

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: P776121

Luminaire Tested: HCDJBL51525CSD-HCD6TSQMW-2500lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776121  
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-3000K  
Description: 6 INCH SQUARE MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

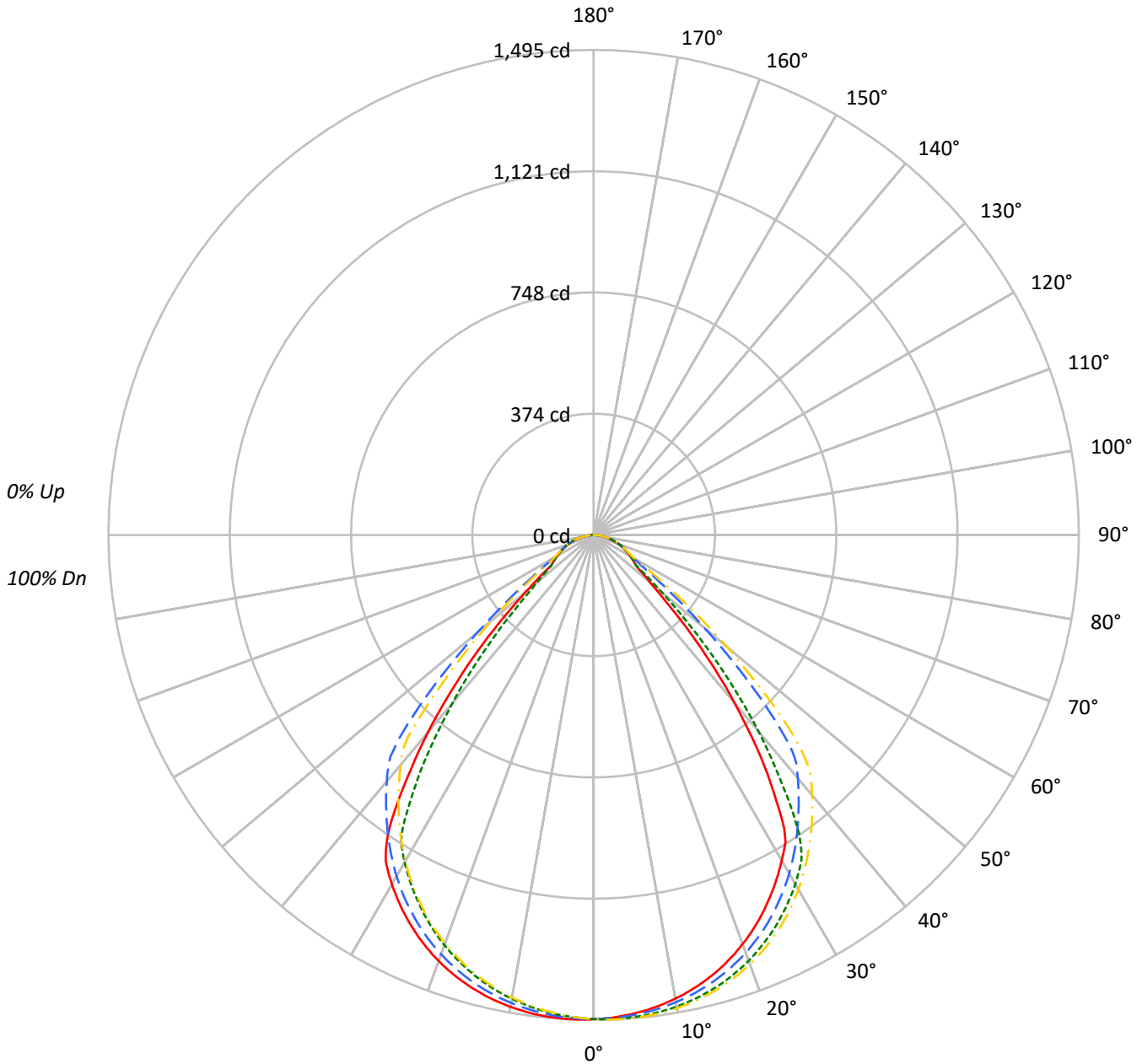
Lumens per Lamp: N/A  
Luminaire Lumens: 2619.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<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: P776121  
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### Luminous Intensity Polar Plot





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

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79								
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57								
6	78	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42								
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39								
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36								

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

	0°	90°	180°	270°
0°	64269	64269	64269	64269
5°	63957	64458	64502	63970
10°	63455	64535	64579	63477
15°	62681	64419	64455	62748
20°	61512	63991	64023	61649
25°	59835	63146	63193	60048
30°	57636	61783	61832	57930
35°	50821	57313	57492	51000
40°	37865	44419	44683	37989
45°	24648	30439	30634	24782
50°	15185	18132	18326	15285
55°	11718	11755	11755	11718
60°	11246	11212	11212	11246
65°	10718	10819	10718	10870
70°	10172	10474	10235	10537
75°	9416	10148	9649	10114
80°	8083	9744	8753	9372
85°	4495	8793	6570	7558

