

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: P776122

Luminaire Tested: HCDJBL51525CSD-HCD6TSQMW-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD6TSQMW-2500lm-3500K
Description: 6 INCH SQUARE MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

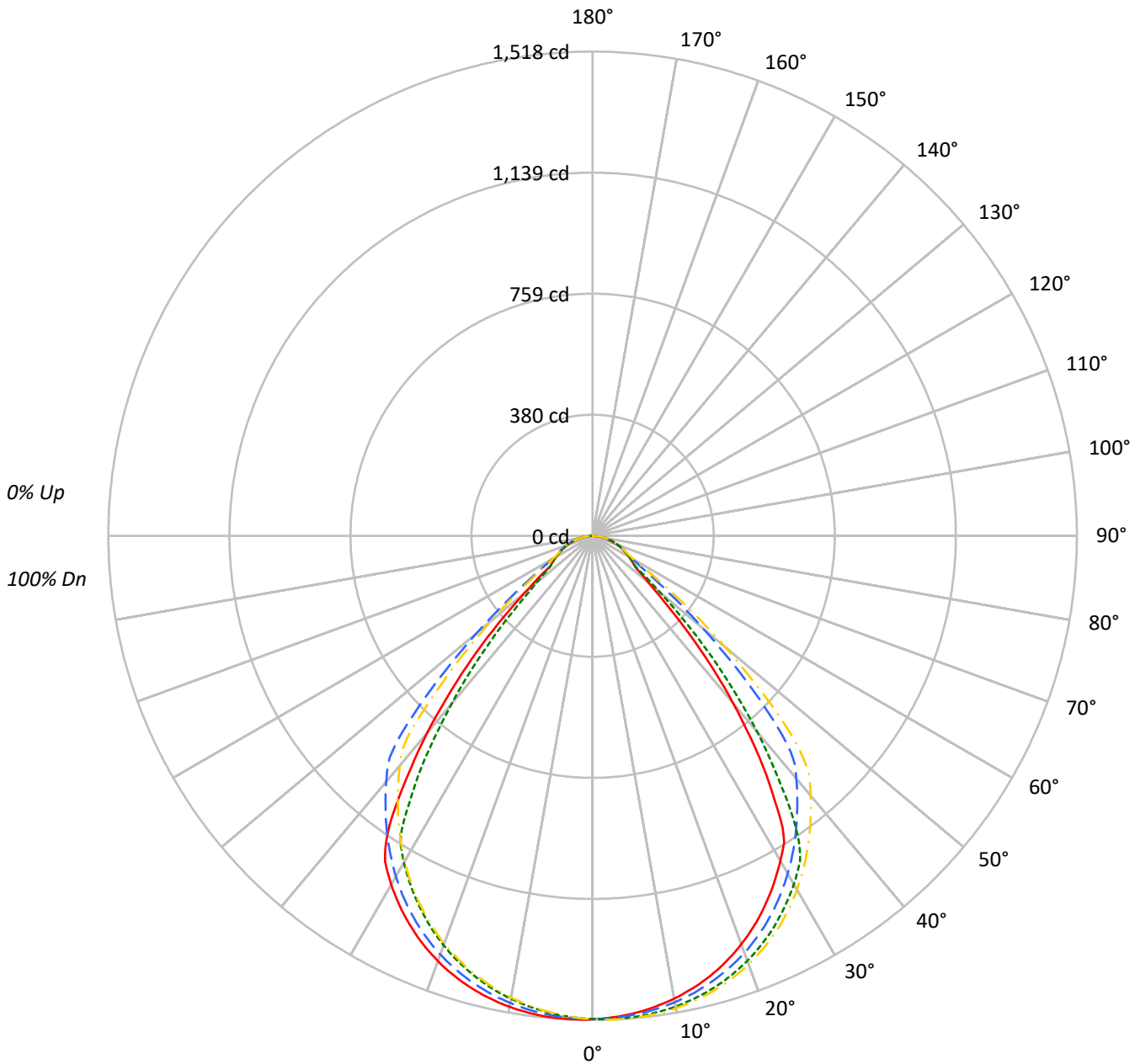
Lumens per Lamp: N/A
Luminaire Lumens: 2658.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): 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: P776122
CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776122

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-3500K

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89				
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79				
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70				
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63				63				
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57				57				
6	78	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51				51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46				
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42				42				
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39				39				
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36				36				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	65247	65247	65247	65247
5°	64934	65444	65487	64943
10°	64421	65519	65562	64443
15°	63639	65404	65435	63706
20°	62451	64967	64999	62589
25°	60747	64105	64153	60961
30°	58511	62727	62777	58810
35°	51594	58185	58369	51778
40°	38444	45093	45363	38568
45°	25020	30902	31096	25160
50°	15419	18407	18608	15520
55°	11898	11935	11935	11898
60°	11418	11375	11375	11418
65°	10881	10982	10881	11033
70°	10323	10637	10386	10700
75°	9549	10297	9798	10264
80°	8207	9893	8901	9521
85°	4594	8942	6669	7657

