

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: P775939

Luminaire Tested: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775939  
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-5000K  
Description: 4 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3089.4 lumens  
Efficiency: N/A  
Efficacy: 123.6 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

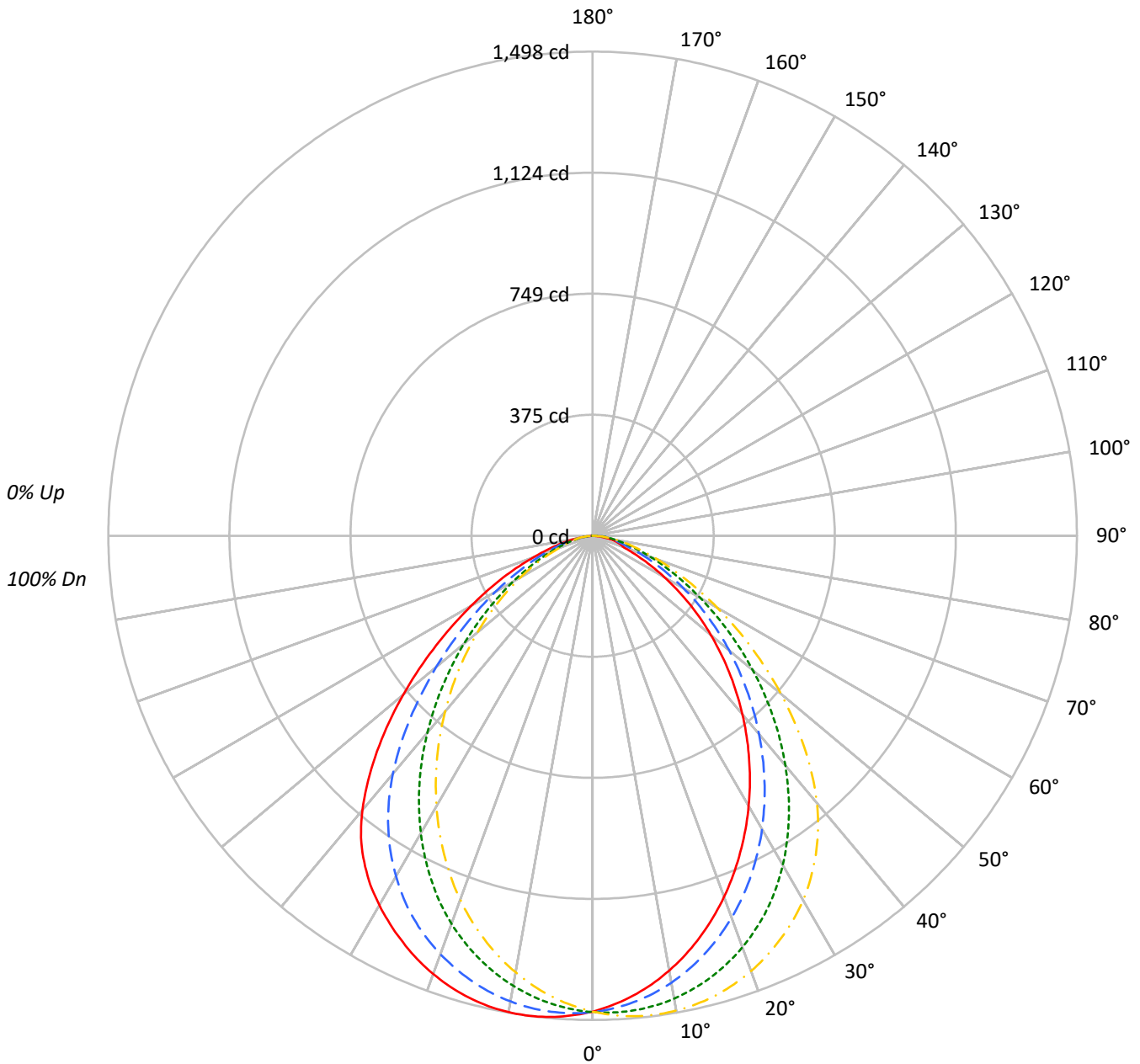
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**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	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	100	100	100	100		
	1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87	87	87		
	2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75	75	75	75	75	75		
	3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65	65	65	65	65	65		
	4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	57	57	57	57		
	5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50	50	50	50	50	50		
	6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45	45	45	45	45	45		
	7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40	40	40	40	40	40		
	8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	36	36		
	9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	33	33		
	10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30	30	30	30	30	30		

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

	0°	90°	180°	270°
0°	185326	185326	185326	185326
5°	180488	186199	188776	183621
10°	174550	185808	191252	180658
15°	167409	184229	192737	176516
20°	159212	181417	193202	171011
25°	150094	177199	192751	163619
30°	140276	170924	191705	154416
35°	129652	162576	189277	143418
40°	118335	152391	181913	130623
45°	106271	140318	167798	116469
50°	93449	126616	149621	101653
55°	79581	111813	129607	86207
60°	64536	96678	109363	71609
65°	49194	82487	90646	58515
70°	37238	69839	71347	46731
75°	39046	58350	55967	37295
80°	35730	51094	39861	28627
85°	17905	51838	11119	15306