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 52603 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	5.4
10°-20°	402.2	15.4
20°-30°	597.3	22.8
30°-40°	660.4	25.2
40°-50°	447.5	17.1
50°-60°	182.4	7.0
60°-70°	107.6	4.1
70°-80°	63.7	2.4
80°-90°	16.8	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°	1140.6	43.6
0°-40°	1801.0	68.8
0°-60°	2430.9	92.8
0°-90°	2619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1493	1493	1493	1493	1493	
5°	1480	1491	1492	1480	1480	140
15°	1406	1445	1446	1408	1406	396
25°	1260	1329	1330	1264	1260	579
35°	967	1090	1094	970	967	592
45°	405	500	503	407	405	320
55°	156	157	157	156	156	146
65°	105	106	105	107	105	104
75°	57	61	58	61	57	60
85°	9	18	13	15	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°	1492.7	1492.7	1492.7	1492.7	1492.7	1492.7	1492.7	1492.7	1492.7	1492.7	1492.7
0.5°	1492.7	1492.2	1492.2	1492.7	1492.9	1493.2	1493.6	1493.9	1493.9	1492.9	1492.2
1°	1491.7	1491.7	1491.7	1492.7	1493.4	1493.6	1494.4	1494.4	1494.1	1492.9	1492.2
1.5°	1490.7	1490.9	1491.4	1492.4	1493.6	1494.1	1494.9	1494.9	1494.4	1493.2	1491.7
2°	1489.7	1490.2	1490.9	1492.2	1493.6	1494.1	1495.1	1495.1	1494.6	1492.9	1491.4
2.5°	1488.5	1489.0	1490.2	1491.9	1493.6	1494.4	1495.4	1495.4	1494.6	1492.7	1490.7
3°	1487.0	1487.7	1489.2	1491.4	1493.4	1494.4	1495.4	1495.4	1494.4	1492.4	1489.9
3.5°	1485.5	1486.5	1488.2	1490.7	1493.2	1494.1	1495.4	1495.1	1494.1	1491.9	1489.2
4°	1483.8	1485.0	1487.2	1489.9	1492.7	1493.9	1495.1	1494.9	1493.6	1491.2	1488.2
4.5°	1481.8	1483.5	1486.0	1489.0	1492.2	1493.6	1494.6	1494.6	1493.2	1490.4	1487.2
5°	1479.8	1481.8	1484.5	1487.7	1491.4	1493.2	1494.1	1494.1	1492.4	1489.5	1486.0
5.5°	1477.8	1480.1	1483.0	1486.7	1490.4	1492.4	1493.6	1493.4	1491.7	1488.5	1484.5
6°	1475.4	1477.8	1481.3	1485.3	1489.5	1491.7	1492.9	1492.7	1490.7	1487.2	1483.0
6.5°	1473.2	1475.9	1479.3	1483.8	1488.5	1490.7	1491.9	1491.7	1489.5	1485.7	1481.3
7°	1470.4	1473.4	1477.3	1482.0	1487.2	1489.7	1490.9	1490.4	1488.2	1484.0	1479.3
7.5°	1467.7	1471.2	1475.4	1480.3	1485.5	1488.5	1489.7	1489.2	1486.7	1482.3	1477.3
8°	1464.8	1468.5	1473.2	1478.3	1484.0	1487.0	1488.5	1487.7	1485.0	1480.6	1475.4
8.5°	1461.5	1465.7	1470.7	1476.4	1482.3	1485.3	1487.0	1486.2	1483.3	1478.6	1472.9
9°	1458.3	1462.5	1468.0	1473.9	1480.3	1483.8	1485.3	1484.3	1481.3	1476.4	1470.4
9.5°	1455.1	1459.6	1465.2	1471.7	1478.3	1481.8	1483.5	1482.5	1479.3	1474.1	1467.7
10°	1451.4	1456.4	1462.5	1469.0	1476.1	1479.8	1481.5	1480.3	1477.1	1471.9	1465.0
10.5°	1447.7	1452.9	1459.3	1466.2	1473.9	1477.6	1479.3	1478.3	1474.6	1469.2	1462.0
11°	1443.8	1449.2	1456.4	1463.5	1471.2	1475.4	1477.1	1475.9	1472.2	1466.2	1459.1
11.5°	1439.6	1445.5	1452.9	1460.6	1468.5	1472.7	1474.6	1473.4	1469.4	1463.3	1455.9
12°	1435.4	1441.5	1449.4	1457.3	1465.7	1470.2	1472.2	1470.7	1466.7	1460.3	1452.4
12.5°	1430.9	1437.6	1445.7	1454.1	1462.8	1467.2	1469.2	1468.0	1463.5	1457.1	1448.9
13°	1426.5	1433.4	1441.8	1450.4	1459.6	1464.3	1466.2	1464.8	1460.6	1453.6	1445.2
13.5°	1421.8	1428.9	1437.8	1446.7	1456.1	1461.3	1463.3	1461.5	1457.1	1450.2	1441.3
14°	1416.8	1424.3	1433.9	1443.0	1452.7	1457.8	1460.1	1458.3	1453.6	1446.2	1437.3
14.5°	1411.7	1419.6	1429.4	1439.1	1448.9	1454.4	1456.6	1454.9	1449.9	1442.5	1432.9
15°	1406.2	1414.6	1425.0	1434.9	1445.2	1450.9	1453.1	1451.2	1446.0	1438.3	1428.7
15.5°	1400.8	1409.4	1420.1	1430.4	1441.3	1447.0	1449.4	1447.2	1442.0	1434.1	1424.3
16°	1395.1	1404.0	1415.4	1426.0	1437.1	1442.8	1445.5	1443.3	1437.6	1429.7	1419.3
16.5°	1389.2	1398.6	1410.4	1421.5	1432.6	1438.8	1441.5	1439.3	1433.4	1425.2	1414.6
17°	1383.0	1392.9	1405.5	1416.6	1428.0	1434.4	1437.3	1434.9	1428.7	1420.3	1409.4
17.5°	1376.8	1387.0	1400.0	1411.4	1423.5	1429.9	1432.9	1430.2	1424.0	1415.4	1404.2
18°	1370.2	1380.8	1394.4	1406.2	1418.3	1425.2	1428.5	1425.5	1419.1	1410.2	1398.8
18.5°	1363.7	1374.6	1388.4	1400.8	1413.4	1420.5	1423.5	1420.5	1413.9	1405.0	1393.4
19°	1356.8	1368.2	1382.8	1395.4	1408.0	1415.4	1418.6	1415.4	1408.4	1399.3	1387.2
19.5°	1349.7	1361.5	1376.6	1389.4	1402.3	1410.2	1413.6	1410.2	1403.0	1393.9	1381.5
20°	1342.5	1354.9	1370.4	1383.5	1396.6	1404.5	1408.2	1404.7	1397.3	1387.9	1375.6
20.5°	1335.1	1347.4	1364.0	1377.1	1390.9	1398.8	1402.8	1399.1	1391.4	1382.0	1369.2
21°	1327.4	1340.3	1357.3	1370.7	1384.5	1392.9	1397.1	1393.1	1385.5	1375.6	1362.8