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 53407 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	5.4
10°-20°	408.3	15.4
20°-30°	606.4	22.8
30°-40°	670.4	25.2
40°-50°	454.3	17.1
50°-60°	185.2	7.0
60°-70°	109.3	4.1
70°-80°	64.6	2.4
80°-90°	17.0	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°	1158.0	43.6
0°-40°	1828.4	68.8
0°-60°	2468.0	92.8
0°-90°	2658.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1515	1515	1515	1515	1515	
5°	1502	1514	1515	1503	1502	143
15°	1428	1467	1468	1429	1428	402
25°	1279	1349	1350	1283	1279	588
35°	982	1107	1110	985	982	601
45°	411	508	511	413	411	325
55°	158	159	159	158	158	149
65°	107	108	107	108	107	106
75°	57	62	59	62	57	61
85°	9	18	14	16	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4
0.5°	1515.4	1514.9	1514.9	1515.4	1515.7	1515.9	1516.4	1516.7	1516.7	1515.7	1514.9
1°	1514.4	1514.4	1514.4	1515.4	1516.2	1516.4	1517.2	1517.2	1516.9	1515.7	1514.9
1.5°	1513.4	1513.7	1514.2	1515.2	1516.4	1516.9	1517.7	1517.7	1517.2	1515.9	1514.4
2°	1512.4	1512.9	1513.7	1514.9	1516.4	1516.9	1517.9	1517.9	1517.4	1515.7	1514.2
2.5°	1511.2	1511.7	1512.9	1514.7	1516.4	1517.2	1518.2	1518.2	1517.4	1515.4	1513.4
3°	1509.6	1510.4	1511.9	1514.2	1516.2	1517.2	1518.2	1518.2	1517.2	1515.2	1512.7
3.5°	1508.1	1509.1	1510.9	1513.4	1515.9	1516.9	1518.2	1517.9	1516.9	1514.7	1511.9
4°	1506.4	1507.6	1509.9	1512.7	1515.4	1516.7	1517.9	1517.7	1516.4	1513.9	1510.9
4.5°	1504.4	1506.1	1508.6	1511.7	1514.9	1516.4	1517.4	1517.4	1515.9	1513.2	1509.9
5°	1502.4	1504.4	1507.1	1510.4	1514.2	1515.9	1516.9	1516.9	1515.2	1512.2	1508.6
5.5°	1500.4	1502.6	1505.6	1509.4	1513.2	1515.2	1516.4	1516.2	1514.4	1511.2	1507.1
6°	1497.9	1500.4	1503.9	1507.9	1512.2	1514.4	1515.7	1515.4	1513.4	1509.9	1505.6
6.5°	1495.6	1498.4	1501.9	1506.4	1511.2	1513.4	1514.7	1514.4	1512.2	1508.4	1503.9
7°	1492.8	1495.9	1499.9	1504.6	1509.9	1512.4	1513.7	1513.2	1510.9	1506.6	1501.9
7.5°	1490.1	1493.6	1497.9	1502.9	1508.1	1511.2	1512.4	1511.9	1509.4	1504.9	1499.9
8°	1487.1	1490.8	1495.6	1500.9	1506.6	1509.6	1511.2	1510.4	1507.6	1503.1	1497.9
8.5°	1483.8	1488.1	1493.1	1498.9	1504.9	1507.9	1509.6	1508.9	1505.9	1501.1	1495.4
9°	1480.6	1484.8	1490.3	1496.4	1502.9	1506.4	1507.9	1506.9	1503.9	1498.9	1492.8
9.5°	1477.3	1481.8	1487.6	1494.1	1500.9	1504.4	1506.1	1505.1	1501.9	1496.6	1490.1
10°	1473.5	1478.6	1484.8	1491.3	1498.6	1502.4	1504.1	1502.9	1499.6	1494.4	1487.3
10.5°	1469.8	1475.0	1481.6	1488.6	1496.4	1500.1	1501.9	1500.9	1497.1	1491.6	1484.3
11°	1465.8	1471.3	1478.6	1485.8	1493.6	1497.9	1499.6	1498.4	1494.6	1488.6	1481.3
11.5°	1461.5	1467.5	1475.0	1482.8	1490.8	1495.1	1497.1	1495.9	1491.8	1485.6	1478.1
12°	1457.2	1463.5	1471.5	1479.6	1488.1	1492.6	1494.6	1493.1	1489.1	1482.6	1474.5
12.5°	1452.7	1459.5	1467.8	1476.3	1485.1	1489.6	1491.6	1490.3	1485.8	1479.3	1471.0
13°	1448.2	1455.2	1463.8	1472.5	1481.8	1486.6	1488.6	1487.1	1482.8	1475.8	1467.3
13.5°	1443.5	1450.7	1459.8	1468.8	1478.3	1483.6	1485.6	1483.8	1479.3	1472.3	1463.3
14°	1438.4	1446.0	1455.7	1465.0	1474.8	1480.1	1482.3	1480.6	1475.8	1468.3	1459.3
14.5°	1433.2	1441.2	1451.2	1461.0	1471.0	1476.6	1478.8	1477.1	1472.0	1464.5	1454.7
15°	1427.7	1436.2	1446.7	1456.7	1467.3	1473.0	1475.3	1473.3	1468.0	1460.3	1450.5
15.5°	1422.1	1430.9	1441.7	1452.2	1463.3	1469.0	1471.5	1469.3	1464.0	1456.0	1446.0
16°	1416.4	1425.4	1436.9	1447.7	1459.0	1464.8	1467.5	1465.3	1459.5	1451.5	1440.9
16.5°	1410.4	1419.9	1431.9	1443.2	1454.5	1460.8	1463.5	1461.3	1455.2	1447.0	1436.2
17°	1404.1	1414.1	1426.9	1438.2	1449.7	1456.2	1459.3	1456.7	1450.5	1442.0	1430.9
17.5°	1397.8	1408.1	1421.4	1432.9	1445.2	1451.7	1454.7	1452.0	1445.7	1436.9	1425.7
18°	1391.1	1401.8	1415.6	1427.7	1439.9	1447.0	1450.2	1447.2	1440.7	1431.7	1420.1
18.5°	1384.5	1395.6	1409.6	1422.1	1434.9	1442.2	1445.2	1442.2	1435.4	1426.4	1414.6
19°	1377.5	1389.0	1403.8	1416.6	1429.4	1436.9	1440.2	1436.9	1429.9	1420.6	1408.4
19.5°	1370.2	1382.3	1397.6	1410.6	1423.6	1431.7	1435.2	1431.7	1424.4	1415.1	1402.6
20°	1363.0	1375.5	1391.3	1404.6	1417.9	1425.9	1429.7	1426.2	1418.6	1409.1	1396.6
20.5°	1355.4	1368.0	1384.8	1398.1	1412.1	1420.1	1424.1	1420.4	1412.6	1403.1	1390.0
21°	1347.7	1360.7	1378.0	1391.6	1405.6	1414.1	1418.4	1414.4	1406.6	1396.6	1383.5



