

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: P775935

Luminaire Tested: HCDJBS1525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B034)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K  
Description: 4 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: 2900.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.14 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

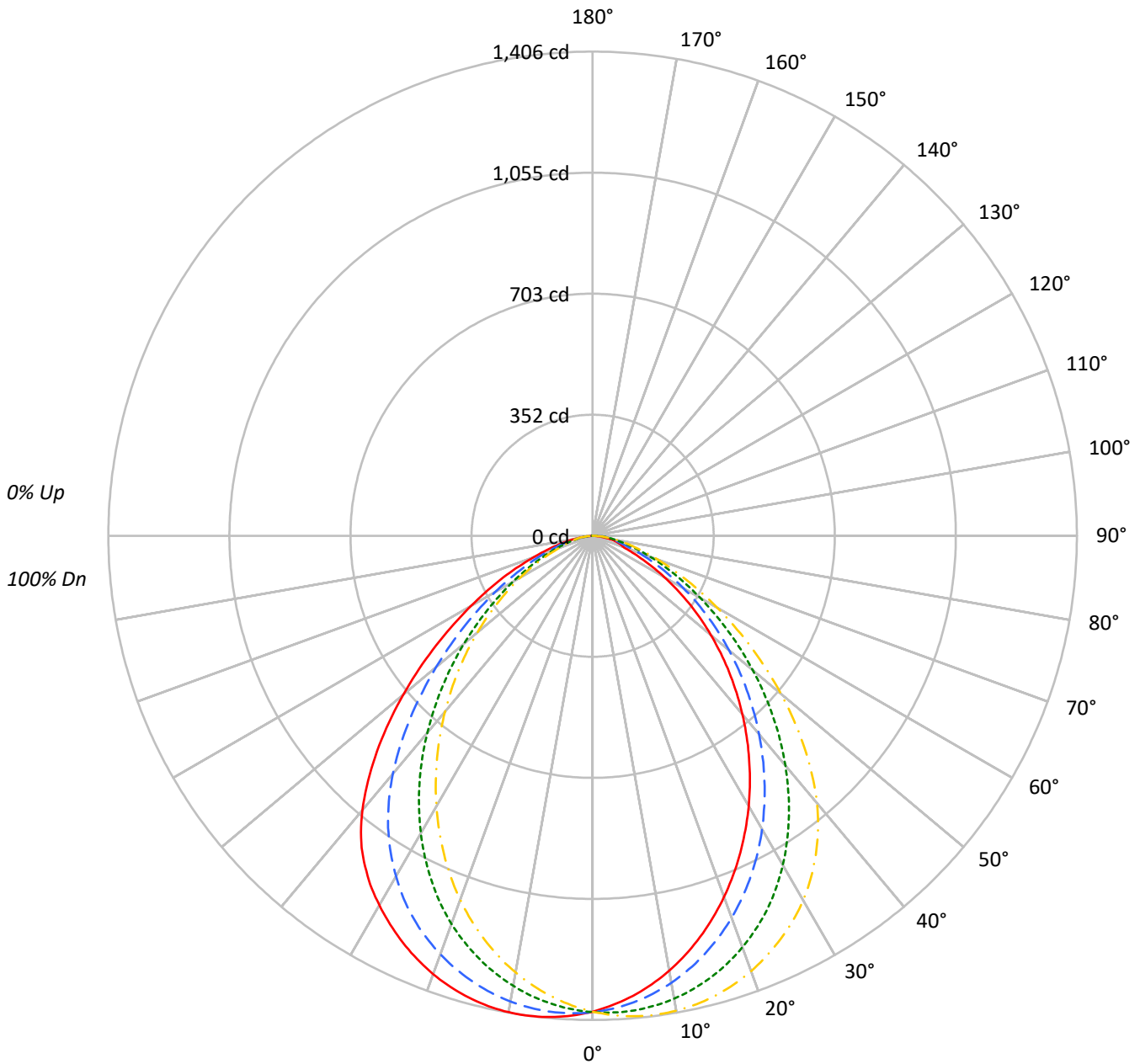
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65								
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57								
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50								
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45								
7	69	57	49	43	68	56	48	43	54	48	42	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	45	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°	173962	173962	173962	173962
5°	169422	174778	177204	172365
10°	163854	174422	179534	169592
15°	157142	172933	180920	165702
20°	149462	170301	181363	160524
25°	140901	166340	180948	153593
30°	131673	160447	179963	144956
35°	121709	152620	177678	134630
40°	111073	143043	170758	122622
45°	99757	131722	157511	109332
50°	87732	118863	140438	95427
55°	74710	104967	121664	80919
60°	60559	90763	102668	67229
65°	46187	77424	85077	54912
70°	34956	65534	66969	43861
75°	36663	54800	52563	35010
80°	33555	47978	37397	26888
85°	16750	48662	10541	14295

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 89.5°

Luminance: 178827 cd/sqm



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	4.5
10°-20°	365.6	12.6
20°-30°	531.6	18.3
30°-40°	595.5	20.5
40°-50°	538.7	18.6
50°-60°	391.2	13.5
60°-70°	223.8	7.7
70°-80°	99.3	3.4
80°-90°	24.1	0.8
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°	1027.4	35.4
0°-40°	1622.8	56.0
0°-60°	2552.8	88.0
0°-90°	2900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2900.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1382	1382	1382	1382	1382	
5°	1341	1384	1403	1364	1341	126
15°	1206	1327	1389	1272	1206	339
25°	1015	1198	1303	1106	1015	466
35°	792	993	1156	876	792	495
45°	560	740	885	614	560	432
55°	340	478	554	369	340	305
65°	155	260	286	184	155	157
75°	75	113	108	72	75	78
85°	12	34	7	10	12	18
90°	0	7	0	0	0	