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CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1303.2	1317.3	1336.1	1350.7	1365.2	1374.4	1378.8	1374.6	1366.2	1356.3	1342.3
23°	1294.8	1309.4	1328.7	1343.5	1358.3	1367.7	1372.4	1368.2	1359.3	1348.9	1334.9
23.5°	1286.4	1301.3	1321.0	1336.1	1351.4	1361.0	1366.0	1361.5	1352.4	1341.8	1327.4
24°	1277.8	1293.1	1313.4	1328.7	1344.0	1354.1	1359.1	1354.6	1345.0	1334.6	1319.8
24.5°	1268.7	1284.5	1305.2	1321.0	1336.6	1347.0	1351.9	1347.4	1337.6	1327.2	1312.1
25°	1259.5	1275.8	1297.1	1313.1	1329.2	1339.5	1344.7	1340.0	1330.2	1319.5	1304.0
25.5°	1250.1	1266.7	1288.7	1305.0	1321.3	1332.1	1337.6	1332.6	1322.3	1311.6	1296.1
26°	1240.8	1257.8	1280.0	1296.8	1313.1	1324.2	1329.9	1324.7	1314.4	1303.5	1287.9
26.5°	1231.1	1248.7	1271.1	1288.4	1305.0	1316.3	1322.0	1316.8	1306.0	1295.3	1279.3
27°	1221.2	1239.3	1262.2	1280.0	1296.6	1308.2	1313.9	1308.7	1297.8	1286.9	1270.4
27.5°	1211.1	1229.1	1253.1	1271.4	1288.2	1300.0	1306.0	1300.5	1289.4	1278.5	1262.0
28°	1201.0	1219.5	1243.7	1262.5	1279.0	1291.4	1297.3	1291.9	1280.5	1269.4	1252.6
28.5°	1190.9	1209.6	1234.1	1253.1	1270.4	1282.7	1288.7	1283.5	1271.4	1260.8	1243.5
29°	1180.5	1199.8	1225.0	1244.0	1261.3	1273.8	1279.8	1274.3	1262.5	1251.4	1233.8
29.5°	1169.9	1189.4	1214.8	1234.6	1252.1	1265.0	1271.1	1265.5	1253.4	1242.7	1224.2
30°	1159.3	1179.5	1204.7	1225.0	1242.7	1255.6	1261.7	1256.3	1243.7	1232.6	1214.6
30.5°	1148.4	1168.9	1194.6	1215.3	1232.9	1246.4	1252.4	1247.2	1233.8	1223.2	1204.7
31°	1137.5	1158.3	1184.2	1205.4	1222.7	1237.1	1243.0	1237.3	1224.0	1213.1	1194.6
31.5°	1126.7	1147.4	1173.6	1195.3	1212.8	1227.4	1233.3	1227.7	1214.1	1203.2	1184.2
32°	1116.0	1136.5	1163.0	1185.2	1202.0	1217.3	1223.2	1218.0	1203.5	1193.3	1173.8
32.5°	1097.0	1125.4	1152.1	1174.8	1191.6	1207.4	1213.6	1207.9	1192.8	1183.0	1163.5
33°	1077.3	1114.3	1141.5	1164.2	1176.5	1197.0	1203.2	1197.5	1176.5	1172.3	1152.6
33.5°	1051.1	1103.4	1130.1	1153.3	1159.0	1186.7	1192.8	1187.2	1159.8	1162.2	1141.7
34°	1022.9	1092.8	1119.0	1142.0	1139.0	1175.6	1182.0	1176.5	1140.2	1150.9	1130.6
34.5°	994.3	1074.5	1107.6	1131.1	1116.3	1164.7	1171.6	1164.7	1118.0	1139.0	1119.7
35°	966.9	1054.8	1096.3	1115.1	1090.4	1152.3	1161.0	1151.8	1093.8	1123.9	1108.4
35.5°	939.7	1030.3	1084.7	1097.8	1062.9	1133.6	1150.1	1133.6	1066.4	1106.9	1097.0
36°	912.3	1002.9	1073.3	1078.7	1032.3	1116.8	1139.0	1117.3	1036.3	1088.9	1085.7
36.5°	883.9	976.0	1061.5	1056.5	1001.7	1095.0	1128.1	1096.5	1006.1	1067.4	1074.3
37°	853.5	949.1	1049.9	1032.3	968.8	1070.8	1117.0	1073.6	974.8	1043.7	1062.2
37.5°	822.9	922.2	1038.0	1006.1	938.0	1044.7	1105.4	1048.9	943.2	1018.7	1050.6
38°	792.0	895.0	1026.1	977.5	907.4	1016.8	1094.1	1021.7	913.0	990.8	1039.0
38.5°	761.6	867.8	1014.5	947.9	878.5	987.4	1082.5	993.0	883.4	961.9	1027.4
39°	731.8	839.7	1002.4	918.7	849.1	957.0	1071.3	963.2	854.0	932.3	1015.3
39.5°	702.6	810.5	990.8	889.3	820.2	925.6	1059.5	933.3	824.9	902.7	1003.4
40°	673.7	779.9	978.5	859.7	790.3	895.7	1048.1	903.4	795.0	873.3	991.6
40.5°	646.1	750.0	966.4	831.8	760.2	866.8	1036.0	874.5	764.9	844.6	979.7
41°	617.7	721.1	954.3	804.1	729.0	838.7	1024.2	845.6	733.5	816.7	967.4
41.5°	589.8	692.2	942.9	776.5	698.4	810.3	1011.6	817.5	702.9	789.3	954.8
42°	561.4	664.1	925.1	749.3	668.3	781.9	999.0	789.3	672.5	761.6	941.9
42.5°	533.7	637.7	906.4	721.4	639.1	753.2	986.9	760.9	642.9	733.2	927.1
43°	505.8	610.0	880.7	692.2	610.7	723.9	964.9	731.5	614.2	704.6	901.7
43.5°	479.9	582.8	852.5	664.3	582.3	694.5	943.2	701.6	586.0	675.5	879.7



