

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: P776072

Luminaire Tested: HCDJBS1525CSD-HCD62TRMW-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B057-HCD62TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD62TRMW-2500lm-3500K
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

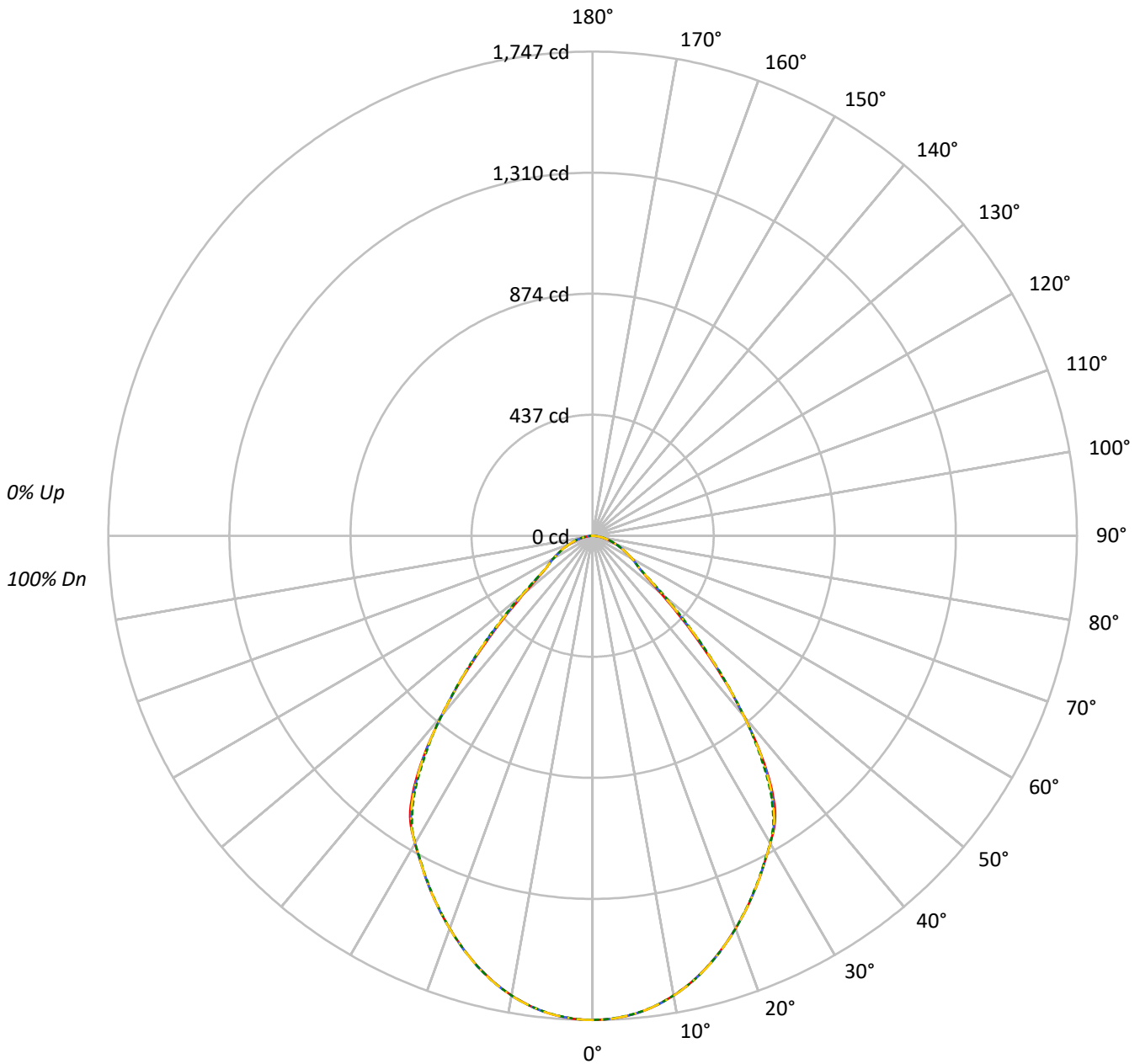
Lumens per Lamp: N/A
Luminaire Lumens: 2781.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P776072
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMW-2500lm-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52																			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47																			
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40																			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	95787	95787	95787	95787
5°	95289	95245	95289	95245
10°	93764	93764	93764	93764
15°	91204	91243	91204	91243
20°	87968	87939	87968	87939
25°	84477	84344	84477	84344
30°	81158	81025	81158	81025
35°	75683	74572	75683	74572
40°	60750	60821	60750	60821
45°	42508	43787	42508	43787
50°	27172	28946	27172	28946
55°	19765	20081	19765	20081
60°	17948	17871	17948	17871
65°	16124	16059	16124	16059
70°	14297	14506	14297	14506
75°	12476	13111	12476	13111
80°	10292	11649	10292	11649
85°	6290	9624	6290	9624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 43787 cd/sqm



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	5.9
10°-20°	451.9	16.2
20°-30°	642.6	23.1
30°-40°	687.0	24.7
40°-50°	434.1	15.6
50°-60°	197.5	7.1
60°-70°	123.7	4.4
70°-80°	65.0	2.3
80°-90°	16.0	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°	1258.4	45.2
0°-40°	1945.3	69.9
0°-60°	2577.0	92.6
0°-90°	2781.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2781.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1747	1747	1747	1747	1747	
5°	1732	1731	1732	1731	1732	164
15°	1607	1608	1607	1608	1607	452
25°	1397	1394	1397	1394	1397	643
35°	1131	1114	1131	1114	1131	690
45°	548	565	548	565	548	428
55°	207	210	207	210	207	195
65°	124	124	124	124	124	124
75°	59	62	59	62	59	63
85°	10	15	10	15	10	13
90°	0	1	0	1	0	



