

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: P775961

Luminaire Tested: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B054)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K  
Description: 4 INCH ROUND NARROW LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2416.5 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.01 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

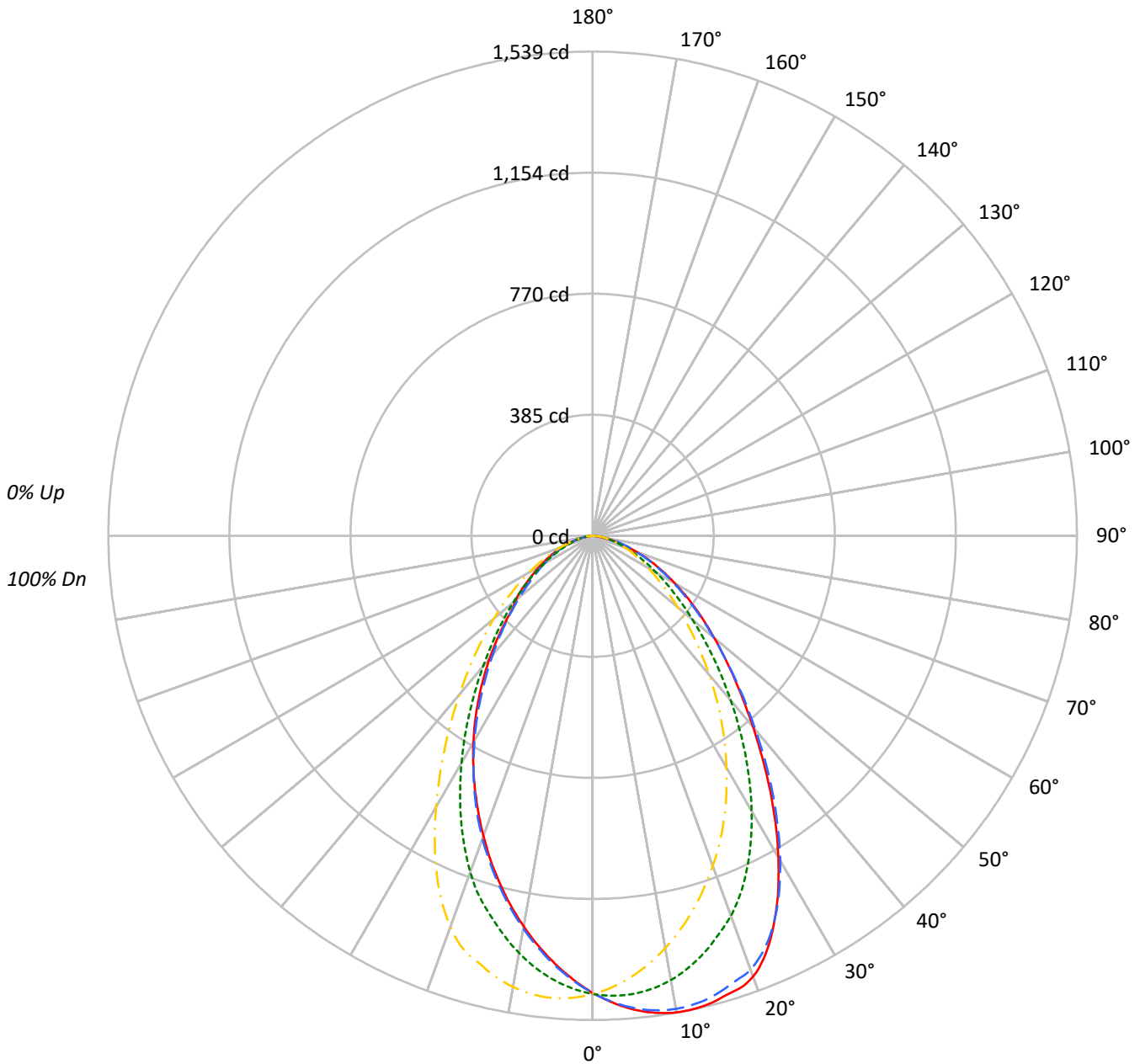
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

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

RF	20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	56	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44		
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	38	49	43	38	48	42	38	36		
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34		

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

	0°	90°	180°	270°
0°	183124	183124	183124	183124
5°	190999	184695	172593	178998
10°	196581	183202	161119	172071
15°	199147	178718	148829	163018
20°	199671	172163	135922	152248
25°	189266	161494	122919	137499
30°	171549	146801	110094	121065
35°	150761	129852	96959	104394
40°	130262	112207	83605	88878
45°	112856	95628	70622	75641
50°	98716	81174	62358	64355
55°	86734	69027	55424	54458
60°	75887	58671	48855	45608
65°	65751	49849	43030	37938
70°	53685	42058	36354	31240
75°	40213	35642	29418	25917
80°	24134	31164	20945	20583
85°	9241	28879	7509	12129

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 115846 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	5.6
10°-20°	372.0	15.4
20°-30°	503.9	20.9
30°-40°	489.8	20.3
40°-50°	387.8	16.0
50°-60°	271.5	11.2
60°-70°	164.6	6.8
70°-80°	75.5	3.1
80°-90°	15.4	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°	1012.0	41.9
0°-40°	1501.8	62.1
0°-60°	2161.1	89.4
0°-90°	2416.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1455	1455	1455	1455	1455	
5°	1512	1462	1366	1417	1512	145
15°	1528	1372	1142	1251	1528	432
25°	1363	1163	885	990	1363	622
35°	981	845	631	680	981	612
45°	634	537	397	425	634	492
55°	395	315	253	248	395	355
65°	221	167	144	127	221	219
75°	83	73	60	53	83	89
85°	6	20	5	8	6	11
90°	0	2	0	0	0	



TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1455.1	1455.1	1455.1	1455.1	1455.1	1455.1	1455.1	1455.1	1455.1	1455.1	1455.1
0.5°	1459.6	1460.3	1459.8	1459.1	1458.3	1455.6	1453.6	1452.9	1444.8	1444.5	1446.0
1°	1466.5	1467.5	1466.7	1463.8	1460.1	1454.4	1449.7	1446.5	1436.9	1436.9	1438.8
1.5°	1473.2	1474.4	1472.4	1467.7	1461.6	1453.2	1445.5	1440.3	1428.7	1428.2	1431.2
2°	1479.6	1481.3	1478.1	1471.9	1462.5	1451.2	1441.1	1433.4	1420.6	1419.6	1423.0
2.5°	1485.7	1488.0	1483.8	1475.6	1463.5	1449.2	1436.1	1426.7	1411.9	1410.9	1414.9
3°	1491.7	1493.9	1489.2	1478.8	1463.8	1446.5	1430.9	1419.1	1403.0	1402.0	1406.7
3.5°	1497.4	1499.8	1493.9	1481.8	1464.0	1443.8	1425.5	1411.9	1394.1	1392.7	1398.1
4°	1502.5	1505.3	1498.6	1484.3	1463.5	1440.6	1419.8	1404.0	1385.3	1383.3	1389.4
4.5°	1507.5	1510.4	1502.8	1486.5	1463.0	1437.4	1413.9	1395.9	1375.6	1373.6	1380.3
5°	1511.9	1515.6	1506.7	1488.5	1462.0	1433.4	1407.5	1387.7	1366.2	1363.8	1371.4
5.5°	1516.1	1520.3	1510.4	1489.9	1460.8	1429.4	1401.1	1379.3	1356.1	1353.6	1361.5
6°	1520.1	1524.5	1513.7	1491.4	1459.1	1424.8	1393.9	1370.4	1346.5	1343.3	1352.2
6.5°	1523.5	1528.5	1516.6	1492.4	1457.1	1420.3	1387.0	1361.5	1336.4	1333.1	1342.0
7°	1526.7	1531.9	1519.1	1492.9	1454.9	1415.1	1379.6	1352.7	1326.0	1322.5	1331.7
7.5°	1529.7	1535.1	1521.3	1492.9	1451.9	1409.9	1372.2	1343.3	1315.6	1311.7	1321.5
8°	1531.9	1537.9	1523.3	1492.9	1449.0	1404.3	1364.3	1333.6	1305.0	1300.6	1311.2
8.5°	1534.1	1540.3	1524.8	1492.4	1445.7	1398.6	1356.1	1323.8	1294.1	1289.9	1300.8
9°	1535.9	1542.5	1526.0	1491.4	1442.0	1392.2	1347.7	1314.1	1283.3	1278.6	1289.9
9.5°	1537.4	1544.3	1526.5	1489.9	1438.1	1385.7	1339.3	1304.0	1271.9	1267.2	1278.8
10°	1538.3	1545.5	1527.0	1488.2	1433.6	1378.8	1330.7	1294.1	1260.8	1255.9	1267.7
10.5°	1538.8	1546.5	1526.7	1486.2	1429.0	1371.9	1321.5	1283.5	1249.4	1244.3	1256.6
11°	1539.1	1547.0	1526.5	1484.0	1423.8	1364.5	1312.2	1272.9	1238.1	1232.7	1245.2
11.5°	1539.1	1547.2	1525.8	1481.1	1418.3	1357.1	1303.0	1262.3	1226.5	1220.8	1233.6
12°	1538.6	1547.2	1524.5	1478.1	1412.7	1349.2	1293.4	1251.7	1214.9	1208.9	1221.8
12.5°	1537.9	1546.7	1523.0	1474.6	1406.5	1340.8	1283.5	1240.6	1203.0	1196.6	1210.2
13°	1536.6	1545.8	1521.1	1470.9	1400.3	1332.7	1273.6	1229.4	1191.2	1184.7	1198.6
13.5°	1534.9	1544.8	1519.1	1466.7	1393.6	1324.3	1263.5	1218.1	1179.1	1172.4	1186.5
14°	1533.2	1542.8	1516.4	1461.8	1386.7	1315.1	1252.9	1206.7	1167.0	1159.8	1174.4
14.5°	1530.9	1540.8	1513.4	1456.9	1379.3	1306.0	1242.3	1195.1	1154.6	1147.7	1162.0
15°	1528.5	1538.6	1509.9	1451.7	1371.7	1296.4	1231.7	1183.5	1142.3	1134.9	1149.7
15.5°	1525.3	1535.6	1506.2	1446.2	1364.0	1287.0	1220.8	1171.7	1129.9	1122.5	1137.1
16°	1521.8	1532.7	1502.0	1440.3	1355.6	1277.1	1209.4	1159.8	1117.6	1109.9	1124.7
16.5°	1519.1	1529.2	1497.6	1434.1	1347.2	1267.2	1198.3	1147.7	1105.0	1097.3	1112.2
17°	1516.9	1526.0	1493.2	1427.7	1338.3	1256.8	1187.2	1135.9	1092.4	1084.0	1099.8
17.5°	1514.9	1523.8	1488.5	1420.6	1329.7	1246.5	1175.6	1123.5	1079.6	1071.2	1087.2
18°	1512.9	1521.8	1484.8	1414.1	1320.8	1235.9	1163.8	1111.2	1066.7	1058.3	1074.4
18.5°	1509.2	1519.6	1481.3	1407.7	1312.2	1225.5	1152.2	1098.8	1053.9	1045.5	1061.8
19°	1504.5	1516.4	1477.8	1401.8	1303.5	1214.9	1140.3	1086.5	1041.0	1032.6	1049.7
19.5°	1498.1	1511.4	1473.4	1395.6	1294.9	1204.5	1128.9	1074.1	1027.9	1019.8	1037.1
20°	1490.9	1505.5	1467.5	1388.7	1285.5	1193.4	1116.6	1061.8	1014.9	1006.7	1024.2
20.5°	1482.8	1498.3	1460.3	1380.6	1275.1	1182.5	1105.0	1048.9	1001.8	993.6	1011.2
21°	1473.2	1490.4	1451.9	1372.2	1264.0	1170.4	1092.4	1036.1	989.2	980.8	997.8