TEST NUMBER: P776121

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	404.8	501.3	758.7	581.1	499.9	608.0	863.9	614.9	503.1	591.5	785.6
45.5°	381.1	475.2	727.1	555.2	472.2	580.6	832.5	586.5	476.4	564.6	752.5
46°	358.3	449.5	693.7	529.2	445.8	553.5	798.7	559.4	449.7	538.4	718.9
46.5°	336.9	425.3	660.4	503.3	420.3	526.0	764.1	532.5	424.0	512.7	685.3
47°	315.9	400.6	627.0	477.9	395.6	499.4	728.8	505.5	399.6	487.0	652.0
47.5°	296.6	377.6	593.7	452.7	371.9	473.2	693.0	479.1	375.9	461.8	619.1
48°	279.1	355.1	561.4	428.0	349.7	447.5	658.9	453.7	353.4	437.6	586.5
48.5°	263.8	333.4	531.0	404.3	328.2	422.3	625.1	427.7	331.7	413.2	554.9
49°	250.2	312.4	501.8	381.3	308.0	397.1	593.5	403.0	311.2	390.2	524.3
49.5°	238.1	293.4	473.2	359.3	288.7	373.7	562.6	379.3	291.9	367.2	494.7
50°	226.7	275.1	445.3	337.1	270.7	350.7	532.5	356.4	273.6	345.5	466.3
50.5°	217.3	258.8	419.3	316.4	253.9	329.0	503.1	333.9	256.4	324.3	439.1
51°	208.2	244.0	394.2	296.9	238.3	308.5	474.4	313.2	240.8	304.8	412.2
51.5°	199.5	231.7	370.0	278.6	226.2	288.7	446.0	293.4	228.2	285.7	387.5
52°	190.7	220.3	346.5	261.0	213.9	270.4	419.3	274.4	215.4	268.2	363.5
52.5°	182.3	210.4	324.8	244.5	201.8	252.9	392.2	256.6	202.8	250.9	340.6
53°	173.9	201.0	304.0	229.2	189.4	237.3	366.5	239.8	189.9	234.9	319.1
53.5°	167.2	192.4	284.5	214.9	177.3	224.7	342.0	226.7	177.3	221.8	298.3
54°	162.0	184.0	266.5	202.0	167.7	211.9	320.3	213.6	167.7	208.7	279.3
54.5°	158.8	175.8	249.4	190.2	160.5	199.1	298.1	200.5	160.3	195.6	261.5
55°	156.1	167.2	233.9	179.1	156.6	186.2	278.1	187.4	156.6	182.5	245.2
55.5°	153.4	160.3	219.3	168.7	153.6	173.6	258.8	174.4	153.4	171.6	229.9
56°	150.6	154.6	206.5	159.3	150.9	163.5	241.5	164.0	150.6	162.0	217.8
56.5°	148.2	151.4	194.4	152.4	148.2	155.1	227.7	155.3	147.9	154.6	205.7
57°	145.7	148.7	183.5	148.7	145.5	149.9	213.6	149.7	145.5	150.4	193.6
57.5°	143.0	146.0	173.6	146.0	143.0	146.7	199.8	146.5	142.7	147.4	181.5
58°	140.5	143.5	165.5	143.2	140.3	144.0	185.7	143.7	140.3	144.7	171.9
58.5°	138.1	140.8	158.1	140.5	137.8	141.5	171.9	141.3	137.6	142.3	163.7
59°	135.6	138.3	151.4	138.1	135.3	138.8	162.3	138.8	135.1	139.5	156.6
59.5°	133.1	135.8	145.7	135.3	132.9	136.3	154.1	136.1	132.6	137.1	150.2
60°	130.6	133.4	140.8	132.9	130.2	133.9	147.2	133.6	130.2	134.6	144.5
60.5°	127.9	130.9	136.1	130.4	127.7	131.1	141.5	131.1	127.7	131.9	139.5
61°	125.5	128.4	131.9	127.7	125.5	128.7	136.1	128.7	125.0	129.4	135.1
61.5°	123.0	126.0	128.2	125.5	123.0	126.2	131.6	126.2	122.5	126.9	130.9
62°	120.5	123.5	124.7	123.0	120.5	124.0	127.4	123.7	120.0	124.5	127.2
62.5°	117.8	121.0	121.5	120.3	118.0	121.5	123.7	121.3	117.6	122.0	124.0
63°	115.3	118.5	118.8	117.8	115.6	119.0	120.5	118.5	114.8	119.3	120.8
63.5°	112.9	115.8	116.1	115.3	113.4	116.6	117.3	116.1	112.6	116.8	118.0
64°	110.4	113.4	113.4	112.9	110.9	114.1	114.8	113.6	110.1	114.3	115.6
64.5°	107.7	110.9	110.9	110.4	108.7	111.6	112.1	111.1	107.7	111.9	112.9
65°	105.2	108.4	108.4	108.2	106.2	109.4	109.7	108.7	105.2	109.4	110.4
65.5°	102.7	105.7	105.7	105.7	104.0	106.9	107.2	106.2	102.7	106.9	107.9
66°	100.3	103.2	103.2	103.2	101.5	104.5	104.5	103.7	100.3	104.5	105.2