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
0.5°	1378.4	1381.8	1381.8	1381.6	1384.3	1384.3	1384.5	1384.5	1384.5	1386.4	1384.5
1°	1374.8	1379.2	1380.1	1381.1	1385.0	1386.0	1386.9	1387.4	1387.2	1388.4	1385.7
1.5°	1371.4	1376.5	1378.2	1380.4	1385.2	1387.7	1389.3	1390.1	1389.8	1390.3	1386.7
2°	1367.5	1373.4	1376.3	1379.4	1385.7	1388.9	1391.5	1392.7	1392.3	1392.0	1387.4
2.5°	1363.7	1370.2	1374.1	1378.4	1385.7	1390.1	1393.5	1394.9	1394.4	1393.5	1387.9
3°	1359.3	1366.8	1371.7	1377.2	1385.7	1391.0	1395.2	1397.1	1396.6	1394.7	1388.1
3.5°	1355.2	1363.2	1369.0	1375.8	1385.5	1392.0	1396.9	1399.0	1398.3	1395.9	1388.4
4°	1350.6	1359.5	1366.3	1374.1	1385.0	1392.7	1398.3	1400.7	1400.0	1396.6	1388.1
4.5°	1346.0	1355.7	1363.2	1372.4	1384.3	1393.2	1399.5	1402.4	1401.5	1397.3	1387.9
5°	1341.1	1351.3	1360.0	1370.4	1383.5	1393.5	1400.5	1403.9	1402.7	1397.8	1387.7
5.5°	1336.0	1347.2	1356.6	1368.3	1382.6	1393.5	1401.2	1404.9	1403.6	1398.3	1386.9
6°	1330.7	1342.6	1353.0	1365.8	1381.4	1393.2	1402.0	1406.1	1404.6	1398.3	1386.2
6.5°	1325.4	1338.0	1349.4	1363.2	1379.9	1393.0	1402.4	1406.8	1405.3	1398.3	1385.2
7°	1319.8	1333.1	1345.5	1360.5	1378.2	1392.5	1402.7	1407.3	1405.8	1398.1	1384.0
7.5°	1314.0	1328.0	1341.4	1357.6	1376.5	1392.0	1402.7	1407.8	1406.1	1397.6	1382.8
8°	1307.9	1322.7	1337.0	1354.5	1374.6	1391.0	1402.7	1408.0	1406.3	1397.1	1381.1
8.5°	1301.9	1317.1	1332.4	1351.1	1372.4	1389.8	1402.4	1408.0	1406.1	1396.4	1379.4
9°	1295.6	1311.6	1327.8	1347.7	1370.2	1388.6	1401.7	1408.0	1405.8	1395.2	1377.7
9.5°	1288.8	1305.7	1322.9	1343.8	1367.5	1387.2	1401.2	1407.5	1405.6	1394.2	1375.5
10°	1282.2	1299.7	1317.9	1339.9	1364.9	1385.7	1400.3	1407.0	1404.9	1392.7	1373.4
10.5°	1275.2	1293.4	1312.5	1335.8	1361.7	1383.8	1399.3	1406.3	1404.1	1391.3	1370.9
11°	1268.4	1287.3	1307.2	1331.7	1358.6	1381.8	1398.1	1405.3	1402.9	1389.6	1368.3
11.5°	1260.9	1280.5	1301.6	1327.3	1355.4	1379.7	1396.6	1404.4	1402.0	1387.7	1365.6
12°	1253.6	1274.2	1295.8	1322.5	1352.0	1377.2	1395.2	1403.2	1400.5	1385.7	1362.7
12.5°	1246.1	1267.2	1289.7	1317.9	1348.4	1374.8	1393.2	1401.7	1399.0	1383.5	1359.5
13°	1238.4	1260.2	1283.7	1312.8	1344.5	1372.1	1391.3	1400.0	1397.3	1381.1	1356.4
13.5°	1230.6	1252.9	1277.4	1307.4	1340.6	1369.2	1389.3	1398.1	1395.4	1378.4	1352.8
14°	1222.6	1245.6	1270.8	1302.1	1336.3	1366.1	1386.9	1396.1	1393.2	1375.8	1349.1
14.5°	1214.4	1238.1	1264.1	1296.5	1331.9	1362.7	1384.5	1394.0	1390.8	1372.9	1345.2
15°	1206.1	1230.6	1257.5	1291.0	1327.3	1359.3	1381.8	1391.8	1388.6	1369.7	1341.6
15.5°	1197.7	1222.4	1250.2	1284.9	1322.5	1355.7	1378.9	1389.1	1386.0	1366.3	1337.2
16°	1189.2	1214.6	1243.2	1278.8	1317.4	1351.8	1375.8	1386.4	1383.0	1362.9	1332.9
16.5°	1180.2	1206.6	1235.7	1272.8	1312.5	1347.9	1372.6	1383.5	1379.9	1359.3	1328.5
17°	1171.5	1198.4	1228.4	1266.5	1307.2	1343.8	1369.2	1380.6	1377.0	1355.4	1323.9
17.5°	1162.5	1189.9	1220.7	1259.7	1301.6	1339.4	1365.6	1377.2	1373.6	1351.3	1319.1
18°	1153.6	1181.4	1212.9	1252.9	1296.0	1334.8	1362.0	1373.8	1370.0	1347.4	1314.2
18.5°	1144.1	1172.7	1204.9	1245.9	1290.2	1330.2	1358.1	1370.2	1366.3	1343.1	1308.9
19°	1134.6	1163.7	1196.9	1238.6	1284.2	1325.4	1354.0	1366.6	1362.4	1338.5	1303.8
19.5°	1125.4	1154.8	1188.4	1231.3	1278.1	1320.3	1349.6	1362.4	1358.3	1333.9	1298.5
20°	1116.0	1145.8	1180.2	1224.1	1271.6	1315.2	1345.2	1358.3	1354.2	1329.2	1292.9
20.5°	1106.1	1136.6	1171.7	1216.3	1265.0	1309.9	1340.6	1354.2	1349.8	1324.2	1287.1
21°	1096.4	1127.1	1163.0	1208.6	1258.2	1304.3	1335.8	1349.6	1345.2	1319.1	1281.3



