

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: P776220

Luminaire Tested: HCDJBL51525CSD-HCD8TSQMW-2500lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TSQMW-2500lm-2700K  
Description: 8 INCH SQUARE MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

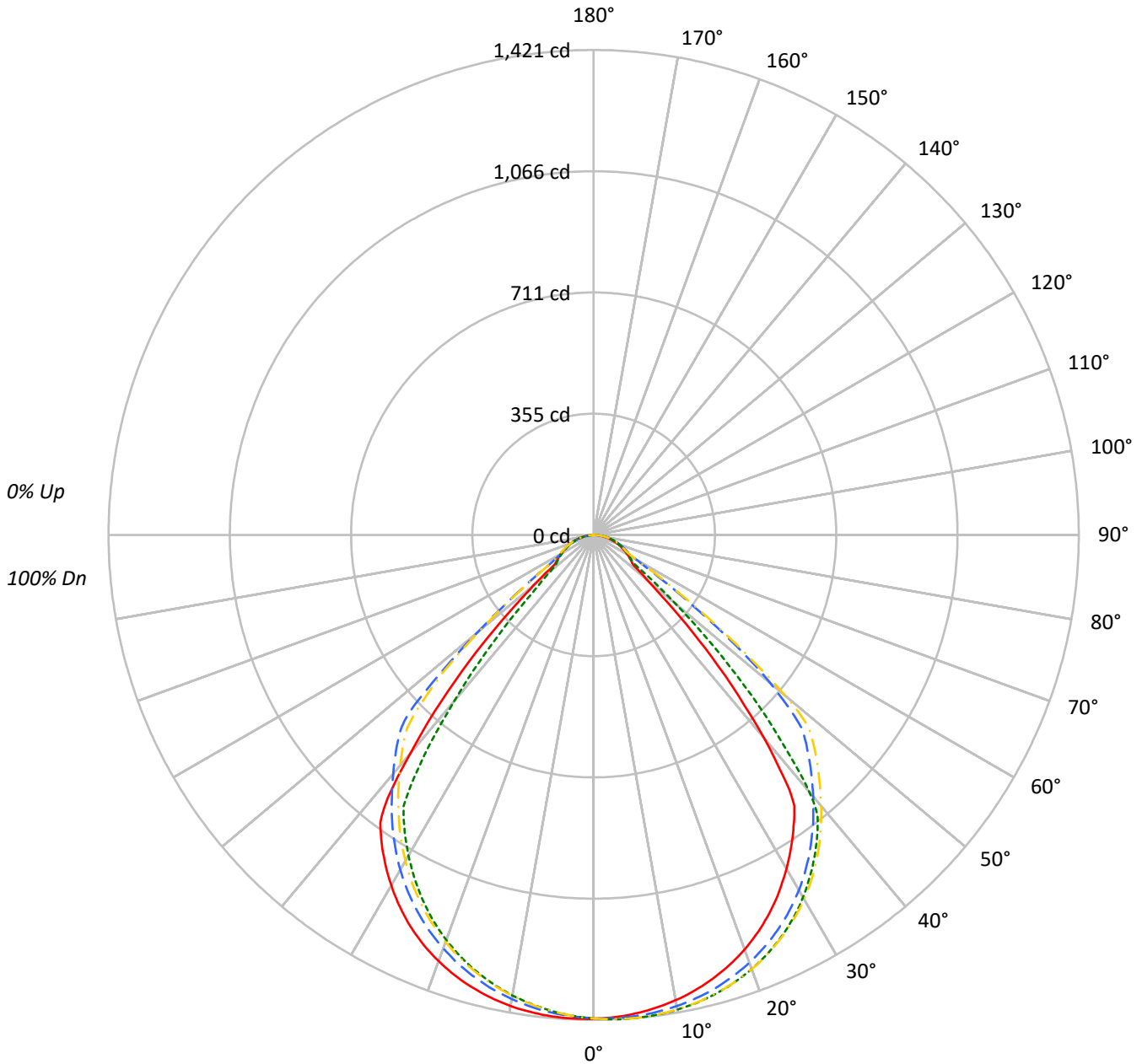
Lumens per Lamp: N/A  
Luminaire Lumens: 2566.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
CIE Type: Direct

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: P776220  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P776220

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56								
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46								
8	69	57	50	44	67	56	49	44	55	49	44	54	48	44	53	48	44	42								
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35								

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

	0°	90°	180°	270°
0°	33973	33973	33973	33973
5°	33881	34201	34083	33710
10°	33705	34385	34124	33365
15°	33421	34516	34076	32880
20°	32989	34540	33902	32223
25°	32288	34384	33532	31283
30°	31276	33965	32818	30030
35°	29954	33157	31760	28403
40°	24268	30757	26165	19927
45°	14782	21160	16603	10953
50°	7580	11546	8472	6189
55°	5660	5911	5518	5293
60°	5467	5630	5318	5098
65°	5288	5538	5152	4919
70°	5125	5468	4971	4704
75°	4864	5475	4753	4373
80°	4377	5551	4377	3784
85°	3136	5943	3467	2201