TEST NUMBER: P776122

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1323.1	1337.4	1356.5	1371.2	1386.0	1395.3	1399.8	1395.6	1387.0	1377.0	1362.7
23°	1314.6	1329.4	1348.9	1364.0	1379.0	1388.5	1393.3	1389.0	1380.0	1369.5	1355.2
23.5°	1306.1	1321.1	1341.2	1356.5	1372.0	1381.8	1386.8	1382.3	1373.0	1362.2	1347.7
24°	1297.3	1312.8	1333.4	1348.9	1364.5	1374.8	1379.8	1375.3	1365.5	1354.9	1339.9
24.5°	1288.0	1304.0	1325.1	1341.2	1357.0	1367.5	1372.5	1368.0	1358.0	1347.4	1332.1
25°	1278.7	1295.3	1316.8	1333.1	1349.4	1360.0	1365.2	1360.5	1350.4	1339.7	1323.9
25.5°	1269.2	1286.0	1308.3	1324.9	1341.4	1352.4	1358.0	1352.9	1342.4	1331.6	1315.8
26°	1259.7	1277.0	1299.5	1316.6	1333.1	1344.4	1350.2	1344.9	1334.4	1323.4	1307.6
26.5°	1249.9	1267.7	1290.5	1308.1	1324.9	1336.4	1342.2	1336.9	1325.9	1315.1	1298.8
27°	1239.9	1258.2	1281.5	1299.5	1316.3	1328.1	1333.9	1328.6	1317.6	1306.6	1289.8
27.5°	1229.6	1247.9	1272.2	1290.8	1307.8	1319.8	1325.9	1320.3	1309.1	1298.0	1281.2
28°	1219.3	1238.1	1262.7	1281.7	1298.5	1311.1	1317.1	1311.6	1300.0	1288.8	1271.7
28.5°	1209.0	1228.1	1252.9	1272.2	1289.8	1302.3	1308.3	1303.0	1290.8	1280.0	1262.4
29°	1198.5	1218.0	1243.6	1262.9	1280.5	1293.3	1299.3	1293.8	1281.7	1270.5	1252.6
29.5°	1187.7	1207.5	1233.3	1253.4	1271.2	1284.2	1290.5	1284.7	1272.5	1261.7	1242.9
30°	1176.9	1197.5	1223.1	1243.6	1261.7	1274.7	1281.0	1275.5	1262.7	1251.4	1233.1
30.5°	1165.9	1186.7	1212.8	1233.8	1251.6	1265.4	1271.5	1266.2	1252.6	1241.9	1223.1
31°	1154.9	1175.9	1202.3	1223.8	1241.4	1255.9	1261.9	1256.2	1242.6	1231.6	1212.8
31.5°	1143.8	1164.9	1191.5	1213.5	1231.3	1246.1	1252.1	1246.4	1232.6	1221.6	1202.3
32°	1133.1	1153.9	1180.7	1203.3	1220.3	1235.9	1241.9	1236.6	1221.8	1211.5	1191.7
32.5°	1113.7	1142.6	1169.7	1192.7	1209.8	1225.8	1232.1	1226.3	1211.0	1201.0	1181.2
33°	1093.7	1131.3	1158.9	1181.9	1194.5	1215.3	1221.6	1215.8	1194.5	1190.2	1170.2
33.5°	1067.1	1120.3	1147.3	1170.9	1176.7	1204.8	1211.0	1205.3	1177.4	1179.9	1159.1
34°	1038.5	1109.5	1136.1	1159.4	1156.4	1193.5	1200.0	1194.5	1157.6	1168.4	1147.8
34.5°	1009.4	1090.9	1124.5	1148.3	1133.3	1182.4	1189.5	1182.4	1135.1	1156.4	1136.8
35°	981.6	1070.9	1113.0	1132.0	1107.0	1169.9	1178.7	1169.4	1110.5	1141.1	1125.3
35.5°	954.0	1046.0	1101.2	1114.5	1079.1	1150.9	1167.7	1150.9	1082.7	1123.8	1113.7
36°	926.2	1018.2	1089.7	1095.2	1048.1	1133.8	1156.4	1134.3	1052.1	1105.5	1102.2
36.5°	897.4	990.9	1077.6	1072.6	1017.0	1111.7	1145.3	1113.2	1021.5	1083.7	1090.7
37°	866.5	963.6	1065.9	1048.1	983.6	1087.2	1134.1	1089.9	989.6	1059.6	1078.4
37.5°	835.4	936.2	1053.8	1021.5	952.3	1060.6	1122.3	1064.9	957.5	1034.3	1066.6
38°	804.1	908.6	1041.8	992.4	921.2	1032.3	1110.7	1037.3	927.0	1005.9	1054.8
38.5°	773.3	881.1	1030.0	962.3	891.8	1002.4	1099.0	1008.2	896.9	976.6	1043.0
39°	742.9	852.5	1017.7	932.7	862.0	971.6	1087.7	977.8	867.0	946.5	1030.8
39.5°	713.3	822.9	1005.9	902.9	832.7	939.7	1075.6	947.5	837.4	916.4	1018.7
40°	684.0	791.8	993.4	872.8	802.3	909.4	1064.1	917.2	807.1	886.6	1006.7
40.5°	655.9	761.5	981.1	844.5	771.7	880.1	1051.8	887.8	776.5	857.5	994.6
41°	627.1	732.1	968.8	816.4	740.2	851.5	1039.8	858.5	744.7	829.2	982.1
41.5°	598.7	702.8	957.3	788.3	709.1	822.6	1027.0	829.9	713.6	801.3	969.3
42°	569.9	674.2	939.2	760.7	678.5	793.8	1014.2	801.3	682.7	773.3	956.3