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1747.3	1747.3	1747.3	1747.3	1747.3	1747.3	1747.3	1747.3	1747.3	1747.3	1747.3
0.5°	1747.1	1747.3	1747.1	1747.1	1746.3	1747.1	1747.1	1747.3	1747.1	1747.3	1747.1
1°	1746.6	1746.8	1746.8	1746.6	1745.8	1746.6	1746.8	1746.8	1746.6	1746.8	1746.8
1.5°	1745.8	1746.1	1745.8	1745.8	1745.1	1745.8	1745.8	1746.1	1745.8	1746.1	1745.8
2°	1744.8	1744.8	1744.8	1744.8	1743.8	1744.8	1744.8	1744.8	1744.8	1744.8	1744.8
2.5°	1743.3	1743.3	1743.6	1743.3	1742.6	1743.3	1743.6	1743.3	1743.3	1743.3	1743.6
3°	1741.6	1741.8	1741.8	1741.8	1740.8	1741.8	1741.8	1741.8	1741.6	1741.8	1741.8
3.5°	1739.6	1739.6	1739.8	1739.8	1738.8	1739.8	1739.8	1739.6	1739.6	1739.6	1739.8
4°	1737.3	1737.3	1737.3	1737.3	1736.6	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3
4.5°	1734.6	1734.8	1734.8	1734.8	1733.8	1734.8	1734.8	1734.8	1734.6	1734.8	1734.8
5°	1731.6	1731.8	1731.8	1731.8	1730.8	1731.8	1731.8	1731.8	1731.6	1731.8	1731.8
5.5°	1728.3	1728.5	1728.5	1728.5	1727.5	1728.5	1728.5	1728.5	1728.3	1728.5	1728.5
6°	1724.8	1724.8	1724.8	1724.8	1724.0	1724.8	1724.8	1724.8	1724.8	1724.8	1724.8
6.5°	1720.8	1720.8	1721.0	1721.0	1720.3	1721.0	1721.0	1720.8	1720.8	1720.8	1721.0
7°	1716.5	1716.8	1716.8	1716.8	1716.0	1716.8	1716.8	1716.8	1716.5	1716.8	1716.8
7.5°	1712.0	1712.0	1712.2	1712.2	1711.5	1712.2	1712.2	1712.0	1712.0	1712.0	1712.2
8°	1707.0	1707.2	1707.5	1707.5	1706.7	1707.5	1707.5	1707.2	1707.0	1707.2	1707.5
8.5°	1701.7	1702.0	1702.2	1702.2	1701.5	1702.2	1702.2	1702.0	1701.7	1702.0	1702.2
9°	1696.2	1696.5	1696.7	1697.0	1696.2	1697.0	1696.7	1696.5	1696.2	1696.5	1696.7
9.5°	1690.4	1690.7	1690.9	1691.2	1690.4	1691.2	1690.9	1690.7	1690.4	1690.7	1690.9
10°	1684.4	1684.4	1684.7	1685.2	1684.4	1685.2	1684.7	1684.4	1684.4	1684.4	1684.7
10.5°	1677.9	1677.9	1678.4	1678.7	1677.9	1678.7	1678.4	1677.9	1677.9	1677.9	1678.4
11°	1671.1	1671.1	1671.6	1672.1	1671.1	1672.1	1671.6	1671.1	1671.1	1671.1	1671.6
11.5°	1663.9	1664.1	1664.6	1665.1	1664.4	1665.1	1664.6	1664.1	1663.9	1664.1	1664.6
12°	1656.6	1656.8	1657.3	1657.8	1657.1	1657.8	1657.3	1656.8	1656.6	1656.8	1657.3
12.5°	1649.1	1649.3	1649.6	1650.1	1649.6	1650.1	1649.6	1649.3	1649.1	1649.3	1649.6
13°	1641.0	1641.3	1641.8	1642.3	1641.8	1642.3	1641.8	1641.3	1641.0	1641.3	1641.8
13.5°	1633.0	1633.3	1633.8	1634.3	1633.5	1634.3	1633.8	1633.3	1633.0	1633.3	1633.8
14°	1624.5	1625.0	1625.5	1625.8	1625.3	1625.8	1625.5	1625.0	1624.5	1625.0	1625.5
14.5°	1616.0	1616.2	1616.7	1617.2	1616.7	1617.2	1616.7	1616.2	1616.0	1616.2	1616.7
15°	1607.0	1607.5	1608.0	1608.5	1607.7	1608.5	1608.0	1607.5	1607.0	1607.5	1608.0
15.5°	1597.9	1598.2	1598.7	1599.2	1598.4	1599.2	1598.7	1598.2	1597.9	1598.2	1598.7
16°	1588.4	1588.9	1589.4	1589.9	1589.2	1589.9	1589.4	1588.9	1588.4	1588.9	1589.4
16.5°	1579.1	1579.4	1579.9	1580.4	1579.6	1580.4	1579.9	1579.4	1579.1	1579.4	1579.9
17°	1569.4	1569.6	1570.1	1570.6	1569.9	1570.6	1570.1	1569.6	1569.4	1569.6	1570.1
17.5°	1559.6	1559.6	1560.1	1560.6	1559.8	1560.6	1560.1	1559.6	1559.6	1559.6	1560.1
18°	1549.3	1549.8	1550.0	1550.3	1549.5	1550.3	1550.0	1549.8	1549.3	1549.8	1550.0
18.5°	1539.0	1539.5	1539.8	1540.0	1539.3	1540.0	1539.8	1539.5	1539.0	1539.5	1539.8
19°	1528.7	1529.2	1529.5	1529.5	1529.0	1529.5	1529.5	1529.2	1528.7	1529.2	1529.5
19.5°	1518.5	1518.7	1519.0	1519.2	1518.5	1519.2	1519.0	1518.7	1518.5	1518.7	1519.0
20°	1507.9	1508.2	1508.4	1508.4	1507.4	1508.4	1508.4	1508.2	1507.9	1508.2	1508.4
20.5°	1497.4	1497.4	1497.4	1497.4	1496.6	1497.4	1497.4	1497.4	1497.4	1497.4	1497.4
21°	1486.1	1486.4	1486.6	1486.4	1485.6	1486.4	1486.6	1486.4	1486.1	1486.4	1486.6