TEST NUMBER: P776121

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	92.9	95.8	95.8	96.1	94.6	97.3	97.1	96.3	93.1	97.1	97.8
68°	90.4	93.4	93.4	93.6	92.4	95.1	94.6	93.8	90.6	94.3	95.3
68.5°	87.9	90.9	90.9	91.1	90.1	92.6	92.4	91.6	88.2	92.1	92.9
69°	85.5	88.4	88.4	89.9	87.9	90.4	89.9	89.2	85.9	89.6	90.4
69.5°	83.2	85.9	85.9	87.4	85.7	87.9	87.2	86.7	83.5	87.2	87.9
70°	80.8	83.5	83.5	85.0	83.2	85.7	85.0	84.2	81.3	84.7	85.5
70.5°	78.3	81.0	81.0	82.2	81.0	83.5	82.5	82.0	78.8	82.2	83.0
71°	76.1	78.8	78.5	79.8	78.8	81.0	80.0	79.5	76.6	79.8	80.5
71.5°	73.6	76.1	76.3	77.5	76.6	78.8	77.5	77.1	74.1	77.3	78.0
72°	71.1	73.8	73.8	75.1	74.3	76.3	75.1	74.8	71.9	75.1	75.6
72.5°	68.7	71.1	71.4	72.9	72.1	74.1	72.9	72.4	69.4	72.6	73.1
73°	66.2	68.9	68.9	70.4	69.9	71.9	70.4	69.9	67.2	70.1	70.6
73.5°	63.7	66.4	66.4	68.2	67.7	69.6	67.9	67.7	65.0	67.7	68.2
74°	61.2	64.0	64.0	65.7	65.4	67.2	65.7	65.2	62.5	65.4	65.7
74.5°	59.0	61.5	61.5	63.5	63.2	65.0	63.2	63.0	60.3	63.0	63.5
75°	56.6	59.0	59.3	61.2	61.0	62.7	61.0	60.5	58.0	60.5	61.0
75.5°	54.1	56.6	56.8	59.0	58.8	60.5	58.5	58.3	55.6	58.3	58.5
76°	51.9	54.1	54.3	56.6	56.6	58.3	56.1	55.8	53.3	55.8	56.1
76.5°	49.4	51.6	51.9	54.3	54.3	56.1	53.8	53.3	51.1	53.3	53.8
77°	46.9	49.1	49.4	52.1	52.4	53.8	51.6	51.1	48.9	51.1	51.4
77.5°	44.5	46.7	47.2	49.6	50.1	51.6	49.1	48.7	46.7	48.7	48.9
78°	42.2	44.2	44.7	47.4	47.9	49.1	46.9	46.4	44.5	46.2	46.7
78.5°	39.8	42.0	42.2	45.2	45.7	46.9	44.5	44.0	42.0	44.0	44.2
79°	37.3	39.5	40.0	42.7	43.5	44.7	42.2	41.7	39.8	41.5	41.7
79.5°	34.8	37.0	37.5	40.5	41.2	42.5	40.0	39.3	37.8	39.0	39.5
80°	32.6	34.6	35.1	38.0	39.3	40.3	37.5	37.0	35.3	36.8	37.0
80.5°	30.1	32.1	32.8	35.8	37.0	38.0	35.3	34.6	33.1	34.3	34.8
81°	27.9	29.6	30.4	33.6	34.8	35.6	33.1	32.4	30.9	32.1	32.4
81.5°	25.4	27.2	28.2	31.4	32.6	33.3	30.9	29.9	28.6	29.6	30.1
82°	23.2	24.9	25.7	29.1	30.6	31.1	28.6	27.7	26.4	27.2	27.7
82.5°	20.7	22.5	23.5	26.9	28.4	29.1	26.4	25.2	24.2	24.9	25.4
83°	18.5	20.0	21.2	24.7	26.4	26.9	24.4	23.0	22.0	22.5	23.2
83.5°	16.1	17.5	19.3	22.5	24.2	24.7	22.5	20.7	19.8	20.3	21.2
84°	13.8	15.1	17.0	20.3	22.0	22.5	20.5	18.3	17.5	17.8	19.3
84.5°	11.4	12.8	15.1	18.3	20.0	20.5	18.3	16.1	15.3	15.6	17.3
85°	9.1	10.4	13.3	16.1	17.8	18.3	16.3	13.8	13.3	13.1	15.3
85.5°	7.7	8.9	11.4	13.8	15.8	16.3	14.3	11.9	11.1	11.1	13.3
86°	6.2	7.4	9.6	11.9	13.6	14.1	12.6	10.1	8.9	9.1	11.4
86.5°	4.9	5.7	7.9	9.6	11.6	11.9	10.6	8.4	7.2	7.7	9.6
87°	3.5	4.2	5.9	7.7	9.4	9.9	8.9	6.9	5.9	6.2	7.7
87.5°	2.2	2.7	4.2	5.7	7.4	7.9	7.2	5.4	4.7	4.9	5.9
88°	1.0	1.5	2.5	3.7	5.4	5.9	5.4	4.2	3.7	3.7	4.2
88.5°	0.2	0.5	1.0	1.7	3.5	3.7	3.7	3.0	2.5	2.2	2.2