42.5°	541.8	647.4	920.2	732.4	648.9	764.7	1001.9	772.5	652.7	744.4	941.2
43°	513.5	619.3	894.1	702.8	620.1	734.9	979.6	742.7	623.6	715.3	915.4
43.5°	487.2	591.7	865.5	674.5	591.2	705.1	957.5	712.3	595.0	685.7	893.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	410.9	509.0	770.2	590.0	507.5	617.3	877.1	624.3	510.7	600.5	797.6
45.5°	386.9	482.4	738.2	563.6	479.4	589.5	845.2	595.5	483.7	573.2	764.0
46°	363.8	456.3	704.3	537.3	452.6	561.9	810.9	567.9	456.6	546.6	729.9
46.5°	342.0	431.8	670.5	511.0	426.7	534.1	775.8	540.6	430.5	520.5	695.8
47°	320.7	406.7	636.6	485.2	401.7	507.0	739.9	513.2	405.7	494.4	661.9
47.5°	301.1	383.4	602.8	459.6	377.6	480.4	703.5	486.4	381.6	468.9	628.6
48°	283.3	360.6	569.9	434.5	355.0	454.3	668.9	460.6	358.8	444.3	595.5
48.5°	267.8	338.5	539.1	410.4	333.2	428.7	634.6	434.3	336.7	419.5	563.4
49°	254.0	317.2	509.5	387.1	312.7	403.2	602.5	409.2	315.9	396.2	532.3
49.5°	241.7	297.9	480.4	364.8	293.1	379.4	571.2	385.1	296.4	372.8	502.2
50°	230.2	279.3	452.1	342.2	274.8	356.0	540.6	361.8	277.8	350.8	473.4
50.5°	220.6	262.8	425.7	321.2	257.8	334.0	510.7	339.0	260.3	329.2	445.8
51°	211.4	247.7	400.2	301.4	242.0	313.2	481.7	317.9	244.5	309.4	418.5
51.5°	202.6	235.2	375.6	282.8	229.7	293.1	452.8	297.9	231.7	290.1	393.4
52°	193.6	223.7	351.8	265.0	217.1	274.5	425.7	278.6	218.6	272.3	369.1
52.5°	185.0	213.6	329.7	248.2	204.8	256.7	398.2	260.5	205.8	254.7	345.8
53°	176.5	204.1	308.6	232.7	192.3	241.0	372.1	243.5	192.8	238.4	323.9
53.5°	169.7	195.3	288.8	218.1	180.0	228.2	347.3	230.2	180.0	225.2	302.9
54°	164.5	186.8	270.5	205.1	170.2	215.1	325.2	216.9	170.2	211.9	283.6
54.5°	161.2	178.5	253.2	193.1	163.0	202.1	302.6	203.6	162.7	198.6	265.5
55°	158.5	169.7	237.4	181.8	159.0	189.1	282.3	190.3	159.0	185.3	249.0
55.5°	155.7	162.7	222.6	171.2	156.0	176.3	262.8	177.0	155.7	174.3	233.4
56°	152.9	157.0	209.6	161.7	153.2	166.0	245.2	166.5	152.9	164.5	221.1
56.5°	150.4	153.7	197.3	154.7	150.4	157.5	231.2	157.7	150.2	157.0	208.9
57°	147.9	150.9	186.3	150.9	147.7	152.2	216.9	151.9	147.7	152.7	196.6
57.5°	145.2	148.2	176.3	148.2	145.2	148.9	202.8	148.7	144.9	149.7	184.3
58°	142.7	145.7	168.0	145.4	142.4	146.2	188.5	145.9	142.4	146.9	174.5
58.5°	140.2	142.9	160.5	142.7	139.9	143.7	174.5	143.4	139.7	144.4	166.2
59°	137.7	140.4	153.7	140.2	137.4	140.9	164.7	140.9	137.1	141.7	159.0
59.5°	135.1	137.9	147.9	137.4	134.9	138.4	156.5	138.2	134.6	139.2	152.4
60°	132.6	135.4	142.9	134.9	132.1	135.9	149.4	135.6	132.1	136.6	146.7
60.5°	129.9	132.9	138.2	132.4	129.6	133.1	143.7	133.1	129.6	133.9	141.7
61°	127.4	130.4	133.9	129.6	127.4	130.6	138.2	130.6	126.9	131.4	137.1
61.5°	124.9	127.9	130.1	127.4	124.9	128.1	133.6	128.1	124.4	128.9	132.9
62°	122.4	125.4	126.6	124.9	122.4	125.9	129.4	125.6	121.9	126.4	129.1
62.5°	119.6	122.9	123.4	122.1	119.8	123.4	125.6	123.1	119.3	123.9	125.9
63°	117.1	120.4	120.6	119.6	117.3	120.9	122.4	120.4	116.6	121.1	122.6
63.5°	114.6	117.6	117.8	117.1	115.1	118.3	119.1	117.8	114.3	118.6	119.8
64°	112.1	115.1	115.1	114.6	112.6	115.8	116.6	115.3	111.8	116.1	117.3
64.5°	109.3	112.6	112.6	112.1	110.3	113.3	113.8	112.8	109.3	113.6	114.6
65°	106.8	110.1	110.1	109.8	107.8	111.1	111.3	110.3	106.8	111.1	112.1
65.5°	104.3	107.3	107.3	107.3	105.6	108.6	108.8	107.8	104.3	108.6	109.6
66°	101.8	104.8	104.8	104.8	103.1	106.1	106.1	105.3	101.8	106.1	106.8