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1453.5	1453.5	1453.3	1453.0	1452.0	1453.0	1453.3	1453.5	1453.5	1453.5	1453.3
23°	1442.2	1442.2	1442.0	1441.7	1440.7	1441.7	1442.0	1442.2	1442.2	1442.2	1442.0
23.5°	1431.0	1431.0	1430.7	1430.2	1429.5	1430.2	1430.7	1431.0	1431.0	1431.0	1430.7
24°	1419.7	1419.7	1419.4	1418.7	1417.7	1418.7	1419.4	1419.7	1419.7	1419.7	1419.4
24.5°	1408.4	1408.2	1407.9	1407.2	1406.1	1407.2	1407.9	1408.2	1408.4	1408.2	1407.9
25°	1396.6	1396.6	1396.4	1395.6	1394.4	1395.6	1396.4	1396.6	1396.6	1396.6	1396.4
25.5°	1385.1	1385.1	1384.8	1383.8	1382.8	1383.8	1384.8	1385.1	1385.1	1385.1	1384.8
26°	1373.6	1373.6	1373.3	1372.6	1371.3	1372.6	1373.3	1373.6	1373.6	1373.6	1373.3
26.5°	1361.8	1361.8	1361.5	1360.5	1359.5	1360.5	1361.5	1361.8	1361.8	1361.8	1361.5
27°	1350.0	1350.2	1350.0	1349.0	1347.7	1349.0	1350.0	1350.2	1350.0	1350.2	1350.0
27.5°	1338.5	1338.5	1338.2	1337.5	1336.2	1337.5	1338.2	1338.5	1338.5	1338.5	1338.2
28°	1326.4	1326.9	1326.7	1325.9	1324.9	1325.9	1326.7	1326.9	1326.4	1326.9	1326.7
28.5°	1315.1	1315.6	1315.4	1314.6	1313.6	1314.6	1315.4	1315.6	1315.1	1315.6	1315.4
29°	1303.9	1304.4	1304.1	1303.6	1302.4	1303.6	1304.1	1304.4	1303.9	1304.4	1304.1
29.5°	1292.8	1293.1	1293.1	1292.3	1291.3	1292.3	1293.1	1293.1	1292.8	1293.1	1293.1
30°	1282.1	1282.1	1282.1	1281.1	1280.0	1281.1	1282.1	1282.1	1282.1	1282.1	1282.1
30.5°	1271.0	1271.3	1270.8	1270.0	1268.8	1270.0	1270.8	1271.3	1271.0	1271.3	1270.8
31°	1260.2	1260.2	1259.7	1258.5	1257.0	1258.5	1259.7	1260.2	1260.2	1260.2	1259.7
31.5°	1248.7	1248.7	1247.7	1246.5	1244.4	1246.5	1247.7	1248.7	1248.7	1248.7	1247.7
32°	1236.9	1236.2	1234.4	1232.2	1229.4	1232.2	1234.4	1236.2	1236.9	1236.2	1234.4
32.5°	1224.1	1222.4	1219.6	1215.9	1212.6	1215.9	1219.6	1222.4	1224.1	1222.4	1219.6
33°	1209.6	1207.6	1202.8	1198.6	1195.1	1198.6	1202.8	1207.6	1209.6	1207.6	1202.8
33.5°	1192.8	1191.1	1184.5	1180.0	1176.5	1180.0	1184.5	1191.1	1192.8	1191.1	1184.5
34°	1173.8	1173.0	1165.2	1160.2	1157.2	1160.2	1165.2	1173.0	1173.8	1173.0	1165.2
34.5°	1152.9	1151.7	1144.7	1139.2	1136.4	1139.2	1144.7	1151.7	1152.9	1151.7	1144.7
35°	1130.9	1128.9	1122.9	1116.8	1114.3	1116.8	1122.9	1128.9	1130.9	1128.9	1122.9
35.5°	1107.6	1104.8	1100.0	1093.8	1090.5	1093.8	1100.0	1104.8	1107.6	1104.8	1100.0
36°	1082.8	1079.2	1076.2	1070.0	1066.0	1070.0	1076.2	1079.2	1082.8	1079.2	1076.2
36.5°	1056.7	1052.9	1050.9	1044.9	1039.9	1044.9	1050.9	1052.9	1056.7	1052.9	1050.9
37°	1029.4	1025.8	1024.3	1018.8	1013.8	1018.8	1024.3	1025.8	1029.4	1025.8	1024.3
37.5°	1000.8	998.3	996.8	992.3	987.2	992.3	996.8	998.3	1000.8	998.3	996.8
38°	971.2	969.7	968.2	965.2	960.9	965.2	968.2	969.7	971.2	969.7	968.2
38.5°	940.9	940.9	938.4	937.3	933.6	937.3	938.4	940.9	940.9	940.9	938.4
39°	910.8	911.3	908.8	908.5	907.0	908.5	908.8	911.3	910.8	911.3	908.8
39.5°	879.9	880.7	878.2	878.9	878.7	878.9	878.2	880.7	879.9	880.7	878.2
40°	848.9	850.4	848.1	849.4	849.9	849.4	848.1	850.4	848.9	850.4	848.1
40.5°	817.3	819.5	818.0	820.0	820.5	820.0	818.0	819.5	817.3	819.5	818.0
41°	786.4	788.9	788.4	790.2	791.9	790.2	788.4	788.9	786.4	788.9	788.4
41.5°	755.8	757.6	759.1	761.4	762.1	761.4	759.1	757.6	755.8	757.6	759.1
42°	725.3	726.8	729.8	731.8	733.8	731.8	729.8	726.8	725.3	726.8	729.8
42.5°	694.9	696.4	700.7	703.2	705.0	703.2	700.7	696.4	694.9	696.4	700.7
43°	664.6	666.6	672.1	674.4	676.1	674.4	672.1	666.6	664.6	666.6	672.1
43.5°	634.8	636.5	643.3	645.5	647.0	645.5	643.3	636.5	634.8	636.5	643.3