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 89.5°  
 Luminance: 190364 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	4.5
10°-20°	389.5	12.6
20°-30°	566.3	18.3
30°-40°	634.3	20.5
40°-50°	573.9	18.6
50°-60°	416.8	13.5
60°-70°	238.4	7.7
70°-80°	105.8	3.4
80°-90°	25.6	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°	1094.4	35.4
0°-40°	1728.8	56.0
0°-60°	2719.5	88.0
0°-90°	3089.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3089.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1473	1473	1473	1473	1473	
5°	1429	1474	1494	1454	1429	134
15°	1285	1414	1479	1355	1285	361
25°	1081	1276	1388	1178	1081	496
35°	844	1058	1232	934	844	527
45°	597	788	943	654	597	460
55°	363	510	591	393	363	325
65°	165	277	304	196	165	167
75°	80	120	115	77	80	83
85°	12	36	8	11	12	19
90°	0	8	0	0	0	



TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6
0.5°	1468.4	1472.0	1472.0	1471.8	1474.6	1474.6	1474.9	1474.9	1474.9	1477.0	1474.9
1°	1464.6	1469.2	1470.2	1471.3	1475.4	1476.4	1477.5	1478.0	1477.7	1479.0	1476.2
1.5°	1460.9	1466.4	1468.2	1470.5	1475.7	1478.2	1480.1	1480.8	1480.6	1481.1	1477.2
2°	1456.8	1463.0	1466.1	1469.5	1476.2	1479.5	1482.4	1483.7	1483.2	1482.9	1478.0
2.5°	1452.7	1459.7	1463.8	1468.4	1476.2	1480.8	1484.4	1486.0	1485.5	1484.4	1478.5
3°	1448.0	1456.0	1461.2	1467.1	1476.2	1481.9	1486.2	1488.3	1487.8	1485.7	1478.8
3.5°	1443.7	1452.2	1458.4	1465.6	1475.9	1482.9	1488.1	1490.4	1489.6	1487.0	1479.0
4°	1438.7	1448.3	1455.5	1463.8	1475.4	1483.7	1489.6	1492.2	1491.4	1487.8	1478.8
4.5°	1433.8	1444.2	1452.2	1462.0	1474.6	1484.2	1490.9	1494.0	1493.0	1488.6	1478.5
5°	1428.7	1439.5	1448.8	1459.9	1473.9	1484.4	1491.9	1495.5	1494.3	1489.1	1478.2
5.5°	1423.3	1435.1	1445.2	1457.6	1472.8	1484.4	1492.7	1496.6	1495.3	1489.6	1477.5
6°	1417.6	1430.2	1441.3	1455.0	1471.5	1484.2	1493.5	1497.9	1496.3	1489.6	1476.7
6.5°	1411.9	1425.3	1437.5	1452.2	1470.0	1483.9	1494.0	1498.6	1497.1	1489.6	1475.7
7°	1406.0	1420.2	1433.3	1449.3	1468.2	1483.4	1494.3	1499.2	1497.6	1489.3	1474.4
7.5°	1399.8	1414.7	1428.9	1446.2	1466.4	1482.9	1494.3	1499.7	1497.9	1488.8	1473.1
8°	1393.3	1409.1	1424.3	1442.9	1464.3	1481.9	1494.3	1499.9	1498.1	1488.3	1471.3
8.5°	1386.9	1403.1	1419.4	1439.3	1462.0	1480.6	1494.0	1499.9	1497.9	1487.5	1469.5
9°	1380.1	1397.2	1414.5	1435.6	1459.7	1479.3	1493.2	1499.9	1497.6	1486.2	1467.7
9.5°	1372.9	1391.0	1409.3	1431.5	1456.8	1477.7	1492.7	1499.4	1497.3	1485.2	1465.3
10°	1365.9	1384.5	1403.9	1427.4	1454.0	1476.2	1491.7	1498.9	1496.6	1483.7	1463.0
10.5°	1358.5	1377.8	1398.2	1423.0	1450.6	1474.1	1490.6	1498.1	1495.8	1482.1	1460.4
11°	1351.2	1371.4	1392.5	1418.6	1447.3	1472.0	1489.3	1497.1	1494.5	1480.3	1457.6
11.5°	1343.2	1364.1	1386.6	1414.0	1443.9	1469.7	1487.8	1496.1	1493.5	1478.2	1454.8
12°	1335.5	1357.4	1380.4	1408.8	1440.3	1467.1	1486.2	1494.8	1491.9	1476.2	1451.7
12.5°	1327.5	1349.9	1373.9	1403.9	1436.4	1464.6	1484.2	1493.2	1490.4	1473.9	1448.3
13°	1319.2	1342.5	1367.5	1398.5	1432.3	1461.7	1482.1	1491.4	1488.6	1471.3	1444.9
13.5°	1311.0	1334.7	1360.8	1392.8	1428.2	1458.6	1480.1	1489.3	1486.5	1468.4	1441.1
14°	1302.4	1327.0	1353.8	1387.1	1423.5	1455.3	1477.5	1487.3	1484.2	1465.6	1437.2
14.5°	1293.7	1319.0	1346.6	1381.2	1418.9	1451.7	1474.9	1485.0	1481.6	1462.5	1433.1
15°	1284.9	1311.0	1339.6	1375.2	1414.0	1448.0	1472.0	1482.6	1479.3	1459.1	1429.2
15.5°	1275.8	1302.2	1331.9	1368.8	1408.8	1444.2	1469.0	1479.8	1476.4	1455.5	1424.5
16°	1266.8	1293.9	1324.4	1362.3	1403.4	1440.0	1465.6	1477.0	1473.3	1451.9	1419.9
16.5°	1257.3	1285.4	1316.4	1355.9	1398.2	1435.9	1462.2	1473.9	1470.0	1448.0	1415.3
17°	1248.0	1276.6	1308.6	1349.2	1392.5	1431.5	1458.6	1470.8	1466.9	1443.9	1410.3
17.5°	1238.4	1267.6	1300.4	1341.9	1386.6	1426.9	1454.8	1467.1	1463.3	1439.5	1405.2
18°	1228.9	1258.5	1292.1	1334.7	1380.7	1422.0	1450.9	1463.5	1459.4	1435.4	1400.0
18.5°	1218.8	1249.3	1283.6	1327.2	1374.5	1417.1	1446.7	1459.7	1455.5	1430.7	1394.3
19°	1208.7	1239.7	1275.1	1319.5	1368.0	1411.9	1442.4	1455.8	1451.4	1425.8	1388.9
19.5°	1198.9	1230.2	1266.0	1311.7	1361.6	1406.5	1437.7	1451.4	1447.0	1420.9	1383.2
20°	1188.8	1220.6	1257.3	1304.0	1354.6	1401.1	1433.1	1447.0	1442.6	1416.0	1377.3
20.5°	1178.3	1210.8	1248.2	1295.7	1347.6	1395.4	1428.2	1442.6	1438.0	1410.6	1371.1
21°	1167.9	1200.7	1238.9	1287.5	1340.4	1389.4	1423.0	1437.7	1433.1	1405.2	1364.9