TEST NUMBER: P776122

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	94.3	97.3	97.3	97.5	96.0	98.8	98.5	97.8	94.5	98.5	99.3
68°	91.8	94.8	94.8	95.0	93.8	96.5	96.0	95.3	92.0	95.8	96.8
68.5°	89.3	92.3	92.3	92.5	91.5	94.0	93.8	93.0	89.5	93.5	94.3
69°	86.8	89.8	89.8	91.3	89.3	91.8	91.3	90.5	87.3	91.0	91.8
69.5°	84.5	87.3	87.3	88.8	87.0	89.3	88.5	88.0	84.7	88.5	89.3
70°	82.0	84.7	84.7	86.3	84.5	87.0	86.3	85.5	82.5	86.0	86.8
70.5°	79.5	82.2	82.2	83.5	82.2	84.7	83.7	83.2	80.0	83.5	84.2
71°	77.2	80.0	79.7	81.0	80.0	82.2	81.2	80.7	77.7	81.0	81.7
71.5°	74.7	77.2	77.5	78.7	77.7	80.0	78.7	78.2	75.2	78.5	79.2
72°	72.2	75.0	75.0	76.2	75.5	77.5	76.2	76.0	73.0	76.2	76.7
72.5°	69.7	72.2	72.5	74.0	73.2	75.2	74.0	73.5	70.5	73.7	74.2
73°	67.2	70.0	70.0	71.5	71.0	73.0	71.5	71.0	68.2	71.2	71.7
73.5°	64.7	67.4	67.4	69.2	68.7	70.7	69.0	68.7	65.9	68.7	69.2
74°	62.2	64.9	64.9	66.7	66.4	68.2	66.7	66.2	63.4	66.4	66.7
74.5°	59.9	62.4	62.4	64.4	64.2	65.9	64.2	63.9	61.2	63.9	64.4
75°	57.4	59.9	60.2	62.2	61.9	63.7	61.9	61.4	58.9	61.4	61.9
75.5°	54.9	57.4	57.7	59.9	59.7	61.4	59.4	59.2	56.4	59.2	59.4
76°	52.7	54.9	55.2	57.4	57.4	59.2	56.9	56.7	54.2	56.7	56.9
76.5°	50.1	52.4	52.7	55.2	55.2	56.9	54.7	54.2	51.9	54.2	54.7
77°	47.6	49.9	50.1	52.9	53.2	54.7	52.4	51.9	49.6	51.9	52.2
77.5°	45.1	47.4	47.9	50.4	50.9	52.4	49.9	49.4	47.4	49.4	49.6
78°	42.9	44.9	45.4	48.1	48.6	49.9	47.6	47.1	45.1	46.9	47.4
78.5°	40.4	42.6	42.9	45.9	46.4	47.6	45.1	44.6	42.6	44.6	44.9
79°	37.9	40.1	40.6	43.4	44.1	45.4	42.9	42.4	40.4	42.1	42.4
79.5°	35.4	37.6	38.1	41.1	41.9	43.1	40.6	39.9	38.4	39.6	40.1
80°	33.1	35.1	35.6	38.6	39.9	40.9	38.1	37.6	35.9	37.4	37.6
80.5°	30.6	32.6	33.3	36.4	37.6	38.6	35.9	35.1	33.6	34.9	35.4
81°	28.3	30.1	30.8	34.1	35.4	36.1	33.6	32.8	31.3	32.6	32.8
81.5°	25.8	27.6	28.6	31.8	33.1	33.8	31.3	30.3	29.1	30.1	30.6
82°	23.6	25.3	26.1	29.6	31.1	31.6	29.1	28.1	26.8	27.6	28.1
82.5°	21.1	22.8	23.8	27.3	28.8	29.6	26.8	25.6	24.6	25.3	25.8
83°	18.8	20.3	21.6	25.1	26.8	27.3	24.8	23.3	22.3	22.8	23.6
83.5°	16.3	17.8	19.6	22.8	24.6	25.1	22.8	21.1	20.1	20.6	21.6
84°	14.0	15.3	17.3	20.6	22.3	22.8	20.8	18.6	17.8	18.1	19.6
84.5°	11.5	13.0	15.3	18.6	20.3	20.8	18.6	16.3	15.5	15.8	17.6
85°	9.3	10.5	13.5	16.3	18.1	18.6	16.5	14.0	13.5	13.3	15.5
85.5°	7.8	9.0	11.5	14.0	16.0	16.5	14.5	12.0	11.3	11.3	13.5
86°	6.3	7.5	9.8	12.0	13.8	14.3	12.8	10.3	9.0	9.3	11.5
86.5°	5.0	5.8	8.0	9.8	11.8	12.0	10.8	8.5	7.3	7.8	9.8
87°	3.5	4.3	6.0	7.8	9.5	10.0	9.0	7.0	6.0	6.3	7.8
87.5°	2.3	2.8	4.3	5.8	7.5	8.0	7.3	5.5	4.8	5.0	6.0
88°	1.0	1.5	2.5	3.8	5.5	6.0	5.5	4.3	3.8	3.8	4.3
88.5°	0.3	0.5	1.0	1.8	3.5	3.8	3.8	3.0	2.5	2.3	2.3