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	548.3	551.3	558.8	563.1	564.8	563.1	558.8	551.3	548.3	551.3	558.8
45.5°	520.4	524.2	532.0	536.7	538.5	536.7	532.0	524.2	520.4	524.2	532.0
46°	493.9	498.1	505.7	511.2	513.4	511.2	505.7	498.1	493.9	498.1	505.7
46.5°	468.0	472.8	480.1	486.3	488.9	486.3	480.1	472.8	468.0	472.8	480.1
47°	443.0	448.2	455.3	462.0	464.8	462.0	455.3	448.2	443.0	448.2	455.3
47.5°	419.2	424.2	431.7	438.7	441.2	438.7	431.7	424.2	419.2	424.2	431.7
48°	396.6	401.6	409.1	416.4	419.2	416.4	409.1	401.6	396.6	401.6	409.1
48.5°	375.5	379.8	387.3	394.8	397.9	394.8	387.3	379.8	375.5	379.8	387.3
49°	355.2	359.2	366.5	374.5	377.3	374.5	366.5	359.2	355.2	359.2	366.5
49.5°	336.2	339.7	347.2	354.7	358.0	354.7	347.2	339.7	336.2	339.7	347.2
50°	318.6	321.1	328.9	336.4	339.4	336.4	328.9	321.1	318.6	321.1	328.9
50.5°	302.3	304.1	311.9	318.9	321.9	318.9	311.9	304.1	302.3	304.1	311.9
51°	287.3	288.8	295.8	302.1	305.6	302.1	295.8	288.8	287.3	288.8	295.8
51.5°	273.3	274.5	281.0	286.8	290.1	286.8	281.0	274.5	273.3	274.5	281.0
52°	260.5	261.7	267.7	272.5	275.3	272.5	267.7	261.7	260.5	261.7	267.7
52.5°	248.7	249.7	255.0	259.0	261.5	259.0	255.0	249.7	248.7	249.7	255.0
53°	237.9	239.7	243.4	246.7	248.7	246.7	243.4	239.7	237.9	239.7	243.4
53.5°	229.4	230.4	232.9	235.7	237.2	235.7	232.9	230.4	229.4	230.4	232.9
54°	221.4	221.6	223.4	225.4	226.6	225.4	223.4	221.6	221.4	221.6	223.4
54.5°	214.1	214.1	214.8	216.3	217.9	216.3	214.8	214.1	214.1	214.1	214.8
55°	206.8	207.1	208.1	209.1	210.1	209.1	208.1	207.1	206.8	207.1	208.1
55.5°	200.1	201.1	202.1	202.8	204.6	202.8	202.1	201.1	200.1	201.1	202.1
56°	195.3	195.8	196.5	197.0	199.1	197.0	196.5	195.8	195.3	195.8	196.5
56.5°	191.3	191.3	191.3	191.8	193.5	191.8	191.3	191.3	191.3	191.3	191.3
57°	187.5	187.5	187.0	186.8	188.0	186.8	187.0	187.5	187.5	187.5	187.0
57.5°	184.0	183.8	183.3	182.8	182.5	182.8	183.3	183.8	184.0	183.8	183.3
58°	180.2	180.0	179.5	179.0	178.5	179.0	179.5	180.0	180.2	180.0	179.5
58.5°	176.2	176.0	175.5	175.0	174.7	175.0	175.5	176.0	176.2	176.0	175.5
59°	172.2	172.0	171.7	171.2	170.7	171.2	171.7	172.0	172.2	172.0	171.7
59.5°	168.0	168.0	167.5	167.2	167.0	167.2	167.5	168.0	168.0	168.0	167.5
60°	163.7	163.7	163.5	163.2	163.0	163.2	163.5	163.7	163.7	163.7	163.5
60.5°	159.4	159.4	159.2	158.9	158.7	158.9	159.2	159.4	159.4	159.4	159.2
61°	155.4	155.4	155.2	154.9	154.7	154.9	155.2	155.4	155.4	155.4	155.2
61.5°	151.4	151.4	151.2	150.9	150.7	150.9	151.2	151.4	151.4	151.4	151.2
62°	147.4	147.4	147.2	146.9	146.7	146.9	147.2	147.4	147.4	147.4	147.2
62.5°	143.4	143.4	143.1	142.9	142.6	142.9	143.1	143.4	143.4	143.4	143.1
63°	139.6	139.4	139.4	138.9	138.9	138.9	139.4	139.4	139.6	139.4	139.4
63.5°	135.6	135.6	135.4	135.1	135.1	135.1	135.4	135.6	135.6	135.6	135.4
64°	131.9	131.9	131.6	131.4	131.1	131.4	131.6	131.9	131.9	131.9	131.6
64.5°	128.1	128.1	127.9	127.6	127.6	127.6	127.9	128.1	128.1	128.1	127.9
65°	124.3	124.6	124.3	124.1	123.8	124.1	124.3	124.6	124.3	124.6	124.3
65.5°	120.6	120.8	120.8	120.6	120.3	120.6	120.8	120.8	120.6	120.8	120.8
66°	117.1	117.3	117.1	116.8	116.8	116.8	117.1	117.3	117.1	117.3	117.1