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 31269 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	5.2
10°-20°	383.2	14.9
20°-30°	572.8	22.3
30°-40°	657.3	25.6
40°-50°	477.3	18.6
50°-60°	174.9	6.8
60°-70°	93.8	3.7
70°-80°	56.7	2.2
80°-90°	15.9	0.6
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°	1090.1	42.5
0°-40°	1747.4	68.1
0°-60°	2399.6	93.5
0°-90°	2566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1417	1417	1417	1417	1417	
5°	1408	1421	1416	1400	1408	134
15°	1346	1390	1373	1324	1346	380
25°	1220	1300	1267	1182	1220	561
35°	1023	1133	1085	970	1023	625
45°	436	624	490	323	436	344
55°	135	141	132	127	135	127
65°	93	98	91	87	93	92
75°	52	59	51	47	52	55
85°	11	22	13	8	11	14
90°	0	3	0	0	0	



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CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8
0.5°	1417.3	1417.5	1416.8	1416.5	1417.7	1417.7	1418.2	1418.2	1418.2	1417.5	1415.6
1°	1416.8	1417.3	1417.0	1417.3	1418.7	1418.5	1418.7	1418.5	1418.5	1417.3	1414.8
1.5°	1416.0	1417.0	1417.3	1417.7	1419.4	1419.2	1419.2	1418.5	1417.0	1414.1	
2°	1415.3	1416.5	1417.3	1418.0	1419.9	1419.9	1419.7	1419.4	1418.5	1416.8	1413.4
2.5°	1414.1	1416.0	1417.3	1418.5	1420.4	1420.4	1420.2	1419.4	1418.5	1416.3	1412.2
3°	1413.1	1415.3	1417.0	1418.7	1420.9	1420.9	1420.4	1419.4	1418.2	1415.8	1411.2
3.5°	1412.2	1414.6	1416.8	1418.7	1420.9	1421.1	1420.6	1419.7	1418.0	1415.1	1409.7
4°	1410.7	1413.6	1416.5	1418.7	1420.9	1421.1	1420.9	1419.4	1417.5	1414.1	1408.3
4.5°	1409.3	1412.7	1415.8	1418.2	1420.9	1421.1	1420.6	1419.2	1416.8	1413.1	1406.8
5°	1407.6	1411.4	1415.3	1418.0	1420.9	1421.1	1420.6	1418.7	1416.0	1411.9	1405.1
5.5°	1405.9	1410.2	1414.3	1417.5	1420.6	1420.6	1420.2	1418.2	1415.1	1410.5	1403.5
6°	1403.9	1408.8	1413.6	1417.0	1420.2	1420.4	1419.7	1417.5	1414.1	1409.3	1401.5
6.5°	1402.2	1407.1	1412.4	1416.3	1419.7	1419.9	1419.2	1416.8	1412.9	1407.8	1399.6
7°	1400.1	1405.4	1411.4	1415.6	1418.9	1419.4	1418.5	1415.8	1411.7	1406.1	1397.2
7.5°	1397.6	1403.7	1410.0	1414.6	1418.2	1418.9	1417.7	1414.8	1410.2	1404.4	1395.0
8°	1395.2	1401.8	1408.8	1413.6	1417.3	1418.0	1416.8	1413.6	1408.8	1402.5	1392.3
8.5°	1392.8	1399.6	1407.1	1412.2	1416.3	1417.0	1415.8	1412.4	1407.1	1400.3	1389.6
9°	1390.1	1397.4	1405.4	1411.0	1415.1	1416.0	1414.6	1411.0	1405.4	1398.1	1387.0
9.5°	1387.2	1395.0	1403.7	1409.5	1413.9	1414.6	1413.4	1409.5	1403.5	1395.7	1384.1
10°	1384.3	1392.3	1402.0	1408.1	1412.2	1413.4	1411.7	1407.6	1401.5	1393.3	1381.2
10.5°	1381.2	1389.6	1399.8	1406.4	1410.7	1411.9	1410.2	1405.6	1399.1	1390.9	1377.8
11°	1378.0	1387.0	1397.6	1404.4	1409.0	1410.5	1408.5	1403.7	1396.7	1388.0	1374.4
11.5°	1374.6	1384.1	1395.0	1402.5	1407.3	1408.5	1406.6	1401.5	1394.2	1385.3	1371.0
12°	1371.0	1380.9	1392.8	1400.3	1405.4	1406.6	1404.7	1399.3	1391.8	1382.1	1367.6
12.5°	1367.1	1377.8	1390.1	1398.1	1403.2	1404.7	1402.7	1397.2	1388.9	1378.8	1363.7
13°	1363.5	1374.2	1387.5	1395.7	1401.0	1402.5	1400.3	1394.5	1386.0	1375.4	1359.9
13.5°	1359.4	1370.8	1384.6	1393.3	1398.6	1400.3	1397.9	1391.8	1382.9	1372.0	1355.7
14°	1355.3	1366.9	1381.7	1390.6	1395.9	1397.6	1395.5	1388.9	1379.7	1368.3	1351.4
14.5°	1350.9	1363.3	1378.5	1388.0	1393.3	1395.2	1392.8	1386.0	1376.3	1364.7	1347.0
15°	1346.3	1359.1	1375.1	1384.8	1390.4	1392.6	1389.9	1382.9	1372.7	1360.6	1342.7
15.5°	1341.7	1355.0	1371.7	1381.7	1387.5	1389.4	1387.2	1379.7	1369.1	1356.7	1338.1
16°	1336.9	1350.4	1368.1	1378.5	1384.3	1386.5	1384.1	1376.3	1365.2	1352.4	1333.2
16.5°	1332.0	1346.3	1364.2	1375.1	1381.2	1383.4	1380.7	1372.7	1361.3	1348.0	1328.1
17°	1326.9	1341.7	1360.3	1371.5	1377.5	1380.0	1377.3	1369.1	1357.2	1343.6	1323.1
17.5°	1321.6	1336.9	1356.5	1367.9	1373.9	1376.6	1373.7	1365.2	1352.8	1339.0	1317.7
18°	1316.3	1332.0	1352.1	1364.0	1370.3	1372.9	1370.3	1360.8	1348.2	1334.2	1312.4
18.5°	1310.5	1326.9	1347.8	1360.1	1366.4	1369.1	1366.4	1357.0	1343.6	1329.1	1306.6
19°	1304.7	1321.6	1343.4	1355.7	1362.3	1365.2	1362.3	1352.4	1338.8	1324.0	1300.8
19.5°	1298.8	1316.0	1338.6	1351.4	1357.9	1361.1	1358.2	1348.2	1334.0	1318.7	1295.0
20°	1292.8	1310.5	1333.7	1347.0	1353.6	1357.0	1353.8	1343.2	1328.6	1313.4	1288.9
20.5°	1286.3	1304.7	1328.9	1342.4	1349.0	1352.4	1349.5	1338.6	1323.3	1307.8	1282.6
21°	1279.7	1298.8	1323.8	1337.6	1344.4	1348.0	1344.6	1333.5	1318.0	1301.8	1276.1