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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°	1135.9	1170.3	1210.3	1261.4	1317.7	1370.6	1406.7	1422.5	1417.6	1387.9	1345.0
23°	1125.3	1159.9	1200.5	1252.6	1309.9	1363.9	1401.1	1417.1	1411.9	1382.0	1338.1
23.5°	1114.2	1149.1	1190.4	1243.3	1301.7	1356.9	1395.1	1411.6	1406.5	1375.8	1331.1
24°	1103.1	1139.0	1180.3	1233.8	1293.4	1350.2	1388.9	1405.7	1400.5	1369.3	1323.6
24.5°	1092.0	1128.2	1170.0	1224.2	1284.9	1342.7	1382.7	1399.8	1394.6	1362.8	1315.9
25°	1080.9	1117.1	1159.4	1214.7	1276.1	1335.5	1376.3	1393.8	1388.1	1356.4	1308.1
25.5°	1069.6	1106.2	1148.8	1204.6	1267.1	1327.7	1369.8	1387.4	1382.0	1349.7	1300.1
26°	1058.5	1095.4	1137.7	1194.5	1258.0	1319.7	1363.1	1381.2	1375.8	1342.7	1291.9
26.5°	1046.9	1084.3	1127.1	1183.9	1248.5	1311.7	1356.1	1374.7	1369.0	1335.5	1283.3
27°	1035.5	1072.9	1116.3	1173.9	1238.7	1303.7	1349.2	1368.3	1362.3	1328.3	1274.3
27.5°	1023.9	1061.6	1105.2	1163.3	1228.9	1294.9	1341.9	1361.6	1355.6	1321.0	1265.3
28°	1012.3	1050.2	1093.6	1152.2	1218.8	1286.2	1334.4	1354.3	1348.4	1313.5	1256.0
28.5°	1000.6	1038.9	1082.7	1141.1	1208.5	1277.1	1326.4	1347.6	1341.4	1305.3	1246.2
29°	988.8	1027.2	1071.4	1129.7	1197.9	1268.1	1318.7	1340.4	1334.2	1297.3	1236.3
29.5°	976.9	1015.6	1060.0	1118.6	1187.0	1258.3	1310.4	1333.2	1327.0	1288.8	1226.5
30°	965.3	1004.0	1047.6	1107.3	1176.2	1248.5	1302.2	1325.7	1319.2	1280.2	1216.5
30.5°	953.1	992.4	1036.3	1095.4	1165.4	1238.2	1293.4	1317.9	1311.7	1271.2	1205.9
31°	941.0	980.2	1024.4	1083.8	1154.0	1227.8	1284.4	1309.9	1304.0	1261.9	1195.3
31.5°	929.1	968.6	1012.5	1071.9	1142.4	1217.2	1275.3	1301.9	1296.2	1252.6	1184.7
32°	917.3	956.5	1000.1	1059.8	1130.8	1206.9	1265.8	1293.7	1288.0	1243.1	1173.6
32.5°	905.1	944.4	988.3	1048.1	1119.1	1195.8	1255.7	1284.9	1280.0	1233.0	1162.5
33°	893.0	932.5	975.9	1035.5	1107.3	1185.0	1245.6	1275.8	1271.2	1222.7	1150.9
33.5°	880.9	920.4	964.0	1023.4	1095.1	1173.6	1235.3	1266.8	1261.6	1212.1	1139.3
34°	868.7	908.2	951.3	1011.2	1083.0	1162.3	1225.0	1257.3	1251.6	1202.0	1127.1
34.5°	856.3	896.1	939.2	998.8	1070.3	1150.6	1214.4	1247.4	1241.8	1190.7	1115.0
35°	843.9	883.7	926.5	986.2	1058.2	1138.8	1203.6	1237.1	1232.0	1179.6	1102.6
35.5°	831.8	871.6	914.2	973.3	1045.6	1126.9	1192.5	1227.1	1222.1	1167.9	1089.5
36°	819.4	859.2	901.5	960.6	1032.9	1114.8	1181.1	1216.2	1211.6	1156.1	1076.5
36.5°	807.3	847.0	889.4	948.0	1020.3	1102.1	1169.5	1205.6	1200.5	1142.9	1062.9
37°	794.6	834.6	877.0	935.3	1007.4	1089.5	1157.6	1194.3	1188.8	1130.0	1049.2
37.5°	782.5	822.0	863.8	922.4	993.9	1076.8	1145.2	1182.9	1177.0	1116.6	1035.2
38°	769.8	809.6	851.4	909.3	980.8	1063.6	1132.6	1170.8	1163.8	1102.6	1021.0
38.5°	758.0	797.5	838.5	896.3	967.6	1050.2	1119.9	1158.1	1150.6	1088.2	1006.6
39°	745.6	784.8	825.9	882.9	954.2	1037.3	1106.7	1144.4	1137.0	1073.4	991.3
39.5°	732.9	772.7	813.2	870.5	940.7	1023.6	1093.6	1130.5	1122.0	1058.2	976.4
40°	720.3	760.3	800.6	857.4	927.6	1009.9	1079.4	1115.8	1107.3	1042.7	960.9
40.5°	708.4	747.9	787.9	843.9	913.6	995.7	1065.2	1101.3	1092.0	1026.7	945.1
41°	695.5	735.5	775.0	830.8	900.0	981.8	1050.2	1085.8	1076.5	1010.5	929.4
41.5°	683.4	723.1	762.6	817.9	886.3	967.6	1036.0	1070.9	1060.5	993.9	913.6
42°	671.0	710.5	750.0	804.4	872.3	952.9	1020.5	1054.9	1044.3	977.1	897.4