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1066.3	1098.5	1136.1	1184.1	1236.9	1286.6	1320.5	1335.3	1330.7	1302.8	1262.6
23°	1056.4	1088.8	1126.9	1175.8	1229.6	1280.3	1315.2	1330.2	1325.4	1297.3	1256.1
23.5°	1045.9	1078.7	1117.4	1167.1	1221.9	1273.8	1309.6	1325.1	1320.3	1291.4	1249.5
24°	1035.5	1069.2	1108.0	1158.2	1214.1	1267.5	1303.8	1319.6	1314.7	1285.4	1242.5
24.5°	1025.1	1059.0	1098.3	1149.2	1206.1	1260.4	1298.0	1314.0	1309.1	1279.3	1235.2
25°	1014.7	1048.6	1088.4	1140.2	1197.9	1253.6	1291.9	1308.4	1303.1	1273.3	1227.9
25.5°	1004.0	1038.4	1078.4	1130.8	1189.4	1246.4	1285.9	1302.3	1297.3	1267.0	1220.4
26°	993.6	1028.3	1068.0	1121.3	1180.9	1238.9	1279.6	1296.5	1291.4	1260.4	1212.7
26.5°	982.7	1017.8	1058.1	1111.4	1172.0	1231.3	1273.0	1290.5	1285.1	1253.6	1204.7
27°	972.0	1007.2	1047.9	1101.9	1162.8	1223.8	1266.5	1284.4	1278.8	1246.9	1196.2
27.5°	961.1	996.5	1037.5	1092.0	1153.6	1215.6	1259.7	1278.1	1272.5	1240.1	1187.7
28°	950.2	985.8	1026.6	1081.6	1144.1	1207.4	1252.7	1271.3	1265.8	1233.0	1179.0
28.5°	939.3	975.2	1016.4	1071.2	1134.4	1198.9	1245.2	1265.0	1259.2	1225.3	1169.8
29°	928.2	964.3	1005.7	1060.5	1124.5	1190.4	1237.9	1258.2	1252.4	1217.8	1160.6
29.5°	917.0	953.4	995.1	1050.1	1114.3	1181.2	1230.1	1251.5	1245.6	1209.8	1151.4
30°	906.1	942.5	983.4	1039.4	1104.1	1172.0	1222.4	1244.4	1238.4	1201.8	1141.9
30.5°	894.7	931.6	972.8	1028.3	1093.9	1162.3	1214.1	1237.2	1231.3	1193.3	1132.0
31°	883.3	920.2	961.6	1017.4	1083.3	1152.6	1205.7	1229.6	1224.1	1184.6	1122.0
31.5°	872.2	909.3	950.5	1006.2	1072.4	1142.6	1197.2	1222.1	1216.8	1175.8	1112.1
32°	861.0	897.9	938.8	994.8	1061.5	1133.0	1188.2	1214.4	1209.0	1166.9	1101.7
32.5°	849.7	886.5	927.7	983.9	1050.6	1122.5	1178.8	1206.1	1201.5	1157.4	1091.3
33°	838.3	875.3	916.1	972.0	1039.4	1112.4	1169.3	1197.7	1193.3	1147.7	1080.4
33.5°	826.9	864.0	904.9	960.6	1028.0	1101.7	1159.6	1189.2	1184.3	1137.8	1069.5
34°	815.5	852.6	893.0	949.3	1016.6	1091.0	1149.9	1180.2	1174.9	1128.3	1058.1
34.5°	803.8	841.2	881.6	937.6	1004.8	1080.1	1140.0	1171.0	1165.7	1117.7	1046.7
35°	792.2	829.5	869.8	925.7	993.4	1069.0	1129.8	1161.3	1156.5	1107.3	1035.0
35.5°	780.8	818.1	858.1	913.6	981.5	1057.8	1119.4	1151.9	1147.2	1096.4	1022.7
36°	769.2	806.5	846.3	901.8	969.6	1046.4	1108.7	1141.7	1137.3	1085.2	1010.6
36.5°	757.8	795.1	834.9	889.9	957.7	1034.6	1097.8	1131.7	1126.9	1072.8	997.7
37°	745.9	783.5	823.2	878.0	945.6	1022.7	1086.7	1121.1	1116.0	1060.7	984.9
37.5°	734.5	771.6	810.9	865.9	933.0	1010.8	1075.0	1110.4	1104.8	1048.1	971.8
38°	722.7	760.0	799.2	853.5	920.7	998.5	1063.2	1099.0	1092.5	1035.0	958.5
38.5°	711.5	748.6	787.1	841.4	908.3	985.8	1051.3	1087.1	1080.1	1021.5	944.9
39°	699.9	736.7	775.3	828.8	895.7	973.7	1038.9	1074.3	1067.3	1007.7	930.6
39.5°	688.0	725.3	763.4	817.2	883.1	960.9	1026.6	1061.2	1053.2	993.4	916.5
40°	676.1	713.7	751.5	804.8	870.7	948.0	1013.2	1047.4	1039.4	978.8	902.0
40.5°	665.0	702.1	739.6	792.2	857.6	934.7	999.9	1033.8	1025.1	963.8	887.2
41°	652.9	690.4	727.5	779.9	844.8	921.6	985.8	1019.3	1010.6	948.5	872.4
41.5°	641.5	678.8	715.9	767.7	832.0	908.3	972.5	1005.2	995.5	933.0	857.6
42°	629.8	666.9	704.0	755.1	818.9	894.5	958.0	990.2	980.3	917.3	842.4
42.5°	618.5	655.5	691.9	742.8	805.8	880.9	943.7	975.9	965.0	901.8	827.1