TEST NUMBER: P776121

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0



TEST NUMBER: P776121

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1492.7	1492.7	1492.7	1492.7	1492.7	1492.7
0.5°	1492.2	1491.7	1491.7	1492.2	1492.2	1492.7
1°	1491.7	1490.9	1490.7	1491.2	1491.2	1491.7
1.5°	1490.9	1489.9	1489.5	1489.7	1490.2	1490.7
2°	1490.2	1488.7	1488.2	1488.5	1489.0	1489.7
2.5°	1489.5	1487.7	1487.0	1487.0	1487.5	1488.5
3°	1488.5	1486.5	1485.3	1485.3	1486.0	1487.0
3.5°	1487.2	1485.3	1483.8	1483.8	1484.3	1485.5
4°	1486.0	1483.5	1482.0	1481.8	1482.3	1483.8
4.5°	1484.5	1481.8	1480.1	1479.8	1480.3	1481.8
5°	1483.0	1480.1	1477.8	1477.6	1478.3	1479.8
5.5°	1481.3	1477.8	1475.9	1475.1	1476.1	1477.8
6°	1479.6	1475.4	1473.6	1472.9	1473.6	1475.4
6.5°	1477.6	1473.2	1470.9	1470.4	1470.9	1473.2
7°	1475.4	1470.7	1468.2	1467.5	1468.2	1470.4
7.5°	1472.9	1468.0	1465.5	1464.5	1465.5	1467.7
8°	1470.4	1465.0	1462.5	1461.5	1462.3	1464.8
8.5°	1468.0	1462.0	1459.3	1458.3	1459.3	1461.5
9°	1465.0	1458.8	1455.9	1454.9	1455.9	1458.3
9.5°	1462.0	1455.4	1452.4	1451.4	1452.2	1455.1
10°	1459.1	1451.9	1448.7	1447.7	1448.7	1451.4
10.5°	1455.6	1448.2	1445.2	1444.0	1445.0	1447.7
11°	1452.2	1444.5	1441.0	1440.1	1440.8	1443.8
11.5°	1448.7	1440.6	1436.8	1435.9	1436.8	1439.6
12°	1445.0	1436.4	1432.9	1431.4	1432.4	1435.4
12.5°	1441.0	1432.2	1428.5	1427.0	1428.0	1430.9
13°	1436.8	1427.5	1423.8	1422.3	1423.0	1426.5
13.5°	1432.6	1422.8	1419.1	1417.6	1418.3	1421.8
14°	1428.5	1417.8	1414.1	1412.6	1413.4	1416.8
14.5°	1423.8	1412.9	1408.9	1407.7	1408.2	1411.7
15°	1418.8	1407.7	1403.8	1402.3	1402.8	1406.2
15.5°	1413.9	1402.3	1398.3	1396.8	1397.3	1400.8
16°	1408.7	1396.6	1392.6	1391.2	1391.4	1395.1
16.5°	1403.3	1390.9	1386.7	1385.5	1385.5	1389.2
17°	1397.8	1385.0	1380.8	1379.3	1379.6	1383.0
17.5°	1392.1	1379.1	1374.6	1373.1	1373.4	1376.8
18°	1386.5	1372.6	1368.2	1366.7	1366.7	1370.2
18.5°	1380.3	1366.2	1361.8	1360.0	1360.0	1363.7
19°	1374.1	1359.3	1354.9	1353.4	1353.1	1356.8
19.5°	1367.7	1352.4	1347.9	1346.5	1346.2	1349.7
20°	1361.0	1345.5	1340.8	1339.8	1339.0	1342.5
20.5°	1354.4	1338.1	1333.4	1332.4	1331.6	1335.1
21°	1347.2	1330.9	1326.0	1325.0	1324.0	1327.4