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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°	1438.1	1460.3	1423.3	1340.6	1229.4	1133.6	1055.1	997.8	949.9	941.8	958.1
23°	1424.3	1448.2	1412.4	1329.4	1216.6	1120.8	1042.0	984.7	936.8	928.9	944.5
23.5°	1409.9	1435.6	1400.6	1317.6	1204.0	1108.0	1029.2	971.9	924.2	915.8	930.7
24°	1395.1	1422.0	1388.5	1305.0	1190.7	1094.1	1015.9	959.1	911.2	903.0	917.1
24.5°	1379.3	1407.5	1375.1	1291.7	1177.1	1080.5	1002.5	945.7	898.1	889.9	903.5
25°	1363.0	1392.2	1361.3	1278.1	1163.0	1066.7	988.7	932.6	885.2	877.1	889.9
25.5°	1346.5	1376.1	1346.5	1264.3	1148.9	1052.6	975.4	919.5	872.4	863.7	875.8
26°	1329.4	1359.8	1331.4	1249.7	1134.6	1038.6	962.0	906.5	859.8	850.4	862.0
26.5°	1311.7	1343.3	1315.9	1235.1	1119.8	1024.0	948.2	893.1	846.7	837.6	848.2
27°	1294.1	1325.7	1299.6	1219.8	1104.5	1009.4	934.4	879.8	834.1	824.5	834.4
27.5°	1276.1	1308.0	1282.8	1204.3	1089.4	995.1	920.3	866.7	821.0	811.4	820.3
28°	1257.1	1289.4	1265.0	1188.0	1073.9	980.8	906.5	853.6	808.4	798.3	806.2
28.5°	1238.3	1270.7	1246.7	1171.7	1058.6	965.7	892.6	840.0	795.8	785.2	792.4
29°	1219.3	1251.9	1228.9	1155.1	1042.5	950.7	878.6	826.7	783.2	772.1	778.6
29.5°	1199.8	1232.9	1210.9	1137.8	1026.5	936.1	864.7	813.6	770.4	759.3	764.7
30°	1180.5	1213.1	1192.2	1121.0	1010.2	921.0	850.4	800.5	757.6	746.2	750.7
30.5°	1160.8	1193.6	1172.9	1103.5	993.9	905.7	836.3	787.2	744.7	733.4	737.1
31°	1140.8	1173.6	1153.6	1085.5	978.1	890.9	822.5	773.9	732.1	720.3	723.5
31.5°	1121.3	1153.4	1134.4	1067.7	961.3	875.6	808.4	760.8	719.5	707.2	710.2
32°	1101.0	1132.9	1114.6	1049.2	944.7	860.8	794.6	747.7	706.9	694.6	696.6
32.5°	1080.8	1112.4	1094.9	1030.9	928.2	845.7	780.3	734.6	694.1	681.8	682.7
33°	1060.8	1092.2	1075.4	1012.6	911.4	830.4	766.5	721.8	681.5	668.9	669.2
33.5°	1040.5	1071.9	1056.3	994.1	895.1	815.3	752.6	708.2	668.9	656.1	656.3
34°	1020.8	1051.4	1036.3	975.4	878.3	799.8	738.8	695.3	656.3	643.2	642.7
34.5°	1001.0	1030.7	1016.3	956.8	861.5	784.7	725.0	682.5	643.5	630.6	629.7
35°	981.3	1010.4	996.3	938.3	845.2	769.9	710.9	669.7	631.1	618.3	616.3
35.5°	961.5	990.4	976.6	920.0	828.4	754.9	697.6	656.6	618.8	606.0	603.7
36°	941.5	970.4	957.1	901.8	811.9	739.8	684.0	644.0	606.2	593.6	590.9
36.5°	922.5	950.7	937.6	883.3	795.1	724.7	670.2	631.4	593.9	581.3	578.3
37°	903.0	930.4	918.1	865.5	779.3	710.4	656.3	618.8	581.3	568.9	565.7
37.5°	884.2	910.7	899.1	847.4	762.5	695.3	642.7	606.2	569.4	557.1	553.4
38°	865.2	891.4	879.3	828.9	746.7	680.8	629.7	594.1	557.1	545.0	541.0
38.5°	847.0	872.1	860.5	811.6	730.7	666.2	615.8	581.5	545.0	532.9	529.4
39°	828.7	853.1	841.5	793.6	714.8	652.1	602.5	569.4	533.1	521.0	517.3
39.5°	810.9	834.6	823.7	776.8	698.6	637.6	589.2	557.1	521.0	509.4	505.5
40°	792.9	816.3	805.2	758.8	683.0	623.2	576.3	545.0	508.9	497.6	493.9
40.5°	775.8	798.6	787.2	742.5	667.7	608.7	563.2	532.4	497.3	485.9	482.7
41°	758.8	780.3	769.4	725.5	652.1	595.3	550.6	520.5	485.7	474.6	471.4
41.5°	741.8	763.5	752.1	708.7	636.8	581.0	538.0	508.4	474.1	463.2	460.5
42°	725.5	746.2	734.8	691.9	622.3	567.4	525.7	497.1	462.5	452.4	450.1
42.5°	709.7	729.4	718.3	676.6	607.7	554.3	513.4	485.2	451.4	441.7	439.8
43°	693.9	713.4	702.0	660.8	593.1	541.3	501.5	473.8	440.0	431.1	429.2
43.5°	678.6	697.3	685.5	645.2	578.8	528.2	489.4	462.2	428.9	421.0	418.8