TEST NUMBER: P776122

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0



TEST NUMBER: P776122

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4
0.5°	1514.9	1514.4	1514.4	1514.9	1514.9	1515.4
1°	1514.4	1513.7	1513.4	1513.9	1513.9	1514.4
1.5°	1513.7	1512.7	1512.2	1512.4	1512.9	1513.4
2°	1512.9	1511.4	1510.9	1511.2	1511.7	1512.4
2.5°	1512.2	1510.4	1509.6	1509.6	1510.1	1511.2
3°	1511.2	1509.1	1507.9	1507.9	1508.6	1509.6
3.5°	1509.9	1507.9	1506.4	1506.4	1506.9	1508.1
4°	1508.6	1506.1	1504.6	1504.4	1504.9	1506.4
4.5°	1507.1	1504.4	1502.6	1502.4	1502.9	1504.4
5°	1505.6	1502.6	1500.4	1500.1	1500.9	1502.4
5.5°	1503.9	1500.4	1498.4	1497.6	1498.6	1500.4
6°	1502.1	1497.9	1496.1	1495.4	1496.1	1497.9
6.5°	1500.1	1495.6	1493.4	1492.8	1493.4	1495.6
7°	1497.9	1493.1	1490.6	1489.8	1490.6	1492.8
7.5°	1495.4	1490.3	1487.8	1486.8	1487.8	1490.1
8°	1492.8	1487.3	1484.8	1483.8	1484.6	1487.1
8.5°	1490.3	1484.3	1481.6	1480.6	1481.6	1483.8
9°	1487.3	1481.1	1478.1	1477.1	1478.1	1480.6
9.5°	1484.3	1477.6	1474.5	1473.5	1474.3	1477.3
10°	1481.3	1474.0	1470.8	1469.8	1470.8	1473.5
10.5°	1477.8	1470.3	1467.3	1466.0	1467.0	1469.8
11°	1474.3	1466.5	1463.0	1462.0	1462.8	1465.8
11.5°	1470.8	1462.5	1458.8	1457.7	1458.8	1461.5
12°	1467.0	1458.2	1454.7	1453.2	1454.2	1457.2
12.5°	1463.0	1454.0	1450.2	1448.7	1449.7	1452.7
13°	1458.8	1449.2	1445.5	1444.0	1444.7	1448.2
13.5°	1454.5	1444.5	1440.7	1439.2	1439.9	1443.5
14°	1450.2	1439.4	1435.7	1434.2	1434.9	1438.4
14.5°	1445.5	1434.4	1430.4	1429.2	1429.7	1433.2
15°	1440.4	1429.2	1425.2	1423.6	1424.1	1427.7
15.5°	1435.4	1423.6	1419.6	1418.1	1418.6	1422.1
16°	1430.2	1417.9	1413.9	1412.4	1412.6	1416.4
16.5°	1424.7	1412.1	1407.9	1406.6	1406.6	1410.4
17°	1419.1	1406.1	1401.8	1400.3	1400.6	1404.1
17.5°	1413.4	1400.1	1395.6	1394.1	1394.3	1397.8
18°	1407.6	1393.6	1389.0	1387.5	1387.5	1391.1
18.5°	1401.3	1387.0	1382.5	1380.8	1380.8	1384.5
19°	1395.1	1380.0	1375.5	1374.0	1373.8	1377.5
19.5°	1388.5	1373.0	1368.5	1367.0	1366.7	1370.2
20°	1381.8	1366.0	1361.2	1360.2	1359.5	1363.0
20.5°	1375.0	1358.5	1353.7	1352.7	1351.9	1355.4
21°	1367.7	1351.2	1346.2	1345.2	1344.2	1347.7



