354.2	1365.6	1379.7	1389.6	1396.9	1400.3	1399.5	1394.4	1385.5
5.5°	1334.4	1340.7	1350.8	1363.2	1378.7	1389.8	1397.6	1401.5	1400.5	1394.9	1385.2
6°	1329.3	1336.1	1347.0	1360.8	1377.5	1389.6	1398.3	1402.4	1401.2	1395.2	1384.5
6.5°	1324.2	1331.5	1343.3	1358.1	1376.3	1389.4	1398.8	1403.2	1401.9	1395.2	1383.8
7°	1318.9	1326.6	1339.2	1355.2	1374.6	1388.9	1399.0	1403.6	1402.2	1395.2	1382.8
7.5°	1313.3	1321.5	1335.1	1352.1	1372.9	1388.1	1399.0	1403.9	1402.4	1394.7	1381.6
8°	1307.5	1316.2	1330.7	1348.7	1370.9	1387.4	1399.0	1404.1	1402.4	1394.2	1380.4
8.5°	1301.7	1310.9	1326.1	1345.3	1369.0	1386.4	1398.8	1404.1	1402.2	1393.5	1378.7
9°	1295.9	1305.5	1321.3	1341.6	1366.6	1385.5	1398.1	1403.9	1401.9	1392.7	1377.0
9.5°	1289.6	1299.7	1316.4	1338.0	1364.2	1384.0	1397.6	1403.4	1401.2	1391.5	1375.3
10°	1283.3	1293.9	1311.6	1333.9	1361.5	1382.6	1396.6	1402.7	1400.5	1390.3	1373.1
10.5°	1277.0	1287.9	1306.3	1329.8	1358.8	1380.6	1395.6	1401.9	1399.5	1388.6	1370.9
11°	1270.4	1281.8	1300.7	1325.4	1355.7	1378.7	1394.4	1401.0	1398.1	1387.2	1368.5
11.5°	1263.6	1275.5	1295.1	1320.8	1352.5	1376.8	1393.0	1399.5	1396.9	1385.2	1365.9
12°	1256.9	1269.0	1289.6	1316.0	1349.1	1374.3	1391.3	1398.3	1395.2	1383.3	1363.2
12.5°	1249.8	1262.4	1283.5	1311.4	1345.8	1371.9	1389.4	1396.6	1393.5	1381.1	1360.0
13°	1242.8	1255.6	1277.4	1306.0	1341.9	1369.2	1387.4	1394.7	1391.5	1378.7	1356.9
13.5°	1235.5	1248.9	1271.2	1300.9	1338.0	1366.6	1385.2	1392.7	1389.1	1376.0	1353.7
14°	1228.3	1241.8	1264.9	1295.6	1333.9	1363.4	1382.8	1390.6	1386.9	1373.1	1350.1
14.5°	1220.8	1234.8	1258.3	1290.0	1329.5	1360.3	1380.1	1388.1	1384.3	1370.2	1346.5
15°	1213.3	1227.3	1251.5	1284.0	1325.2	1356.7	1377.5	1385.5	1381.6	1367.1	1342.6
15.5°	1205.5	1219.8	1244.5	1278.2	1320.3	1353.3	1374.6	1382.8	1378.7	1363.7	1338.5
16°	1197.8	1212.3	1237.7	1271.9	1315.5	1349.4	1371.4	1379.7	1375.3	1360.0	1334.1
16.5°	1189.8	1204.5	1230.5	1265.8	1310.6	1345.5	1368.0	1376.5	1372.2	1356.4	1329.8
17°	1181.5	1196.8	1222.9	1259.0	1305.5	1341.4	1364.6	1373.4	1368.5	1352.5	1325.2
17.5°	1173.5	1188.8	1215.4	1252.5	1300.0	1337.0	1360.8	1369.7	1364.9	1348.4	1320.6
18°	1165.1	1180.6	1207.9	1245.7	1294.2	1332.7	1356.9	1365.9	1360.8	1344.1	1315.5
18.5°	1156.8	1172.6	1199.9	1238.7	1288.6	1327.8	1352.8	1362.0	1356.9	1339.5	1310.4
19°	1148.1	1164.1	1192.2	1231.4	1282.5	1323.0	1348.4	1357.9	1352.5	1334.9	1305.1
19.5°	1139.4	1155.9	1184.0	1223.9	1276.5	1317.9	1344.1	1353.5	1347.9	1330.3	1299.5
20°	1130.9	1147.1	1176.0	1216.7	1269.9	1312.6	1339.7	1348.9	1343.3	1325.2	1293.9
20.5°	1121.7	1138.4	1167.5	1208.9	1263.4	1307.0	1334.9	1344.3	1338.5	1319.8	1287.9
21°	1112.7	1129.5	1159.0	1201.1	1256.9	1301.7	1329.8	1339.5	1333.6	1314.5	1282.1



TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1085.4	1102.3	1132.6	1176.4	1235.8	1283.5	1313.5	1324.0	1317.7	1297.6	1263.2
23°	1075.9	1092.9	1123.6	1168.0	1228.3	1277.2	1308.0	1318.4	1311.8	1291.5	1256.4
23.5°	1066.5	1083.7	1114.7	1159.2	1220.8	1270.7	1302.2	1312.6	1306.0	1285.2	1249.6
24°	1056.8	1074.2	1105.2	1150.5	1213.0	1263.9	1295.9	1306.8	1300.2	1278.7	1242.6
24.5°	1046.9	1064.5	1095.5	1141.3	1205.0	1256.9	1289.6	1300.7	1293.7	1272.1	1235.3
25°	1037.2	1054.6	1086.1	1132.4	1196.8	1250.1	1283.3	1294.4	1287.6	1265.6	1228.0
25.5°	1027.2	1044.9	1076.7	1123.2	1188.6	1242.6	1276.7	1288.1	1280.8	1258.8	1220.5
26°	1017.3	1035.0	1067.0	1113.7	1180.3	1235.1	1269.9	1281.6	1274.3	1251.5	1213.0
26.5°	1007.1	1025.1	1056.5	1104.0	1171.6	1227.6	1262.9	1274.5	1267.3	1244.5	1205.3
27°	997.0	1014.9	1046.9	1094.6	1162.6	1219.8	1255.6	1267.8	1260.5	1237.0	1197.3
27.5°	986.5	1004.5	1036.7	1084.6	1153.9	1211.8	1248.6	1260.7	1253.2	1229.7	1189.3
28°	976.1	994.1	1026.5	1074.7	1144.7	1203.6	1241.1	1253.5	1245.7	1222.2	1180.8
28.5°	965.7	983.6	1015.9	1064.5	1135.5	1195.3	1233.4	1246.0	1238.2	1214.2	1172.6
29°	955.3	973.5	1005.4	1054.6	1126.3	1187.1	1225.6	1238.7	1230.5	1206.2	1164.1
29.5°	944.6	962.8	995.0	1044.4	1116.6	1178.1	1217.9	1230.7	1222.7	1198.2	1155.4
30°	933.7	951.9	984.6	1034.0	1106.9	1169.7	1209.6	1222.9	1215.0	1190.0	1146.4
30.5°	922.8	941.3	973.5	1023.4	1097.2	1160.5	1201.1	1215.0	1207.0	1181.5	1137.4
31°	911.9	930.4	962.8	1012.9	1087.3	1151.3	1192.7	1207.0	1198.7	1173.1	1128.5
31.5°	901.0	919.5	951.7	1002.0	1077.1	1141.8	1184.2	1198.5	1190.0	1164.3	1119.0
32°	889.9	908.6	940.8	991.1	1066.7	1132.8	1175.5	1190.0	1181.8	1155.6	1109.8
32.5°	878.8	897.4	929.6	980.5	1056.5	1123.2	1166.8	1181.3	1173.3	1146.7	1100.4
33°	867.4	886.0	918.7	969.6	1046.4	1113.2	1157.6	1172.6	1164.3	1137.7	1090.9
33.5°	856.2	874.9	907.3	958.2	1035.7	1103.5	1148.3	1163.8	1155.4	1128.5	1081.5
34°	844.8	863.7	896.2	947.3	1025.1	1093.6	1138.9	1154.9	1146.2	1119.0	1071.3
34.5°	833.2	852.4	884.6	935.9	1013.9	1083.2	1129.5	1145.4	1137.0	1109.6	1061.4
35°	821.6	840.7	873.4	924.5	1003.3	1073.0	1120.0	1136.2	1127.8	1100.1	1051.5
35.5°	810.2	829.3	861.6	913.4	992.4	1062.8	1110.1	1126.8	1118.6	1090.7	1041.5
36°	798.6	817.7	850.4	902.0	981.2	1052.2	1100.4	1117.3	1109.1	1080.8	1031.1
36.5°	787.0	806.1	838.8	890.4	970.1	1041.5	1090.5	1107.7	1099.2	1071.3	1020.9
37°	775.1	794.2	826.7	878.8	958.7	1030.9	1080.3	1097.7	1089.5	1061.1	1010.5
37.5°	763.2	782.6	815.3	867.1	947.3	1020.0	1069.9	1087.8	1079.6	1051.2	999.9
38°	751.1	770.7	803.7	855.5	936.2	1009.1	1059.7	1077.9	1069.6	1040.8	989.2
38.5°	739.5	759.1	791.8	843.9	924.5	997.9	1049.0	1067.7	1059.7	1030.9	979.0
39°	727.9	747.0	780.2	832.0	913.2	986.8	1038.6	1057.5	1049.3	1020.5	968.1
39.5°	715.5	735.4	768.3	820.4	901.8	975.6	1028.0	1047.1	1039.3	1010.0	957.5
40°	703.2	723.3	756.7	808.5	889.9	964.3	1017.1	1036.7	1028.9	999.6	946.3
40.5°	691.3	711.1	744.3	796.6	877.8	953.1	1006.2	1026.0	1018.3	989.2	935.7
41°	679.2	699.0	732.7	784.8	866.2	941.3	995.0	1015.4	1007.9	978.3	924.5
41.5°	666.8	687.2	720.6	772.7	854.8	929.9	984.1	1004.7	997.4	967.9	913.6
42°	654.5	674.8	708.7	761.0	842.4	918.2	973.0	993.8	986.5	957.0	902.5
42.5°	642.4	662.9	697.1	749.2	831.0	906.9	961.8	982.9	975.9	946.3	891.4