TEST NUMBER: P775961

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	634.1	650.9	638.8	599.8	537.3	490.9	454.8	429.9	396.8	392.1	389.4
45.5°	619.8	636.3	623.7	585.2	524.0	478.8	444.0	419.8	386.4	383.0	380.0
46°	606.0	622.0	609.2	571.1	510.9	467.2	433.1	409.6	376.6	373.6	370.6
46.5°	592.4	607.7	594.6	557.1	498.0	455.3	422.7	399.5	366.9	364.5	361.3
47°	579.0	593.6	580.8	543.2	485.2	443.7	412.1	389.6	357.8	355.8	352.1
47.5°	566.2	580.0	566.7	529.9	472.9	432.6	401.7	380.0	349.2	347.4	343.2
48°	553.1	566.4	552.9	516.1	460.5	421.3	391.6	370.6	341.5	339.0	334.8
48.5°	540.3	553.6	539.8	503.5	448.7	410.6	381.5	361.3	334.8	330.9	326.2
49°	528.2	540.8	526.7	490.9	437.1	400.0	371.9	352.4	328.9	323.0	318.0
49.5°	516.1	528.2	514.1	478.5	425.7	389.6	362.0	343.5	323.5	315.6	309.9
50°	504.2	516.1	501.8	466.2	414.6	379.5	352.6	334.8	318.5	308.7	302.0
50.5°	492.6	503.7	489.2	454.1	403.5	369.4	343.5	326.4	313.6	301.7	293.8
51°	481.0	491.9	477.1	442.5	392.6	359.8	334.3	318.3	307.9	295.6	286.4
51.5°	469.7	480.3	465.5	431.1	382.5	350.4	325.7	310.4	301.2	289.9	279.3
52°	458.5	468.7	453.8	419.5	372.1	341.0	316.8	302.7	293.8	283.2	271.9
52.5°	447.7	457.3	442.5	408.7	362.0	331.9	308.4	295.3	286.7	276.6	264.7
53°	437.1	446.4	431.1	398.0	352.1	322.7	300.0	288.4	279.8	269.9	257.8
53.5°	426.2	435.3	420.3	387.2	342.5	313.8	291.9	281.2	272.6	263.2	250.9
54°	415.8	424.7	409.4	376.8	333.1	305.2	284.0	274.8	265.7	256.8	244.2
54.5°	405.5	413.8	398.5	366.7	323.5	296.8	276.1	268.9	259.3	250.4	237.8
55°	395.3	403.7	388.7	356.6	314.6	288.7	268.7	262.7	252.6	244.5	231.6
55.5°	385.2	393.4	378.3	346.9	305.7	280.3	261.2	256.6	246.4	237.8	225.4
56°	375.3	383.2	368.2	337.1	297.1	272.1	253.8	250.1	240.0	231.6	219.5
56.5°	365.7	373.4	358.3	327.7	288.7	264.5	246.7	244.0	233.8	225.9	214.1
57°	356.3	363.7	348.7	318.5	280.0	256.6	239.8	237.8	227.7	220.3	208.7
57.5°	346.4	353.8	339.3	309.4	271.9	249.1	233.1	231.9	222.0	214.3	203.5
58°	337.3	344.2	329.6	300.5	263.7	241.7	226.7	225.9	216.1	208.9	198.0
58.5°	328.2	334.8	320.5	291.6	256.3	234.6	220.3	220.0	210.6	203.5	192.8
59°	319.0	325.9	311.6	283.0	248.4	227.4	214.1	214.3	204.9	198.0	187.4
59.5°	310.1	316.3	302.5	274.6	240.8	220.5	208.4	208.9	199.5	192.6	182.5
60°	301.5	307.9	293.8	266.4	233.1	213.8	202.7	203.5	194.1	187.2	177.5
60.5°	292.9	299.0	285.2	258.0	226.2	207.7	197.0	198.0	188.7	182.0	172.6
61°	284.2	290.4	276.8	250.4	219.0	201.2	191.4	192.6	183.5	177.0	167.7
61.5°	275.8	281.5	268.2	242.5	212.4	194.8	185.7	187.2	178.3	171.9	163.0
62°	267.7	273.6	260.3	234.8	205.7	188.4	180.7	182.0	173.3	166.9	158.3
62.5°	259.8	265.2	252.4	227.4	199.0	182.2	175.6	177.0	168.2	162.0	153.6
63°	251.6	257.0	244.2	220.0	192.4	176.3	170.6	171.9	163.5	157.5	148.9
63.5°	243.7	248.9	236.6	212.8	185.7	170.6	165.7	166.9	158.5	152.6	144.5
64°	236.1	241.0	228.9	205.7	179.3	164.9	161.2	162.0	153.8	148.2	140.0
64.5°	228.4	233.3	221.5	198.8	173.3	159.5	156.6	157.3	149.1	143.5	135.8
65°	220.8	225.9	214.1	191.9	167.4	154.1	152.1	152.8	144.5	139.0	131.4
65.5°	213.1	218.0	206.7	185.4	161.5	148.9	147.4	148.2	139.5	134.6	127.2
66°	205.2	210.9	199.8	179.0	155.8	143.7	143.2	143.5	134.8	130.1	123.2





TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	182.5	188.9	179.0	160.0	139.5	129.4	130.1	130.1	120.7	117.0	111.1
68°	175.1	181.7	172.4	154.1	134.3	124.7	126.2	125.7	116.3	112.8	107.2
68.5°	167.4	174.6	165.9	148.4	129.1	120.3	122.0	121.2	111.9	108.4	103.5
69°	160.3	167.4	159.8	142.5	124.2	115.8	118.0	117.0	107.4	104.4	99.8
69.5°	153.1	160.5	153.6	137.0	119.3	111.9	113.8	112.6	103.0	100.3	96.1
70°	145.9	153.6	147.4	131.4	114.3	107.7	110.1	108.4	98.8	96.3	92.4
70.5°	139.3	146.9	141.5	125.9	109.6	103.7	106.2	104.4	94.8	92.4	88.9
71°	132.4	140.5	135.6	120.7	105.2	100.0	102.5	100.3	90.6	88.2	85.2
71.5°	125.7	133.8	129.9	115.6	100.7	96.3	98.8	96.3	86.7	84.4	81.7
72°	119.0	127.7	124.5	110.6	96.5	92.6	95.1	92.4	82.7	80.7	78.3
72.5°	112.8	121.7	118.8	105.9	92.4	89.1	91.6	88.4	78.8	76.8	74.8
73°	106.7	115.6	113.3	101.2	88.4	85.4	87.9	84.7	74.8	73.3	71.6
73.5°	100.3	109.9	108.2	96.3	84.4	82.2	84.4	80.7	71.1	69.6	68.4
74°	94.3	104.0	102.7	91.9	80.7	79.0	81.0	77.3	67.4	65.9	65.2
74.5°	88.2	98.3	97.8	88.6	77.0	75.8	77.8	73.6	64.0	62.5	61.7
75°	82.7	92.8	92.8	84.4	73.3	72.6	74.3	70.1	60.5	59.0	58.8
75.5°	77.3	87.4	87.7	80.3	69.9	69.6	71.1	66.7	57.0	55.8	55.6
76°	71.9	82.7	83.2	75.8	66.7	66.7	67.9	63.2	53.6	52.3	52.6
76.5°	66.4	77.8	78.8	71.6	63.2	63.7	64.7	59.8	50.1	49.1	49.6
77°	61.2	72.8	74.6	67.7	60.2	60.7	61.5	56.5	46.9	45.9	46.7
77.5°	56.1	67.9	70.1	64.0	57.0	58.0	58.3	53.3	43.7	43.0	44.0
78°	51.1	63.2	65.7	60.5	54.1	55.3	55.6	50.1	40.7	39.8	41.2
78.5°	46.4	59.0	61.5	57.0	51.1	52.3	52.3	46.9	37.5	36.8	38.3
79°	41.7	54.6	57.5	53.6	48.2	49.6	49.6	43.7	34.6	33.8	35.6
79.5°	37.5	50.4	53.6	50.1	45.4	47.2	46.7	40.7	31.6	31.1	33.1
80°	33.3	46.2	49.6	46.9	43.0	44.4	44.0	37.8	28.9	28.1	30.4
80.5°	29.6	42.5	45.9	44.0	40.2	42.0	41.2	35.1	25.9	25.4	27.9
81°	25.9	38.8	42.5	41.0	37.8	39.5	38.5	32.1	23.5	23.0	25.4
81.5°	22.5	35.3	39.0	38.0	35.3	37.0	35.8	29.4	20.7	20.5	23.2
82°	19.0	31.9	35.6	35.3	32.8	34.6	33.3	26.7	18.3	18.0	21.0
82.5°	15.8	28.4	32.3	32.6	30.6	32.1	30.6	24.2	15.6	15.6	18.8
83°	13.1	25.2	29.4	29.9	28.4	29.9	28.1	21.7	12.8	13.1	16.5
83.5°	10.6	22.2	26.4	27.4	26.2	27.7	25.9	19.3	10.6	11.1	14.3
84°	8.6	19.0	23.7	24.9	24.0	25.2	23.7	16.8	8.4	9.4	12.3
84.5°	7.4	16.3	21.0	22.7	22.0	23.2	21.5	14.3	6.4	7.9	10.6
85°	6.4	13.6	18.5	20.5	20.0	21.0	19.5	12.3	5.2	6.7	8.6
85.5°	5.2	11.1	16.3	18.3	18.0	19.0	17.3	10.6	4.4	5.4	6.9
86°	4.2	8.9	14.1	16.3	16.1	16.8	15.1	9.1	3.7	4.4	4.9
86.5°	3.5	7.4	12.1	14.1	14.1	14.6	13.1	7.9	3.0	3.2	3.5
87°	3.0	5.9	10.1	12.3	12.3	12.6	11.1	6.4	2.2	2.2	2.0
87.5°	2.2	4.4	8.6	10.6	10.6	10.6	9.1	5.2	1.5	1.2	0.7
88°	1.7	3.0	7.2	8.9	8.6	8.9	7.4	4.0	1.0	0.5	0.2
88.5°	1.2	2.0	5.4	7.2	6.9	6.9	5.7	2.7	0.2	0.2	0.0



TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.5	1.5	2.7	2.2	2.0	1.0	0.2	0.0	0.2	0.0



TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1455.1	1455.1	1455.1	1455.1	1455.1	1455.1
0.5°	1448.5	1453.9	1456.6	1460.6	1464.3	1459.6
1°	1443.0	1450.9	1456.9	1463.3	1469.5	1466.5
1.5°	1437.1	1447.7	1456.6	1466.0	1474.4	1473.2
2°	1431.2	1444.5	1455.9	1468.2	1479.1	1479.6
2.5°	1424.8	1440.6	1455.1	1470.2	1483.5	1485.7
3°	1418.1	1436.6	1453.6	1471.7	1487.5	1491.7
3.5°	1410.9	1432.2	1452.2	1473.2	1491.2	1497.4
4°	1403.8	1427.5	1449.9	1473.9	1494.1	1502.5
4.5°	1396.4	1422.3	1447.7	1474.4	1497.1	1507.5
5°	1388.5	1416.9	1445.0	1474.6	1500.1	1511.9
5.5°	1380.3	1411.4	1441.8	1474.4	1502.3	1516.1
6°	1372.2	1405.3	1438.6	1473.9	1504.0	1520.1
6.5°	1363.8	1398.8	1434.9	1472.9	1505.5	1523.5
7°	1354.6	1392.2	1430.7	1471.4	1506.7	1526.7
7.5°	1345.7	1385.3	1426.2	1469.7	1507.7	1529.7
8°	1336.6	1378.3	1421.5	1467.7	1508.0	1531.9
8.5°	1327.0	1370.7	1416.4	1465.5	1508.0	1534.1
9°	1317.3	1362.8	1410.9	1462.8	1507.7	1535.9
9.5°	1307.2	1354.6	1405.3	1459.6	1507.2	1537.4
10°	1297.1	1346.5	1399.3	1456.1	1506.2	1538.3
10.5°	1286.7	1337.8	1393.2	1452.4	1505.0	1538.8
11°	1276.4	1329.2	1386.2	1448.2	1503.3	1539.1
11.5°	1265.7	1320.1	1379.1	1443.8	1501.1	1539.1
12°	1254.9	1310.4	1372.2	1439.1	1498.6	1538.6
12.5°	1244.0	1301.0	1364.8	1433.9	1495.9	1537.9
13°	1232.9	1291.4	1356.9	1428.5	1492.9	1536.6
13.5°	1221.3	1281.5	1348.7	1423.0	1489.5	1534.9
14°	1209.7	1271.2	1340.3	1416.6	1485.5	1533.2
14.5°	1198.1	1261.3	1332.4	1410.4	1481.8	1530.9
15°	1187.0	1251.2	1324.0	1404.5	1477.1	1528.5
15.5°	1175.4	1241.3	1316.4	1399.3	1473.4	1525.3
16°	1164.0	1231.2	1308.7	1394.6	1470.4	1521.8
16.5°	1152.4	1221.3	1301.0	1389.2	1467.5	1519.1
17°	1140.8	1211.2	1292.2	1382.8	1464.0	1516.9
17.5°	1128.9	1200.3	1282.0	1374.6	1459.3	1514.9
18°	1117.1	1188.7	1271.2	1366.0	1452.7	1512.9
18.5°	1104.7	1176.6	1259.6	1356.1	1444.8	1509.2
19°	1091.9	1163.5	1247.5	1345.7	1435.9	1504.5
19.5°	1078.8	1150.4	1235.1	1334.4	1426.7	1498.1
20°	1065.5	1136.8	1222.5	1322.5	1416.1	1490.9
20.5°	1051.7	1123.5	1208.9	1310.2	1405.3	1482.8
21°	1038.1	1109.2	1195.1	1296.9	1393.2	1473.2

TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	995.6	1066.0	1152.4	1254.6	1352.7	1438.1
23°	981.3	1051.2	1137.3	1239.8	1337.6	1424.3
23.5°	966.5	1036.1	1121.8	1224.0	1322.0	1409.9
24°	951.9	1020.8	1106.5	1208.2	1305.5	1395.1
24.5°	937.1	1005.5	1090.4	1191.4	1288.9	1379.3
25°	922.5	990.2	1074.4	1174.6	1271.4	1363.0
25.5°	907.7	974.9	1057.8	1157.6	1254.1	1346.5
26°	892.9	959.3	1041.3	1140.1	1236.1	1329.4
26.5°	878.3	943.5	1025.2	1122.5	1218.3	1311.7
27°	863.5	927.7	1008.2	1104.5	1200.1	1294.1
27.5°	848.7	911.9	991.4	1086.5	1181.0	1276.1
28°	833.9	896.1	973.9	1068.0	1162.0	1257.1
28.5°	819.3	880.0	957.1	1049.7	1143.5	1238.3
29°	804.5	864.7	940.3	1031.4	1124.7	1219.3
29.5°	789.7	848.9	923.0	1012.6	1105.5	1199.8
30°	775.1	833.1	905.7	995.1	1086.2	1180.5
30.5°	760.5	817.3	888.4	976.6	1067.0	1160.8
31°	746.0	802.0	871.4	958.1	1048.2	1140.8
31.5°	731.6	786.2	854.6	940.0	1029.2	1121.3
32°	716.8	770.7	837.6	922.0	1009.7	1101.0
32.5°	703.0	755.3	820.8	903.7	990.7	1080.8
33°	688.7	739.8	804.0	886.7	971.7	1060.8
33.5°	674.4	724.5	787.7	868.9	952.6	1040.5
34°	660.5	709.4	771.1	851.4	934.6	1020.8
34.5°	646.7	694.4	755.1	834.1	915.6	1001.0
35°	632.9	679.5	739.0	817.1	897.3	981.3
35.5°	619.3	664.5	723.0	800.0	879.1	961.5
36°	606.0	650.4	707.9	784.0	861.3	941.5
36.5°	592.6	635.8	692.4	766.7	843.7	922.5
37°	579.3	621.8	677.8	750.9	825.7	903.0
37.5°	566.7	607.4	662.5	734.8	808.4	884.2
38°	553.9	593.9	647.9	719.3	791.1	865.2
38.5°	541.5	580.3	633.4	703.2	774.1	847.0
39°	529.4	566.9	619.3	688.4	758.1	828.7
39.5°	516.8	553.6	605.5	673.4	741.5	810.9
40°	504.7	541.0	591.4	658.5	725.2	792.9
40.5°	493.1	528.2	578.1	643.5	709.4	775.8
41°	481.5	516.1	564.7	629.4	693.9	758.8
41.5°	469.9	503.7	551.9	615.1	678.6	741.8
42°	459.0	491.9	539.0	601.5	663.5	725.5
42.5°	447.9	480.0	526.2	587.9	648.7	709.7
43°	437.3	468.9	513.9	574.6	634.1	693.9
43.5°	426.7	457.3	501.5	561.3	620.0	678.6

TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	396.6	425.0	466.2	523.2	579.0	634.1
45.5°	386.9	414.3	455.1	510.9	566.0	619.8
46°	377.3	404.2	443.7	498.8	553.1	606.0
46.5°	367.9	394.1	433.1	486.9	540.3	592.4
47°	358.5	384.2	422.0	475.1	527.9	579.0
47.5°	349.6	374.6	411.6	463.7	515.6	566.2
48°	340.8	365.2	401.3	452.4	503.7	553.1
48.5°	332.1	355.8	390.9	441.3	491.9	540.3
49°	323.2	346.7	381.0	430.6	480.5	528.2
49.5°	314.8	337.5	371.1	420.0	469.2	516.1
50°	306.7	328.7	361.3	409.2	457.8	504.2
50.5°	298.5	320.0	351.9	398.8	446.9	492.6
51°	290.6	311.4	342.5	388.9	436.1	481.0
51.5°	282.7	302.7	333.3	378.8	425.7	469.7
52°	274.8	294.8	324.2	369.2	414.8	458.5
52.5°	267.2	286.7	315.6	359.5	404.7	447.7
53°	259.8	278.8	306.7	349.9	394.6	437.1
53.5°	252.4	270.9	298.3	340.8	384.5	426.2
54°	245.2	263.0	289.9	331.4	374.6	415.8
54.5°	238.3	255.6	281.7	322.2	365.2	405.5
55°	231.4	248.2	273.6	313.3	355.3	395.3
55.5°	224.5	241.0	265.7	304.7	346.2	385.2
56°	218.0	233.8	257.5	296.1	336.8	375.3
56.5°	211.9	226.9	250.1	287.7	327.7	365.7
57°	205.7	219.8	242.5	279.3	318.5	356.3
57.5°	199.5	213.3	235.1	271.1	309.6	346.4
58°	193.3	206.4	227.9	263.0	300.8	337.3
58.5°	187.2	200.0	221.0	255.3	292.4	328.2
59°	181.5	193.6	213.8	247.4	283.7	319.0
59.5°	175.8	187.4	207.2	239.8	275.6	310.1
60°	170.6	181.2	200.3	232.4	267.2	301.5
60.5°	165.2	175.3	193.8	224.9	259.3	292.9
61°	160.0	169.6	187.2	217.8	250.9	284.2
61.5°	154.8	163.7	181.0	210.6	243.5	275.8
62°	149.9	158.0	174.8	203.5	235.8	267.7
62.5°	144.9	152.6	168.6	196.8	228.2	259.8
63°	140.3	147.4	162.7	189.9	220.5	251.6
63.5°	135.6	142.2	157.0	183.5	213.3	243.7
64°	131.1	137.0	151.1	176.8	206.2	236.1
64.5°	126.9	132.1	145.7	170.4	199.0	228.4
65°	122.7	127.4	140.3	164.2	192.1	220.8
65.5°	118.8	122.5	135.1	158.0	185.4	213.1
66°	114.8	117.8	129.6	151.9	178.8	205.2



TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	103.5	104.7	114.6	134.6	158.5	182.5
68°	100.0	100.5	109.9	129.1	152.1	175.1
68.5°	96.3	96.5	105.4	123.7	145.7	167.4
69°	92.8	92.6	101.0	118.3	139.3	160.3
69.5°	89.4	88.4	96.3	113.3	133.1	153.1
70°	85.9	84.9	92.1	108.4	127.2	145.9
70.5°	82.7	81.7	88.2	103.5	121.2	139.3
71°	79.5	78.3	84.4	98.5	115.3	132.4
71.5°	76.1	74.8	80.5	93.8	109.6	125.7
72°	73.1	71.6	76.5	89.4	104.0	119.0
72.5°	70.1	68.4	72.6	84.9	98.5	112.8
73°	66.7	65.2	69.1	80.7	93.3	106.7
73.5°	63.7	62.2	65.4	76.3	87.7	100.3
74°	60.7	59.3	62.0	72.1	83.0	94.3
74.5°	58.0	56.3	58.8	67.9	78.3	88.2
75°	55.1	53.3	55.6	64.0	73.6	82.7
75.5°	52.3	50.6	52.3	60.0	68.9	77.3
76°	49.6	47.9	49.4	56.1	64.4	71.9
76.5°	46.9	45.2	46.2	52.6	60.0	66.4
77°	44.2	42.7	43.5	48.9	55.8	61.2
77.5°	41.7	40.2	40.5	45.4	51.6	56.1
78°	39.0	37.8	37.8	42.2	47.7	51.1
78.5°	36.5	35.3	35.3	38.8	43.7	46.4
79°	34.1	33.1	32.8	35.8	40.0	41.7
79.5°	31.6	30.6	30.1	32.6	36.3	37.5
80°	29.1	28.4	27.9	29.9	32.8	33.3
80.5°	26.9	26.4	25.4	27.2	29.4	29.6
81°	24.7	24.2	23.5	24.4	26.2	25.9
81.5°	22.5	22.0	21.2	21.7	23.0	22.5
82°	20.2	20.0	19.0	19.5	20.0	19.0
82.5°	18.0	18.0	17.0	17.3	17.0	15.8
83°	16.1	16.1	15.1	15.1	14.3	13.1
83.5°	13.8	13.8	13.1	13.1	12.1	10.6
84°	11.9	12.1	11.4	11.1	9.9	8.6
84.5°	9.9	10.1	9.6	9.4	8.4	7.4
85°	7.9	8.4	8.1	7.9	6.7	6.4
85.5°	5.9	6.9	6.4	6.4	5.2	5.2
86°	4.2	5.2	4.9	4.9	3.7	4.2
86.5°	2.5	3.5	3.2	3.5	2.7	3.5
87°	1.2	1.7	2.0	2.5	2.0	3.0
87.5°	0.2	0.5	0.7	1.2	1.2	2.2
88°	0.0	0.0	0.0	0.2	0.7	1.7
88.5°	0.0	0.0	0.0	0.0	0.2	1.2



TEST NUMBER: P775961

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRH-HCD42TRLWW-2500lm-3000K

**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°	1462.0	1481.3	1443.3	1362.3	1252.9	1158.3	1080.3	1023.5	976.1	967.5	985.0
22°	1450.2	1471.4	1433.6	1351.7	1241.3	1146.2	1067.7	1010.7	963.0	954.6	971.4



44°	663.2	681.3	669.4	628.9	565.0	515.6	477.8	451.4	418.0	411.4	409.2
44.5°	648.4	666.0	654.4	614.6	551.1	503.0	466.2	440.3	407.7	402.0	399.3



66.5°	197.5	203.7	192.6	172.4	150.1	138.8	138.8	139.3	130.1	125.7	119.0
67°	189.9	196.1	185.9	166.2	144.7	134.1	134.3	134.6	125.4	121.5	115.1



89°	0.7	1.5	4.0	5.7	5.2	5.2	4.0	1.7	0.0	0.2	0.0
89.5°	0.2	1.0	2.5	4.2	3.7	3.5	2.2	0.7	0.0	0.2	0.0



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21.5°	1024.2	1094.9	1181.3	1283.5	1380.6	1462.0
22°	1010.2	1080.8	1167.0	1269.4	1366.7	1450.2



44°	416.6	446.2	489.7	548.2	606.0	663.2
44.5°	406.4	435.3	478.0	535.6	592.4	648.4



66.5°	110.9	113.3	124.5	145.9	171.9	197.5
67°	107.2	108.9	119.5	140.3	165.2	189.9

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

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)