TEST NUMBER: P776122

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1345.4	1327.4	1322.4	1321.3	1319.8	1323.1
23°	1337.6	1318.8	1314.1	1313.1	1311.3	1314.6
23.5°	1329.6	1310.3	1305.3	1304.6	1302.8	1306.1
24°	1321.3	1301.5	1296.8	1295.8	1293.8	1297.3
24.5°	1313.1	1292.5	1288.0	1286.7	1284.7	1288.0
25°	1304.6	1283.2	1279.2	1278.0	1275.7	1278.7
25.5°	1295.8	1274.0	1269.4	1268.7	1266.4	1269.2
26°	1286.7	1264.7	1260.4	1259.4	1256.9	1259.7
26.5°	1277.7	1255.2	1250.9	1249.9	1247.1	1249.9
27°	1268.2	1245.4	1241.1	1240.4	1237.4	1239.9
27.5°	1258.7	1235.1	1231.3	1230.3	1227.3	1229.6
28°	1249.1	1225.1	1221.1	1220.1	1217.3	1219.3
28.5°	1239.6	1214.5	1210.8	1209.8	1206.8	1209.0
29°	1229.3	1204.3	1200.5	1199.5	1196.5	1198.5
29.5°	1219.3	1193.7	1190.0	1189.0	1186.0	1187.7
30°	1208.8	1182.9	1179.4	1178.2	1175.2	1176.9
30.5°	1198.2	1171.7	1168.4	1167.2	1164.4	1165.9
31°	1187.5	1160.4	1157.6	1156.1	1153.4	1154.9
31.5°	1177.2	1148.6	1146.1	1144.8	1142.1	1143.8
32°	1166.1	1137.6	1134.8	1133.6	1131.0	1133.1
32.5°	1155.1	1118.8	1123.5	1122.0	1119.8	1113.7
33°	1143.8	1098.7	1112.0	1110.7	1108.2	1093.7
33.5°	1132.3	1071.1	1099.5	1099.0	1096.4	1067.1
34°	1120.3	1042.5	1088.4	1087.2	1085.7	1038.5
34.5°	1109.0	1013.7	1067.9	1075.1	1072.6	1009.4
35°	1091.2	985.1	1048.3	1063.1	1050.6	981.6
35.5°	1071.4	957.3	1020.2	1051.1	1030.0	954.0
36°	1045.8	929.5	994.6	1039.0	1003.7	926.2
36.5°	1017.5	900.4	966.8	1027.0	975.8	897.4
37°	990.6	870.0	940.0	1014.5	948.8	866.5
37.5°	962.6	838.9	912.7	1002.2	922.7	835.4
38°	935.0	806.6	886.1	989.9	896.4	804.1
38.5°	907.6	775.3	858.8	977.6	869.3	773.3
39°	880.8	744.9	830.4	965.3	842.5	742.9
39.5°	851.0	715.1	800.6	952.8	813.9	713.3
40°	821.1	686.2	771.2	940.2	784.8	684.0
40.5°	790.3	658.2	741.9	927.7	755.5	655.9
41°	761.0	629.6	712.3	915.4	726.1	627.1
41.5°	730.4	600.5	683.5	902.1	698.0	598.7
42°	701.3	571.7	657.4	882.8	670.7	569.9
42.5°	673.2	543.8	630.8	862.0	644.4	541.8
43°	646.4	515.5	603.5	831.4	617.3	513.5
43.5°	617.8	489.2	577.2	801.3	590.5	487.2

TEST NUMBER: P776122

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	536.3	413.2	496.4	700.0	510.2	410.9
45.5°	508.2	388.6	471.9	668.7	485.2	386.9
46°	481.9	365.6	446.6	638.4	460.1	363.8
46.5°	456.1	343.3	422.7	608.8	435.5	342.0
47°	431.3	322.2	398.7	579.2	411.7	320.7
47.5°	406.9	302.6	376.1	549.6	388.9	301.1
48°	383.4	284.6	353.5	520.3	365.8	283.3
48.5°	360.6	268.8	332.2	492.7	344.3	267.8
49°	338.5	254.7	312.4	465.9	323.7	254.0
49.5°	317.7	242.5	293.9	440.0	304.4	241.7
50°	297.6	231.7	275.8	414.7	285.3	230.2
50.5°	279.1	221.4	260.5	391.9	268.8	220.6
51°	262.5	212.1	246.2	369.8	253.7	211.4
51.5°	248.0	203.3	233.9	348.5	240.5	202.6
52°	235.2	194.8	222.9	328.5	228.4	193.6
52.5°	223.9	186.0	213.1	309.2	217.9	185.0
53°	214.6	177.5	204.1	290.8	208.1	176.5
53.5°	205.3	170.2	195.1	273.8	199.1	169.7
54°	196.1	164.7	186.5	257.5	190.3	164.5
54.5°	187.0	161.2	178.0	242.5	182.0	161.2
55°	178.5	158.5	169.7	228.7	173.5	158.5
55.5°	169.7	155.7	163.0	215.6	165.7	155.7
56°	162.5	153.2	157.7	203.8	159.5	152.9
56.5°	156.7	150.4	154.7	193.3	155.7	150.4
57°	153.2	147.9	151.9	183.3	152.7	147.9
57.5°	150.4	145.2	149.2	174.3	149.9	145.2
58°	147.9	142.7	146.7	166.2	147.4	142.7
58.5°	145.2	140.2	143.9	159.0	144.7	140.2
59°	142.7	137.7	141.4	152.9	142.2	137.7
59.5°	140.2	135.1	138.9	147.4	139.7	135.1
60°	137.7	132.6	136.4	142.4	136.9	132.6
60.5°	135.1	130.1	133.9	138.2	134.4	129.9
61°	132.6	127.6	131.4	134.1	131.9	127.4
61.5°	130.1	125.4	128.9	130.4	129.4	124.9
62°	127.6	122.9	126.4	127.1	126.6	122.4
62.5°	125.1	120.4	123.9	124.1	124.1	119.6
63°	122.6	118.1	121.4	121.6	121.6	117.1
63.5°	120.1	115.6	118.8	118.8	118.8	114.6
64°	117.6	113.1	116.3	116.3	116.3	112.1
64.5°	115.1	110.8	113.8	113.6	113.6	109.3
65°	112.8	108.3	111.3	111.1	111.1	106.8
65.5°	110.3	106.1	108.8	108.3	108.3	104.3
66°	107.8	103.6	106.3	105.8	105.8	101.8