TEST NUMBER: P776121

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1325.2	1307.4	1302.5	1301.5	1300.0	1303.2
23°	1317.6	1299.0	1294.3	1293.4	1291.6	1294.8
23.5°	1309.7	1290.6	1285.7	1285.0	1283.2	1286.4
24°	1301.5	1282.0	1277.3	1276.3	1274.3	1277.8
24.5°	1293.4	1273.1	1268.7	1267.4	1265.5	1268.7
25°	1285.0	1264.0	1260.0	1258.8	1256.6	1259.5
25.5°	1276.3	1254.8	1250.4	1249.6	1247.4	1250.1
26°	1267.4	1245.7	1241.5	1240.5	1238.0	1240.8
26.5°	1258.5	1236.3	1232.1	1231.1	1228.4	1231.1
27°	1249.2	1226.7	1222.5	1221.7	1218.8	1221.2
27.5°	1239.8	1216.6	1212.8	1211.9	1208.9	1211.1
28°	1230.4	1206.7	1202.7	1201.7	1199.0	1201.0
28.5°	1221.0	1196.3	1192.6	1191.6	1188.6	1190.9
29°	1210.9	1186.2	1182.5	1181.5	1178.5	1180.5
29.5°	1201.0	1175.8	1172.1	1171.1	1168.1	1169.9
30°	1190.6	1165.2	1161.7	1160.5	1157.5	1159.3
30.5°	1180.2	1154.1	1150.9	1149.6	1146.9	1148.4
31°	1169.6	1143.0	1140.2	1138.8	1136.0	1137.5
31.5°	1159.5	1131.4	1128.9	1127.6	1124.9	1126.7
32°	1148.6	1120.5	1117.8	1116.5	1114.1	1116.0
32.5°	1137.8	1102.0	1106.7	1105.2	1102.9	1097.0
33°	1126.7	1082.2	1095.3	1094.1	1091.6	1077.3
33.5°	1115.3	1055.0	1082.9	1082.5	1080.0	1051.1
34°	1103.4	1026.9	1072.1	1070.8	1069.4	1022.9
34.5°	1092.3	998.5	1051.8	1059.0	1056.5	994.3
35°	1074.8	970.3	1032.6	1047.1	1034.8	966.9
35.5°	1055.3	942.9	1004.9	1035.3	1014.5	939.7
36°	1030.1	915.5	979.7	1023.4	988.6	912.3
36.5°	1002.2	886.9	952.3	1011.6	961.2	883.9
37°	975.8	857.0	925.9	999.2	934.5	853.5
37.5°	948.1	826.3	899.0	987.1	908.8	822.9
38°	920.9	794.5	872.8	975.0	882.9	792.0
38.5°	894.0	763.6	845.9	962.9	856.2	761.6
39°	867.6	733.7	818.0	950.8	829.8	731.8
39.5°	838.2	704.3	788.6	938.5	801.7	702.6
40°	808.8	675.9	759.7	926.1	773.0	673.7
40.5°	778.4	648.3	730.8	913.8	744.1	646.1
41°	749.5	620.1	701.6	901.7	715.2	617.7
41.5°	719.4	591.5	673.2	888.6	687.6	589.8
42°	690.8	563.1	647.5	869.6	660.6	561.4
42.5°	663.1	535.7	621.4	849.1	634.7	533.7
43°	636.7	507.8	594.4	818.9	608.0	505.8
43.5°	608.5	481.8	568.5	789.3	581.6	479.9



TEST NUMBER: P776121

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	528.3	407.0	489.0	689.5	502.6	404.8
45.5°	500.6	382.8	464.8	658.7	477.9	381.1
46°	474.7	360.1	439.8	628.8	453.2	358.3
46.5°	449.2	338.1	416.4	599.6	429.0	336.9
47°	424.8	317.4	392.7	570.5	405.5	315.9
47.5°	400.8	298.1	370.4	541.3	383.0	296.6
48°	377.6	280.3	348.2	512.5	360.3	279.1
48.5°	355.1	264.7	327.2	485.3	339.1	263.8
49°	333.4	250.9	307.7	458.9	318.8	250.2
49.5°	312.9	238.8	289.4	433.4	299.8	238.1
50°	293.1	228.2	271.7	408.5	281.0	226.7
50.5°	274.9	218.1	256.6	386.0	264.7	217.3
51°	258.6	208.9	242.5	364.3	249.9	208.2
51.5°	244.2	200.3	230.4	343.3	236.8	199.5
52°	231.7	191.9	219.6	323.5	225.0	190.7
52.5°	220.5	183.2	209.9	304.5	214.6	182.3
53°	211.4	174.9	201.0	286.5	205.0	173.9
53.5°	202.3	167.7	192.1	269.7	196.1	167.2
54°	193.1	162.3	183.7	253.6	187.4	162.0
54.5°	184.2	158.8	175.3	238.8	179.3	158.8
55°	175.8	156.1	167.2	225.2	170.9	156.1
55.5°	167.2	153.4	160.5	212.4	163.2	153.4
56°	160.0	150.9	155.3	200.8	157.1	150.6
56.5°	154.4	148.2	152.4	190.4	153.4	148.2
57°	150.9	145.7	149.7	180.5	150.4	145.7
57.5°	148.2	143.0	146.9	171.6	147.7	143.0
58°	145.7	140.5	144.5	163.7	145.2	140.5
58.5°	143.0	138.1	141.8	156.6	142.5	138.1
59°	140.5	135.6	139.3	150.6	140.0	135.6
59.5°	138.1	133.1	136.8	145.2	137.6	133.1
60°	135.6	130.6	134.3	140.3	134.8	130.6
60.5°	133.1	128.2	131.9	136.1	132.4	127.9
61°	130.6	125.7	129.4	132.1	129.9	125.5
61.5°	128.2	123.5	126.9	128.4	127.4	123.0
62°	125.7	121.0	124.5	125.2	124.7	120.5
62.5°	123.2	118.5	122.0	122.2	122.2	117.8
63°	120.8	116.3	119.5	119.8	119.8	115.3
63.5°	118.3	113.9	117.1	117.1	117.1	112.9
64°	115.8	111.4	114.6	114.6	114.6	110.4
64.5°	113.4	109.2	112.1	111.9	111.9	107.7
65°	111.1	106.7	109.7	109.4	109.4	105.2
65.5°	108.7	104.5	107.2	106.7	106.7	102.7
66°	106.2	102.0	104.7	104.2	104.2	100.3