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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°	1258.9	1280.0	1307.1	1322.1	1328.9	1333.0	1329.8	1317.5	1300.5	1283.3	1256.2
23°	1251.6	1273.2	1301.3	1316.8	1323.5	1327.7	1324.8	1311.9	1294.2	1276.8	1249.2
23.5°	1244.1	1266.4	1295.5	1311.0	1317.7	1322.3	1319.2	1306.1	1287.7	1270.0	1241.9
24°	1236.4	1259.1	1289.2	1305.1	1312.2	1316.8	1313.4	1299.8	1281.4	1263.3	1234.7
24.5°	1228.6	1251.9	1282.9	1299.3	1306.1	1311.0	1307.8	1293.8	1274.4	1256.2	1226.9
25°	1220.4	1244.4	1276.3	1292.8	1299.6	1304.9	1301.8	1287.5	1267.4	1249.0	1219.4
25.5°	1212.2	1236.6	1269.8	1286.5	1293.5	1298.6	1295.7	1280.9	1260.3	1241.5	1211.4
26°	1203.9	1228.9	1262.8	1280.0	1286.7	1292.6	1289.4	1274.1	1252.8	1234.0	1203.4
26.5°	1195.2	1220.9	1256.0	1273.2	1280.0	1286.0	1282.9	1266.9	1245.1	1226.0	1195.2
27°	1186.5	1212.6	1249.0	1266.4	1272.9	1278.7	1276.3	1259.6	1237.1	1218.0	1186.7
27.5°	1177.0	1204.2	1241.5	1259.4	1265.7	1272.0	1269.5	1252.4	1229.1	1209.7	1178.3
28°	1168.1	1195.7	1233.7	1251.9	1258.2	1264.9	1262.5	1244.8	1220.9	1201.3	1169.8
28.5°	1158.2	1187.0	1226.2	1244.6	1250.4	1257.4	1255.3	1236.9	1212.4	1192.5	1160.6
29°	1149.2	1178.0	1218.2	1236.6	1243.2	1249.7	1248.0	1229.1	1203.4	1183.8	1151.6
29.5°	1139.0	1168.8	1210.2	1228.9	1234.4	1241.9	1240.5	1220.6	1194.7	1174.4	1142.2
30°	1129.6	1159.4	1202.0	1220.9	1226.7	1234.0	1232.5	1212.4	1185.3	1165.4	1133.0
30.5°	1119.2	1149.9	1193.8	1212.6	1217.5	1225.7	1224.8	1203.7	1176.3	1156.0	1123.1
31°	1109.5	1140.5	1185.0	1203.9	1209.5	1217.5	1216.5	1195.0	1166.9	1146.3	1113.4
31.5°	1099.1	1130.3	1176.1	1195.5	1199.8	1208.5	1208.3	1186.0	1157.4	1136.6	1103.4
32°	1088.9	1120.4	1167.1	1186.5	1190.6	1200.1	1199.6	1176.8	1147.7	1126.9	1093.3
32.5°	1078.0	1110.5	1157.9	1177.3	1181.4	1190.9	1190.9	1167.6	1137.8	1117.0	1082.6
33°	1067.8	1100.5	1148.2	1168.1	1172.2	1181.9	1181.9	1158.2	1127.7	1107.1	1072.2
33.5°	1056.9	1090.1	1139.0	1158.9	1162.3	1172.4	1172.7	1148.7	1117.5	1097.1	1061.5
34°	1046.1	1080.0	1129.1	1149.2	1152.4	1162.8	1163.2	1138.8	1107.1	1087.0	1050.7
34.5°	1034.2	1069.3	1119.2	1139.5	1142.4	1153.1	1153.8	1129.1	1095.9	1076.6	1039.8
35°	1023.3	1058.6	1109.0	1129.6	1132.7	1143.6	1144.1	1119.2	1085.0	1065.9	1028.6
35.5°	1011.9	1047.7	1098.8	1119.7	1121.8	1133.7	1133.9	1109.2	1073.9	1055.0	1017.5
36°	1000.0	1036.8	1088.2	1109.5	1111.4	1123.5	1123.8	1098.8	1062.5	1044.1	1006.1
36.5°	987.7	1025.5	1077.8	1099.6	1100.3	1113.6	1113.4	1088.2	1049.9	1033.0	994.5
37°	966.9	1014.1	1067.1	1089.2	1089.2	1103.0	1103.0	1077.3	1031.5	1021.4	983.1
37.5°	941.9	1002.7	1056.2	1078.5	1077.8	1092.3	1092.1	1066.4	1008.5	1010.0	971.2
38°	908.5	990.8	1045.3	1067.8	1066.1	1081.2	1081.4	1055.0	979.9	997.6	959.6
38.5°	875.1	978.7	1033.9	1056.9	1053.1	1070.3	1070.3	1043.9	946.3	983.8	948.2
39°	842.7	960.6	1022.8	1046.1	1034.4	1058.9	1059.4	1032.2	910.7	961.3	936.6
39.5°	809.7	936.4	1011.7	1034.7	1011.4	1047.3	1048.0	1019.2	873.4	936.4	925.0
40°	775.3	904.6	1000.3	1023.0	982.6	1035.4	1036.4	997.9	835.9	906.6	913.6
40.5°	739.5	871.5	988.9	1011.2	949.9	1022.6	1024.7	976.3	800.3	873.4	902.5
41°	702.9	839.7	977.3	999.3	912.9	1002.5	1013.6	948.0	766.1	840.5	891.1
41.5°	666.9	807.8	965.9	986.5	875.3	980.2	1002.0	916.5	731.3	803.4	879.7
42°	632.5	774.4	954.3	969.3	837.6	953.1	990.6	882.4	696.2	769.5	868.1
42.5°	599.8	739.5	942.7	947.0	801.7	920.9	979.2	846.5	659.8	736.6	856.7
43°	566.1	704.9	931.3	920.6	766.9	886.0	967.6	811.7	624.0	705.4	845.1
43.5°	532.7	670.0	919.4	890.8	731.8	849.2	956.5	777.8	588.4	671.0	833.2