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	106.3	106.8	106.8	106.5	106.5	106.5	106.8	106.8	106.3	106.8	106.8
68°	102.8	103.3	103.5	103.3	103.3	103.3	103.5	103.3	102.8	103.3	103.5
68.5°	99.5	100.0	100.3	100.0	100.0	100.0	100.3	100.0	99.5	100.0	100.3
69°	96.0	96.8	97.0	97.0	96.8	97.0	97.0	96.8	96.0	96.8	97.0
69.5°	92.5	93.5	94.0	93.8	93.8	93.8	94.0	93.5	92.5	93.5	94.0
70°	89.2	90.0	90.8	90.8	90.5	90.8	90.8	90.0	89.2	90.0	90.8
70.5°	86.0	87.0	87.7	87.5	87.5	87.5	87.7	87.0	86.0	87.0	87.7
71°	83.0	84.0	84.7	84.7	84.5	84.7	84.7	84.0	83.0	84.0	84.7
71.5°	79.7	80.7	81.7	81.7	81.5	81.7	81.7	80.7	79.7	80.7	81.7
72°	76.7	77.7	78.7	78.7	78.5	78.7	78.7	77.7	76.7	77.7	78.7
72.5°	73.7	74.7	76.0	75.7	75.7	75.7	76.0	74.7	73.7	74.7	76.0
73°	70.4	71.7	73.0	73.0	72.7	73.0	73.0	71.7	70.4	71.7	73.0
73.5°	67.4	68.7	70.2	70.2	69.9	70.2	70.2	68.7	67.4	68.7	70.2
74°	64.7	65.7	67.2	67.4	67.2	67.4	67.2	65.7	64.7	65.7	67.2
74.5°	61.7	62.9	64.4	64.7	64.4	64.7	64.4	62.9	61.7	62.9	64.4
75°	58.9	59.9	61.7	61.9	61.9	61.9	61.7	59.9	58.9	59.9	61.7
75.5°	56.2	57.2	59.2	59.2	59.2	59.2	59.2	57.2	56.2	57.2	59.2
76°	53.4	54.4	56.4	56.7	56.7	56.7	56.4	54.4	53.4	54.4	56.4
76.5°	50.6	51.6	53.6	54.2	53.9	54.2	53.6	51.6	50.6	51.6	53.6
77°	47.9	49.1	51.1	51.6	51.4	51.6	51.1	49.1	47.9	49.1	51.1
77.5°	45.1	46.4	48.6	49.1	48.9	49.1	48.6	46.4	45.1	46.4	48.6
78°	42.6	43.9	45.9	46.6	46.4	46.6	45.9	43.9	42.6	43.9	45.9
78.5°	40.1	41.1	43.4	44.1	44.1	44.1	43.4	41.1	40.1	41.1	43.4
79°	37.6	38.6	40.9	41.6	41.6	41.6	40.9	38.6	37.6	38.6	40.9
79.5°	35.1	36.1	38.6	39.4	39.4	39.4	38.6	36.1	35.1	36.1	38.6
80°	32.6	33.6	36.1	36.9	36.9	36.9	36.1	33.6	32.6	33.6	36.1
80.5°	30.3	31.3	33.8	34.6	34.6	34.6	33.8	31.3	30.3	31.3	33.8
81°	27.8	28.8	31.3	32.3	32.3	32.3	31.3	28.8	27.8	28.8	31.3
81.5°	25.6	26.3	29.1	30.1	30.1	30.1	29.1	26.3	25.6	26.3	29.1
82°	23.3	24.1	26.8	27.8	27.8	27.8	26.8	24.1	23.3	24.1	26.8
82.5°	20.8	21.8	24.6	25.8	25.8	25.8	24.6	21.8	20.8	21.8	24.6
83°	18.6	19.6	22.3	23.6	23.6	23.6	22.3	19.6	18.6	19.6	22.3
83.5°	16.3	17.3	20.3	21.6	21.3	21.6	20.3	17.3	16.3	17.3	20.3
84°	14.3	15.0	18.3	19.3	19.3	19.3	18.3	15.0	14.3	15.0	18.3
84.5°	12.0	12.8	16.3	17.3	17.3	17.3	16.3	12.8	12.0	12.8	16.3
85°	10.0	10.8	14.3	15.3	15.3	15.3	14.3	10.8	10.0	10.8	14.3
85.5°	8.0	9.0	12.3	13.3	13.3	13.3	12.3	9.0	8.0	9.0	12.3
86°	6.5	7.3	10.5	11.3	11.3	11.3	10.5	7.3	6.5	7.3	10.5
86.5°	5.3	6.0	8.5	9.3	9.5	9.3	8.5	6.0	5.3	6.0	8.5
87°	4.0	4.8	7.0	7.5	7.5	7.5	7.0	4.8	4.0	4.8	7.0
87.5°	3.0	3.5	5.3	5.8	5.8	5.8	5.3	3.5	3.0	3.5	5.3
88°	2.0	2.5	3.8	4.0	4.3	4.0	3.8	2.5	2.0	2.5	3.8
88.5°	1.0	1.5	2.5	3.0	3.3	3.0	2.5	1.5	1.0	1.5	2.5