43°	606.8	643.9	680.0	730.7	792.9	867.3	928.9	960.6	949.5	885.0	811.6
43.5°	595.4	632.5	668.1	718.3	779.9	853.3	914.4	945.4	933.5	868.8	796.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	560.5	597.9	632.8	681.2	740.1	810.4	869.0	898.4	885.0	819.4	748.6
45.5°	549.6	586.2	620.9	668.6	727.0	796.1	854.0	882.6	868.6	802.9	732.8
46°	538.0	574.8	609.2	656.3	713.7	781.3	838.3	866.6	852.1	786.4	716.6
46.5°	526.6	563.7	597.6	644.1	700.1	767.0	823.0	850.4	835.1	769.7	700.9
47°	515.2	552.1	586.0	631.8	686.8	752.2	807.5	833.9	818.4	753.0	684.9
47.5°	504.1	540.7	574.4	619.7	673.5	737.7	791.7	817.4	801.4	736.5	669.3
48°	492.7	529.3	562.7	607.3	660.4	723.1	776.0	801.2	784.7	720.0	653.6
48.5°	481.5	518.1	551.1	595.2	647.1	708.4	760.5	784.9	768.0	703.8	638.1
49°	470.4	507.0	539.7	583.1	633.7	693.8	744.7	768.2	750.8	687.0	622.8
49.5°	459.5	495.6	528.5	571.2	620.4	679.3	729.0	751.7	734.1	671.0	607.6
50°	448.1	484.7	516.9	559.3	607.1	664.7	713.2	735.0	717.3	654.6	592.3
50.5°	437.2	473.5	505.5	547.0	594.0	650.2	697.7	718.3	700.4	638.8	577.0
51°	426.3	462.4	494.4	534.8	580.7	635.4	682.0	702.1	683.9	622.8	562.5
51.5°	415.4	451.2	483.2	523.2	567.6	621.4	666.4	685.6	666.9	606.8	547.7
52°	404.7	440.3	472.3	511.6	554.7	606.8	651.2	669.1	650.4	591.3	533.2
52.5°	394.0	429.4	461.2	500.0	541.9	592.5	635.4	652.4	634.0	575.8	518.9
53°	383.1	418.8	450.0	487.8	529.0	578.2	619.9	636.1	618.0	560.5	504.6
53.5°	372.0	407.6	439.1	476.4	515.9	564.4	604.6	619.9	601.7	545.0	490.5
54°	361.6	397.2	428.5	464.8	503.3	550.1	589.4	603.9	585.3	530.2	476.7
54.5°	350.9	386.3	417.6	453.2	491.0	536.5	574.6	587.4	569.7	515.5	463.1
55°	340.5	376.1	406.9	442.0	478.4	523.0	559.8	572.4	554.5	500.9	449.8
55.5°	330.1	365.5	396.2	430.6	466.0	509.4	544.8	556.2	538.5	486.4	436.0
56°	319.6	355.3	385.8	419.3	453.4	495.6	529.8	540.7	523.2	471.8	423.1
56.5°	309.2	344.9	375.4	408.1	441.5	482.3	515.2	525.2	507.9	457.8	410.5
57°	299.1	334.7	365.0	397.2	429.7	469.2	500.9	509.9	492.9	444.0	397.7
57.5°	289.1	324.5	354.5	386.1	417.8	456.3	486.9	494.9	478.1	430.4	385.3
58°	278.9	314.6	344.4	375.1	405.9	443.2	472.6	480.1	463.8	417.1	373.2
58.5°	269.2	304.6	334.4	364.5	394.5	430.6	458.8	465.5	449.3	403.5	361.1
59°	259.5	295.2	324.5	354.1	382.9	418.0	444.9	451.2	435.0	390.7	349.5
59.5°	249.9	285.2	314.1	343.6	371.8	405.7	431.4	437.2	421.2	377.8	337.8
60°	240.6	275.8	304.4	333.5	360.6	393.3	418.0	423.4	407.9	365.5	326.4
60.5°	231.2	266.1	294.4	323.0	349.7	381.4	404.7	409.6	394.0	353.1	315.0
61°	222.0	256.9	285.0	313.1	339.0	369.6	391.9	396.2	381.2	341.0	304.4
61.5°	213.0	247.7	275.3	303.2	328.9	357.9	379.3	383.1	368.1	329.1	293.7
62°	204.3	238.7	266.3	293.7	318.2	346.5	366.7	370.3	356.0	318.0	283.3
62.5°	195.3	229.7	257.1	284.0	308.3	335.2	354.3	357.5	343.4	306.3	272.9
63°	187.1	221.0	248.2	274.8	298.1	324.0	342.2	345.1	331.0	295.2	262.9
63.5°	178.8	212.3	239.2	265.8	288.4	313.1	330.3	333.0	319.4	284.3	253.0
64°	170.9	203.6	231.0	256.9	278.7	302.4	318.7	321.3	307.8	274.3	243.6
64.5°	162.6	195.1	222.2	247.9	269.5	292.0	307.3	309.7	296.4	263.7	234.3
65°	155.1	187.1	214.0	239.4	260.0	281.8	296.4	298.3	285.7	253.7	225.4
65.5°	147.3	179.1	205.7	231.2	251.1	271.7	285.5	287.4	274.6	243.6	216.4
66°	139.8	171.1	198.0	223.0	242.3	261.7	274.8	276.5	263.2	234.1	207.9





TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	119.5	148.3	174.7	198.7	217.1	233.6	244.8	245.7	231.0	207.0	183.0
68°	113.4	141.3	167.7	191.2	209.4	224.4	234.8	235.6	220.8	198.0	175.5
68.5°	107.8	134.3	160.4	183.7	201.6	215.7	225.6	225.9	211.1	189.0	167.9
69°	102.5	127.5	153.4	176.4	193.6	207.4	216.7	216.7	201.4	180.1	160.7
69.5°	97.9	120.9	146.6	169.2	185.9	199.2	208.2	207.7	191.7	171.6	153.6
70°	95.0	114.6	139.8	162.1	178.1	191.2	199.7	198.7	182.0	163.6	146.6
70.5°	93.3	108.6	133.5	155.1	170.6	183.0	191.2	190.0	173.8	155.6	140.1
71°	91.6	103.2	127.2	148.6	163.6	175.2	182.7	181.0	165.5	148.1	133.5
71.5°	89.9	98.1	121.4	141.8	156.6	167.7	175.0	172.5	157.0	140.8	127.2
72°	88.2	94.0	115.6	135.5	149.8	160.7	167.2	164.6	149.3	133.8	121.2
72.5°	86.0	91.1	110.0	129.4	143.2	153.4	159.7	156.8	141.8	127.0	115.1
73°	83.9	88.9	104.9	123.4	136.7	146.6	152.9	149.3	134.5	120.2	109.3
73.5°	81.9	87.0	99.8	117.5	130.4	139.8	145.6	142.0	127.5	113.7	103.7
74°	79.7	85.1	95.2	112.0	124.3	133.8	138.9	135.0	120.9	107.4	98.1
74.5°	77.8	83.4	90.6	106.6	118.5	127.5	132.3	128.2	114.4	101.3	92.8
75°	75.4	81.4	86.5	101.5	112.7	121.4	126.3	121.7	108.1	95.5	87.7
75.5°	72.9	79.5	83.6	96.5	107.1	115.4	119.7	115.4	102.0	89.7	82.6
76°	70.3	77.3	80.7	91.8	102.0	109.8	113.9	109.1	96.0	84.1	77.5
76.5°	67.4	74.9	77.8	87.2	96.7	104.4	108.1	103.0	90.4	78.5	72.7
77°	64.7	72.5	74.6	83.4	91.8	99.1	102.5	96.9	84.6	73.2	68.1
77.5°	61.8	70.0	72.5	79.7	87.2	94.0	96.9	91.4	79.0	67.9	63.5
78°	58.9	67.4	70.5	76.1	82.6	88.9	91.6	85.8	73.4	62.8	58.6
78.5°	55.7	64.9	68.6	72.5	78.3	84.3	86.5	80.5	67.9	57.7	54.3
79°	52.6	62.0	66.4	68.8	74.2	79.7	81.4	75.1	62.3	52.6	49.9
79.5°	49.4	59.4	64.2	65.7	70.0	75.4	76.6	69.8	57.0	47.7	45.6
80°	46.3	56.5	61.8	62.5	66.2	71.0	72.0	64.7	51.6	43.1	41.4
80.5°	42.9	53.6	59.4	59.9	62.5	66.9	67.4	60.1	46.3	38.3	37.6
81°	39.5	50.4	57.0	57.2	58.9	62.8	62.8	55.0	41.0	33.9	33.7
81.5°	36.1	47.5	54.3	54.5	55.5	58.9	58.4	50.4	35.6	29.6	29.8
82°	32.7	44.1	51.6	51.9	52.1	55.0	53.8	45.8	30.3	25.9	26.2
82.5°	29.3	41.0	49.0	49.4	49.0	51.4	49.4	41.4	26.2	22.5	23.0
83°	25.4	37.6	46.3	46.8	45.8	47.5	45.3	37.1	21.8	19.1	19.9
83.5°	21.8	34.2	43.4	44.6	42.7	43.9	41.2	33.2	17.4	15.8	16.7
84°	18.2	30.8	40.7	42.2	39.5	40.2	37.3	29.1	13.3	12.4	13.6
84.5°	14.8	27.4	37.8	39.7	36.6	36.8	33.7	25.7	9.0	9.9	10.7
85°	11.6	24.0	35.1	37.3	33.7	33.4	30.1	22.3	7.3	7.8	7.8
85.5°	9.5	20.8	32.5	34.9	31.0	30.3	26.7	19.1	5.8	5.6	5.6
86°	8.2	18.2	29.8	32.2	28.4	27.1	23.7	15.8	4.8	3.6	3.4
86.5°	6.8	16.0	27.1	29.6	25.7	24.2	20.6	12.4	3.9	1.9	1.9
87°	5.6	14.1	24.5	26.7	23.3	21.3	17.4	9.7	2.9	1.0	0.7
87.5°	4.4	12.1	21.6	24.0	20.6	18.4	14.3	7.0	2.4	0.5	0.0
88°	3.2	10.2	18.9	21.1	17.9	15.5	11.1	4.8	1.5	0.2	0.0
88.5°	1.9	8.2	16.0	18.4	15.5	12.6	8.5	2.9	0.7	0.0	0.0