TEST NUMBER: P776121

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	99.0	95.1	97.6	96.8	96.6	92.9
68°	96.6	92.6	95.1	94.3	93.8	90.4
68.5°	94.1	90.4	92.6	91.6	91.4	87.9
69°	91.6	88.2	90.4	88.7	90.1	85.5
69.5°	89.4	85.9	87.9	86.4	87.4	83.2
70°	86.9	83.7	85.7	84.0	84.7	80.8
70.5°	84.5	81.3	83.2	81.7	81.7	78.3
71°	82.2	79.0	80.8	79.5	79.0	76.1
71.5°	79.8	76.8	78.5	76.8	76.6	73.6
72°	77.5	74.6	76.1	74.3	74.1	71.1
72.5°	75.1	72.1	73.8	71.9	71.6	68.7
73°	72.6	69.9	71.4	69.4	68.9	66.2
73.5°	70.4	67.4	68.9	66.9	66.4	63.7
74°	67.9	65.2	66.4	64.5	64.0	61.2
74.5°	65.7	63.0	64.2	62.0	61.5	59.0
75°	63.2	60.8	61.7	59.5	59.0	56.6
75.5°	61.0	58.3	59.3	57.0	56.6	54.1
76°	58.5	56.1	57.0	54.6	53.8	51.9
76.5°	56.3	53.8	54.6	52.1	51.4	49.4
77°	53.8	51.6	52.4	49.6	48.9	46.9
77.5°	51.6	49.1	49.9	47.2	46.4	44.5
78°	49.1	46.9	47.4	44.7	44.0	42.2
78.5°	46.9	44.7	45.2	42.2	41.5	39.8
79°	44.5	42.2	42.7	39.8	39.0	37.3
79.5°	42.0	40.0	40.3	37.3	36.6	34.8
80°	39.8	37.8	37.8	35.1	33.8	32.6
80.5°	37.3	35.6	35.6	32.6	31.4	30.1
81°	35.1	33.3	33.1	30.4	28.9	27.9
81.5°	32.6	31.1	30.9	27.9	26.4	25.4
82°	30.4	28.6	28.4	25.7	24.0	23.2
82.5°	28.2	26.4	26.2	23.5	21.5	20.7
83°	25.9	24.2	24.0	21.2	19.0	18.5
83.5°	23.7	22.0	21.5	19.0	16.5	16.1
84°	21.2	19.8	19.3	17.0	14.3	13.8
84.5°	19.0	17.5	17.0	14.8	12.3	11.4
85°	16.8	15.3	14.8	12.8	10.4	9.1
85.5°	14.6	13.1	12.3	10.9	8.6	7.7
86°	12.3	10.9	10.1	8.9	7.2	6.2
86.5°	10.1	8.6	8.1	6.9	5.7	4.9
87°	8.1	6.7	6.2	4.9	4.0	3.5
87.5°	5.9	4.7	4.2	3.2	2.5	2.2
88°	4.0	2.5	2.2	1.2	1.0	1.0
88.5°	1.7	0.5	0.2	0.2	0.2	0.2



TEST NUMBER: P776121

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.2	0.0	0.0



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Cooper Lighting Solutions Photometric Lab  
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Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - 135°-315°

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Scaled Data Report



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Scaled Data Report





21.5°	1319.3	1332.9	1350.4	1364.2	1378.1	1387.0	1390.9	1387.0	1379.1	1369.2	1356.1
22°	1311.4	1325.2	1343.2	1357.6	1371.6	1380.8	1385.0	1381.0	1372.6	1362.8	1349.2



44°	453.7	554.9	822.1	635.9	554.2	664.6	920.4	672.0	557.9	646.8	849.6
44.5°	429.0	528.3	791.3	608.5	526.8	635.9	892.8	643.1	530.5	618.9	818.0



66.5°	97.8	100.8	100.8	100.8	99.3	102.0	102.0	101.3	97.8	102.0	102.7
67°	95.3	98.3	98.3	98.5	97.1	99.8	99.5	98.8	95.3	99.5	100.3



89°	0.0	0.2	0.2	0.5	1.5	2.0	2.0	1.5	1.2	1.0	0.7
89.5°	0.0	0.0	0.2	0.2	0.2	0.5	0.7	0.5	0.2	0.2	0.2



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21.5°	1340.0	1323.2	1318.3	1317.3	1316.1	1319.3
22°	1332.9	1315.3	1310.4	1309.7	1308.4	1311.4



44°	581.4	455.4	541.6	753.7	555.2	453.7
44.5°	554.4	431.2	515.4	721.9	529.0	429.0



66.5°	103.7	99.8	102.2	101.7	101.5	97.8
67°	101.3	97.3	100.0	99.3	99.0	95.3

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89°	0.5	0.0	0.2	0.2	0.2	0.0
89.5°	0.0	0.0	0.0	0.2	0.2	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)