TEST NUMBER: P776220

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	435.9	569.0	884.5	788.4	624.0	743.6	922.1	676.8	489.6	571.5	795.9
45.5°	405.1	537.1	872.7	754.3	587.7	710.0	910.2	642.2	456.9	536.8	776.3
46°	376.3	504.9	860.6	722.1	554.0	675.6	898.3	607.8	425.9	506.1	753.1
46.5°	348.0	472.2	848.5	689.9	521.1	640.0	886.5	572.9	395.2	474.4	720.6
47°	320.4	440.5	835.9	656.7	488.2	604.4	874.4	540.0	365.9	445.8	680.7
47.5°	295.4	410.2	813.6	623.3	455.7	569.5	861.8	508.0	337.5	414.5	640.7
48°	271.4	380.9	790.3	589.9	423.5	536.8	848.7	477.0	312.4	386.5	599.8
48.5°	250.1	352.8	761.3	556.2	393.0	504.6	828.6	445.3	287.4	357.9	560.3
49°	232.0	325.2	732.7	525.2	363.5	472.2	800.8	414.5	264.7	330.3	522.3
49.5°	216.5	299.5	703.7	493.0	335.6	440.7	770.0	384.8	243.1	305.3	484.8
50°	203.2	274.8	675.6	463.9	309.5	409.2	732.5	355.9	227.1	282.1	447.7
50.5°	192.0	252.3	645.1	433.9	285.2	379.0	692.5	328.8	211.4	259.1	412.6
51°	181.6	232.5	609.7	404.1	262.0	350.1	650.4	302.2	195.7	238.0	379.9
51.5°	171.2	216.5	573.9	374.1	240.9	322.5	608.0	278.2	179.9	221.3	349.4
52°	161.0	202.4	536.3	347.0	224.2	296.6	566.9	255.7	164.2	204.6	319.9
52.5°	152.1	190.6	497.8	320.1	207.3	272.4	526.4	238.3	151.8	188.1	293.0
53°	145.5	179.7	460.6	295.4	190.6	249.6	489.1	220.8	143.1	171.4	268.5
53.5°	142.4	169.7	424.5	271.2	173.9	232.5	453.5	203.4	139.2	158.1	246.0
54°	139.7	159.6	390.3	249.9	161.3	215.3	418.7	186.0	136.6	146.3	229.1
54.5°	137.5	149.9	357.4	228.6	149.4	198.1	384.5	168.5	134.1	137.5	212.4
55°	135.4	142.1	328.3	210.2	141.4	180.9	351.8	156.2	132.0	133.7	195.9
55.5°	132.9	137.5	300.7	193.2	137.8	163.7	321.1	144.3	129.5	131.0	179.2
56°	130.8	134.9	273.9	178.0	135.4	150.9	292.5	135.1	127.4	128.8	162.7
56.5°	128.6	132.7	249.6	163.9	132.9	139.7	267.8	131.2	125.2	126.4	151.8
57°	126.4	130.3	228.1	151.1	130.5	132.9	247.5	128.6	123.0	124.2	142.6
57.5°	124.2	128.1	208.5	139.7	128.3	130.0	227.1	126.4	121.1	122.0	134.9
58°	122.3	125.9	191.0	132.5	126.2	127.9	206.5	124.0	118.9	119.9	128.6
58.5°	120.1	123.7	176.0	129.5	124.0	125.4	186.2	122.0	117.0	117.9	123.2
59°	118.2	121.6	162.7	127.1	121.8	123.2	166.1	119.9	114.8	115.7	118.6
59.5°	116.0	119.6	152.1	124.7	119.6	121.1	152.5	117.7	112.8	113.8	114.8
60°	114.0	117.4	143.1	122.5	117.4	118.9	141.9	115.7	110.9	111.9	111.4
60.5°	111.9	115.5	135.8	120.3	115.3	116.7	133.7	113.6	109.0	109.9	108.7
61°	109.9	113.6	129.8	118.2	113.3	114.5	126.4	111.6	107.0	108.0	106.5
61.5°	107.8	111.6	124.2	116.2	111.4	112.6	121.1	109.7	104.8	106.1	104.4
62°	105.8	109.4	119.6	114.0	109.4	110.7	116.2	107.8	102.9	104.1	101.9
62.5°	103.6	107.5	115.5	112.1	107.5	108.7	112.4	105.8	100.7	102.2	99.8
63°	101.5	105.6	112.4	109.9	105.3	106.8	108.7	103.9	98.8	100.0	97.6
63.5°	99.5	103.6	109.9	108.0	103.4	104.8	106.1	101.9	96.9	98.1	95.6
64°	97.3	101.7	107.5	106.1	101.5	102.9	103.6	100.0	94.7	95.9	93.5
64.5°	95.4	99.5	105.3	103.9	99.5	101.0	101.5	98.1	92.7	94.0	91.3
65°	93.2	97.6	103.2	101.9	97.6	99.0	99.3	96.1	90.8	92.0	89.1
65.5°	91.0	95.6	100.7	100.0	95.4	97.1	97.1	94.2	88.6	89.8	87.2
66°	89.1	93.5	98.6	98.1	93.5	95.2	94.9	92.0	86.7	87.9	85.0