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	2.7	8.0	9.2	7.3	5.3	1.9	0.2	0.0	0.0	0.0



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1382.3	1382.3	1382.3	1382.3	1382.3	1382.3
0.5°	1381.8	1382.3	1380.1	1378.7	1378.2	1378.4
1°	1381.8	1381.1	1378.0	1375.5	1374.6	1374.8
1.5°	1381.6	1379.7	1375.3	1372.1	1370.9	1371.4
2°	1381.1	1378.0	1372.6	1368.8	1367.1	1367.5
2.5°	1380.4	1376.3	1369.7	1365.4	1363.2	1363.7
3°	1379.7	1374.3	1366.6	1361.2	1359.1	1359.3
3.5°	1378.4	1372.1	1363.4	1357.4	1354.7	1355.2
4°	1377.5	1369.7	1360.0	1353.0	1349.8	1350.6
4.5°	1376.0	1367.3	1356.1	1348.6	1345.0	1346.0
5°	1374.3	1364.4	1352.5	1344.0	1340.2	1341.1
5.5°	1372.6	1361.5	1348.4	1339.2	1335.1	1336.0
6°	1370.7	1358.6	1344.0	1334.1	1329.7	1330.7
6.5°	1368.5	1355.2	1339.9	1329.0	1324.2	1325.4
7°	1366.1	1351.8	1335.3	1323.7	1318.3	1319.8
7.5°	1363.7	1348.2	1330.5	1318.1	1312.5	1314.0
8°	1361.0	1344.3	1325.6	1312.3	1306.2	1307.9
8.5°	1358.1	1340.4	1320.3	1306.5	1299.9	1301.9
9°	1355.2	1336.0	1315.2	1300.4	1293.6	1295.6
9.5°	1351.8	1331.7	1309.4	1294.1	1286.8	1288.8
10°	1348.4	1327.1	1303.8	1287.6	1280.1	1282.2
10.5°	1345.0	1322.5	1298.0	1281.0	1273.3	1275.2
11°	1341.1	1317.4	1291.9	1274.2	1266.0	1268.4
11.5°	1337.2	1312.5	1285.9	1267.5	1258.7	1260.9
12°	1333.1	1307.0	1279.3	1260.2	1251.2	1253.6
12.5°	1329.0	1301.6	1272.8	1252.7	1243.7	1246.1
13°	1324.4	1296.0	1266.0	1245.4	1235.9	1238.4
13.5°	1319.8	1290.2	1259.2	1237.6	1227.7	1230.6
14°	1315.0	1284.2	1251.9	1229.9	1220.0	1222.6
14.5°	1310.1	1278.1	1244.9	1221.9	1211.7	1214.4
15°	1305.0	1271.8	1237.4	1213.9	1203.2	1206.1
15.5°	1299.7	1265.0	1229.6	1205.4	1194.7	1197.7
16°	1294.1	1258.5	1221.9	1197.2	1186.0	1189.2
16.5°	1288.5	1251.9	1214.1	1188.7	1177.3	1180.2
17°	1282.7	1244.7	1206.1	1180.0	1168.1	1171.5
17.5°	1276.9	1237.4	1197.7	1171.0	1158.9	1162.5
18°	1270.6	1230.1	1189.4	1162.0	1149.9	1153.6
18.5°	1264.5	1222.6	1180.7	1152.8	1140.5	1144.1
19°	1258.0	1214.9	1172.0	1143.6	1131.0	1134.6
19.5°	1251.5	1207.1	1163.0	1133.9	1121.3	1125.4
20°	1244.7	1198.6	1153.8	1124.5	1111.9	1116.0
20.5°	1237.6	1190.4	1144.6	1114.8	1102.2	1106.1
21°	1230.1	1181.7	1135.1	1104.8	1092.2	1096.4

TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1207.6	1155.2	1105.6	1074.3	1061.7	1066.3
23°	1199.4	1145.6	1095.4	1063.9	1051.5	1056.4
23.5°	1191.1	1136.3	1085.0	1053.2	1041.1	1045.9
24°	1182.4	1126.4	1074.5	1042.6	1030.4	1035.5
24.5°	1173.9	1116.5	1063.9	1031.7	1019.8	1025.1
25°	1164.7	1106.1	1053.0	1020.7	1008.9	1014.7
25.5°	1155.7	1096.1	1042.3	1009.8	998.2	1004.0
26°	1146.0	1085.9	1030.9	998.7	987.3	993.6
26.5°	1136.6	1075.5	1020.3	987.3	976.2	982.7
27°	1126.9	1064.4	1008.6	976.2	965.2	972.0
27.5°	1117.0	1053.7	997.5	964.8	954.1	961.1
28°	1106.8	1042.6	985.6	953.1	942.7	950.2
28.5°	1096.8	1031.7	974.5	941.7	931.3	939.3
29°	1086.2	1020.5	962.6	930.1	920.2	928.2
29.5°	1075.5	1009.1	951.2	918.5	908.8	917.0
30°	1065.1	997.5	939.1	906.8	897.4	906.1
30.5°	1054.4	985.8	927.2	895.0	885.8	894.7
31°	1043.3	974.2	915.1	883.1	874.4	883.3
31.5°	1031.9	962.3	903.2	871.2	862.7	872.2
32°	1020.5	950.2	891.1	859.1	851.1	861.0
32.5°	1008.9	938.3	878.7	847.7	839.2	849.7
33°	997.2	926.2	866.6	835.4	827.8	838.3
33.5°	985.1	914.1	854.5	823.5	816.0	826.9
34°	973.0	901.5	842.4	811.1	804.3	815.5
34.5°	960.9	888.9	830.0	799.0	792.7	803.8
35°	948.5	876.3	817.2	787.1	780.8	792.2
35.5°	935.7	864.0	804.8	775.0	769.2	780.8
36°	922.8	851.3	792.7	762.9	757.3	769.2
36.5°	910.0	838.3	780.3	751.0	745.7	757.8
37°	896.7	825.2	767.7	738.7	734.1	745.9
37.5°	883.3	812.3	755.1	726.5	722.2	734.5
38°	869.5	799.2	742.5	714.4	710.3	722.7
38.5°	856.7	786.2	730.2	702.6	698.7	711.5
39°	842.6	773.1	717.8	690.4	687.0	699.9
39.5°	828.6	759.7	705.2	678.8	675.4	688.0
40°	814.8	746.4	692.6	666.4	663.3	676.1
40.5°	800.7	733.1	680.0	654.6	651.9	665.0
41°	786.6	720.0	667.7	642.4	640.3	652.9
41.5°	772.6	706.7	655.1	630.8	628.6	641.5
42°	758.5	693.6	642.7	619.2	616.8	629.8
42.5°	744.5	680.5	630.3	607.1	605.6	618.5
43°	729.7	667.2	618.2	595.4	594.2	606.8
43.5°	715.4	653.8	605.6	583.6	582.3	595.4

TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	672.3	614.3	569.3	548.9	548.2	560.5
45.5°	658.2	601.7	557.4	537.3	536.8	549.6
46°	643.4	588.9	545.5	526.1	525.6	538.0
46.5°	629.4	575.8	533.6	514.7	514.3	526.6
47°	614.8	563.0	521.5	503.6	503.3	515.2
47.5°	600.5	550.1	509.6	492.2	492.2	504.1
48°	586.2	537.5	498.0	480.8	481.0	492.7
48.5°	572.2	524.7	486.1	469.9	469.9	481.5
49°	558.4	512.3	475.0	459.0	459.0	470.4
49.5°	544.3	500.0	463.4	447.6	448.3	459.5
50°	530.0	487.4	451.7	436.7	437.7	448.1
50.5°	516.2	475.0	440.3	426.0	426.5	437.2
51°	503.1	462.6	429.4	415.4	415.9	426.3
51.5°	489.3	450.5	418.5	404.2	405.4	415.4
52°	476.0	438.6	407.4	394.3	395.0	404.7
52.5°	462.6	426.8	396.5	383.6	384.6	394.0
53°	449.8	414.6	386.1	373.2	374.2	383.1
53.5°	436.7	403.3	375.4	362.8	363.8	372.0
54°	424.6	391.4	365.0	352.9	353.6	361.6
54.5°	412.0	380.2	354.8	342.9	343.6	350.9
55°	399.6	368.8	344.6	333.0	333.7	340.5
55.5°	387.3	358.2	334.7	323.3	323.8	330.1
56°	375.6	347.0	324.7	313.8	313.8	319.6
56.5°	364.0	336.9	315.3	304.4	304.1	309.2
57°	352.6	326.0	305.6	294.9	294.4	299.1
57.5°	341.5	315.8	296.1	285.7	284.8	289.1
58°	330.3	305.6	286.9	276.8	275.8	278.9
58.5°	319.4	295.9	277.7	267.8	266.1	269.2
59°	308.7	286.0	269.0	259.3	257.1	259.5
59.5°	298.3	276.8	260.0	250.6	247.9	249.9
60°	288.1	267.1	251.3	242.3	239.2	240.6
60.5°	278.0	258.1	242.8	233.6	230.2	231.2
61°	268.5	249.1	234.3	225.6	221.7	222.0
61.5°	258.8	240.4	226.3	217.6	213.3	213.0
62°	249.6	231.9	218.1	209.9	205.3	204.3
62.5°	240.4	223.4	209.9	201.9	197.0	195.3
63°	231.4	215.2	202.1	194.1	189.3	187.1
63.5°	223.0	207.4	194.4	186.6	181.5	178.8
64°	214.5	199.2	186.8	179.1	174.0	170.9
64.5°	206.5	191.9	179.3	171.8	166.7	162.6
65°	198.7	184.4	172.3	164.6	159.7	155.1
65.5°	190.7	177.2	165.0	157.5	152.7	147.3
66°	182.7	169.9	158.0	150.5	145.9	139.8