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.3	0.3	0.5	0.8	0.5	0.3	0.3	0.0	0.3	0.3



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1747.3	1747.3	1747.3	1747.3	1747.3	1747.3
0.5°	1747.1	1746.3	1747.1	1747.1	1747.3	1747.1
1°	1746.6	1745.8	1746.6	1746.8	1746.8	1746.6
1.5°	1745.8	1745.1	1745.8	1745.8	1746.1	1745.8
2°	1744.8	1743.8	1744.8	1744.8	1744.8	1744.8
2.5°	1743.3	1742.6	1743.3	1743.6	1743.3	1743.3
3°	1741.8	1740.8	1741.8	1741.8	1741.8	1741.6
3.5°	1739.8	1738.8	1739.8	1739.8	1739.6	1739.6
4°	1737.3	1736.6	1737.3	1737.3	1737.3	1737.3
4.5°	1734.8	1733.8	1734.8	1734.8	1734.8	1734.6
5°	1731.8	1730.8	1731.8	1731.8	1731.8	1731.6
5.5°	1728.5	1727.5	1728.5	1728.5	1728.5	1728.3
6°	1724.8	1724.0	1724.8	1724.8	1724.8	1724.8
6.5°	1721.0	1720.3	1721.0	1721.0	1720.8	1720.8
7°	1716.8	1716.0	1716.8	1716.8	1716.8	1716.5
7.5°	1712.2	1711.5	1712.2	1712.2	1712.0	1712.0
8°	1707.5	1706.7	1707.5	1707.5	1707.2	1707.0
8.5°	1702.2	1701.5	1702.2	1702.2	1702.0	1701.7
9°	1697.0	1696.2	1697.0	1696.7	1696.5	1696.2
9.5°	1691.2	1690.4	1691.2	1690.9	1690.7	1690.4
10°	1685.2	1684.4	1685.2	1684.7	1684.4	1684.4
10.5°	1678.7	1677.9	1678.7	1678.4	1677.9	1677.9
11°	1672.1	1671.1	1672.1	1671.6	1671.1	1671.1
11.5°	1665.1	1664.4	1665.1	1664.6	1664.1	1663.9
12°	1657.8	1657.1	1657.8	1657.3	1656.8	1656.6
12.5°	1650.1	1649.6	1650.1	1649.6	1649.3	1649.1
13°	1642.3	1641.8	1642.3	1641.8	1641.3	1641.0
13.5°	1634.3	1633.5	1634.3	1633.8	1633.3	1633.0
14°	1625.8	1625.3	1625.8	1625.5	1625.0	1624.5
14.5°	1617.2	1616.7	1617.2	1616.7	1616.2	1616.0
15°	1608.5	1607.7	1608.5	1608.0	1607.5	1607.0
15.5°	1599.2	1598.4	1599.2	1598.7	1598.2	1597.9
16°	1589.9	1589.2	1589.9	1589.4	1588.9	1588.4
16.5°	1580.4	1579.6	1580.4	1579.9	1579.4	1579.1
17°	1570.6	1569.9	1570.6	1570.1	1569.6	1569.4
17.5°	1560.6	1559.8	1560.6	1560.1	1559.6	1559.6
18°	1550.3	1549.5	1550.3	1550.0	1549.8	1549.3
18.5°	1540.0	1539.3	1540.0	1539.8	1539.5	1539.0
19°	1529.5	1529.0	1529.5	1529.5	1529.2	1528.7
19.5°	1519.2	1518.5	1519.2	1519.0	1518.7	1518.5
20°	1508.4	1507.4	1508.4	1508.4	1508.2	1507.9
20.5°	1497.4	1496.6	1497.4	1497.4	1497.4	1497.4
21°	1486.4	1485.6	1486.4	1486.6	1486.4	1486.1



