

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: P775987

Luminaire Tested: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B004)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K  
Description: 4 INCH ROUND MEDIUM LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2551.1 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.09 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

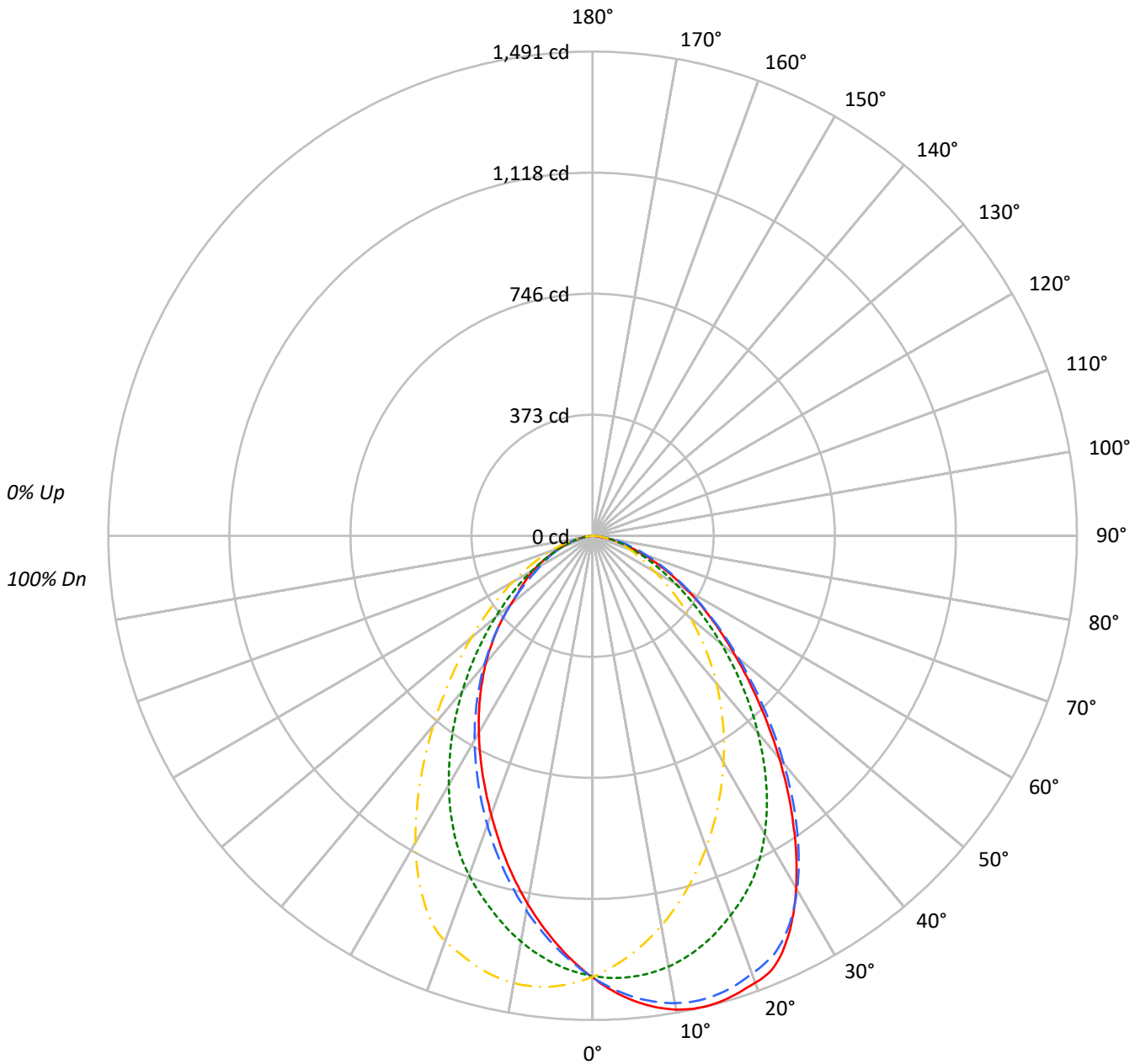
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88				88				
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76				76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				58				
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46				46				
7	70	58	50	45	69	57	50	44	56	49	44	54	48	44	53	48	44	42				42				
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38				38				
9	62	49	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35				35				
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32				32				

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

	0°	90°	180°	270°
0°	171005	171005	171005	171005
5°	181524	172239	159492	167198
10°	189323	172109	147075	162167
15°	193975	170145	134459	155696
20°	196202	166538	122315	148993
25°	194015	161966	111574	140165
30°	182114	154082	101810	128709
35°	165295	143095	92764	115840
40°	146838	130015	83900	102530
45°	128625	115668	74644	89149
50°	112128	100968	64629	76514
55°	98077	86909	57727	65012
60°	85553	74000	52278	54367
65°	72541	62684	44966	44668
70°	59610	52508	37017	35987
75°	45853	43908	30001	28300
80°	29279	36527	21235	20873
85°	8664	31912	8375	9819