43°	630.2	650.8	685.0	737.3	818.9	895.2	950.5	972.0	965.0	935.2	880.2
43.5°	617.9	638.7	673.1	725.4	807.3	883.6	939.3	961.1	954.3	924.3	869.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	580.6	602.1	637.3	689.8	771.2	848.2	904.7	927.4	921.1	891.4	835.4
45.5°	568.2	590.3	625.9	678.2	760.1	836.4	893.3	916.3	910.2	880.2	824.3
46°	555.9	577.9	613.8	666.3	747.7	824.3	881.7	905.2	899.1	869.6	813.4
46.5°	543.0	566.1	602.1	654.7	735.9	812.9	870.5	894.3	888.7	858.9	802.7
47°	530.5	553.7	590.3	643.1	724.0	801.3	859.4	883.4	878.3	848.5	792.0
47.5°	518.3	541.6	578.7	631.5	712.8	789.9	848.5	872.9	867.6	837.8	781.1
48°	506.0	529.7	566.8	619.8	701.0	778.7	837.3	862.3	857.2	827.4	770.7
48.5°	493.6	517.6	555.2	608.7	689.8	767.6	826.7	851.6	846.5	816.5	759.6
49°	481.0	505.7	543.5	597.3	678.2	756.0	815.3	840.5	835.4	804.9	748.2
49.5°	468.9	493.9	532.1	585.9	666.6	744.6	803.9	829.3	823.5	792.5	735.6
50°	456.3	481.8	520.8	574.1	655.0	732.7	791.6	816.3	809.7	779.0	723.0
50.5°	444.0	469.9	508.9	562.9	643.3	719.9	778.0	802.2	795.2	763.7	708.7
51°	431.1	458.3	497.5	551.0	631.0	706.3	763.9	786.7	778.0	747.7	694.4
51.5°	419.3	446.4	486.1	539.2	618.1	693.0	749.2	770.5	761.5	731.3	678.7
52°	406.9	434.5	474.5	527.3	605.5	678.4	733.2	753.0	744.3	714.1	662.5
52.5°	394.8	422.9	463.1	515.0	592.0	663.7	716.7	735.1	725.9	696.1	645.7
53°	382.7	411.3	451.5	502.8	578.2	648.7	699.5	717.0	708.2	678.2	629.3
53.5°	370.6	399.7	439.6	490.5	564.8	633.2	682.1	698.8	689.1	659.8	612.1
54°	358.2	388.0	428.0	477.7	550.8	617.2	664.9	680.6	670.0	641.4	595.1
54.5°	346.4	376.4	416.4	465.5	537.5	601.7	647.0	661.7	651.1	623.0	577.9
55°	334.5	365.0	404.7	453.4	523.2	585.7	629.3	643.3	632.4	604.6	561.0
55.5°	322.4	353.6	392.6	440.8	509.4	569.7	610.9	624.7	613.0	585.7	543.3
56°	311.0	342.0	381.0	428.2	495.1	553.0	592.9	605.8	593.7	566.5	526.1
56.5°	299.1	330.4	369.4	415.6	481.0	536.5	574.5	586.9	575.0	548.1	508.7
57°	287.5	319.0	357.5	403.0	466.5	520.0	556.9	567.8	555.9	530.0	491.7
57.5°	275.9	307.6	345.6	390.5	452.7	503.8	538.4	549.1	537.2	511.1	474.3
58°	264.7	296.5	334.3	377.9	438.2	487.1	521.2	530.5	519.1	492.7	457.3
58.5°	253.6	285.1	322.4	365.5	423.9	470.9	503.1	512.0	500.4	474.7	440.6
59°	242.2	274.2	311.0	352.7	409.3	454.4	485.2	493.6	482.0	457.3	423.6
59.5°	231.3	263.0	299.4	340.3	395.5	438.2	467.7	475.2	463.8	439.4	406.9
60°	220.4	252.1	288.2	328.2	381.0	422.2	450.3	457.3	446.2	422.2	391.2
60.5°	209.5	241.0	276.9	315.8	367.0	406.0	432.6	439.6	428.7	405.2	375.0
61°	198.9	230.6	265.5	303.5	352.7	390.5	415.6	422.2	411.3	389.0	359.4
61.5°	188.7	219.9	254.6	291.4	339.1	375.2	398.9	404.7	394.3	372.8	344.4
62°	178.3	209.5	243.9	279.5	325.1	360.2	382.9	388.0	377.6	357.0	329.7
62.5°	168.1	199.1	232.8	267.6	311.7	344.9	365.7	371.1	361.1	341.5	314.9
63°	158.4	189.2	222.1	255.8	298.2	329.7	349.8	354.6	345.4	326.0	300.6
63.5°	149.0	179.0	211.5	244.2	285.1	315.6	334.0	338.6	328.9	311.5	287.0
64°	139.5	169.3	200.8	232.5	272.0	300.8	319.2	323.1	312.7	297.9	273.9
64.5°	130.8	159.9	190.4	221.1	259.4	286.8	304.0	307.6	297.2	283.9	261.1
65°	122.3	150.7	180.2	210.0	247.1	273.2	289.2	293.1	282.2	270.6	248.5
65.5°	113.8	141.2	170.0	199.3	235.2	259.9	275.2	278.5	266.7	257.2	236.6
66°	106.1	132.5	159.9	188.2	223.3	246.6	261.6	264.3	252.1	244.6	225.0





TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	85.7	106.8	131.3	157.4	189.9	211.0	223.1	225.0	213.2	210.0	193.8
68°	81.4	98.8	122.3	148.0	178.8	199.8	211.9	213.4	201.5	198.9	183.4
68.5°	76.8	91.3	113.6	138.3	168.8	188.7	200.8	202.0	189.7	187.7	172.9
69°	72.4	85.3	105.4	129.3	158.9	177.5	189.7	190.6	177.8	176.8	163.7
69.5°	67.8	79.4	97.4	120.1	149.2	166.9	178.3	179.2	167.4	166.9	154.5
70°	65.6	73.6	90.1	112.1	140.0	157.2	168.3	169.6	157.7	157.4	145.8
70.5°	63.2	67.6	84.3	104.2	131.3	148.0	159.1	160.1	148.5	148.7	137.8
71°	60.6	61.8	78.5	96.4	123.0	139.0	149.9	150.9	139.8	140.0	129.8
71.5°	57.9	59.1	72.4	89.4	114.8	130.3	141.0	141.9	131.3	131.8	122.1
72°	55.0	56.7	66.6	83.6	107.1	122.6	132.7	133.9	123.3	123.8	114.8
72.5°	52.3	54.3	60.8	77.8	99.6	114.6	125.0	126.0	115.8	116.5	107.8
73°	49.7	51.6	56.2	71.9	92.8	107.3	117.5	118.7	108.5	109.0	101.0
73.5°	47.0	49.2	52.1	65.9	86.2	100.3	110.0	111.4	102.0	102.5	94.7
74°	44.6	46.7	48.4	60.1	79.9	93.7	103.4	104.6	95.2	95.9	88.7
74.5°	41.9	44.3	45.3	55.5	73.9	87.2	96.9	98.1	88.9	89.6	82.8
75°	39.7	41.9	42.4	51.1	68.3	81.1	90.8	91.8	82.8	83.8	77.0
75.5°	37.3	39.7	40.0	47.0	63.2	75.6	84.8	86.0	77.0	78.0	71.7
76°	35.1	37.3	37.5	43.4	58.1	70.0	79.0	80.2	71.2	72.4	66.6
76.5°	32.9	35.1	35.6	39.7	53.5	64.9	73.6	74.6	65.9	67.3	61.8
77°	30.8	32.9	33.4	36.6	49.2	60.1	68.3	69.5	60.6	62.2	57.2
77.5°	28.8	31.0	31.5	33.7	45.1	55.5	63.5	64.4	55.7	57.4	52.8
78°	26.6	28.8	29.6	31.0	41.2	51.1	58.6	59.6	50.9	52.8	48.4
78.5°	24.9	26.9	27.6	28.3	37.5	46.7	54.0	55.0	46.0	48.7	44.3
79°	23.0	24.9	25.9	25.9	34.2	42.9	49.7	50.4	41.7	44.3	40.5
79.5°	21.3	23.0	24.2	23.7	31.0	39.0	45.5	46.3	37.5	40.5	36.8
80°	19.6	21.3	22.5	21.8	28.1	35.4	41.4	42.1	33.4	36.6	33.2
80.5°	17.9	19.6	20.8	19.9	25.4	32.0	37.5	38.3	29.3	32.9	29.8
81°	16.2	17.9	19.1	18.2	23.0	28.8	33.9	34.6	25.9	29.6	26.6
81.5°	14.8	16.5	17.7	16.7	20.8	25.9	30.3	31.0	22.8	26.4	24.0
82°	13.3	14.8	16.2	15.3	18.7	23.3	26.9	27.9	19.4	23.7	21.3
82.5°	11.9	13.3	14.8	13.8	16.5	20.8	24.2	24.9	16.0	21.1	18.7
83°	10.4	11.9	13.3	12.6	14.3	18.4	21.6	22.3	12.8	18.4	16.0
83.5°	9.0	10.4	11.9	11.4	12.6	16.0	18.9	19.6	10.2	15.5	13.3
84°	7.8	9.0	10.7	10.2	10.9	13.6	16.0	16.7	7.5	12.8	11.4
84.5°	6.5	7.8	9.4	9.0	9.4	11.6	13.3	14.0	5.3	10.7	9.4
85°	5.3	6.5	8.2	8.0	8.2	9.7	11.1	11.4	3.6	8.7	7.8
85.5°	4.1	5.3	7.3	7.0	7.0	8.2	9.2	9.2	2.4	6.8	6.1
86°	3.1	4.4	6.1	6.1	5.8	6.5	7.5	7.0	1.7	5.1	4.6
86.5°	2.7	3.4	4.8	4.8	4.8	5.3	5.8	5.3	1.5	3.6	3.4
87°	1.9	2.7	3.9	3.9	3.9	4.1	4.4	3.9	1.0	2.4	2.4
87.5°	1.5	1.9	2.9	2.9	3.1	3.1	3.1	2.7	0.7	1.5	1.5
88°	1.0	1.5	1.9	2.2	2.4	2.2	1.9	1.5	0.5	0.7	0.7
88.5°	0.5	0.7	1.2	1.2	1.5	1.2	1.0	0.7	0.2	0.2	0.2



TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**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: P776035

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1378.9	1378.9	1378.9	1378.9	1378.9	1378.9
0.5°	1379.2	1378.7	1376.8	1375.5	1375.1	1375.5
1°	1379.4	1377.5	1374.3	1372.6	1371.7	1372.2
1.5°	1379.2	1376.0	1372.2	1369.2	1368.0	1368.8
2°	1379.2	1374.6	1369.5	1365.9	1364.2	1365.1
2.5°	1378.7	1372.9	1366.6	1362.5	1360.3	1361.0
3°	1378.2	1370.9	1363.7	1358.6	1356.2	1357.1
3.5°	1377.5	1368.8	1360.5	1354.7	1352.1	1353.0
4°	1376.5	1366.6	1357.4	1350.6	1347.7	1348.4
4.5°	1375.3	1364.2	1354.0	1346.2	1342.8	1344.1
5°	1374.1	1361.7	1350.4	1341.9	1338.0	1339.2
5.5°	1372.6	1358.8	1346.5	1337.3	1333.2	1334.4
6°	1370.9	1355.9	1342.4	1332.4	1328.1	1329.3
6.5°	1369.0	1352.8	1338.2	1327.6	1322.7	1324.2
7°	1367.1	1349.6	1334.1	1322.5	1317.2	1318.9
7.5°	1364.6	1346.0	1329.5	1317.2	1311.6	1313.3
8°	1362.5	1342.4	1324.9	1311.8	1306.0	1307.5
8.5°	1359.8	1338.7	1319.8	1306.3	1300.0	1301.7
9°	1357.1	1334.6	1315.0	1300.7	1293.9	1295.9
9.5°	1354.2	1330.3	1309.7	1294.6	1287.6	1289.6
10°	1351.1	1326.1	1304.3	1288.6	1281.3	1283.3
10.5°	1347.7	1321.5	1298.8	1282.5	1275.0	1277.0
11°	1344.3	1316.9	1293.2	1276.2	1268.5	1270.4
11.5°	1340.7	1311.8	1287.4	1269.7	1261.7	1263.6
12°	1337.0	1306.8	1281.3	1263.2	1254.7	1256.9
12.5°	1332.9	1301.7	1275.0	1256.1	1247.7	1249.8
13°	1328.8	1296.3	1268.7	1249.4	1240.6	1242.8
13.5°	1324.4	1290.5	1262.4	1242.3	1233.1	1235.5
14°	1319.8	1285.0	1255.6	1235.3	1225.9	1228.3
14.5°	1315.2	1278.9	1248.9	1228.0	1218.3	1220.8
15°	1310.1	1272.8	1242.1	1220.5	1210.6	1213.3
15.5°	1305.1	1266.8	1234.8	1212.8	1202.8	1205.5
16°	1300.0	1260.3	1227.6	1205.0	1195.1	1197.8
16.5°	1294.6	1253.7	1220.0	1197.3	1186.9	1189.8
17°	1289.1	1246.9	1212.5	1189.3	1178.9	1181.5
17.5°	1283.3	1240.1	1204.8	1181.0	1170.4	1173.5
18°	1277.2	1232.9	1197.0	1172.8	1162.2	1165.1
18.5°	1271.2	1225.6	1188.8	1164.3	1153.7	1156.8
19°	1264.9	1218.1	1180.8	1155.9	1145.0	1148.1
19.5°	1258.3	1210.6	1172.6	1147.1	1136.2	1139.4
20°	1251.8	1202.8	1164.1	1138.7	1127.5	1130.9
20.5°	1245.0	1195.1	1155.4	1129.7	1118.6	1121.7
21°	1238.0	1186.9	1146.7	1120.5	1109.3	1112.7

TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1216.2	1161.9	1119.5	1092.9	1081.7	1085.4
23°	1208.4	1152.9	1110.3	1083.4	1072.3	1075.9
23.5°	1200.9	1144.5	1101.1	1074.0	1062.8	1066.5
24°	1192.9	1135.3	1091.4	1064.3	1052.9	1056.8
24.5°	1184.7	1126.3	1082.0	1054.6	1043.0	1046.9
25°	1176.4	1116.9	1072.0	1044.7	1033.3	1037.2
25.5°	1168.0	1107.7	1062.4	1034.5	1023.4	1027.2
26°	1159.5	1098.5	1052.2	1024.3	1013.2	1017.3
26.5°	1150.5	1088.5	1042.5	1014.4	1003.0	1007.1
27°	1141.8	1078.6	1032.1	1004.2	992.8	997.0
27.5°	1133.1	1068.9	1021.9	993.8	982.4	986.5
28°	1123.9	1059.0	1011.3	983.2	971.8	976.1
28.5°	1114.9	1049.0	1001.1	972.7	961.6	965.7
29°	1105.2	1038.6	990.4	962.1	950.7	955.3
29.5°	1095.8	1028.4	979.8	951.4	940.0	944.6
30°	1086.1	1018.3	969.1	940.5	929.1	933.7
30.5°	1076.7	1007.6	958.2	929.6	918.5	922.8
31°	1066.7	997.0	947.1	918.7	907.3	911.9
31.5°	1056.5	986.3	936.4	907.6	896.4	901.0
32°	1046.4	975.4	925.3	896.4	885.1	889.9
32.5°	1036.4	964.7	914.1	885.3	874.2	878.8
33°	1026.0	954.1	903.0	874.2	862.8	867.4
33.5°	1015.6	942.9	891.8	862.8	851.6	856.2
34°	1005.2	931.8	880.5	851.4	840.2	844.8
34.5°	994.5	920.7	868.8	840.0	828.9	833.2
35°	983.9	909.5	857.4	828.4	817.0	821.6
35.5°	973.2	898.1	846.3	816.8	805.9	810.2
36°	962.6	887.2	834.7	805.4	794.2	798.6
36.5°	951.7	875.6	823.3	793.7	782.4	787.0
37°	940.5	864.2	811.4	781.9	770.7	775.1
37.5°	929.6	853.1	800.0	770.2	759.1	763.2
38°	918.5	841.5	788.2	758.4	747.2	751.1
38.5°	907.3	829.8	776.8	746.8	735.4	739.5
39°	896.2	818.7	765.2	735.1	723.5	727.9
39.5°	885.1	807.1	753.5	723.3	711.6	715.5
40°	873.7	795.4	741.7	711.1	699.5	703.2
40.5°	862.5	784.1	730.0	699.5	687.7	691.3
41°	851.1	772.2	718.4	687.7	675.3	679.2
41.5°	839.8	760.8	706.5	675.8	663.2	666.8
42°	828.4	749.4	694.9	663.9	651.3	654.5
42.5°	817.0	738.0	683.5	652.0	639.2	642.4
43°	805.9	726.6	671.9	640.2	627.1	630.2
43.5°	794.2	714.8	660.5	628.3	615.0	617.9



TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	760.3	680.6	625.6	592.9	578.7	580.6
45.5°	748.9	669.2	614.3	581.1	566.3	568.2
46°	737.8	658.3	603.1	569.7	554.2	555.9
46.5°	726.9	647.4	592.0	557.8	542.1	543.0
47°	716.0	636.5	580.6	546.2	530.0	530.5
47.5°	705.1	625.4	569.5	534.6	518.1	518.3
48°	694.7	615.2	558.6	522.9	506.0	506.0
48.5°	684.0	604.3	547.4	511.6	493.6	493.6
49°	672.9	593.4	536.8	500.4	481.8	481.0
49.5°	661.0	582.5	526.1	489.0	469.9	468.9
50°	648.9	571.1	515.2	477.7	457.8	456.3
50.5°	636.1	559.3	503.8	466.5	446.2	444.0
51°	623.0	547.4	492.9	455.4	434.1	431.1
51.5°	609.4	535.1	481.8	444.2	422.4	419.3
52°	595.6	522.7	470.4	433.3	410.8	406.9
52.5°	581.1	509.9	458.8	421.9	398.9	394.8
53°	566.8	497.0	447.1	410.8	387.5	382.7
53.5°	551.5	483.9	435.5	399.4	375.9	370.6
54°	536.3	470.9	423.6	388.5	364.5	358.2
54.5°	521.0	457.8	411.8	377.1	353.2	346.4
55°	506.0	444.5	399.7	365.7	342.0	334.5
55.5°	490.2	430.7	387.8	354.4	330.4	322.4
56°	474.7	417.3	375.7	343.2	319.2	311.0
56.5°	459.5	404.0	363.8	331.8	308.1	299.1
57°	444.2	390.5	351.5	320.7	297.0	287.5
57.5°	428.7	376.9	339.3	309.1	285.8	275.9
58°	413.7	363.6	327.5	298.2	275.2	264.7
58.5°	398.9	350.2	315.6	286.8	264.0	253.6
59°	383.7	336.9	303.7	275.6	253.1	242.2
59.5°	369.1	323.6	291.9	264.7	242.5	231.3
60°	354.6	310.8	280.2	253.8	231.8	220.4
60.5°	340.3	297.9	268.6	242.9	221.1	209.5
61°	326.0	285.3	257.2	232.3	210.7	198.9
61.5°	312.2	273.2	245.8	221.9	200.6	188.7
62°	299.1	261.1	234.7	211.5	190.6	178.3
62.5°	285.6	249.2	223.8	201.0	180.7	168.1
63°	272.5	237.4	213.2	190.9	171.0	158.4
63.5°	259.7	226.2	202.5	180.9	161.3	149.0
64°	247.3	215.1	192.1	171.0	152.1	139.5
64.5°	235.4	204.4	181.9	161.3	142.9	130.8
65°	223.8	193.8	172.0	151.9	134.4	122.3
65.5°	212.9	183.6	162.3	142.4	125.7	113.8
66°	202.3	173.4	152.6	133.5	117.5	106.1



TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	171.2	145.6	126.0	107.8	94.2	85.7
68°	161.8	136.9	117.5	100.3	87.4	81.4
68.5°	152.8	128.6	109.7	92.8	82.1	76.8
69°	144.1	120.6	101.7	85.5	77.0	72.4
69.5°	135.9	113.1	94.5	79.9	71.9	67.8
70°	127.9	105.6	87.9	74.4	66.6	65.6
70.5°	120.4	98.6	82.4	68.8	61.5	63.2
71°	112.9	92.0	76.8	63.2	59.1	60.6
71.5°	106.1	85.5	71.2	58.9	56.9	57.9
72°	99.3	80.2	65.6	55.0	54.5	55.0
72.5°	93.0	74.8	60.1	51.3	51.8	52.3
73°	86.7	69.5	55.5	48.0	49.2	49.7
73.5°	80.9	63.9	51.3	45.1	46.7	47.0
74°	75.3	59.3	47.5	42.6	44.3	44.6
74.5°	70.2	54.7	43.8	40.5	41.9	41.9
75°	65.2	50.6	40.7	38.5	39.7	39.7
75.5°	60.3	46.5	37.5	36.3	37.3	37.3
76°	55.7	42.9	34.9	34.4	35.1	35.1
76.5°	51.6	39.2	32.2	32.5	32.9	32.9
77°	47.5	35.8	29.8	30.5	31.0	30.8
77.5°	43.6	32.9	27.6	28.6	29.1	28.8
78°	39.7	29.8	25.4	26.9	27.1	26.6
78.5°	36.3	27.1	23.5	25.2	25.2	24.9
79°	32.9	24.7	21.8	23.5	23.3	23.0
79.5°	30.0	22.3	20.1	21.8	21.6	21.3
80°	27.1	20.1	18.7	20.1	19.9	19.6
80.5°	24.2	18.2	17.4	18.7	18.2	17.9
81°	22.0	16.2	16.0	17.2	16.5	16.2
81.5°	19.9	14.5	14.8	15.7	15.0	14.8
82°	17.4	13.1	13.3	14.3	13.3	13.3
82.5°	15.3	11.6	12.1	12.8	11.9	11.9
83°	12.8	10.2	10.9	11.6	10.4	10.4
83.5°	11.1	9.0	9.7	10.4	9.0	9.0
84°	9.4	7.8	8.7	9.2	8.0	7.8
84.5°	8.0	6.8	7.5	8.0	6.8	6.5
85°	6.5	5.8	6.5	6.8	5.6	5.3
85.5°	5.3	4.6	5.3	5.8	4.4	4.1
86°	4.1	3.9	4.4	4.6	3.6	3.1
86.5°	3.1	2.9	3.4	3.6	2.9	2.7
87°	2.2	2.2	2.4	2.7	2.2	1.9
87.5°	1.5	1.2	1.5	1.7	1.5	1.5
88°	1.0	0.5	0.7	1.0	1.0	1.0
88.5°	0.2	0.2	0.2	0.2	0.5	0.5



TEST NUMBER: P776035

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-2700K

**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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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





21.5°	1103.8	1120.5	1150.3	1192.9	1249.8	1295.6	1324.4	1334.6	1328.6	1309.2	1275.8
22°	1094.6	1111.5	1141.6	1184.7	1243.1	1289.6	1319.4	1329.3	1323.0	1303.1	1269.5



44°	605.1	626.4	661.3	713.6	795.2	871.5	927.7	949.7	943.2	913.4	857.9
44.5°	592.9	614.3	649.4	701.9	783.3	859.9	916.3	938.6	932.3	902.5	846.8



66.5°	98.6	123.8	150.2	177.8	212.2	234.0	248.3	250.7	238.1	232.0	214.6
67°	91.6	115.3	140.7	167.4	201.0	222.1	235.7	237.6	225.0	220.9	204.2



89°	0.2	0.2	0.5	0.5	1.0	0.7	0.5	0.2	0.0	0.0	0.0
89.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0



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21.5°	1230.9	1178.6	1137.9	1111.3	1100.1	1103.8
22°	1223.4	1170.4	1128.7	1102.3	1090.9	1094.6



44°	782.8	703.4	648.7	616.4	602.6	605.1
44.5°	771.2	692.0	637.3	604.6	590.8	592.9



66.5°	191.4	164.0	143.4	124.3	109.5	98.6
67°	180.7	154.3	134.4	116.3	101.7	91.6

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89°	0.0	0.0	0.0	0.0	0.2	0.2
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)