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1453.0	1452.0	1453.0	1453.3	1453.5	1453.5
23°	1441.7	1440.7	1441.7	1442.0	1442.2	1442.2
23.5°	1430.2	1429.5	1430.2	1430.7	1431.0	1431.0
24°	1418.7	1417.7	1418.7	1419.4	1419.7	1419.7
24.5°	1407.2	1406.1	1407.2	1407.9	1408.2	1408.4
25°	1395.6	1394.4	1395.6	1396.4	1396.6	1396.6
25.5°	1383.8	1382.8	1383.8	1384.8	1385.1	1385.1
26°	1372.6	1371.3	1372.6	1373.3	1373.6	1373.6
26.5°	1360.5	1359.5	1360.5	1361.5	1361.8	1361.8
27°	1349.0	1347.7	1349.0	1350.0	1350.2	1350.0
27.5°	1337.5	1336.2	1337.5	1338.2	1338.5	1338.5
28°	1325.9	1324.9	1325.9	1326.7	1326.9	1326.4
28.5°	1314.6	1313.6	1314.6	1315.4	1315.6	1315.1
29°	1303.6	1302.4	1303.6	1304.1	1304.4	1303.9
29.5°	1292.3	1291.3	1292.3	1293.1	1293.1	1292.8
30°	1281.1	1280.0	1281.1	1282.1	1282.1	1282.1
30.5°	1270.0	1268.8	1270.0	1270.8	1271.3	1271.0
31°	1258.5	1257.0	1258.5	1259.7	1260.2	1260.2
31.5°	1246.5	1244.4	1246.5	1247.7	1248.7	1248.7
32°	1232.2	1229.4	1232.2	1234.4	1236.2	1236.9
32.5°	1215.9	1212.6	1215.9	1219.6	1222.4	1224.1
33°	1198.6	1195.1	1198.6	1202.8	1207.6	1209.6
33.5°	1180.0	1176.5	1180.0	1184.5	1191.1	1192.8
34°	1160.2	1157.2	1160.2	1165.2	1173.0	1173.8
34.5°	1139.2	1136.4	1139.2	1144.7	1151.7	1152.9
35°	1116.8	1114.3	1116.8	1122.9	1128.9	1130.9
35.5°	1093.8	1090.5	1093.8	1100.0	1104.8	1107.6
36°	1070.0	1066.0	1070.0	1076.2	1079.2	1082.8
36.5°	1044.9	1039.9	1044.9	1050.9	1052.9	1056.7
37°	1018.8	1013.8	1018.8	1024.3	1025.8	1029.4
37.5°	992.3	987.2	992.3	996.8	998.3	1000.8
38°	965.2	960.9	965.2	968.2	969.7	971.2
38.5°	937.3	933.6	937.3	938.4	940.9	940.9
39°	908.5	907.0	908.5	908.8	911.3	910.8
39.5°	878.9	878.7	878.9	878.2	880.7	879.9
40°	849.4	849.9	849.4	848.1	850.4	848.9
40.5°	820.0	820.5	820.0	818.0	819.5	817.3
41°	790.2	791.9	790.2	788.4	788.9	786.4
41.5°	761.4	762.1	761.4	759.1	757.6	755.8
42°	731.8	733.8	731.8	729.8	726.8	725.3
42.5°	703.2	705.0	703.2	700.7	696.4	694.9
43°	674.4	676.1	674.4	672.1	666.6	664.6
43.5°	645.5	647.0	645.5	643.3	636.5	634.8



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	563.1	564.8	563.1	558.8	551.3	548.3
45.5°	536.7	538.5	536.7	532.0	524.2	520.4
46°	511.2	513.4	511.2	505.7	498.1	493.9
46.5°	486.3	488.9	486.3	480.1	472.8	468.0
47°	462.0	464.8	462.0	455.3	448.2	443.0
47.5°	438.7	441.2	438.7	431.7	424.2	419.2
48°	416.4	419.2	416.4	409.1	401.6	396.6
48.5°	394.8	397.9	394.8	387.3	379.8	375.5
49°	374.5	377.3	374.5	366.5	359.2	355.2
49.5°	354.7	358.0	354.7	347.2	339.7	336.2
50°	336.4	339.4	336.4	328.9	321.1	318.6
50.5°	318.9	321.9	318.9	311.9	304.1	302.3
51°	302.1	305.6	302.1	295.8	288.8	287.3
51.5°	286.8	290.1	286.8	281.0	274.5	273.3
52°	272.5	275.3	272.5	267.7	261.7	260.5
52.5°	259.0	261.5	259.0	255.0	249.7	248.7
53°	246.7	248.7	246.7	243.4	239.7	237.9
53.5°	235.7	237.2	235.7	232.9	230.4	229.4
54°	225.4	226.6	225.4	223.4	221.6	221.4
54.5°	216.3	217.9	216.3	214.8	214.1	214.1
55°	209.1	210.1	209.1	208.1	207.1	206.8
55.5°	202.8	204.6	202.8	202.1	201.1	200.1
56°	197.0	199.1	197.0	196.5	195.8	195.3
56.5°	191.8	193.5	191.8	191.3	191.3	191.3
57°	186.8	188.0	186.8	187.0	187.5	187.5
57.5°	182.8	182.5	182.8	183.3	183.8	184.0
58°	179.0	178.5	179.0	179.5	180.0	180.2
58.5°	175.0	174.7	175.0	175.5	176.0	176.2
59°	171.2	170.7	171.2	171.7	172.0	172.2
59.5°	167.2	167.0	167.2	167.5	168.0	168.0
60°	163.2	163.0	163.2	163.5	163.7	163.7
60.5°	158.9	158.7	158.9	159.2	159.4	159.4
61°	154.9	154.7	154.9	155.2	155.4	155.4
61.5°	150.9	150.7	150.9	151.2	151.4	151.4
62°	146.9	146.7	146.9	147.2	147.4	147.4
62.5°	142.9	142.6	142.9	143.1	143.4	143.4
63°	138.9	138.9	138.9	139.4	139.4	139.6
63.5°	135.1	135.1	135.1	135.4	135.6	135.6
64°	131.4	131.1	131.4	131.6	131.9	131.9
64.5°	127.6	127.6	127.6	127.9	128.1	128.1
65°	124.1	123.8	124.1	124.3	124.6	124.3
65.5°	120.6	120.3	120.6	120.8	120.8	120.6
66°	116.8	116.8	116.8	117.1	117.3	117.1