TEST NUMBER: P776220

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	83.1	88.4	92.3	92.0	87.7	89.4	88.6	86.0	80.9	81.8	78.7
68°	81.1	86.2	90.1	89.8	85.7	87.4	86.4	84.0	78.9	79.7	76.5
68.5°	79.2	84.0	87.4	87.7	83.8	85.2	84.5	82.1	77.0	77.7	74.3
69°	77.2	81.6	85.5	85.7	81.8	83.3	82.3	79.9	75.1	75.5	72.4
69.5°	75.1	79.4	83.5	83.8	79.9	81.4	80.4	78.0	73.1	73.6	70.2
70°	73.1	77.5	81.4	82.1	78.0	79.4	78.2	76.0	70.9	71.7	68.0
70.5°	70.9	75.3	79.4	80.1	76.3	77.5	76.3	74.1	69.0	69.5	66.1
71°	69.0	73.4	77.2	78.0	74.3	75.5	74.1	71.9	67.1	67.6	63.9
71.5°	66.8	71.4	75.3	76.0	72.4	73.6	72.2	70.0	65.1	65.6	61.7
72°	64.9	69.3	73.1	74.1	70.5	71.7	70.0	68.0	63.2	63.4	59.8
72.5°	62.7	67.1	70.9	72.2	68.8	69.7	68.0	66.1	61.3	61.5	57.6
73°	60.8	65.1	68.8	70.0	66.8	67.8	65.9	63.9	59.3	59.6	55.7
73.5°	58.6	63.0	66.8	68.0	64.9	65.9	63.9	62.0	57.4	57.4	53.5
74°	56.7	61.0	64.7	66.1	63.0	63.9	62.0	60.1	55.5	55.5	51.3
74.5°	54.5	58.8	62.5	64.2	61.0	62.0	59.8	58.1	53.3	53.3	49.4
75°	52.5	56.9	60.5	62.2	59.1	60.1	57.9	55.9	51.3	51.3	47.2
75.5°	50.4	54.7	58.4	60.3	57.4	58.1	55.9	54.0	49.4	49.2	45.0
76°	48.2	52.5	56.2	58.1	55.5	56.2	53.8	51.8	47.5	47.0	43.1
76.5°	46.2	50.4	54.2	56.2	53.5	54.2	51.8	49.9	45.5	45.0	40.9
77°	44.1	48.4	52.1	54.2	51.6	52.3	49.9	47.9	43.3	43.1	39.0
77.5°	42.1	46.2	49.9	52.1	49.6	50.4	47.7	45.8	41.4	40.9	36.8
78°	40.0	44.1	47.9	50.1	47.7	48.4	45.8	43.8	39.5	39.0	34.9
78.5°	38.0	42.1	45.8	48.2	45.8	46.5	43.8	41.6	37.5	36.8	32.7
79°	35.8	40.0	43.8	46.0	44.1	44.6	41.6	39.7	35.6	34.9	30.8
79.5°	33.9	37.8	41.6	44.1	42.1	42.6	39.7	37.8	33.7	32.7	28.6
80°	31.7	35.8	39.5	42.1	40.2	40.4	37.8	35.6	31.7	30.8	26.6
80.5°	29.8	33.7	37.5	40.0	38.3	38.7	35.8	33.7	29.8	28.6	24.7
81°	27.8	31.5	35.6	38.0	36.6	36.8	33.9	31.7	27.8	26.6	22.5
81.5°	25.7	29.3	33.4	36.1	34.6	34.6	31.7	29.8	25.9	24.5	20.6
82°	23.7	27.4	31.2	33.9	32.7	32.9	29.8	27.6	24.0	22.5	18.6
82.5°	21.6	25.2	29.3	32.0	30.8	30.8	27.8	25.7	22.0	20.3	16.5
83°	19.6	23.2	27.4	30.0	29.1	28.8	25.9	23.7	20.1	18.4	14.5
83.5°	17.4	21.1	25.2	28.1	27.1	26.9	24.0	21.6	18.2	16.2	12.8
84°	15.5	18.9	23.2	26.2	25.2	24.9	22.0	19.6	16.2	14.3	11.1
84.5°	13.6	16.9	21.1	24.0	23.5	23.0	20.1	17.7	14.3	12.3	9.4
85°	11.4	14.8	19.1	22.0	21.6	21.3	18.2	15.5	12.6	10.2	7.7
85.5°	9.4	12.8	17.2	20.1	19.6	19.4	16.2	13.6	10.7	8.2	6.1
86°	8.0	10.7	15.0	18.2	17.9	17.4	14.3	11.6	9.0	6.5	4.6
86.5°	6.3	8.5	13.3	16.5	16.0	15.5	12.6	9.4	7.0	5.1	2.9
87°	4.8	7.0	11.6	14.5	14.0	13.6	10.9	7.7	5.3	3.9	1.5
87.5°	3.4	5.6	9.9	12.6	12.3	11.9	9.2	6.3	4.1	2.7	0.2
88°	1.9	4.1	8.5	10.9	10.4	9.9	7.7	4.8	2.9	1.5	0.0
88.5°	0.7	2.7	6.8	9.0	8.7	8.2	6.1	3.6	1.7	0.2	0.0