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 133003 cd/sqm



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	5.0
10°-20°	353.3	13.8
20°-30°	500.5	19.6
30°-40°	523.0	20.5
40°-50°	440.2	17.3
50°-60°	312.6	12.3
60°-70°	189.6	7.4
70°-80°	87.0	3.4
80°-90°	17.5	0.7
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°	981.3	38.5
0°-40°	1504.3	59.0
0°-60°	2257.1	88.5
0°-90°	2551.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1437	1363	1262	1324	1437	139
15°	1489	1306	1032	1195	1489	420
25°	1397	1166	804	1009	1397	638
35°	1076	931	604	754	1076	671
45°	723	650	419	501	723	559
55°	447	396	263	296	447	402
65°	244	210	151	150	244	243
75°	94	90	62	58	94	102
85°	6	22	6	7	6	12
90°	0	1	0	0	0	



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8
0.5°	1369.4	1369.4	1367.9	1364.9	1357.6	1354.8	1353.1	1351.8	1351.8	1351.6	1352.6
1°	1378.2	1377.9	1374.9	1369.6	1359.1	1353.1	1348.1	1344.0	1342.5	1342.0	1344.5
1.5°	1386.4	1386.4	1382.2	1374.4	1360.6	1350.8	1342.3	1336.0	1333.3	1332.8	1336.3
2°	1394.5	1394.5	1389.2	1378.7	1361.9	1348.6	1336.5	1327.7	1323.5	1323.0	1327.7
2.5°	1402.2	1402.5	1395.7	1382.9	1362.9	1345.8	1330.7	1319.2	1313.7	1313.2	1319.0
3°	1409.5	1410.0	1402.2	1386.7	1363.4	1343.0	1324.7	1310.7	1303.9	1303.2	1310.4
3.5°	1416.8	1417.3	1408.3	1390.2	1363.9	1339.8	1318.2	1301.9	1293.9	1292.9	1301.6
4°	1423.8	1424.6	1414.0	1393.7	1363.9	1336.5	1311.7	1292.9	1283.3	1282.6	1292.4
4.5°	1430.3	1431.3	1419.5	1397.0	1363.9	1332.8	1304.9	1283.6	1272.8	1272.6	1283.1
5°	1436.9	1437.9	1424.8	1399.7	1363.4	1329.0	1297.9	1274.3	1262.5	1261.8	1273.8
5.5°	1442.6	1444.1	1429.8	1402.2	1363.1	1325.0	1290.9	1264.8	1251.7	1250.7	1264.3
6°	1448.4	1450.2	1434.6	1404.7	1362.1	1320.7	1283.3	1255.2	1240.9	1239.9	1254.5
6.5°	1453.7	1455.7	1438.9	1406.8	1361.1	1316.4	1276.1	1245.7	1230.2	1229.2	1244.7
7°	1458.7	1460.9	1443.1	1408.5	1359.8	1311.7	1268.5	1235.7	1218.9	1218.4	1234.9
7.5°	1463.4	1466.0	1446.9	1410.0	1358.1	1306.7	1260.5	1225.6	1207.8	1207.1	1224.6
8°	1467.7	1470.5	1450.4	1411.0	1356.3	1301.6	1252.5	1215.6	1196.5	1195.8	1214.4
8.5°	1471.5	1474.7	1453.7	1412.0	1354.3	1296.1	1244.2	1205.3	1185.3	1184.5	1204.1
9°	1475.2	1478.7	1456.7	1412.8	1352.1	1290.9	1236.2	1195.0	1173.7	1173.0	1193.8
9.5°	1478.5	1482.3	1459.2	1413.3	1349.6	1285.1	1227.4	1184.5	1162.2	1161.7	1183.2
10°	1481.5	1485.5	1461.4	1413.3	1346.8	1279.1	1218.9	1174.0	1150.9	1149.9	1172.5
10.5°	1484.0	1488.3	1463.2	1413.0	1343.8	1272.8	1209.8	1163.4	1139.1	1138.1	1161.7
11°	1486.0	1490.8	1465.0	1412.8	1340.5	1266.5	1201.6	1152.4	1127.3	1126.6	1150.9
11.5°	1487.8	1492.8	1466.0	1411.8	1337.0	1260.3	1192.0	1141.6	1115.8	1115.0	1140.1
12°	1489.0	1494.6	1467.0	1410.8	1333.3	1253.5	1182.7	1130.6	1103.7	1103.0	1129.1
12.5°	1490.0	1495.8	1467.5	1409.5	1329.2	1246.7	1173.2	1119.8	1091.9	1091.2	1117.8
13°	1490.5	1496.8	1467.7	1407.8	1325.0	1239.7	1164.2	1108.5	1080.1	1079.1	1107.0
13.5°	1490.8	1497.3	1467.5	1405.8	1320.5	1232.4	1154.7	1097.7	1068.1	1067.4	1095.7
14°	1490.3	1497.6	1467.0	1403.5	1315.9	1224.9	1144.9	1086.2	1056.1	1055.1	1084.4
14.5°	1489.8	1497.3	1466.0	1401.0	1310.7	1217.4	1135.1	1074.9	1044.3	1043.0	1073.1
15°	1488.8	1496.6	1464.7	1398.0	1305.9	1209.8	1125.1	1063.3	1032.0	1031.2	1061.6
15.5°	1487.3	1495.6	1463.2	1395.0	1300.4	1201.8	1115.3	1052.1	1019.9	1019.2	1050.3
16°	1485.8	1494.0	1461.2	1391.5	1294.6	1193.8	1105.2	1040.8	1007.9	1006.9	1039.0
16.5°	1483.5	1492.3	1458.9	1387.7	1288.9	1185.5	1094.9	1029.5	996.1	994.9	1027.7
17°	1481.3	1490.3	1456.2	1383.7	1282.8	1177.5	1084.9	1017.9	983.8	982.8	1016.2
17.5°	1478.5	1488.0	1453.4	1379.4	1276.3	1168.7	1074.4	1006.4	971.8	971.0	1004.9
18°	1475.7	1485.3	1450.2	1374.9	1270.0	1160.2	1064.1	994.9	960.0	958.7	993.4
18.5°	1472.5	1482.3	1446.6	1370.1	1263.5	1151.4	1053.6	983.1	948.2	946.9	981.8
19°	1469.7	1479.0	1442.9	1365.4	1257.0	1142.9	1043.5	971.5	936.4	934.9	970.5
19.5°	1467.5	1476.0	1439.1	1360.1	1250.2	1134.1	1032.5	960.2	925.1	923.4	959.0
20°	1465.0	1473.5	1435.1	1354.8	1243.5	1125.3	1022.0	948.7	913.3	911.6	947.7
20.5°	1462.2	1470.7	1431.3	1349.8	1236.4	1116.3	1011.4	937.2	902.3	900.3	936.2
21°	1458.9	1467.7	1427.8	1344.8	1229.4	1107.2	1000.9	926.1	890.8	888.8	924.9