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	161.2	149.8	138.4	130.9	125.8	119.5
68°	154.1	143.2	132.3	124.8	119.2	113.4
68.5°	147.6	136.9	126.3	119.0	112.9	107.8
69°	141.0	130.9	120.4	113.4	106.9	102.5
69.5°	134.7	124.8	114.9	107.8	101.1	97.9
70°	128.7	119.2	109.5	102.8	95.7	95.0
70.5°	122.9	113.7	104.2	98.1	91.1	93.3
71°	116.8	108.3	99.1	93.5	87.5	91.6
71.5°	111.2	103.0	94.5	89.2	85.8	89.9
72°	105.9	97.9	89.9	85.8	83.9	88.2
72.5°	100.8	93.1	87.0	82.4	82.2	86.0
73°	95.5	88.5	82.9	79.0	80.2	83.9
73.5°	90.6	84.3	78.8	75.9	78.3	81.9
74°	86.0	80.2	74.6	72.5	75.9	79.7
74.5°	81.4	76.1	70.5	70.0	73.7	77.8
75°	76.8	72.0	67.1	67.6	71.2	75.4
75.5°	72.7	67.6	64.0	65.4	68.6	72.9
76°	68.3	64.0	60.8	63.3	65.9	70.3
76.5°	64.2	60.3	57.7	61.1	63.3	67.4
77°	60.3	56.7	55.0	58.6	60.3	64.7
77.5°	56.5	53.3	52.1	56.0	57.7	61.8
78°	52.6	49.9	49.4	53.6	54.8	58.9
78.5°	48.7	46.5	46.5	50.9	51.6	55.7
79°	45.1	43.4	43.9	48.2	48.5	52.6
79.5°	41.4	40.0	41.4	45.6	45.3	49.4
80°	38.0	37.1	39.0	42.7	41.9	46.3
80.5°	34.7	34.2	36.6	40.0	38.8	42.9
81°	31.3	31.3	34.2	37.1	35.6	39.5
81.5°	28.1	28.6	31.7	34.2	32.2	36.1
82°	25.2	25.7	29.1	31.5	29.1	32.7
82.5°	22.3	23.0	26.4	28.6	25.9	29.3
83°	19.1	20.6	23.5	25.9	22.8	25.4
83.5°	16.2	17.9	20.8	23.3	19.9	21.8
84°	13.3	15.3	17.9	20.6	17.2	18.2
84.5°	10.4	12.6	15.0	17.9	14.8	14.8
85°	7.8	9.9	12.1	15.0	12.8	11.6
85.5°	5.3	7.5	9.0	12.1	10.9	9.5
86°	3.2	5.1	6.8	9.2	9.0	8.2
86.5°	1.2	2.7	4.6	7.0	7.3	6.8
87°	0.0	0.5	2.4	4.8	5.6	5.6
87.5°	0.0	0.0	0.2	2.4	3.6	4.4
88°	0.0	0.0	0.0	0.2	1.9	3.2
88.5°	0.0	0.0	0.0	0.2	0.5	1.9



TEST NUMBER: P775935

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.2	0.2	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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Peachtree City, GA 30269

Scaled Data Report





21.5°	1086.4	1117.7	1154.0	1200.6	1251.5	1298.5	1330.9	1345.0	1340.6	1313.7	1275.2
22°	1076.5	1108.2	1145.3	1192.6	1244.2	1292.7	1325.9	1340.4	1335.8	1308.4	1268.9



44°	583.6	620.9	656.3	705.7	766.3	839.0	899.3	929.6	917.5	852.3	779.9
44.5°	572.4	609.2	644.4	693.3	753.2	824.7	884.3	914.1	901.5	836.3	764.3



66.5°	132.8	163.1	190.0	214.7	233.6	252.0	264.4	266.1	252.0	224.9	199.7
67°	126.0	155.6	182.2	207.0	225.1	242.8	254.5	255.9	241.6	215.9	191.5



89°	0.7	6.3	12.8	15.3	12.8	10.2	5.8	1.5	0.2	0.0	0.0
89.5°	0.2	4.6	9.9	12.4	9.9	7.5	3.6	0.7	0.0	0.0	0.0



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21.5°	1222.6	1173.2	1125.4	1094.9	1082.1	1086.4
22°	1215.3	1164.2	1115.3	1084.7	1072.1	1076.5



44°	700.9	640.8	593.7	572.2	571.0	583.6
44.5°	687.0	627.7	581.4	560.3	559.6	572.4



66.5°	175.5	162.9	151.5	144.0	138.9	132.8
67°	168.2	156.1	144.7	137.4	132.3	126.0

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89°	0.0	0.0	0.0	0.2	0.2	0.7
89.5°	0.0	0.0	0.0	0.2	0.2	0.2

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)