TEST NUMBER: P776220  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-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	1.9	3.6	3.4	2.9	1.5	0.2	0.0	0.0	0.0



TEST NUMBER: P776220

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8
0.5°	1414.8	1415.8	1415.6	1415.8	1416.5	1417.3
1°	1413.9	1414.6	1414.1	1414.6	1415.6	1416.8
1.5°	1412.7	1413.4	1412.7	1413.1	1414.6	1416.0
2°	1411.4	1411.9	1411.2	1411.9	1413.4	1415.3
2.5°	1410.0	1410.2	1409.7	1410.2	1411.9	1414.1
3°	1408.5	1408.8	1407.8	1408.8	1410.5	1413.1
3.5°	1406.8	1406.8	1406.1	1406.8	1409.0	1412.2
4°	1405.1	1404.9	1403.9	1404.9	1407.3	1410.7
4.5°	1403.2	1402.7	1402.0	1403.0	1405.6	1409.3
5°	1401.3	1400.5	1399.6	1400.5	1403.5	1407.6
5.5°	1399.1	1398.1	1397.2	1398.4	1401.5	1405.9
6°	1396.7	1395.7	1394.5	1395.9	1399.3	1403.9
6.5°	1394.2	1393.0	1391.8	1393.3	1397.2	1402.2
7°	1391.6	1390.1	1388.9	1390.6	1394.5	1400.1
7.5°	1388.9	1387.2	1385.8	1387.7	1392.1	1397.6
8°	1386.0	1384.1	1382.6	1384.8	1389.2	1395.2
8.5°	1382.9	1380.9	1379.5	1381.7	1386.3	1392.8
9°	1379.7	1377.3	1376.1	1378.3	1383.4	1390.1
9.5°	1376.3	1373.9	1372.5	1374.9	1380.2	1387.2
10°	1372.9	1370.3	1368.6	1371.2	1376.8	1384.3
10.5°	1369.1	1366.4	1364.7	1367.6	1373.4	1381.2
11°	1365.4	1362.3	1360.8	1363.7	1369.8	1378.0
11.5°	1361.3	1358.2	1356.7	1359.9	1366.2	1374.6
12°	1357.4	1353.8	1352.1	1355.5	1362.0	1371.0
12.5°	1353.1	1349.2	1347.8	1351.4	1357.9	1367.1
13°	1348.7	1344.6	1342.9	1346.8	1354.1	1363.5
13.5°	1344.1	1339.8	1338.3	1342.4	1349.7	1359.4
14°	1339.5	1334.9	1333.2	1337.6	1345.1	1355.3
14.5°	1334.7	1329.8	1328.1	1332.7	1340.5	1350.9
15°	1329.6	1324.5	1322.6	1327.7	1335.7	1346.3
15.5°	1324.5	1319.2	1317.5	1322.6	1330.6	1341.7
16°	1319.2	1313.4	1311.9	1317.0	1325.7	1336.9
16.5°	1313.9	1307.8	1306.1	1311.7	1320.4	1332.0
17°	1308.0	1302.0	1300.1	1305.9	1315.1	1326.9
17.5°	1302.2	1295.7	1294.0	1300.3	1309.5	1321.6
18°	1296.4	1289.4	1287.9	1294.2	1303.7	1316.3
18.5°	1290.1	1282.9	1281.7	1287.9	1297.9	1310.5
19°	1283.8	1276.3	1274.6	1281.9	1291.8	1304.7
19.5°	1277.5	1269.8	1268.1	1275.4	1285.8	1298.8
20°	1271.0	1262.8	1261.3	1268.8	1279.2	1292.8
20.5°	1264.0	1255.5	1254.3	1262.3	1272.7	1286.3
21°	1257.2	1248.2	1247.0	1255.0	1265.9	1279.7