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1445.1	1455.9	1414.8	1328.2	1207.6	1079.9	968.5	892.8	857.6	855.1	891.0
23°	1437.4	1450.2	1409.5	1322.2	1199.8	1070.6	958.0	882.0	846.4	844.1	879.7
23.5°	1428.6	1443.4	1403.7	1315.7	1191.8	1061.1	946.9	870.9	835.8	833.6	868.7
24°	1419.3	1435.1	1396.2	1308.4	1183.5	1051.6	936.2	860.2	825.0	822.3	857.4
24.5°	1409.0	1425.6	1387.9	1300.9	1175.0	1041.5	925.1	849.6	814.3	811.2	846.4
25°	1397.2	1416.0	1379.2	1292.4	1166.4	1031.5	914.6	838.6	803.5	800.7	835.3
25.5°	1385.2	1406.0	1369.6	1283.3	1156.9	1021.5	903.8	828.3	793.2	790.2	824.3
26°	1373.1	1394.7	1359.6	1273.8	1147.6	1011.2	893.0	817.5	782.6	779.6	813.2
26.5°	1359.8	1382.2	1349.1	1263.5	1137.3	1000.6	881.7	807.2	772.1	768.8	802.2
27°	1345.8	1370.1	1338.0	1252.7	1127.3	990.3	870.9	796.4	761.6	758.6	791.2
27.5°	1331.0	1357.1	1326.0	1241.7	1116.5	979.6	860.2	786.2	751.5	748.3	780.6
28°	1317.0	1343.0	1313.4	1229.9	1106.0	968.8	849.4	775.6	741.0	738.0	769.6
28.5°	1301.1	1328.7	1300.6	1218.1	1094.7	958.0	838.3	765.6	731.2	727.7	758.8
29°	1285.3	1314.2	1287.4	1205.6	1083.4	946.7	827.5	755.3	720.9	717.4	748.0
29.5°	1269.3	1298.9	1273.3	1193.0	1071.6	935.9	817.0	745.0	710.7	707.4	737.2
30°	1253.2	1283.3	1259.0	1180.0	1060.3	924.4	806.0	735.0	700.6	697.4	726.7
30.5°	1235.9	1267.3	1244.2	1166.4	1048.0	912.8	795.2	724.9	690.8	687.3	715.9
31°	1218.9	1250.7	1228.9	1152.9	1035.7	901.5	784.4	714.7	680.8	677.3	705.1
31.5°	1201.6	1233.7	1213.4	1138.6	1023.2	889.8	773.6	704.4	671.3	667.0	694.3
32°	1184.0	1216.9	1197.5	1124.3	1010.9	878.2	762.8	694.3	661.2	657.2	684.1
32.5°	1166.2	1199.6	1181.0	1110.0	997.9	866.7	752.3	684.6	651.7	647.4	673.3
33°	1148.6	1182.0	1164.7	1095.5	984.8	854.6	741.3	674.5	641.9	637.7	662.7
33.5°	1130.8	1163.9	1147.9	1080.1	971.8	842.8	730.7	664.7	632.4	627.9	652.0
34°	1112.8	1146.4	1130.8	1064.8	958.5	830.8	719.7	655.0	622.9	618.1	641.7
34.5°	1093.9	1127.6	1112.8	1049.5	944.9	818.8	709.1	644.9	613.3	608.3	631.1
35°	1075.9	1109.5	1095.5	1033.7	931.4	806.7	698.4	635.1	603.8	598.8	620.6
35.5°	1057.8	1090.9	1077.9	1017.9	917.9	794.9	687.8	625.4	594.8	589.2	610.3
36°	1039.8	1073.1	1060.1	1001.9	904.1	782.9	677.0	615.8	585.0	579.5	600.3
36.5°	1021.2	1054.6	1042.0	985.8	890.3	770.4	666.5	606.0	575.9	569.9	589.7
37°	1002.4	1035.5	1024.5	969.5	876.2	758.3	655.7	596.3	566.2	560.4	579.5
37.5°	984.6	1016.9	1006.4	953.2	862.2	746.5	645.2	586.7	557.1	550.9	569.4
38°	966.3	998.4	988.3	936.7	848.1	734.0	634.4	577.2	547.6	541.6	559.1
38.5°	948.0	979.6	969.8	920.1	834.1	721.9	624.4	567.7	538.3	532.0	548.9
39°	929.4	961.5	952.2	903.6	820.0	709.6	613.6	557.9	529.3	522.8	539.1
39.5°	911.8	942.9	933.9	887.0	805.7	697.6	603.3	548.4	520.3	513.2	528.8
40°	893.8	924.1	916.1	870.4	791.4	685.1	592.8	538.8	510.7	504.0	519.0
40.5°	875.5	905.6	897.8	853.9	777.1	673.0	582.2	529.0	501.4	494.4	508.7
41°	857.6	887.7	880.5	837.1	762.8	660.7	571.9	519.8	492.4	484.9	499.2
41.5°	840.3	869.7	862.4	820.8	749.0	648.7	561.6	510.2	483.4	475.6	489.2
42°	823.0	851.4	845.1	804.5	734.5	636.4	551.1	500.7	474.1	466.6	479.4
42.5°	805.5	833.3	827.5	787.9	720.4	624.6	540.8	491.4	464.8	457.3	469.8
43°	788.7	816.3	810.0	772.1	706.4	612.6	530.8	482.1	455.8	448.0	460.1
43.5°	772.1	798.7	792.7	755.6	692.1	600.5	520.3	472.6	446.8	438.7	450.0