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	106.5	106.5	106.5	106.8	106.8	106.3
68°	103.3	103.3	103.3	103.5	103.3	102.8
68.5°	100.0	100.0	100.0	100.3	100.0	99.5
69°	97.0	96.8	97.0	97.0	96.8	96.0
69.5°	93.8	93.8	93.8	94.0	93.5	92.5
70°	90.8	90.5	90.8	90.8	90.0	89.2
70.5°	87.5	87.5	87.5	87.7	87.0	86.0
71°	84.7	84.5	84.7	84.7	84.0	83.0
71.5°	81.7	81.5	81.7	81.7	80.7	79.7
72°	78.7	78.5	78.7	78.7	77.7	76.7
72.5°	75.7	75.7	75.7	76.0	74.7	73.7
73°	73.0	72.7	73.0	73.0	71.7	70.4
73.5°	70.2	69.9	70.2	70.2	68.7	67.4
74°	67.4	67.2	67.4	67.2	65.7	64.7
74.5°	64.7	64.4	64.7	64.4	62.9	61.7
75°	61.9	61.9	61.9	61.7	59.9	58.9
75.5°	59.2	59.2	59.2	59.2	57.2	56.2
76°	56.7	56.7	56.7	56.4	54.4	53.4
76.5°	54.2	53.9	54.2	53.6	51.6	50.6
77°	51.6	51.4	51.6	51.1	49.1	47.9
77.5°	49.1	48.9	49.1	48.6	46.4	45.1
78°	46.6	46.4	46.6	45.9	43.9	42.6
78.5°	44.1	44.1	44.1	43.4	41.1	40.1
79°	41.6	41.6	41.6	40.9	38.6	37.6
79.5°	39.4	39.4	39.4	38.6	36.1	35.1
80°	36.9	36.9	36.9	36.1	33.6	32.6
80.5°	34.6	34.6	34.6	33.8	31.3	30.3
81°	32.3	32.3	32.3	31.3	28.8	27.8
81.5°	30.1	30.1	30.1	29.1	26.3	25.6
82°	27.8	27.8	27.8	26.8	24.1	23.3
82.5°	25.8	25.8	25.8	24.6	21.8	20.8
83°	23.6	23.6	23.6	22.3	19.6	18.6
83.5°	21.6	21.3	21.6	20.3	17.3	16.3
84°	19.3	19.3	19.3	18.3	15.0	14.3
84.5°	17.3	17.3	17.3	16.3	12.8	12.0
85°	15.3	15.3	15.3	14.3	10.8	10.0
85.5°	13.3	13.3	13.3	12.3	9.0	8.0
86°	11.3	11.3	11.3	10.5	7.3	6.5
86.5°	9.3	9.5	9.3	8.5	6.0	5.3
87°	7.5	7.5	7.5	7.0	4.8	4.0
87.5°	5.8	5.8	5.8	5.3	3.5	3.0
88°	4.0	4.3	4.0	3.8	2.5	2.0
88.5°	3.0	3.3	3.0	2.5	1.5	1.0



TEST NUMBER: P776072

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.8	0.5	0.3	0.3	0.0



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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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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Peachtree City, GA 30269

Scaled Data Report





21.5°	1475.3	1475.6	1475.3	1475.3	1474.6	1475.3	1475.3	1475.6	1475.3	1475.6	1475.3
22°	1464.6	1464.6	1464.6	1464.1	1463.3	1464.1	1464.6	1464.6	1464.6	1464.6	1464.6



44°	605.2	606.9	614.5	617.7	619.2	617.7	614.5	606.9	605.2	606.9	614.5
44.5°	576.1	578.9	586.1	590.1	591.6	590.1	586.1	578.9	576.1	578.9	586.1



66.5°	113.3	113.8	113.8	113.6	113.3	113.6	113.8	113.8	113.3	113.8	113.8
67°	109.8	110.3	110.3	110.1	109.8	110.1	110.3	110.3	109.8	110.3	110.3



89°	0.5	0.8	1.5	2.0	2.3	2.0	1.5	0.8	0.5	0.8	1.5
89.5°	0.3	0.3	0.8	1.3	1.5	1.3	0.8	0.3	0.3	0.3	0.8

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21.5°	1475.3	1474.6	1475.3	1475.3	1475.6	1475.3
22°	1464.1	1463.3	1464.1	1464.6	1464.6	1464.6



44°	617.7	619.2	617.7	614.5	606.9	605.2
44.5°	590.1	591.6	590.1	586.1	578.9	576.1



66.5°	113.6	113.3	113.6	113.8	113.8	113.3
67°	110.1	109.8	110.1	110.3	110.3	109.8



89°	2.0	2.3	2.0	1.5	0.8	0.5
89.5°	1.3	1.5	1.3	0.8	0.3	0.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)