TEST NUMBER: P776122

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	100.5	96.5	99.0	98.3	98.0	94.3
68°	98.0	94.0	96.5	95.8	95.3	91.8
68.5°	95.5	91.8	94.0	93.0	92.8	89.3
69°	93.0	89.5	91.8	90.0	91.5	86.8
69.5°	90.8	87.3	89.3	87.8	88.8	84.5
70°	88.3	85.0	87.0	85.2	86.0	82.0
70.5°	85.7	82.5	84.5	83.0	83.0	79.5
71°	83.5	80.2	82.0	80.7	80.2	77.2
71.5°	81.0	78.0	79.7	78.0	77.7	74.7
72°	78.7	75.7	77.2	75.5	75.2	72.2
72.5°	76.2	73.2	75.0	73.0	72.7	69.7
73°	73.7	71.0	72.5	70.5	70.0	67.2
73.5°	71.5	68.4	70.0	67.9	67.4	64.7
74°	69.0	66.2	67.4	65.4	64.9	62.2
74.5°	66.7	63.9	65.2	62.9	62.4	59.9
75°	64.2	61.7	62.7	60.4	59.9	57.4
75.5°	61.9	59.2	60.2	57.9	57.4	54.9
76°	59.4	56.9	57.9	55.4	54.7	52.7
76.5°	57.2	54.7	55.4	52.9	52.2	50.1
77°	54.7	52.4	53.2	50.4	49.6	47.6
77.5°	52.4	49.9	50.6	47.9	47.1	45.1
78°	49.9	47.6	48.1	45.4	44.6	42.9
78.5°	47.6	45.4	45.9	42.9	42.1	40.4
79°	45.1	42.9	43.4	40.4	39.6	37.9
79.5°	42.6	40.6	40.9	37.9	37.1	35.4
80°	40.4	38.4	38.4	35.6	34.4	33.1
80.5°	37.9	36.1	36.1	33.1	31.8	30.6
81°	35.6	33.8	33.6	30.8	29.3	28.3
81.5°	33.1	31.6	31.3	28.3	26.8	25.8
82°	30.8	29.1	28.8	26.1	24.3	23.6
82.5°	28.6	26.8	26.6	23.8	21.8	21.1
83°	26.3	24.6	24.3	21.6	19.3	18.8
83.5°	24.1	22.3	21.8	19.3	16.8	16.3
84°	21.6	20.1	19.6	17.3	14.5	14.0
84.5°	19.3	17.8	17.3	15.0	12.5	11.5
85°	17.0	15.5	15.0	13.0	10.5	9.3
85.5°	14.8	13.3	12.5	11.0	8.8	7.8
86°	12.5	11.0	10.3	9.0	7.3	6.3
86.5°	10.3	8.8	8.3	7.0	5.8	5.0
87°	8.3	6.8	6.3	5.0	4.0	3.5
87.5°	6.0	4.8	4.3	3.3	2.5	2.3
88°	4.0	2.5	2.3	1.3	1.0	1.0
88.5°	1.8	0.5	0.3	0.3	0.3	0.3



TEST NUMBER: P776122

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.3	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

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°	1339.4	1353.2	1371.0	1385.0	1399.1	1408.1	1412.1	1408.1	1400.1	1390.0	1376.8
22°	1331.4	1345.4	1363.7	1378.3	1392.6	1401.8	1406.1	1402.1	1393.6	1383.5	1369.7



44°	460.6	563.4	834.7	645.6	562.6	674.7	934.5	682.2	566.4	656.7	862.5
44.5°	435.5	536.3	803.3	617.8	534.8	645.6	906.4	652.9	538.6	628.3	830.4



66.5°	99.3	102.3	102.3	102.3	100.8	103.6	103.6	102.8	99.3	103.6	104.3
67°	96.8	99.8	99.8	100.0	98.5	101.3	101.0	100.3	96.8	101.0	101.8



89°	0.0	0.3	0.3	0.5	1.5	2.0	2.0	1.5	1.3	1.0	0.8
89.5°	0.0	0.0	0.3	0.3	0.3	0.5	0.8	0.5	0.3	0.3	0.3

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21.5°	1360.5	1343.4	1338.4	1337.4	1336.1	1339.4
22°	1353.2	1335.4	1330.4	1329.6	1328.4	1331.4



44°	590.2	462.3	549.9	765.2	563.6	460.6
44.5°	562.9	437.8	523.3	732.9	537.1	435.5

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Scaled Data Report



66.5°	105.3	101.3	103.8	103.3	103.1	99.3
67°	102.8	98.8	101.5	100.8	100.5	96.8

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



89°	0.5	0.0	0.3	0.3	0.3	0.0
89.5°	0.0	0.0	0.0	0.3	0.3	0.0

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Scaled Data Report



(END OF REPORT)