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	722.7	747.3	742.3	708.1	649.9	564.7	490.2	444.5	419.4	411.4	421.7
45.5°	706.9	730.7	725.7	692.1	636.1	552.9	479.9	435.0	410.6	402.4	412.1
46°	690.8	714.2	709.4	676.8	622.4	541.1	469.8	425.9	401.6	393.3	402.6
46.5°	674.8	698.1	693.6	661.5	608.8	529.5	459.8	416.7	392.6	384.0	393.3
47°	660.0	682.3	677.3	646.4	594.8	517.7	449.8	407.4	383.5	375.3	384.5
47.5°	644.9	666.3	661.5	631.1	581.2	506.2	440.0	398.3	374.3	366.2	374.8
48°	629.6	650.4	646.2	616.3	567.9	494.9	430.0	389.3	365.7	357.5	365.7
48.5°	615.1	635.9	631.1	602.0	554.9	483.6	420.4	380.0	356.7	348.4	356.7
49°	601.3	620.8	616.3	587.7	541.6	472.1	410.6	371.3	347.7	339.9	348.2
49.5°	587.0	605.8	601.5	573.4	528.5	461.3	400.9	362.2	338.9	331.1	338.9
50°	572.7	591.2	586.7	559.6	515.7	450.0	391.3	353.2	330.1	322.6	330.4
50.5°	559.6	577.5	572.4	545.3	502.9	439.0	381.8	344.2	321.1	314.1	321.6
51°	546.1	563.7	558.1	532.0	490.7	428.2	372.3	335.4	312.6	305.3	313.1
51.5°	532.5	549.4	544.6	518.5	478.4	417.4	363.0	326.6	304.3	297.3	304.5
52°	520.0	536.3	531.3	505.5	465.8	406.9	353.7	318.1	295.5	289.2	296.3
52.5°	507.7	523.5	517.7	492.7	453.8	396.1	344.4	309.3	287.7	280.9	287.7
53°	494.7	510.0	504.7	479.6	442.0	385.8	335.4	300.8	283.5	272.9	279.7
53.5°	482.1	497.4	491.9	467.1	430.2	375.5	326.1	292.5	278.9	265.4	271.7
54°	470.8	485.1	479.1	454.8	418.4	365.2	317.3	284.2	273.9	260.9	263.9
54.5°	459.1	473.1	466.8	442.7	407.1	355.2	308.5	276.2	268.4	256.1	256.1
55°	447.0	461.1	454.8	430.7	396.1	345.4	300.0	268.4	263.1	251.1	248.6
55.5°	436.5	449.3	443.0	419.2	385.1	335.6	291.5	260.4	257.4	245.8	241.3
56°	425.2	437.7	431.2	407.4	374.0	326.1	283.0	254.6	251.9	240.6	234.0
56.5°	413.9	426.4	419.9	396.3	363.2	316.6	274.4	250.1	246.3	235.0	227.0
57°	403.1	415.2	408.6	385.3	352.9	307.3	266.4	245.1	240.6	229.8	220.2
57.5°	392.6	404.6	397.6	374.5	342.7	298.0	258.4	240.1	235.0	224.5	214.2
58°	381.3	393.8	386.8	363.7	332.6	289.2	250.6	234.8	229.8	219.2	208.2
58.5°	371.0	383.0	376.3	353.4	322.6	280.4	243.1	229.5	224.3	214.0	202.2
59°	360.2	372.8	365.7	343.2	312.8	271.7	235.5	224.0	218.7	209.0	196.2
59.5°	349.7	362.2	355.7	333.1	303.3	263.1	228.0	218.7	213.2	203.9	190.1
60°	339.9	351.9	345.7	323.1	294.0	254.9	220.7	213.7	207.7	198.7	185.6
60.5°	328.9	341.9	335.9	313.6	284.7	246.8	214.2	208.5	202.2	193.7	181.1
61°	319.3	331.1	325.9	304.0	275.9	238.8	207.7	203.2	196.7	188.4	176.6
61.5°	309.3	321.8	316.8	295.0	266.9	230.8	201.2	198.2	191.1	183.4	172.1
62°	299.8	312.1	307.5	285.7	258.4	223.5	194.7	192.9	185.4	178.4	167.6
62.5°	290.0	302.3	298.3	276.9	249.8	216.2	188.1	187.4	179.6	173.1	163.1
63°	280.2	293.0	289.2	267.9	241.6	209.2	181.9	182.1	173.8	167.8	158.5
63.5°	270.9	283.5	280.4	259.4	233.3	201.9	176.3	176.6	168.1	162.8	154.0
64°	261.4	274.4	271.9	250.8	225.3	194.9	171.1	171.3	162.3	157.5	150.0
64.5°	252.6	265.1	263.4	242.8	218.0	187.6	166.6	166.1	156.5	152.3	145.7
65°	243.6	256.6	255.1	234.8	210.5	181.4	162.3	161.0	151.0	147.2	141.5
65.5°	235.0	247.6	246.8	227.0	202.9	174.8	158.0	155.5	145.5	142.0	137.2
66°	226.0	239.3	238.8	219.2	195.7	168.1	153.5	150.5	140.0	137.0	133.2





TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	201.2	214.2	215.2	196.9	174.6	150.5	140.7	135.2	123.9	122.2	120.9
68°	192.9	206.2	207.7	189.9	167.6	144.7	136.5	130.2	118.9	117.1	116.9
68.5°	184.9	198.4	200.4	182.6	161.3	139.2	132.4	125.4	114.1	112.6	112.9
69°	177.3	190.6	193.2	175.8	155.0	134.0	128.2	120.4	109.4	107.9	108.9
69.5°	169.6	182.9	185.6	169.1	148.8	128.7	123.9	115.6	105.1	103.6	104.9
70°	162.0	175.6	178.9	162.8	142.7	123.7	119.9	110.9	100.6	99.3	100.8
70.5°	154.5	168.3	172.1	156.0	136.7	118.9	115.9	106.6	96.3	95.1	96.8
71°	147.2	161.0	165.3	150.0	131.2	114.1	111.9	102.1	92.3	91.1	93.1
71.5°	140.2	154.0	158.3	143.7	125.4	109.6	107.9	97.8	88.3	87.0	89.1
72°	133.5	147.0	152.0	137.7	120.2	105.1	103.9	93.8	84.3	83.0	85.3
72.5°	126.4	140.5	145.5	131.9	114.6	100.8	99.8	89.8	80.3	79.3	81.5
73°	119.7	134.0	139.2	125.9	109.6	96.8	96.1	85.8	76.5	75.5	77.8
73.5°	113.1	127.2	132.9	120.4	104.4	92.6	92.1	82.0	72.7	71.7	74.0
74°	106.6	121.2	126.9	115.1	99.6	88.5	88.3	78.3	69.0	68.0	70.5
74.5°	100.3	114.9	121.2	109.6	94.8	84.8	84.8	74.5	65.5	64.5	67.2
75°	94.3	108.9	115.1	104.4	90.3	81.0	80.8	71.0	61.7	60.7	63.7
75.5°	88.5	102.8	109.4	99.3	85.8	77.3	77.3	67.5	58.2	57.2	60.5
76°	82.8	97.3	103.9	94.3	81.5	73.7	73.5	63.7	54.9	53.7	57.2
76.5°	77.3	91.6	98.3	89.6	77.3	70.2	70.2	60.2	51.4	50.4	53.9
77°	71.5	86.3	93.1	85.0	73.2	67.0	66.7	56.9	48.2	46.9	50.7
77.5°	66.0	81.3	88.0	80.3	69.0	63.7	63.5	53.7	44.9	43.6	47.7
78°	60.7	76.0	83.3	75.8	65.2	60.5	60.0	50.2	41.6	40.4	44.4
78.5°	55.2	70.7	78.3	71.2	61.2	57.4	56.9	46.9	38.4	37.1	41.4
79°	50.2	65.7	73.2	67.0	57.7	54.7	53.7	43.6	35.4	34.1	38.4
79.5°	45.2	61.0	68.5	62.7	53.9	51.7	50.4	40.6	32.4	31.1	35.4
80°	40.4	56.2	63.7	58.7	50.4	48.9	47.4	37.4	29.3	28.1	32.6
80.5°	35.6	51.4	59.5	54.7	47.2	46.2	44.4	34.4	26.3	25.3	29.9
81°	31.1	47.2	55.2	50.9	43.9	43.4	41.4	31.4	23.6	22.8	27.3
81.5°	26.6	42.9	50.7	47.2	40.9	40.6	38.6	28.6	20.8	20.3	24.6
82°	22.1	38.9	46.7	43.6	37.9	37.9	35.6	25.6	18.1	17.8	22.3
82.5°	18.1	34.9	42.9	40.1	34.9	35.1	32.9	23.3	15.3	15.3	20.1
83°	14.0	31.1	39.1	36.9	32.1	32.6	30.1	20.8	12.5	12.8	17.8
83.5°	10.3	27.6	35.6	33.6	29.3	30.1	27.6	18.3	10.0	11.0	15.6
84°	9.0	24.3	32.1	30.4	26.8	27.3	25.1	16.1	8.0	9.5	13.3
84.5°	7.5	21.6	28.8	27.3	24.3	25.1	22.8	13.5	6.5	8.3	11.3
85°	6.0	19.1	25.6	24.3	22.1	22.6	20.3	12.0	5.8	7.0	9.3
85.5°	4.5	16.6	22.6	21.6	19.6	20.3	18.1	10.5	4.8	5.8	7.3
86°	3.3	14.3	19.6	18.8	17.3	17.8	15.8	9.0	4.0	4.5	5.5
86.5°	2.5	12.0	16.6	16.1	14.8	15.3	13.3	7.5	3.3	3.5	3.5
87°	1.8	9.8	13.8	13.5	12.5	13.0	11.3	6.3	2.5	2.3	1.8
87.5°	1.3	7.5	11.0	11.0	10.5	10.8	9.0	4.8	1.5	1.3	0.5
88°	0.5	5.5	8.5	8.8	8.5	8.8	7.0	3.5	0.8	0.5	0.3
88.5°	0.3	3.5	6.5	6.8	6.5	6.5	5.0	2.0	0.3	0.3	0.0