TEST NUMBER: P776220

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1235.2	1225.0	1224.3	1233.5	1244.6	1258.9
23°	1227.7	1216.8	1216.3	1226.0	1237.3	1251.6
23.5°	1219.7	1208.8	1208.3	1218.5	1229.8	1244.1
24°	1211.7	1200.1	1200.1	1210.5	1222.1	1236.4
24.5°	1203.4	1191.3	1191.3	1202.5	1214.1	1228.6
25°	1195.0	1182.4	1182.6	1194.2	1206.1	1220.4
25.5°	1186.5	1173.4	1173.9	1186.0	1197.6	1212.2
26°	1177.5	1164.2	1164.9	1177.3	1189.4	1203.9
26.5°	1168.6	1155.0	1155.7	1168.6	1180.7	1195.2
27°	1159.6	1145.3	1146.3	1159.9	1172.0	1186.5
27.5°	1150.2	1135.4	1136.9	1150.9	1162.8	1177.0
28°	1140.7	1125.5	1126.9	1141.5	1153.6	1168.1
28.5°	1131.0	1115.3	1117.2	1132.3	1144.4	1158.2
29°	1121.4	1105.1	1107.3	1122.6	1135.2	1149.2
29.5°	1111.4	1095.0	1097.1	1112.9	1125.2	1139.0
30°	1101.3	1084.6	1086.7	1103.2	1115.5	1129.6
30.5°	1091.1	1073.9	1076.6	1093.0	1105.6	1119.2
31°	1080.9	1063.2	1066.1	1083.1	1095.4	1109.5
31.5°	1070.5	1052.3	1055.3	1072.7	1085.3	1099.1
32°	1060.1	1041.2	1044.6	1062.3	1074.9	1088.9
32.5°	1049.7	1030.1	1034.2	1051.4	1064.5	1078.0
33°	1038.8	1018.7	1023.3	1041.0	1054.0	1067.8
33.5°	1027.9	1007.1	1011.9	1030.1	1043.1	1056.9
34°	1016.8	995.4	1001.0	1019.2	1033.0	1046.1
34.5°	1005.9	983.1	989.4	1007.5	1022.1	1034.2
35°	994.5	970.3	978.0	996.7	1011.2	1023.3
35.5°	983.1	944.6	966.1	985.5	1000.3	1011.9
36°	971.5	915.3	954.5	973.9	989.1	1000.0
36.5°	959.6	882.4	941.7	962.5	977.5	987.7
37°	947.0	849.4	923.8	951.1	966.1	966.9
37.5°	932.2	815.5	898.3	939.5	954.5	941.9
38°	907.3	780.7	867.1	927.9	942.7	908.5
38.5°	877.3	744.8	834.9	916.3	931.0	875.1
39°	845.6	708.0	804.6	904.9	918.4	842.7
39.5°	813.6	671.0	771.9	893.3	898.6	809.7
40°	781.6	636.6	738.5	881.9	874.6	775.3
40.5°	748.0	602.4	703.4	870.0	843.6	739.5
41°	713.3	569.5	669.3	858.4	812.6	702.9
41.5°	678.0	535.6	635.1	846.8	782.6	666.9
42°	643.6	503.2	602.0	835.4	751.6	632.5
42.5°	609.7	469.8	570.2	823.8	720.6	599.8
43°	576.8	438.0	539.7	812.1	687.9	566.1
43.5°	545.1	407.5	508.0	800.0	654.8	532.7



TEST NUMBER: P776220

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	450.1	323.0	415.0	742.6	558.6	435.9
45.5°	419.6	296.6	386.2	715.5	528.6	405.1
46°	390.1	272.7	358.9	687.7	498.1	376.3
46.5°	361.8	251.3	331.7	661.3	467.6	348.0
47°	334.4	233.7	305.3	633.9	437.1	320.4
47.5°	308.2	218.7	281.1	605.8	408.0	295.4
48°	282.6	206.3	258.6	571.9	379.9	271.4
48.5°	260.1	195.4	239.2	536.8	352.8	250.1
49°	239.2	185.5	222.8	499.8	326.2	232.0
49.5°	225.9	175.6	208.5	464.9	301.5	216.5
50°	213.1	165.9	196.6	431.7	276.8	203.2
50.5°	200.3	155.9	186.2	400.5	254.5	192.0
51°	187.2	148.2	176.5	369.7	234.2	181.6
51.5°	174.3	143.1	166.8	342.1	217.0	171.2
52°	164.4	140.2	157.1	315.5	201.9	161.0
52.5°	155.0	137.8	147.9	289.4	189.1	152.1
53°	145.5	135.6	140.9	265.9	178.0	145.5
53.5°	138.0	133.4	137.5	244.6	167.8	142.4
54°	133.9	131.0	134.9	224.2	157.6	139.7
54.5°	131.5	128.8	132.7	207.5	148.2	137.5
55°	129.1	126.6	130.3	191.3	140.2	135.4
55.5°	126.9	124.5	128.1	177.2	135.4	132.9
56°	124.7	122.5	125.9	164.4	132.9	130.8
56.5°	122.5	120.3	123.7	154.5	130.5	128.6
57°	120.6	118.4	121.6	145.5	128.3	126.4
57.5°	118.4	116.2	119.6	138.3	126.2	124.2
58°	116.5	114.3	117.7	132.0	124.0	122.3
58.5°	114.5	112.4	115.5	126.9	121.8	120.1
59°	112.4	110.4	113.6	122.0	119.9	118.2
59.5°	110.4	108.5	111.6	117.9	117.7	116.0
60°	108.5	106.3	109.4	114.8	115.5	114.0
60.5°	106.5	104.4	107.8	112.4	113.6	111.9
61°	104.6	102.4	105.8	110.2	111.4	109.9
61.5°	102.4	100.5	103.9	108.0	109.4	107.8
62°	100.5	98.3	101.7	105.6	107.3	105.8
62.5°	98.6	96.4	99.8	103.4	105.3	103.6
63°	96.4	94.4	97.8	101.2	103.2	101.5
63.5°	94.4	92.3	95.6	99.0	101.0	99.5
64°	92.5	90.3	93.7	96.9	98.8	97.3
64.5°	90.3	88.6	91.5	94.7	96.6	95.4
65°	88.4	86.7	89.6	92.5	94.7	93.2
65.5°	86.2	84.7	87.2	90.6	92.5	91.0
66°	84.3	82.8	85.5	88.4	90.3	89.1



