

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: P776038

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B041)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K  
Description: 6 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3079.9 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

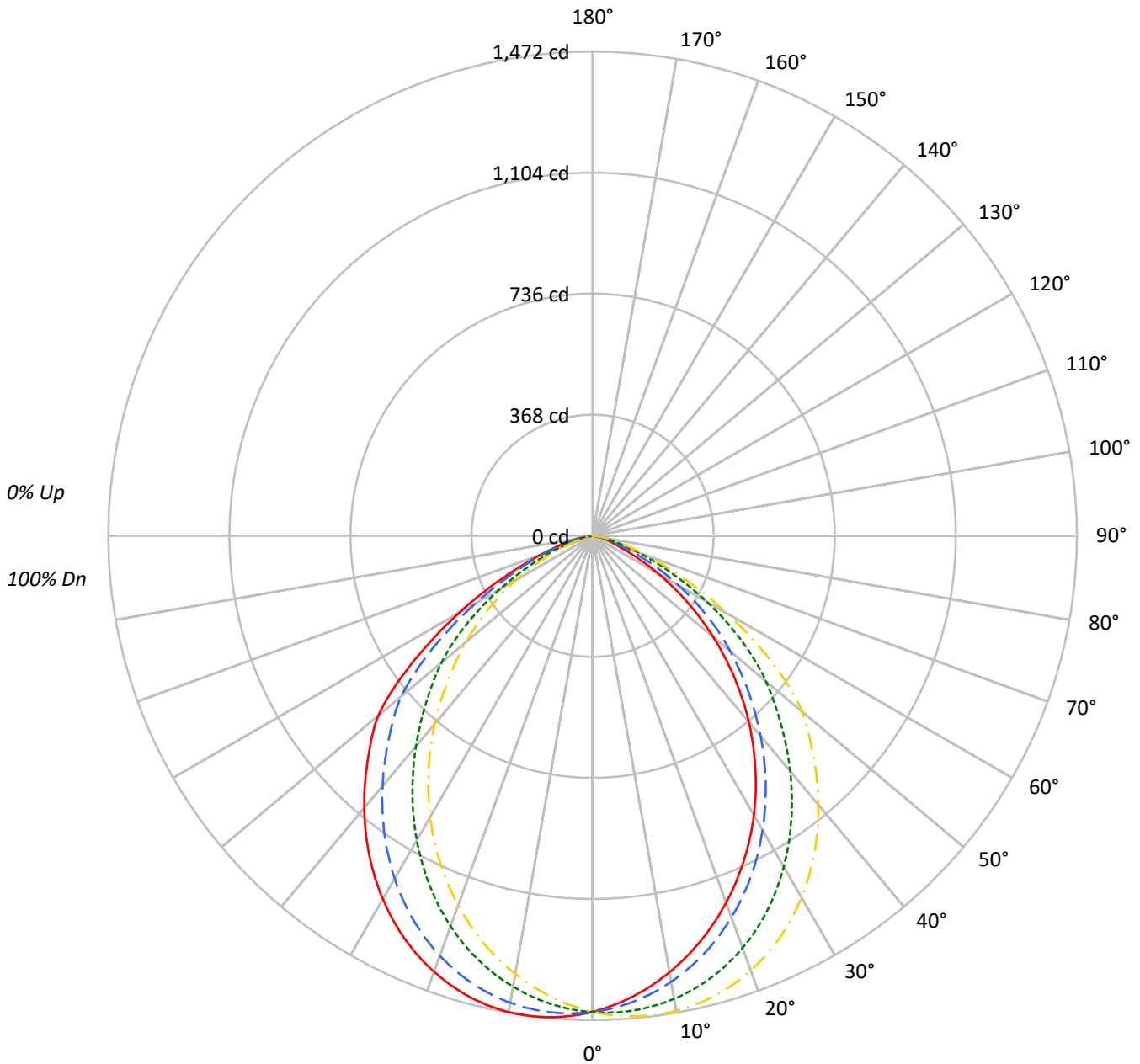
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**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			
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	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	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66					66			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58					58			
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51					51			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

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

	0°	90°	180°	270°
0°	79352	79352	79352	79352
5°	77361	79699	80844	78665
10°	74987	79558	81840	77492
15°	72282	78951	82310	75835
20°	69259	77771	82263	73664
25°	65859	75990	81761	70915
30°	62048	73556	80734	67662
35°	57721	70483	79230	63898
40°	52820	66854	77295	59755
45°	47253	62766	74969	55393
50°	40852	58633	72492	51137
55°	33557	52490	63453	44596
60°	25371	43856	51356	35765
65°	16655	33635	38422	26384
70°	11044	23562	26527	17775
75°	8832	15187	18427	11247
80°	6503	9313	11081	6661
85°	3522	5409	2390	3837

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 75481 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	4.4
10°-20°	383.7	12.5
20°-30°	559.9	18.2
30°-40°	633.7	20.6
40°-50°	599.6	19.5
50°-60°	455.2	14.8
60°-70°	228.1	7.4
70°-80°	72.2	2.3
80°-90°	11.0	0.4
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°	1080.0	35.1
0°-40°	1713.7	55.6
0°-60°	2768.6	89.9
0°-90°	3079.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1448	1448	1448	1448	1448	
5°	1406	1448	1469	1430	1406	132
15°	1274	1391	1450	1336	1274	358
25°	1089	1256	1352	1172	1089	500
35°	862	1053	1184	955	862	538
45°	610	810	967	714	610	469
55°	351	549	664	467	351	314
65°	128	259	296	203	128	133
75°	42	72	87	53	42	45
85°	6	9	4	6	6	8
90°	0	0	0	0	0	

TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5
0.5°	1444.0	1445.0	1446.0	1446.8	1449.1	1449.3	1449.8	1450.1	1450.3	1450.3	1449.3
1°	1440.4	1442.2	1444.0	1446.3	1449.8	1451.1	1452.4	1453.1	1453.1	1452.6	1450.6
1.5°	1436.8	1439.1	1441.9	1445.2	1450.3	1452.9	1454.9	1455.9	1455.9	1454.6	1451.8
2°	1433.0	1435.8	1439.6	1444.2	1450.6	1454.1	1456.9	1458.5	1458.2	1456.7	1452.6
2.5°	1428.7	1432.3	1437.1	1442.9	1450.6	1455.4	1459.0	1460.7	1460.7	1458.5	1453.6
3°	1424.6	1428.7	1434.3	1441.4	1450.6	1456.4	1461.0	1463.0	1462.5	1459.7	1454.1
3.5°	1420.3	1424.9	1431.5	1439.6	1450.3	1457.4	1462.5	1465.1	1464.6	1461.0	1454.4
4°	1415.5	1420.8	1428.5	1437.9	1449.8	1458.0	1464.1	1466.9	1466.3	1462.3	1454.6
4.5°	1410.9	1416.5	1425.2	1435.8	1449.3	1458.5	1465.3	1468.6	1467.9	1463.0	1454.6
5°	1405.8	1412.2	1421.6	1433.5	1448.3	1458.7	1466.3	1469.9	1469.1	1463.8	1454.4
5.5°	1400.7	1407.4	1418.0	1431.0	1447.3	1459.0	1467.1	1471.2	1470.2	1464.3	1454.1
6°	1395.4	1402.5	1414.0	1428.5	1446.0	1458.7	1467.9	1472.2	1470.9	1464.6	1453.4
6.5°	1390.1	1397.7	1410.1	1425.7	1444.7	1458.5	1468.4	1473.0	1471.7	1464.6	1452.6
7°	1384.5	1392.6	1405.8	1422.6	1442.9	1458.0	1468.6	1473.5	1471.9	1464.6	1451.6
7.5°	1378.6	1387.3	1401.5	1419.3	1441.2	1457.2	1468.6	1473.7	1472.2	1464.1	1450.3
8°	1372.5	1381.7	1396.9	1415.7	1439.1	1456.4	1468.6	1474.0	1472.2	1463.5	1449.1
8.5°	1366.4	1376.1	1392.1	1412.2	1437.1	1455.4	1468.4	1474.0	1471.9	1462.8	1447.3
9°	1360.3	1370.5	1387.0	1408.4	1434.6	1454.4	1467.6	1473.7	1471.7	1462.0	1445.5
9.5°	1353.7	1364.4	1381.9	1404.6	1432.0	1452.9	1467.1	1473.2	1470.9	1460.7	1443.7
10°	1347.1	1358.3	1376.8	1400.2	1429.2	1451.3	1466.1	1472.4	1470.2	1459.5	1441.4
10.5°	1340.5	1351.9	1371.2	1395.9	1426.4	1449.3	1465.1	1471.7	1469.1	1457.7	1439.1
11°	1333.6	1345.6	1365.4	1391.3	1423.1	1447.3	1463.8	1470.7	1467.6	1456.2	1436.6
11.5°	1326.5	1339.0	1359.6	1386.5	1419.8	1445.2	1462.3	1469.1	1466.3	1454.1	1433.8
12°	1319.4	1332.1	1353.7	1381.4	1416.3	1442.7	1460.5	1467.9	1464.6	1452.1	1431.0
12.5°	1312.0	1325.2	1347.3	1376.6	1412.7	1440.2	1458.5	1466.1	1462.8	1449.8	1427.7
13°	1304.6	1318.1	1341.0	1371.0	1408.6	1437.4	1456.4	1464.1	1460.7	1447.3	1424.4
13.5°	1297.0	1311.0	1334.4	1365.7	1404.6	1434.6	1454.1	1462.0	1458.2	1444.5	1421.1
14°	1289.4	1303.6	1327.8	1360.1	1400.2	1431.3	1451.6	1459.7	1455.9	1441.4	1417.3
14.5°	1281.5	1296.2	1320.9	1354.2	1395.7	1427.9	1448.8	1457.2	1453.1	1438.4	1413.5
15°	1273.6	1288.4	1313.8	1347.9	1391.1	1424.1	1446.0	1454.4	1450.3	1435.1	1409.4
15.5°	1265.5	1280.5	1306.4	1341.8	1386.0	1420.6	1442.9	1451.6	1447.3	1431.5	1405.1
16°	1257.3	1272.6	1299.3	1335.1	1380.9	1416.5	1439.6	1448.3	1443.7	1427.7	1400.5
16.5°	1248.9	1264.5	1291.7	1328.8	1375.8	1412.4	1436.1	1445.0	1440.4	1423.9	1395.9
17°	1240.3	1256.3	1283.8	1321.7	1370.5	1408.1	1432.5	1441.7	1436.6	1419.8	1391.1
17.5°	1231.9	1247.9	1275.9	1314.8	1364.6	1403.5	1428.5	1437.9	1432.8	1415.5	1386.2
18°	1223.0	1239.3	1268.0	1307.7	1358.5	1399.0	1424.4	1433.8	1428.5	1410.9	1380.9
18.5°	1214.4	1230.9	1259.6	1300.3	1352.7	1393.9	1420.1	1429.7	1424.4	1406.1	1375.6
19°	1205.2	1222.0	1251.5	1292.7	1346.3	1388.8	1415.5	1425.4	1419.8	1401.2	1370.0
19.5°	1196.1	1213.3	1242.8	1284.8	1340.0	1383.5	1410.9	1420.8	1415.0	1396.4	1364.1
20°	1187.2	1204.2	1234.5	1277.2	1333.1	1377.9	1406.3	1416.0	1410.1	1391.1	1358.3
20.5°	1177.5	1195.0	1225.6	1269.0	1326.2	1372.0	1401.2	1411.2	1405.1	1385.5	1351.9
21°	1168.1	1185.6	1216.7	1260.9	1319.4	1366.4	1395.9	1406.1	1400.0	1379.9	1345.8



TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1139.4	1157.2	1188.9	1235.0	1297.3	1347.3	1378.9	1389.8	1383.2	1362.1	1326.0
23°	1129.4	1147.2	1179.5	1226.1	1289.4	1340.7	1373.0	1384.0	1377.1	1355.7	1318.9
23.5°	1119.5	1137.6	1170.1	1216.9	1281.5	1333.9	1366.9	1377.9	1371.0	1349.1	1311.7
24°	1109.4	1127.7	1160.2	1207.8	1273.4	1326.8	1360.3	1371.8	1364.9	1342.3	1304.4
24.5°	1098.9	1117.5	1150.0	1198.1	1265.0	1319.4	1353.7	1365.4	1358.0	1335.4	1296.7
25°	1088.8	1107.1	1140.1	1188.7	1256.3	1312.3	1347.1	1358.8	1351.7	1328.5	1289.1
25.5°	1078.3	1096.9	1130.2	1179.0	1247.7	1304.4	1340.2	1352.2	1344.5	1321.4	1281.2
26°	1067.9	1086.5	1120.0	1169.1	1239.0	1296.5	1333.1	1345.3	1337.7	1313.8	1273.4
26.5°	1057.2	1076.0	1109.1	1158.9	1229.9	1288.6	1325.7	1337.9	1330.3	1306.4	1265.2
27°	1046.6	1065.4	1098.9	1149.0	1220.5	1280.5	1318.1	1330.8	1323.2	1298.5	1256.8
27.5°	1035.6	1054.4	1088.3	1138.6	1211.3	1272.1	1310.7	1323.4	1315.6	1290.9	1248.4
28°	1024.7	1043.5	1077.6	1128.2	1201.7	1263.4	1302.8	1315.8	1307.7	1283.0	1239.5
28.5°	1013.8	1032.6	1066.4	1117.5	1192.0	1254.8	1294.7	1307.9	1299.8	1274.6	1230.9
29°	1002.8	1021.9	1055.5	1107.1	1182.3	1246.1	1286.6	1300.3	1291.7	1266.2	1222.0
29.5°	991.6	1010.7	1044.5	1096.4	1172.2	1236.7	1278.4	1291.9	1283.5	1257.8	1212.8
30°	980.2	999.3	1033.6	1085.5	1162.0	1227.8	1269.8	1283.8	1275.4	1249.2	1203.4
30.5°	968.7	988.1	1021.9	1074.3	1151.8	1218.2	1260.9	1275.4	1267.0	1240.3	1194.0
31°	957.3	976.6	1010.7	1063.3	1141.4	1208.5	1252.0	1267.0	1258.4	1231.4	1184.6
31.5°	945.9	965.2	999.0	1051.9	1130.7	1198.6	1243.1	1258.1	1249.2	1222.2	1174.7
32°	934.2	953.7	987.6	1040.4	1119.8	1189.2	1233.9	1249.2	1240.6	1213.1	1165.0
32.5°	922.5	942.0	975.9	1029.3	1109.1	1179.0	1224.8	1240.0	1231.7	1203.7	1155.1
33°	910.5	930.1	964.4	1017.8	1098.4	1168.6	1215.1	1230.9	1222.2	1194.3	1145.2
33.5°	898.8	918.4	952.5	1005.9	1087.2	1158.4	1205.5	1221.7	1212.8	1184.6	1135.3
34°	886.9	906.7	940.8	994.4	1076.0	1148.0	1195.6	1212.3	1203.2	1174.7	1124.6
34.5°	874.7	894.8	928.6	982.5	1064.3	1137.1	1185.6	1202.4	1193.5	1164.8	1114.2
35°	862.5	882.6	916.9	970.5	1053.2	1126.4	1175.7	1192.8	1183.9	1154.9	1103.8
35.5°	850.5	870.6	904.4	958.8	1041.7	1115.7	1165.3	1182.8	1174.2	1145.0	1093.3
36°	838.3	858.4	892.7	946.9	1030.0	1104.5	1155.1	1172.9	1164.3	1134.5	1082.4
36.5°	826.1	846.2	880.5	934.7	1018.3	1093.3	1144.7	1162.8	1153.9	1124.6	1071.7
37°	813.6	833.7	867.8	922.5	1006.4	1082.1	1134.0	1152.3	1143.7	1113.9	1060.8
37.5°	801.2	821.5	855.9	910.3	994.4	1070.7	1123.1	1141.9	1133.3	1103.5	1049.6
38°	788.5	809.1	843.6	898.1	982.7	1059.3	1112.4	1131.5	1122.8	1092.6	1038.4
38.5°	776.3	796.9	831.2	885.9	970.5	1047.6	1101.2	1120.8	1112.4	1082.1	1027.7
39°	764.1	784.2	819.0	873.4	958.6	1035.9	1090.3	1110.1	1101.5	1071.2	1016.3
39.5°	751.1	771.9	806.5	861.2	946.6	1024.2	1079.1	1099.2	1091.0	1060.3	1005.1
40°	738.1	759.2	794.3	848.7	934.2	1012.2	1067.7	1088.3	1080.1	1049.3	993.4
40.5°	725.7	746.5	781.4	836.3	921.5	1000.5	1056.2	1077.1	1068.9	1038.4	982.2
41°	713.0	733.8	769.1	823.8	909.2	988.1	1044.5	1065.9	1058.0	1027.0	970.5
41.5°	700.0	721.3	756.4	811.1	897.3	976.1	1033.1	1054.7	1047.1	1016.0	959.1
42°	687.0	708.4	744.0	798.9	884.3	963.9	1021.4	1043.2	1035.6	1004.6	947.4
42.5°	674.3	695.9	731.8	786.4	872.4	952.0	1009.7	1031.8	1024.4	993.4	935.7
43°	661.6	683.2	719.1	774.0	859.7	939.8	997.7	1020.4	1013.0	981.7	924.0
43.5°	648.6	670.5	706.6	761.5	847.5	927.6	986.0	1008.9	1001.8	970.3	912.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	609.5	632.1	669.0	724.1	809.6	890.4	949.7	973.6	967.0	935.7	877.0
45.5°	596.5	619.6	657.0	711.9	797.9	878.0	937.7	961.9	955.5	924.0	865.3
46°	583.5	606.7	644.3	699.5	784.9	865.3	925.5	950.2	943.8	912.8	853.8
46.5°	570.1	594.2	632.1	687.3	772.5	853.3	913.8	938.7	932.9	901.6	842.6
47°	556.8	581.2	619.6	675.1	760.0	841.1	902.1	927.3	922.0	890.7	831.4
47.5°	544.1	568.5	607.4	662.9	748.3	829.2	890.7	916.4	910.8	879.5	820.0
48°	531.2	556.1	595.0	650.7	735.8	817.5	879.0	905.2	899.8	868.6	809.1
48.5°	518.2	543.4	582.8	639.0	724.1	805.8	867.8	894.0	888.7	857.1	797.4
49°	505.0	530.9	570.6	627.0	711.9	793.6	855.9	882.3	877.0	844.9	785.4
49.5°	492.3	518.4	558.6	615.1	699.7	781.6	843.9	870.6	864.5	832.0	772.2
50°	479.0	505.7	546.7	602.6	687.5	769.1	830.9	856.9	850.0	817.7	759.0
50.5°	466.1	493.3	534.2	590.9	675.3	755.7	816.7	842.1	834.7	801.7	744.0
51°	452.6	481.1	522.3	578.5	662.4	741.4	801.9	825.9	816.7	784.9	729.0
51.5°	440.1	468.6	510.3	566.0	648.9	727.4	786.4	808.8	799.4	767.6	712.4
52°	427.2	456.1	498.1	553.5	635.7	712.2	769.7	790.5	781.4	749.6	695.4
52.5°	414.5	443.9	486.2	540.6	621.4	696.7	752.4	771.7	762.0	730.8	677.9
53°	401.7	431.7	473.9	527.9	606.9	680.9	734.3	752.6	743.5	711.9	660.6
53.5°	389.0	419.5	461.5	514.9	592.9	664.6	716.0	733.6	723.4	692.6	642.5
54°	376.1	407.3	449.3	501.4	578.2	647.9	698.0	714.5	703.3	673.3	624.7
54.5°	363.6	395.1	437.1	488.7	564.2	631.6	679.1	694.6	683.5	654.0	606.7
55°	351.1	383.2	424.9	476.0	549.2	614.8	660.6	675.3	663.9	634.6	588.9
55.5°	338.4	371.2	412.2	462.8	534.7	598.0	641.3	655.7	643.5	614.8	570.3
56°	326.5	359.0	400.0	449.5	519.7	580.5	622.4	635.9	623.2	594.7	552.3
56.5°	314.0	346.8	387.8	436.3	505.0	563.2	603.1	616.1	603.6	575.4	534.0
57°	301.8	334.9	375.3	423.1	489.7	545.9	584.6	596.0	583.5	556.3	516.2
57.5°	289.6	322.9	362.8	409.9	475.2	528.9	565.2	576.4	564.0	536.5	497.8
58°	277.9	311.2	350.9	396.7	460.0	511.3	547.2	556.8	544.9	517.2	480.1
58.5°	266.2	299.3	338.4	383.7	445.0	494.3	528.1	537.5	525.3	498.4	462.5
59°	254.3	287.8	326.5	370.2	429.7	477.0	509.3	518.2	506.0	480.1	444.7
59.5°	242.8	276.1	314.3	357.2	415.2	460.0	491.0	498.9	486.9	461.2	427.2
60°	231.4	264.7	302.6	344.5	400.0	443.2	472.7	480.1	468.4	443.2	410.6
60.5°	219.9	253.0	290.6	331.6	385.2	426.1	454.1	461.5	450.0	425.4	393.6
61°	208.8	242.1	278.7	318.6	370.2	409.9	436.3	443.2	431.7	408.3	377.3
61.5°	198.1	230.9	267.2	305.9	356.0	393.9	418.8	424.9	413.9	391.3	361.6
62°	187.1	219.9	256.0	293.4	341.2	378.1	402.0	407.3	396.4	374.8	346.1
62.5°	176.5	209.0	244.3	281.0	327.2	362.1	383.9	389.5	379.1	358.5	330.5
63°	166.3	198.6	233.2	268.5	313.0	346.1	367.2	372.2	362.6	342.2	315.5
63.5°	156.4	187.9	222.0	256.3	299.3	331.3	350.6	355.5	345.3	327.0	301.3
64°	146.5	177.7	210.8	244.1	285.5	315.8	335.1	339.2	328.3	312.7	287.6
64.5°	137.3	167.8	199.9	232.1	272.3	301.0	319.1	322.9	312.0	298.0	274.1
65°	128.4	158.2	189.2	220.4	259.3	286.8	303.6	307.7	296.2	284.0	260.9
65.5°	119.5	148.2	178.5	209.3	246.9	272.8	288.8	292.4	279.9	270.0	248.4
66°	111.4	139.1	167.8	197.6	234.4	258.8	274.6	277.4	264.7	256.8	236.2





TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	90.0	112.1	137.8	165.3	199.3	221.5	234.2	236.2	223.8	220.4	203.4
68°	85.4	103.7	128.4	155.4	187.6	209.8	222.5	224.0	211.5	208.8	192.5
68.5°	80.6	95.9	119.2	145.2	177.2	198.1	210.8	212.1	199.1	197.1	181.5
69°	76.0	89.5	110.6	135.8	166.8	186.4	199.1	200.1	186.6	185.6	171.9
69.5°	71.2	83.4	102.2	126.1	156.6	175.2	187.1	188.2	175.7	175.2	162.2
70°	68.9	77.3	94.6	117.7	147.0	165.0	176.7	178.0	165.5	165.3	153.1
70.5°	66.4	70.9	88.5	109.3	137.8	155.4	167.1	168.1	155.9	156.1	144.7
71°	63.6	64.8	82.4	101.2	129.2	145.9	157.4	158.4	146.7	147.0	136.3
71.5°	60.8	62.0	76.0	93.8	120.5	136.8	148.0	149.0	137.8	138.3	128.1
72°	57.7	59.5	69.9	87.7	112.4	128.7	139.3	140.6	129.4	129.9	120.5
72.5°	54.9	57.0	63.8	81.6	104.5	120.3	131.2	132.2	121.5	122.3	113.1
73°	52.1	54.2	59.0	75.5	97.4	112.6	123.3	124.6	113.9	114.4	106.0
73.5°	49.3	51.6	54.7	69.2	90.5	105.3	115.4	117.0	107.0	107.6	99.4
74°	46.8	49.1	50.9	63.1	83.9	98.4	108.6	109.8	99.9	100.7	93.1
74.5°	44.0	46.5	47.5	58.2	77.6	91.5	101.7	103.0	93.3	94.1	87.0
75°	41.7	44.0	44.5	53.6	71.7	85.2	95.3	96.4	87.0	88.0	80.9
75.5°	39.2	41.7	42.0	49.3	66.4	79.3	89.0	90.3	80.9	81.9	75.3
76°	36.9	39.2	39.4	45.5	61.0	73.5	82.9	84.2	74.8	76.0	69.9
76.5°	34.6	36.9	37.4	41.7	56.2	68.1	77.3	78.3	69.2	70.7	64.8
77°	32.3	34.6	35.1	38.4	51.6	63.1	71.7	73.0	63.6	65.3	60.0
77.5°	30.3	32.5	33.1	35.3	47.3	58.2	66.6	67.6	58.5	60.3	55.4
78°	28.0	30.3	31.0	32.5	43.2	53.6	61.5	62.5	53.4	55.4	50.9
78.5°	26.2	28.2	29.0	29.7	39.4	49.1	56.7	57.7	48.3	51.1	46.5
79°	24.2	26.2	27.2	27.2	35.9	45.0	52.1	52.9	43.7	46.5	42.5
79.5°	22.4	24.2	25.4	24.9	32.5	40.9	47.8	48.6	39.4	42.5	38.6
80°	20.6	22.4	23.6	22.9	29.5	37.1	43.5	44.2	35.1	38.4	34.8
80.5°	18.8	20.6	21.9	20.8	26.7	33.6	39.4	40.2	30.8	34.6	31.3
81°	17.0	18.8	20.1	19.1	24.2	30.3	35.6	36.4	27.2	31.0	28.0
81.5°	15.5	17.3	18.6	17.5	21.9	27.2	31.8	32.5	23.9	27.7	25.2
82°	14.0	15.5	17.0	16.0	19.6	24.4	28.2	29.2	20.3	24.9	22.4
82.5°	12.5	14.0	15.5	14.5	17.3	21.9	25.4	26.2	16.8	22.1	19.6
83°	10.9	12.5	14.0	13.2	15.0	19.3	22.6	23.4	13.5	19.3	16.8
83.5°	9.4	10.9	12.5	12.0	13.2	16.8	19.8	20.6	10.7	16.3	14.0
84°	8.1	9.4	11.2	10.7	11.4	14.2	16.8	17.5	7.9	13.5	12.0
84.5°	6.9	8.1	9.9	9.4	9.9	12.2	14.0	14.7	5.6	11.2	9.9
85°	5.6	6.9	8.6	8.4	8.6	10.2	11.7	12.0	3.8	9.2	8.1
85.5°	4.3	5.6	7.6	7.4	7.4	8.6	9.7	9.7	2.5	7.1	6.4
86°	3.3	4.6	6.4	6.4	6.1	6.9	7.9	7.4	1.8	5.3	4.8
86.5°	2.8	3.6	5.1	5.1	5.1	5.6	6.1	5.6	1.5	3.8	3.6
87°	2.0	2.8	4.1	4.1	4.1	4.3	4.6	4.1	1.0	2.5	2.5
87.5°	1.5	2.0	3.1	3.1	3.3	3.3	3.3	2.8	0.8	1.5	1.5
88°	1.0	1.5	2.0	2.3	2.5	2.3	2.0	1.5	0.5	0.8	0.8
88.5°	0.5	0.8	1.3	1.3	1.5	1.3	1.0	0.8	0.3	0.3	0.3



TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5
0.5°	1447.8	1447.3	1445.2	1444.0	1443.5	1444.0
1°	1448.0	1446.0	1442.7	1440.9	1439.9	1440.4
1.5°	1447.8	1444.5	1440.4	1437.4	1436.1	1436.8
2°	1447.8	1442.9	1437.6	1433.8	1432.0	1433.0
2.5°	1447.3	1441.2	1434.6	1430.2	1427.9	1428.7
3°	1446.8	1439.1	1431.5	1426.2	1423.6	1424.6
3.5°	1446.0	1436.8	1428.2	1422.1	1419.3	1420.3
4°	1445.0	1434.6	1424.9	1417.8	1414.7	1415.5
4.5°	1443.7	1432.0	1421.3	1413.2	1409.6	1410.9
5°	1442.4	1429.5	1417.5	1408.6	1404.6	1405.8
5.5°	1440.9	1426.4	1413.5	1403.8	1399.5	1400.7
6°	1439.1	1423.4	1409.1	1398.7	1394.1	1395.4
6.5°	1437.1	1420.1	1404.8	1393.6	1388.5	1390.1
7°	1435.1	1416.8	1400.5	1388.3	1382.7	1384.5
7.5°	1432.5	1412.9	1395.7	1382.7	1376.8	1378.6
8°	1430.2	1409.1	1390.8	1377.1	1371.0	1372.5
8.5°	1427.4	1405.3	1385.5	1371.2	1364.6	1366.4
9°	1424.6	1401.0	1380.4	1365.4	1358.3	1360.3
9.5°	1421.6	1396.4	1374.8	1359.0	1351.7	1353.7
10°	1418.3	1392.1	1369.2	1352.7	1345.1	1347.1
10.5°	1414.7	1387.3	1363.4	1346.3	1338.4	1340.5
11°	1411.2	1382.4	1357.5	1339.7	1331.6	1333.6
11.5°	1407.4	1377.1	1351.4	1332.9	1324.5	1326.5
12°	1403.5	1371.8	1345.1	1326.0	1317.1	1319.4
12.5°	1399.2	1366.4	1338.4	1318.6	1309.7	1312.0
13°	1394.9	1360.8	1331.8	1311.5	1302.3	1304.6
13.5°	1390.3	1354.7	1325.2	1304.1	1294.5	1297.0
14°	1385.5	1348.9	1318.1	1296.7	1286.8	1289.4
14.5°	1380.7	1342.5	1311.0	1289.1	1278.9	1281.5
15°	1375.3	1336.2	1303.9	1281.2	1270.8	1273.6
15.5°	1370.0	1329.8	1296.2	1273.1	1262.7	1265.5
16°	1364.6	1322.9	1288.6	1265.0	1254.5	1257.3
16.5°	1359.0	1316.1	1280.7	1256.8	1245.9	1248.9
17°	1353.2	1309.0	1272.8	1248.4	1237.5	1240.3
17.5°	1347.1	1301.8	1264.7	1239.8	1228.6	1231.9
18°	1340.7	1294.2	1256.6	1231.1	1220.0	1223.0
18.5°	1334.4	1286.6	1247.9	1222.2	1211.1	1214.4
19°	1327.8	1278.7	1239.5	1213.3	1201.9	1205.2
19.5°	1320.9	1270.8	1230.9	1204.2	1192.8	1196.1
20°	1314.0	1262.7	1222.0	1195.3	1183.6	1187.2
20.5°	1306.9	1254.5	1212.8	1185.9	1174.2	1177.5
21°	1299.5	1245.9	1203.7	1176.2	1164.5	1168.1



TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1276.7	1219.7	1175.2	1147.2	1135.5	1139.4
23°	1268.5	1210.3	1165.5	1137.3	1125.6	1129.4
23.5°	1260.6	1201.4	1155.9	1127.4	1115.7	1119.5
24°	1252.3	1191.7	1145.7	1117.2	1105.3	1109.4
24.5°	1243.6	1182.3	1135.8	1107.1	1094.9	1098.9
25°	1235.0	1172.4	1125.4	1096.6	1084.7	1088.8
25.5°	1226.1	1162.8	1115.2	1086.0	1074.3	1078.3
26°	1217.2	1153.1	1104.5	1075.3	1063.6	1067.9
26.5°	1207.8	1142.7	1094.4	1064.9	1052.9	1057.2
27°	1198.6	1132.2	1083.4	1054.2	1042.2	1046.6
27.5°	1189.4	1122.1	1072.7	1043.2	1031.3	1035.6
28°	1179.8	1111.6	1061.6	1032.1	1020.1	1024.7
28.5°	1170.4	1101.2	1050.9	1021.1	1009.4	1013.8
29°	1160.2	1090.3	1039.7	1009.9	998.0	1002.8
29.5°	1150.3	1079.6	1028.5	998.7	986.8	991.6
30°	1140.1	1068.9	1017.3	987.3	975.4	980.2
30.5°	1130.2	1057.7	1005.9	975.9	964.2	968.7
31°	1119.8	1046.6	994.2	964.4	952.5	957.3
31.5°	1109.1	1035.4	983.0	952.7	941.0	945.9
32°	1098.4	1023.9	971.3	941.0	929.1	934.2
32.5°	1088.0	1012.7	959.6	929.3	917.6	922.5
33°	1077.1	1001.5	947.9	917.6	905.7	910.5
33.5°	1066.1	989.9	936.2	905.7	894.0	898.8
34°	1055.2	978.2	924.3	893.7	882.0	886.9
34.5°	1044.0	966.5	912.0	881.8	870.1	874.7
35°	1032.8	954.8	900.1	869.6	857.6	862.5
35.5°	1021.6	942.8	888.4	857.4	845.9	850.5
36°	1010.4	931.4	876.2	845.4	833.7	838.3
36.5°	999.0	919.2	864.2	833.2	821.3	826.1
37°	987.3	907.2	851.8	820.8	809.1	813.6
37.5°	975.9	895.5	839.8	808.6	796.9	801.2
38°	964.2	883.3	827.4	796.1	784.4	788.5
38.5°	952.5	871.1	815.4	783.9	771.9	776.3
39°	940.8	859.4	803.2	771.7	759.5	764.1
39.5°	929.1	847.2	791.0	759.2	747.0	751.1
40°	917.1	835.0	778.6	746.5	734.3	738.1
40.5°	905.4	823.1	766.4	734.3	721.9	725.7
41°	893.5	810.6	754.1	721.9	708.9	713.0
41.5°	881.5	798.6	741.7	709.4	696.2	700.0
42°	869.6	786.7	729.5	696.9	683.7	687.0
42.5°	857.6	774.7	717.5	684.5	671.0	674.3
43°	845.9	762.8	705.3	672.0	658.3	661.6
43.5°	833.7	750.3	693.4	659.6	645.6	648.6

TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	798.1	714.5	656.8	622.4	607.4	609.5
45.5°	786.2	702.5	644.8	610.0	594.5	596.5
46°	774.5	691.1	633.1	598.0	581.8	583.5
46.5°	763.0	679.6	621.4	585.6	569.0	570.1
47°	751.6	668.2	609.5	573.4	556.3	556.8
47.5°	740.2	656.5	597.8	561.2	543.9	544.1
48°	729.2	645.8	586.3	549.0	531.2	531.2
48.5°	718.0	634.4	574.6	537.0	518.2	518.2
49°	706.3	622.9	563.4	525.3	505.7	505.0
49.5°	693.9	611.5	552.3	513.4	493.3	492.3
50°	681.2	599.6	540.8	501.4	480.6	479.0
50.5°	667.7	587.1	528.9	489.7	468.4	466.1
51°	654.0	574.6	517.4	478.0	455.6	452.6
51.5°	639.7	561.7	505.7	466.3	443.4	440.1
52°	625.2	548.7	493.8	454.9	431.2	427.2
52.5°	610.0	535.2	481.6	442.9	418.8	414.5
53°	595.0	521.8	469.4	431.2	406.8	401.7
53.5°	579.0	508.0	457.2	419.3	394.6	389.0
54°	562.9	494.3	444.7	407.8	382.7	376.1
54.5°	546.9	480.6	432.2	395.9	370.7	363.6
55°	531.2	466.6	419.5	383.9	359.0	351.1
55.5°	514.6	452.1	407.1	372.0	346.8	338.4
56°	498.4	438.1	394.4	360.3	335.1	326.5
56.5°	482.3	424.1	381.9	348.3	323.4	314.0
57°	466.3	409.9	368.9	336.6	311.7	301.8
57.5°	450.0	395.6	356.2	324.4	300.0	289.6
58°	434.3	381.7	343.8	313.0	288.8	277.9
58.5°	418.8	367.7	331.3	301.0	277.1	266.2
59°	402.8	353.7	318.8	289.4	265.7	254.3
59.5°	387.5	339.7	306.4	277.9	254.5	242.8
60°	372.2	326.2	294.2	266.5	243.3	231.4
60.5°	357.2	312.7	282.0	255.0	232.1	219.9
61°	342.2	299.5	270.0	243.8	221.2	208.8
61.5°	327.7	286.8	258.1	232.9	210.5	198.1
62°	314.0	274.1	246.4	222.0	200.1	187.1
62.5°	299.8	261.6	234.9	211.0	189.7	176.5
63°	286.0	249.2	223.8	200.4	179.5	166.3
63.5°	272.6	237.5	212.6	189.9	169.3	156.4
64°	259.6	225.8	201.6	179.5	159.7	146.5
64.5°	247.1	214.6	191.0	169.3	150.0	137.3
65°	234.9	203.4	180.5	159.4	141.1	128.4
65.5°	223.5	192.7	170.4	149.5	132.0	119.5
66°	212.3	182.1	160.2	140.1	123.3	111.4



TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	179.8	152.8	132.2	113.1	98.9	90.0
68°	169.8	143.7	123.3	105.3	91.8	85.4
68.5°	160.4	135.0	115.2	97.4	86.2	80.6
69°	151.3	126.6	106.8	89.8	80.9	76.0
69.5°	142.6	118.7	99.2	83.9	75.5	71.2
70°	134.3	110.9	92.3	78.1	69.9	68.9
70.5°	126.4	103.5	86.4	72.2	64.6	66.4
71°	118.5	96.6	80.6	66.4	62.0	63.6
71.5°	111.4	89.8	74.8	61.8	59.8	60.8
72°	104.2	84.2	68.9	57.7	57.2	57.7
72.5°	97.6	78.6	63.1	53.9	54.4	54.9
73°	91.0	73.0	58.2	50.3	51.6	52.1
73.5°	84.9	67.1	53.9	47.3	49.1	49.3
74°	79.1	62.3	49.8	44.8	46.5	46.8
74.5°	73.7	57.5	46.0	42.5	44.0	44.0
75°	68.4	53.1	42.7	40.4	41.7	41.7
75.5°	63.3	48.8	39.4	38.1	39.2	39.2
76°	58.5	45.0	36.6	36.1	36.9	36.9
76.5°	54.2	41.2	33.8	34.1	34.6	34.6
77°	49.8	37.6	31.3	32.0	32.5	32.3
77.5°	45.8	34.6	29.0	30.0	30.5	30.3
78°	41.7	31.3	26.7	28.2	28.5	28.0
78.5°	38.1	28.5	24.7	26.4	26.4	26.2
79°	34.6	25.9	22.9	24.7	24.4	24.2
79.5°	31.5	23.4	21.1	22.9	22.6	22.4
80°	28.5	21.1	19.6	21.1	20.8	20.6
80.5°	25.4	19.1	18.3	19.6	19.1	18.8
81°	23.1	17.0	16.8	18.1	17.3	17.0
81.5°	20.8	15.3	15.5	16.5	15.8	15.5
82°	18.3	13.7	14.0	15.0	14.0	14.0
82.5°	16.0	12.2	12.7	13.5	12.5	12.5
83°	13.5	10.7	11.4	12.2	10.9	10.9
83.5°	11.7	9.4	10.2	10.9	9.4	9.4
84°	9.9	8.1	9.2	9.7	8.4	8.1
84.5°	8.4	7.1	7.9	8.4	7.1	6.9
85°	6.9	6.1	6.9	7.1	5.8	5.6
85.5°	5.6	4.8	5.6	6.1	4.6	4.3
86°	4.3	4.1	4.6	4.8	3.8	3.3
86.5°	3.3	3.1	3.6	3.8	3.1	2.8
87°	2.3	2.3	2.5	2.8	2.3	2.0
87.5°	1.5	1.3	1.5	1.8	1.5	1.5
88°	1.0	0.5	0.8	1.0	1.0	1.0
88.5°	0.3	0.3	0.3	0.3	0.5	0.5



TEST NUMBER: P776038

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-4000K

**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°	1158.7	1176.2	1207.5	1252.3	1312.0	1360.1	1390.3	1401.0	1394.6	1374.3	1339.2
22°	1149.0	1166.8	1198.3	1243.6	1304.9	1353.7	1385.0	1395.4	1388.8	1367.9	1332.6



44°	635.2	657.5	694.1	749.1	834.7	914.8	973.8	997.0	990.1	958.8	900.6
44.5°	622.4	644.8	681.7	736.9	822.3	902.6	961.9	985.3	978.7	947.4	888.9



66.5°	103.5	129.9	157.6	186.6	222.7	245.6	260.6	263.2	249.9	243.6	225.3
67°	96.1	121.0	147.7	175.7	211.0	233.2	247.4	249.4	236.2	231.9	214.3



89°	0.3	0.3	0.5	0.5	1.0	0.8	0.5	0.3	0.0	0.0	0.0
89.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0



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21.5°	1292.2	1237.2	1194.5	1166.6	1154.9	1158.7
22°	1284.3	1228.6	1184.9	1157.2	1145.2	1149.0

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44°	821.8	738.4	680.9	647.1	632.6	635.2
44.5°	809.6	726.4	669.0	634.6	620.2	622.4



66.5°	200.9	172.1	150.5	130.4	114.9	103.5
67°	189.7	162.0	141.1	122.0	106.8	96.1

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

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Scaled Data Report



(END OF REPORT)