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-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	0.3	0.8	1.3	1.0	0.5	0.3	0.0	0.3	0.0



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8
0.5°	1354.3	1353.3	1357.8	1362.6	1366.6	1369.4
1°	1348.8	1351.1	1359.1	1367.1	1373.6	1378.2
1.5°	1343.0	1348.6	1359.8	1371.1	1380.4	1386.4
2°	1337.0	1345.3	1360.3	1375.1	1387.2	1394.5
2.5°	1330.7	1342.5	1360.8	1378.9	1393.2	1402.2
3°	1324.5	1339.3	1360.8	1382.2	1399.2	1409.5
3.5°	1317.7	1335.8	1360.8	1385.4	1405.0	1416.8
4°	1310.9	1332.0	1360.3	1388.2	1410.3	1423.8
4.5°	1304.2	1327.7	1359.6	1390.7	1415.5	1430.3
5°	1296.6	1323.5	1358.8	1393.0	1420.3	1436.9
5.5°	1289.4	1319.2	1357.6	1395.0	1425.1	1442.6
6°	1281.8	1314.4	1356.3	1396.5	1429.1	1448.4
6.5°	1274.3	1309.4	1354.3	1398.0	1433.1	1453.7
7°	1266.3	1304.4	1352.6	1399.0	1436.4	1458.7
7.5°	1258.3	1298.9	1350.3	1399.7	1439.6	1463.4
8°	1250.0	1293.4	1347.6	1400.2	1442.4	1467.7
8.5°	1241.4	1287.4	1344.8	1400.2	1444.9	1471.5
9°	1232.9	1281.6	1341.8	1400.2	1447.1	1475.2
9.5°	1224.4	1275.3	1338.5	1399.7	1448.9	1478.5
10°	1215.6	1269.0	1335.0	1398.7	1450.4	1481.5
10.5°	1206.6	1262.3	1331.2	1397.7	1451.7	1484.0
11°	1197.3	1255.7	1327.0	1396.2	1452.4	1486.0
11.5°	1188.0	1248.5	1322.5	1394.5	1452.7	1487.8
12°	1178.7	1241.4	1318.0	1392.2	1452.7	1489.0
12.5°	1169.2	1233.9	1312.9	1389.7	1452.2	1490.0
13°	1159.9	1226.4	1307.9	1386.9	1451.4	1490.5
13.5°	1150.4	1218.6	1302.7	1383.9	1450.2	1490.8
14°	1140.4	1211.1	1297.1	1380.7	1448.6	1490.3
14.5°	1130.3	1203.1	1291.4	1377.2	1446.9	1489.8
15°	1120.5	1195.0	1285.6	1373.1	1444.6	1488.8
15.5°	1110.8	1187.0	1279.6	1368.9	1442.1	1487.3
16°	1100.7	1179.2	1273.6	1364.6	1439.4	1485.8
16.5°	1090.7	1171.0	1267.3	1360.3	1436.4	1483.5
17°	1081.2	1162.9	1261.3	1355.6	1433.1	1481.3
17.5°	1070.9	1154.9	1255.2	1350.8	1429.6	1478.5
18°	1060.6	1146.6	1249.2	1346.8	1425.8	1475.7
18.5°	1050.3	1138.3	1242.7	1342.5	1422.8	1472.5
19°	1040.3	1129.8	1236.7	1338.0	1420.0	1469.7
19.5°	1030.2	1121.5	1229.7	1333.0	1417.0	1467.5
20°	1020.2	1112.5	1222.4	1327.7	1413.3	1465.0
20.5°	1009.9	1103.5	1215.1	1322.2	1409.3	1462.2
21°	999.4	1093.9	1207.1	1315.9	1404.7	1458.9

TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	967.5	1064.6	1179.5	1291.1	1384.9	1445.1
23°	956.5	1054.3	1169.2	1280.8	1375.9	1437.4
23.5°	945.7	1043.5	1158.2	1270.3	1366.1	1428.6
24°	934.7	1032.2	1146.9	1259.0	1355.6	1419.3
24.5°	923.9	1020.9	1134.6	1246.7	1344.5	1409.0
25°	912.6	1009.4	1122.8	1234.4	1332.5	1397.2
25.5°	901.3	997.6	1110.5	1222.1	1319.5	1385.2
26°	889.8	985.6	1097.7	1209.1	1306.4	1373.1
26.5°	878.2	973.8	1084.7	1195.3	1292.9	1359.8
27°	866.9	961.7	1071.6	1181.7	1278.3	1345.8
27.5°	855.1	949.2	1058.3	1167.2	1263.0	1331.0
28°	843.3	936.4	1044.8	1152.1	1247.7	1317.0
28.5°	831.6	924.4	1031.0	1137.3	1232.4	1301.1
29°	819.8	911.3	1016.9	1122.3	1216.6	1285.3
29.5°	808.0	898.8	1003.1	1106.2	1200.1	1269.3
30°	795.9	885.7	989.1	1090.7	1184.0	1253.2
30.5°	783.9	872.9	974.3	1074.4	1166.7	1235.9
31°	771.9	859.9	960.0	1058.3	1149.9	1218.9
31.5°	760.1	846.9	945.2	1042.3	1132.6	1201.6
32°	748.3	833.3	930.1	1025.2	1115.3	1184.0
32.5°	736.0	820.5	915.6	1008.9	1097.5	1166.2
33°	724.2	807.0	900.5	992.4	1080.4	1148.6
33.5°	712.4	794.2	885.7	975.8	1062.8	1130.8
34°	700.9	780.6	870.2	959.2	1045.3	1112.8
34.5°	688.8	767.6	855.1	942.2	1027.5	1093.9
35°	676.8	754.0	839.8	925.6	1009.9	1075.9
35.5°	665.0	741.3	825.0	909.1	992.1	1057.8
36°	653.5	728.5	809.7	892.5	975.0	1039.8
36.5°	641.7	714.9	794.7	876.2	957.2	1021.2
37°	630.1	701.6	779.9	859.7	939.9	1002.4
37.5°	618.3	688.8	764.6	843.3	921.9	984.6
38°	607.1	675.8	749.8	827.0	904.6	966.3
38.5°	595.5	662.7	735.0	811.2	887.5	948.0
39°	584.5	649.7	720.2	795.2	869.9	929.4
39.5°	572.9	636.9	705.9	779.4	853.4	911.8
40°	561.4	624.1	690.8	763.3	836.1	893.8
40.5°	550.4	611.3	677.0	748.0	819.5	875.5
41°	539.3	598.5	662.7	732.2	802.0	857.6
41.5°	528.3	585.7	648.7	717.4	786.2	840.3
42°	517.2	573.4	634.6	702.4	770.1	823.0
42.5°	506.5	561.1	621.1	687.6	753.8	805.5
43°	495.4	548.9	607.6	672.5	737.2	788.7
43.5°	484.9	536.8	594.0	658.2	721.9	772.1

TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	453.0	500.9	554.9	615.8	675.3	722.7
45.5°	442.5	489.4	542.3	602.0	661.0	706.9
46°	432.5	477.9	529.8	588.2	646.4	690.8
46.5°	422.2	466.3	517.2	575.2	631.9	674.8
47°	411.6	455.3	505.2	561.9	616.8	660.0
47.5°	401.9	444.0	493.2	548.9	603.0	644.9
48°	392.1	433.0	481.4	535.8	589.5	629.6
48.5°	382.3	422.2	469.6	523.5	575.9	615.1
49°	372.8	411.6	458.0	511.2	562.1	601.3
49.5°	363.0	401.4	446.8	499.2	549.4	587.0
50°	353.4	390.8	435.7	486.6	536.1	572.7
50.5°	344.2	380.8	424.4	475.1	523.3	559.6
51°	334.9	370.8	413.9	463.3	510.5	546.1
51.5°	326.1	361.0	403.1	452.0	498.7	532.5
52°	317.1	351.4	392.8	441.0	486.4	520.0
52.5°	308.3	341.9	382.3	429.5	474.4	507.7
53°	299.5	332.4	372.5	418.7	462.8	494.7
53.5°	291.2	323.1	362.2	407.9	451.3	482.1
54°	283.0	314.1	352.4	397.3	439.7	470.8
54.5°	274.4	304.8	342.4	387.1	428.9	459.1
55°	266.4	296.3	333.4	376.8	417.9	447.0
55.5°	258.6	287.5	324.1	366.7	407.1	436.5
56°	250.8	278.9	314.8	357.0	396.3	425.2
56.5°	243.1	270.7	305.8	347.2	386.3	413.9
57°	235.5	262.4	297.0	337.6	376.0	403.1
57.5°	228.5	254.1	288.0	328.1	366.0	392.6
58°	221.2	246.6	279.4	319.1	356.5	381.3
58.5°	214.5	238.6	270.9	310.0	346.7	371.0
59°	208.0	231.0	262.6	301.3	337.1	360.2
59.5°	201.2	223.5	254.6	292.2	327.6	349.7
60°	194.4	216.0	246.6	283.5	318.1	339.9
60.5°	187.6	208.7	238.6	275.2	308.8	328.9
61°	181.4	201.7	231.0	266.9	299.5	319.3
61.5°	175.1	194.7	223.3	258.6	290.2	309.3
62°	169.3	187.9	216.0	250.6	281.2	299.8
62.5°	163.6	181.4	208.5	242.6	271.9	290.0
63°	157.5	174.8	201.4	234.8	263.1	280.2
63.5°	152.0	168.3	194.2	227.3	254.4	270.9
64°	146.7	162.0	187.4	219.7	245.8	261.4
64.5°	141.5	156.0	180.6	212.2	237.6	252.6
65°	136.5	150.0	174.1	205.2	229.0	243.6
65.5°	131.4	144.0	167.3	197.7	221.0	235.0
66°	126.4	138.5	161.0	190.6	212.7	226.0