TEST NUMBER: P776220

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	78.2	76.8	79.9	81.8	84.0	83.1
68°	76.3	74.8	77.7	79.9	81.8	81.1
68.5°	74.1	72.9	75.8	77.7	79.7	79.2
69°	72.2	70.9	73.9	75.5	77.7	77.2
69.5°	70.0	69.0	71.7	73.4	75.5	75.1
70°	68.0	67.1	69.7	71.2	73.4	73.1
70.5°	66.1	65.1	67.6	69.0	71.2	70.9
71°	64.2	63.2	65.6	66.8	69.3	69.0
71.5°	62.0	61.3	63.7	64.7	67.1	66.8
72°	60.1	59.1	61.5	62.5	64.9	64.9
72.5°	57.9	57.1	59.3	60.3	62.7	62.7
73°	55.9	55.2	57.4	58.4	60.5	60.8
73.5°	53.8	53.0	55.2	56.2	58.4	58.6
74°	51.8	51.1	53.3	54.0	56.4	56.7
74.5°	49.6	49.2	51.1	51.8	54.2	54.5
75°	47.7	47.2	48.9	49.6	52.1	52.5
75.5°	45.5	45.0	47.0	47.5	49.6	50.4
76°	43.6	43.1	44.8	45.3	47.7	48.2
76.5°	41.4	41.2	42.9	43.1	45.5	46.2
77°	39.5	39.2	40.7	41.2	43.3	44.1
77.5°	37.3	37.3	38.7	39.0	41.2	42.1
78°	35.4	35.4	36.6	36.8	39.0	40.0
78.5°	33.2	33.2	34.6	34.6	36.8	38.0
79°	31.2	31.2	32.4	32.4	34.6	35.8
79.5°	29.1	29.3	30.3	30.3	32.4	33.9
80°	27.1	27.4	28.3	28.3	30.3	31.7
80.5°	24.9	25.4	26.2	26.2	28.1	29.8
81°	23.0	23.5	24.2	24.0	25.9	27.8
81.5°	21.1	21.6	22.3	22.0	23.7	25.7
82°	19.1	19.6	20.1	20.1	21.6	23.7
82.5°	17.2	17.4	18.2	18.2	19.6	21.6
83°	15.0	15.5	16.2	16.2	17.4	19.6
83.5°	13.1	13.6	14.0	14.3	15.0	17.4
84°	11.1	11.6	12.1	12.6	13.1	15.5
84.5°	9.4	9.9	10.2	10.7	10.9	13.6
85°	7.5	8.0	8.2	9.0	9.2	11.4
85.5°	5.6	6.1	6.5	7.3	7.7	9.4
86°	3.6	4.4	4.6	5.6	6.3	8.0
86.5°	1.9	2.4	2.7	3.9	4.6	6.3
87°	0.5	0.7	1.0	1.9	3.1	4.8
87.5°	0.0	0.0	0.2	0.7	1.9	3.4
88°	0.0	0.0	0.0	0.0	0.7	1.9
88.5°	0.0	0.0	0.0	0.0	0.0	0.7



TEST NUMBER: P776220

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-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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Scaled Data Report



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Scaled Data Report





21.5°	1272.9	1292.8	1318.2	1332.7	1339.3	1343.2	1340.0	1328.4	1312.4	1295.7	1269.8
22°	1265.9	1286.5	1312.9	1327.4	1334.2	1338.3	1335.2	1323.1	1306.6	1289.4	1263.0



44°	499.8	635.4	907.5	857.2	695.9	812.9	945.1	744.8	554.3	637.6	821.3
44.5°	467.3	601.7	895.7	822.8	660.1	777.3	933.7	710.4	521.1	602.4	809.5



66.5°	87.2	91.5	96.4	95.9	91.5	93.2	92.7	90.1	84.7	85.7	82.8
67°	85.2	89.4	94.2	94.0	89.6	91.3	90.8	88.1	82.8	83.8	80.9



89°	0.0	1.5	5.1	7.3	6.8	6.3	4.6	2.2	0.7	0.0	0.0
89.5°	0.0	0.2	3.6	5.3	5.1	4.6	2.9	1.0	0.0	0.0	0.0



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21.5°	1249.9	1240.5	1239.8	1248.0	1259.1	1272.9
22°	1242.7	1232.7	1231.8	1241.0	1252.1	1265.9



44°	513.8	378.7	476.3	787.2	622.1	499.8
44.5°	482.1	349.7	444.8	765.7	589.9	467.3



66.5°	82.3	80.9	83.5	86.2	88.1	87.2
67°	80.4	78.9	81.6	84.0	86.0	85.2

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

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)