42.5°	658.8	698.3	737.1	791.3	858.4	938.4	1005.3	1039.6	1028.0	960.6	881.1
43°	646.4	685.9	724.4	778.4	844.7	924.0	989.5	1023.4	1011.5	942.8	864.6
43.5°	634.3	673.8	711.8	765.2	830.8	909.0	974.1	1007.1	994.4	925.5	848.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	597.1	636.9	674.1	725.7	788.4	863.3	925.8	957.0	942.8	872.9	797.5
45.5°	585.5	624.5	661.4	712.3	774.5	848.1	909.8	940.2	925.3	855.3	780.7
46°	573.1	612.4	649.0	699.1	760.3	832.3	893.0	923.2	907.7	837.7	763.4
46.5°	561.0	600.5	636.6	686.2	745.8	817.1	876.7	905.9	889.6	819.9	746.6
47°	548.9	588.1	624.2	673.0	731.6	801.3	860.2	888.3	871.8	802.1	729.6
47.5°	537.0	576.0	611.8	660.1	717.4	785.9	843.4	870.8	853.7	784.6	713.0
48°	524.8	563.8	599.5	647.0	703.5	770.4	826.6	853.5	835.9	767.0	696.3
48.5°	513.0	552.0	587.1	634.1	689.3	754.6	810.1	836.2	818.1	749.7	679.7
49°	501.1	540.1	574.9	621.1	675.1	739.1	793.3	818.4	799.8	731.9	663.5
49.5°	489.5	527.9	563.1	608.5	660.9	723.6	776.6	800.8	782.0	714.9	647.2
50°	477.3	516.3	550.7	595.8	646.7	708.1	759.8	783.0	764.2	697.3	631.0
50.5°	465.7	504.5	538.5	582.7	632.8	692.7	743.3	765.2	746.1	680.5	614.7
51°	454.1	492.6	526.7	569.8	618.6	676.9	726.5	747.9	728.5	663.5	599.2
51.5°	442.5	480.7	514.8	557.4	604.6	661.9	710.0	730.3	710.5	646.4	583.5
52°	431.1	469.1	503.2	545.0	590.9	646.4	693.7	712.8	692.9	629.9	568.0
52.5°	419.8	457.5	491.3	532.6	577.3	631.2	676.9	695.0	675.4	613.4	552.7
53°	408.2	446.1	479.4	519.7	563.6	616.0	660.4	677.7	658.3	597.1	537.5
53.5°	396.3	434.2	467.8	507.5	549.6	601.3	644.1	660.4	641.0	580.6	522.5
54°	385.2	423.1	456.4	495.2	536.2	586.0	627.9	643.3	623.5	564.9	507.8
54.5°	373.8	411.5	444.8	482.8	523.0	571.6	612.1	625.8	606.9	549.1	493.4
55°	362.7	400.7	433.5	470.9	509.6	557.1	596.4	609.8	590.7	533.6	479.2
55.5°	351.6	389.3	422.1	458.8	496.4	542.7	580.4	592.5	573.6	518.1	464.4
56°	340.5	378.5	411.0	446.6	483.0	527.9	564.3	576.0	557.4	502.6	450.8
56.5°	329.4	367.4	399.9	434.7	470.4	513.7	548.9	559.4	541.1	487.7	437.3
57°	318.6	356.5	388.8	423.1	457.7	499.8	533.6	543.2	525.1	473.0	423.6
57.5°	308.0	345.7	377.7	411.3	445.1	486.1	518.7	527.2	509.4	458.5	410.5
58°	297.1	335.1	366.9	399.6	432.4	472.2	503.4	511.4	494.1	444.3	397.6
58.5°	286.8	324.5	356.3	388.3	420.3	458.8	488.7	495.9	478.6	429.8	384.7
59°	276.5	314.4	345.7	377.2	407.9	445.3	474.0	480.7	463.4	416.2	372.3
59.5°	266.2	303.9	334.6	366.1	396.0	432.2	459.5	465.7	448.7	402.5	359.9
60°	256.4	293.8	324.3	355.2	384.1	419.0	445.3	451.0	434.5	389.3	347.7
60.5°	246.3	283.5	313.7	344.1	372.5	406.3	431.1	436.3	419.8	376.1	335.6
61°	236.5	273.7	303.6	333.5	361.2	393.7	417.5	422.1	406.1	363.2	324.3
61.5°	226.9	263.8	293.3	323.0	350.3	381.3	404.0	408.2	392.2	350.6	312.9
62°	217.6	254.3	283.7	312.9	339.0	369.2	390.6	394.5	379.2	338.7	301.8
62.5°	208.1	244.7	273.9	302.6	328.4	357.0	377.4	380.8	365.8	326.3	290.7
63°	199.3	235.4	264.4	292.8	317.5	345.2	364.5	367.6	352.7	314.4	280.1
63.5°	190.5	226.2	254.8	283.2	307.2	333.5	351.9	354.7	340.3	302.8	269.5
64°	182.0	216.9	246.0	273.7	296.9	322.2	339.5	342.3	327.9	292.2	259.5
64.5°	173.2	207.8	236.7	264.1	287.1	311.1	327.4	329.9	315.7	280.9	249.6
65°	165.2	199.3	228.0	255.1	277.0	300.2	315.7	317.8	304.4	270.3	240.1
65.5°	157.0	190.8	219.2	246.3	267.5	289.4	304.1	306.2	292.5	259.5	230.5
66°	149.0	182.3	210.9	237.5	258.2	278.8	292.8	294.6	280.4	249.4	221.5





TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	127.3	158.0	186.1	211.7	231.3	248.9	260.7	261.8	246.0	220.5	194.9
68°	120.8	150.5	178.6	203.7	223.1	239.1	250.2	250.9	235.2	210.9	186.9
68.5°	114.9	143.0	170.9	195.7	214.8	229.8	240.4	240.6	224.9	201.4	178.9
69°	109.2	135.8	163.4	187.9	206.3	221.0	230.8	230.8	214.5	191.8	171.2
69.5°	104.3	128.8	156.2	180.2	198.0	212.2	221.8	221.2	204.2	182.8	163.7
70°	101.2	122.1	149.0	172.7	189.8	203.7	212.7	211.7	193.9	174.3	156.2
70.5°	99.4	115.7	142.2	165.2	181.7	194.9	203.7	202.4	185.1	165.7	149.2
71°	97.6	110.0	135.5	158.3	174.3	186.7	194.7	192.8	176.3	157.7	142.2
71.5°	95.8	104.6	129.3	151.0	166.8	178.6	186.4	183.8	167.3	150.0	135.5
72°	94.0	100.2	123.1	144.3	159.5	171.2	178.1	175.3	159.0	142.5	129.1
72.5°	91.6	97.1	117.2	137.9	152.6	163.4	170.1	167.0	151.0	135.3	122.6
73°	89.3	94.7	111.8	131.4	145.6	156.2	162.9	159.0	143.3	128.0	116.4
73.5°	87.3	92.7	106.4	125.2	138.9	149.0	155.2	151.3	135.8	121.1	110.5
74°	84.9	90.6	101.5	119.3	132.4	142.5	147.9	143.8	128.8	114.4	104.6
74.5°	82.9	88.8	96.6	113.6	126.2	135.8	141.0	136.6	121.9	107.9	98.9
75°	80.3	86.7	92.2	108.2	120.0	129.3	134.5	129.6	115.1	101.7	93.5
75.5°	77.7	84.7	89.1	102.7	114.1	122.9	127.5	122.9	108.7	95.5	88.0
76°	74.9	82.4	86.0	97.8	108.7	116.9	121.3	116.2	102.2	89.6	82.6
76.5°	71.8	79.8	82.9	92.9	103.0	111.3	115.1	109.7	96.3	83.6	77.4
77°	68.9	77.2	79.5	88.8	97.8	105.6	109.2	103.3	90.1	78.0	72.5
77.5°	65.8	74.6	77.2	84.9	92.9	100.2	103.3	97.3	84.2	72.3	67.6
78°	62.7	71.8	75.1	81.1	88.0	94.7	97.6	91.4	78.2	66.9	62.5
78.5°	59.4	69.2	73.1	77.2	83.4	89.8	92.2	85.7	72.3	61.4	57.8
79°	56.0	66.1	70.7	73.3	79.0	84.9	86.7	80.0	66.3	56.0	53.2
79.5°	52.7	63.3	68.4	70.0	74.6	80.3	81.6	74.4	60.7	50.9	48.5
80°	49.3	60.2	65.8	66.6	70.5	75.6	76.7	68.9	55.0	46.0	44.1
80.5°	45.7	57.1	63.3	63.8	66.6	71.3	71.8	64.0	49.3	40.8	40.0
81°	42.1	53.7	60.7	60.9	62.7	66.9	66.9	58.6	43.6	36.1	35.9
81.5°	38.5	50.6	57.8	58.1	59.1	62.7	62.2	53.7	38.0	31.5	31.8
82°	34.9	47.0	55.0	55.2	55.5	58.6	57.3	48.8	32.3	27.6	27.9
82.5°	31.2	43.6	52.1	52.7	52.1	54.7	52.7	44.1	27.9	24.0	24.5
83°	27.1	40.0	49.3	49.8	48.8	50.6	48.3	39.5	23.2	20.4	21.2
83.5°	23.2	36.4	46.2	47.5	45.4	46.7	43.9	35.4	18.6	16.8	17.8
84°	19.4	32.8	43.4	44.9	42.1	42.9	39.8	31.0	14.2	13.2	14.5
84.5°	15.7	29.2	40.3	42.3	39.0	39.2	35.9	27.4	9.6	10.6	11.4
85°	12.4	25.6	37.4	39.8	35.9	35.6	32.0	23.8	7.7	8.3	8.3
85.5°	10.1	22.2	34.6	37.2	33.0	32.3	28.4	20.4	6.2	5.9	5.9
86°	8.8	19.4	31.8	34.3	30.2	28.9	25.3	16.8	5.2	3.9	3.6
86.5°	7.2	17.0	28.9	31.5	27.4	25.8	21.9	13.2	4.1	2.1	2.1
87°	5.9	15.0	26.1	28.4	24.8	22.7	18.6	10.3	3.1	1.0	0.8
87.5°	4.6	12.9	23.0	25.6	21.9	19.6	15.2	7.5	2.6	0.5	0.0
88°	3.4	10.8	20.1	22.5	19.1	16.5	11.9	5.2	1.5	0.3	0.0
88.5°	2.1	8.8	17.0	19.6	16.5	13.4	9.0	3.1	0.8	0.0	0.0



TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	2.8	8.5	9.8	7.7	5.7	2.1	0.3	0.0	0.0	0.0



TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6
0.5°	1472.0	1472.6	1470.2	1468.7	1468.2	1468.4
1°	1472.0	1471.3	1467.9	1465.3	1464.3	1464.6
1.5°	1471.8	1469.7	1465.1	1461.7	1460.4	1460.9
2°	1471.3	1467.9	1462.2	1458.1	1456.3	1456.8
2.5°	1470.5	1466.1	1459.1	1454.5	1452.2	1452.7
3°	1469.7	1464.0	1455.8	1450.1	1447.8	1448.0
3.5°	1468.4	1461.7	1452.4	1446.0	1443.1	1443.7
4°	1467.4	1459.1	1448.8	1441.3	1438.0	1438.7
4.5°	1465.9	1456.6	1444.7	1436.7	1432.8	1433.8
5°	1464.0	1453.5	1440.8	1431.8	1427.6	1428.7
5.5°	1462.2	1450.4	1436.4	1426.6	1422.2	1423.3
6°	1460.2	1447.3	1431.8	1421.2	1416.5	1417.6
6.5°	1457.9	1443.7	1427.4	1415.8	1410.6	1411.9
7°	1455.3	1440.0	1422.5	1410.1	1404.4	1406.0
7.5°	1452.7	1436.2	1417.3	1404.2	1398.2	1399.8
8°	1449.8	1432.0	1412.2	1398.0	1391.5	1393.3
8.5°	1446.7	1427.9	1406.5	1391.8	1384.8	1386.9
9°	1443.7	1423.3	1401.1	1385.3	1378.1	1380.1
9.5°	1440.0	1418.6	1394.9	1378.6	1370.8	1372.9
10°	1436.4	1413.7	1388.9	1371.6	1363.6	1365.9
10.5°	1432.8	1408.8	1382.7	1364.7	1356.4	1358.5
11°	1428.7	1403.4	1376.3	1357.4	1348.6	1351.2
11.5°	1424.5	1398.2	1369.8	1350.2	1340.9	1343.2
12°	1420.2	1392.3	1362.8	1342.5	1332.9	1335.5
12.5°	1415.8	1386.6	1355.9	1334.4	1324.9	1327.5
13°	1410.9	1380.7	1348.6	1326.7	1316.6	1319.2
13.5°	1406.0	1374.5	1341.4	1318.4	1307.9	1311.0
14°	1400.8	1368.0	1333.7	1310.2	1299.6	1302.4
14.5°	1395.6	1361.6	1326.2	1301.7	1290.8	1293.7
15°	1390.2	1354.8	1318.2	1293.1	1281.8	1284.9
15.5°	1384.5	1347.6	1309.9	1284.1	1272.7	1275.8
16°	1378.6	1340.6	1301.7	1275.3	1263.5	1266.8
16.5°	1372.7	1333.7	1293.4	1266.3	1254.2	1257.3
17°	1366.5	1325.9	1284.9	1257.0	1244.3	1248.0
17.5°	1360.3	1318.2	1275.8	1247.4	1234.5	1238.4
18°	1353.6	1310.4	1267.1	1237.9	1225.0	1228.9
18.5°	1347.1	1302.4	1257.8	1228.1	1214.9	1218.8
19°	1340.1	1294.2	1248.5	1218.3	1204.9	1208.7
19.5°	1333.2	1285.9	1238.9	1207.9	1194.5	1198.9
20°	1325.9	1276.9	1229.1	1197.9	1184.5	1188.8
20.5°	1318.4	1268.1	1219.3	1187.6	1174.1	1178.3
21°	1310.4	1258.8	1209.2	1177.0	1163.5	1167.9



TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1286.4	1230.7	1177.7	1144.4	1131.0	1135.9
23°	1277.7	1220.3	1166.9	1133.3	1120.2	1125.3
23.5°	1268.9	1210.5	1155.8	1122.0	1109.1	1114.2
24°	1259.6	1199.9	1144.7	1110.6	1097.7	1103.1
24.5°	1250.5	1189.4	1133.3	1099.0	1086.4	1092.0
25°	1240.7	1178.3	1121.7	1087.4	1074.7	1080.9
25.5°	1231.2	1167.7	1110.4	1075.8	1063.4	1069.6
26°	1220.9	1156.8	1098.2	1063.9	1051.8	1058.5
26.5°	1210.8	1145.7	1086.9	1051.8	1039.9	1046.9
27°	1200.5	1133.9	1074.5	1039.9	1028.3	1035.5
27.5°	1189.9	1122.5	1062.6	1027.7	1016.4	1023.9
28°	1179.0	1110.6	1050.0	1015.4	1004.3	1012.3
28.5°	1168.4	1099.0	1038.1	1003.2	992.1	1000.6
29°	1157.1	1087.1	1025.4	990.8	980.2	988.8
29.5°	1145.7	1075.0	1013.3	978.4	968.1	976.9
30°	1134.6	1062.6	1000.4	966.0	956.0	965.3
30.5°	1123.3	1050.2	987.7	953.4	943.6	953.1
31°	1111.4	1037.8	974.8	940.7	931.5	941.0
31.5°	1099.3	1025.2	962.2	928.1	919.1	929.1
32°	1087.1	1012.3	949.3	915.2	906.7	917.3
32.5°	1074.7	999.6	936.1	903.1	894.0	905.1
33°	1062.3	986.7	923.2	889.9	881.9	893.0
33.5°	1049.4	973.8	910.3	877.2	869.2	880.9
34°	1036.5	960.4	897.4	864.1	856.8	868.7
34.5°	1023.6	946.9	884.2	851.2	844.5	856.3
35°	1010.5	933.5	870.5	838.5	831.8	843.9
35.5°	996.8	920.4	857.4	825.6	819.4	831.8
36°	983.1	906.9	844.5	812.7	806.8	819.4
36.5°	969.4	893.0	831.3	800.0	794.4	807.3
37°	955.2	879.0	817.9	786.9	782.0	794.6
37.5°	941.0	865.4	804.4	774.0	769.3	782.5
38°	926.3	851.4	791.0	761.1	756.7	769.8
38.5°	912.6	837.5	777.8	748.4	744.3	758.0
39°	897.6	823.5	764.7	735.5	731.9	745.6
39.5°	882.7	809.3	751.3	723.1	719.5	732.9
40°	867.9	795.1	737.8	710.0	706.6	720.3
40.5°	853.0	780.9	724.4	697.3	694.5	708.4
41°	838.0	767.0	711.2	684.4	682.1	695.5
41.5°	823.0	752.8	697.8	672.0	669.7	683.4
42°	808.1	738.9	684.7	659.6	657.0	671.0
42.5°	793.1	724.9	671.5	646.7	645.2	658.8
43°	777.3	710.7	658.6	634.3	633.0	646.4
43.5°	762.1	696.5	645.2	621.7	620.4	634.3



TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	716.1	654.4	606.4	584.7	584.0	597.1
45.5°	701.2	641.0	593.8	572.3	571.8	585.5
46°	685.4	627.3	581.1	560.5	560.0	573.1
46.5°	670.5	613.4	568.5	548.3	547.8	561.0
47°	655.0	599.7	555.6	536.5	536.2	548.9
47.5°	639.7	586.0	542.9	524.3	524.3	537.0
48°	624.5	572.6	530.5	512.2	512.5	524.8
48.5°	609.5	558.9	517.9	500.6	500.6	513.0
49°	594.8	545.8	506.0	489.0	489.0	501.1
49.5°	579.8	532.6	493.6	476.8	477.6	489.5
50°	564.6	519.2	481.2	465.2	466.2	477.3
50.5°	549.9	506.0	469.1	453.9	454.4	465.7
51°	535.9	492.8	457.5	442.5	443.0	454.1
51.5°	521.2	479.9	445.8	430.6	431.9	442.5
52°	507.0	467.3	434.0	420.0	420.8	431.1
52.5°	492.8	454.6	422.4	408.7	409.7	419.8
53°	479.2	441.7	411.3	397.6	398.6	408.2
53.5°	465.2	429.6	399.9	386.5	387.5	396.3
54°	452.3	416.9	388.8	375.9	376.7	385.2
54.5°	438.9	405.1	378.0	365.3	366.1	373.8
55°	425.7	392.9	367.1	354.7	355.5	362.7
55.5°	412.5	381.6	356.5	344.4	344.9	351.6
56°	400.2	369.7	345.9	334.3	334.3	340.5
56.5°	387.8	358.8	335.9	324.3	324.0	329.4
57°	375.6	347.2	325.5	314.2	313.7	318.6
57.5°	363.8	336.4	315.5	304.4	303.3	308.0
58°	351.9	325.5	305.7	294.8	293.8	297.1
58.5°	340.3	315.2	295.9	285.3	283.5	286.8
59°	328.9	304.6	286.6	276.2	273.9	276.5
59.5°	317.8	294.8	277.0	266.9	264.1	266.2
60°	307.0	284.5	267.7	258.2	254.8	256.4
60.5°	296.1	274.9	258.7	248.9	245.3	246.3
61°	286.0	265.4	249.6	240.4	236.2	236.5
61.5°	275.7	256.1	241.1	231.8	227.2	226.9
62°	265.9	247.1	232.3	223.6	218.7	217.6
62.5°	256.1	238.0	223.6	215.1	209.9	208.1
63°	246.5	229.2	215.3	206.8	201.6	199.3
63.5°	237.5	221.0	207.0	198.8	193.4	190.5
64°	228.5	212.2	199.0	190.8	185.4	182.0
64.5°	220.0	204.5	191.0	183.0	177.6	173.2
65°	211.7	196.5	183.6	175.3	170.1	165.2
65.5°	203.2	188.7	175.8	167.8	162.6	157.0
66°	194.7	181.0	168.3	160.3	155.4	149.0



TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	171.7	159.5	147.4	139.4	134.0	127.3
68°	164.2	152.6	141.0	133.0	127.0	120.8
68.5°	157.2	145.9	134.5	126.8	120.3	114.9
69°	150.3	139.4	128.3	120.8	113.9	109.2
69.5°	143.5	133.0	122.4	114.9	107.7	104.3
70°	137.1	127.0	116.7	109.5	102.0	101.2
70.5°	130.9	121.1	111.0	104.6	97.1	99.4
71°	124.4	115.4	105.6	99.7	93.2	97.6
71.5°	118.5	109.7	100.7	95.0	91.4	95.8
72°	112.8	104.3	95.8	91.4	89.3	94.0
72.5°	107.4	99.1	92.7	87.8	87.5	91.6
73°	101.7	94.2	88.3	84.2	85.5	89.3
73.5°	96.6	89.8	83.9	80.8	83.4	87.3
74°	91.6	85.5	79.5	77.2	80.8	84.9
74.5°	86.7	81.1	75.1	74.6	78.5	82.9
75°	81.8	76.7	71.5	72.0	75.9	80.3
75.5°	77.4	72.0	68.2	69.7	73.1	77.7
76°	72.8	68.2	64.8	67.4	70.2	74.9
76.5°	68.4	64.3	61.4	65.1	67.4	71.8
77°	64.3	60.4	58.6	62.5	64.3	68.9
77.5°	60.2	56.8	55.5	59.6	61.4	65.8
78°	56.0	53.2	52.7	57.1	58.3	62.7
78.5°	51.9	49.6	49.6	54.2	55.0	59.4
79°	48.0	46.2	46.7	51.4	51.6	56.0
79.5°	44.1	42.6	44.1	48.5	48.3	52.7
80°	40.5	39.5	41.6	45.4	44.7	49.3
80.5°	36.9	36.4	39.0	42.6	41.3	45.7
81°	33.3	33.3	36.4	39.5	38.0	42.1
81.5°	29.9	30.5	33.8	36.4	34.3	38.5
82°	26.8	27.4	31.0	33.6	31.0	34.9
82.5°	23.8	24.5	28.1	30.5	27.6	31.2
83°	20.4	21.9	25.0	27.6	24.3	27.1
83.5°	17.3	19.1	22.2	24.8	21.2	23.2
84°	14.2	16.3	19.1	21.9	18.3	19.4
84.5°	11.1	13.4	16.0	19.1	15.7	15.7
85°	8.3	10.6	12.9	16.0	13.7	12.4
85.5°	5.7	8.0	9.6	12.9	11.6	10.1
86°	3.4	5.4	7.2	9.8	9.6	8.8
86.5°	1.3	2.8	4.9	7.5	7.7	7.2
87°	0.0	0.5	2.6	5.2	5.9	5.9
87.5°	0.0	0.0	0.3	2.6	3.9	4.6
88°	0.0	0.0	0.0	0.3	2.1	3.4
88.5°	0.0	0.0	0.0	0.3	0.5	2.1



TEST NUMBER: P775939

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRH-HCD41TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.3	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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Scaled Data Report





21.5°	1157.3	1190.7	1229.4	1278.9	1333.2	1383.2	1417.8	1432.8	1428.2	1399.5	1358.5
22°	1146.8	1180.6	1220.1	1270.4	1325.4	1377.0	1412.4	1427.9	1423.0	1393.8	1351.7



44°	621.7	661.4	699.1	751.8	816.3	893.8	958.0	990.3	977.4	908.0	830.8
44.5°	609.8	649.0	686.5	738.6	802.4	878.5	942.0	973.8	960.4	890.9	814.2



66.5°	141.5	173.7	202.4	228.7	248.9	268.5	281.7	283.5	268.5	239.6	212.7
67°	134.2	165.7	194.1	220.5	239.8	258.7	271.1	272.6	257.4	230.0	203.9



89°	0.8	6.7	13.7	16.3	13.7	10.8	6.2	1.5	0.3	0.0	0.0
89.5°	0.3	4.9	10.6	13.2	10.6	8.0	3.9	0.8	0.0	0.0	0.0



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21.5°	1302.4	1249.8	1198.9	1166.4	1152.7	1157.3
22°	1294.7	1240.2	1188.1	1155.5	1142.1	1146.8



44°	746.6	682.6	632.5	609.5	608.2	621.7
44.5°	731.9	668.6	619.3	596.9	596.1	609.8



66.5°	186.9	173.5	161.4	153.3	147.9	141.5
67°	179.2	166.3	154.1	146.4	141.0	134.2

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89°	0.0	0.0	0.0	0.3	0.3	0.8
89.5°	0.0	0.0	0.0	0.3	0.3	0.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)