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL5125CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	112.9	122.2	142.5	170.3	189.6	201.2
68°	108.6	117.1	136.7	163.8	182.1	192.9
68.5°	104.6	111.9	130.9	157.0	174.8	184.9
69°	100.6	107.1	125.4	150.8	167.6	177.3
69.5°	96.6	102.3	119.9	144.5	160.5	169.6
70°	93.1	97.8	114.6	138.5	153.3	162.0
70.5°	89.6	93.3	109.4	132.2	146.5	154.5
71°	86.3	90.3	104.4	126.4	139.7	147.2
71.5°	82.8	86.0	99.3	120.7	133.2	140.2
72°	79.5	81.8	94.6	114.9	126.9	133.5
72.5°	76.3	77.3	89.3	109.4	120.7	126.4
73°	73.2	73.0	85.0	103.9	114.4	119.7
73.5°	70.0	69.2	80.8	98.6	108.4	113.1
74°	67.0	65.5	76.5	93.3	102.6	106.6
74.5°	64.0	62.0	72.2	88.5	96.8	100.3
75°	60.7	58.2	68.2	83.5	91.6	94.3
75.5°	57.9	54.9	64.2	78.8	86.3	88.5
76°	54.9	51.7	60.2	73.7	81.3	82.8
76.5°	51.9	48.4	56.2	69.0	76.0	77.3
77°	48.9	45.4	52.7	64.5	71.0	71.5
77.5°	46.2	42.4	48.9	60.2	65.7	66.0
78°	43.4	39.6	45.7	55.9	61.2	60.7
78.5°	40.6	36.9	42.1	51.7	56.4	55.2
79°	37.9	34.1	38.9	47.9	51.9	50.2
79.5°	35.1	31.4	35.9	43.9	47.7	45.2
80°	32.4	28.8	32.6	40.1	43.4	40.4
80.5°	29.9	26.3	29.9	36.6	39.6	35.6
81°	27.3	23.8	27.1	33.1	35.9	31.1
81.5°	24.8	21.6	24.1	29.9	32.1	26.6
82°	22.3	19.3	21.6	26.6	28.6	22.1
82.5°	20.1	17.1	19.1	23.6	25.6	18.1
83°	17.6	14.8	16.6	20.8	22.3	14.0
83.5°	15.3	12.5	14.0	18.1	19.6	10.3
84°	12.8	10.5	11.8	15.3	17.1	9.0
84.5°	10.5	8.5	9.5	12.8	14.8	7.5
85°	8.3	6.8	7.5	10.3	12.5	6.0
85.5°	6.3	5.0	5.5	8.3	10.3	4.5
86°	4.3	3.3	3.8	6.3	8.3	3.3
86.5°	2.3	1.3	1.8	4.3	6.5	2.5
87°	0.8	0.3	0.5	2.3	4.5	1.8
87.5°	0.3	0.0	0.3	0.5	2.5	1.3
88°	0.0	0.0	0.0	0.0	0.5	0.5
88.5°	0.0	0.0	0.0	0.0	0.3	0.3



TEST NUMBER: P775987

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRH-HCD4TRLWW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.3	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°	1455.2	1464.2	1423.8	1339.5	1222.4	1098.2	990.1	914.8	879.7	877.5	913.3
22°	1450.9	1460.4	1419.5	1334.0	1214.9	1088.9	979.1	903.8	868.7	866.2	902.0



44°	755.1	781.1	776.1	739.5	677.8	588.2	510.2	463.1	437.5	429.7	440.5
44.5°	738.5	763.6	759.1	723.7	663.7	576.4	500.2	453.8	428.4	420.4	431.2



66.5°	217.7	230.8	230.8	211.7	188.1	162.0	149.3	145.5	134.5	131.9	128.9
67°	209.2	222.3	223.0	203.9	181.4	156.3	145.0	140.2	129.2	126.9	124.9



89°	0.0	1.5	4.5	4.8	4.5	4.5	3.0	1.0	0.0	0.3	0.0
89.5°	0.0	0.3	2.5	2.8	2.8	2.5	1.5	0.3	0.0	0.3	0.0



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21.5°	988.8	1084.4	1198.8	1308.7	1399.5	1455.2
22°	978.3	1074.9	1189.5	1300.6	1392.7	1450.9



44°	474.1	524.3	580.7	643.7	706.6	755.1
44.5°	463.6	512.5	567.7	629.9	691.3	738.5



66.5°	121.9	132.9	154.8	183.9	204.9	217.7
67°	117.4	127.4	148.5	176.8	197.2	209.2

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

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)