

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: P776170

Luminaire Tested: HCDJBS1525CSD-HCD82TRMW-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B064-HCD82TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD82TRMW-2500lm-2700K
Description: 8 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

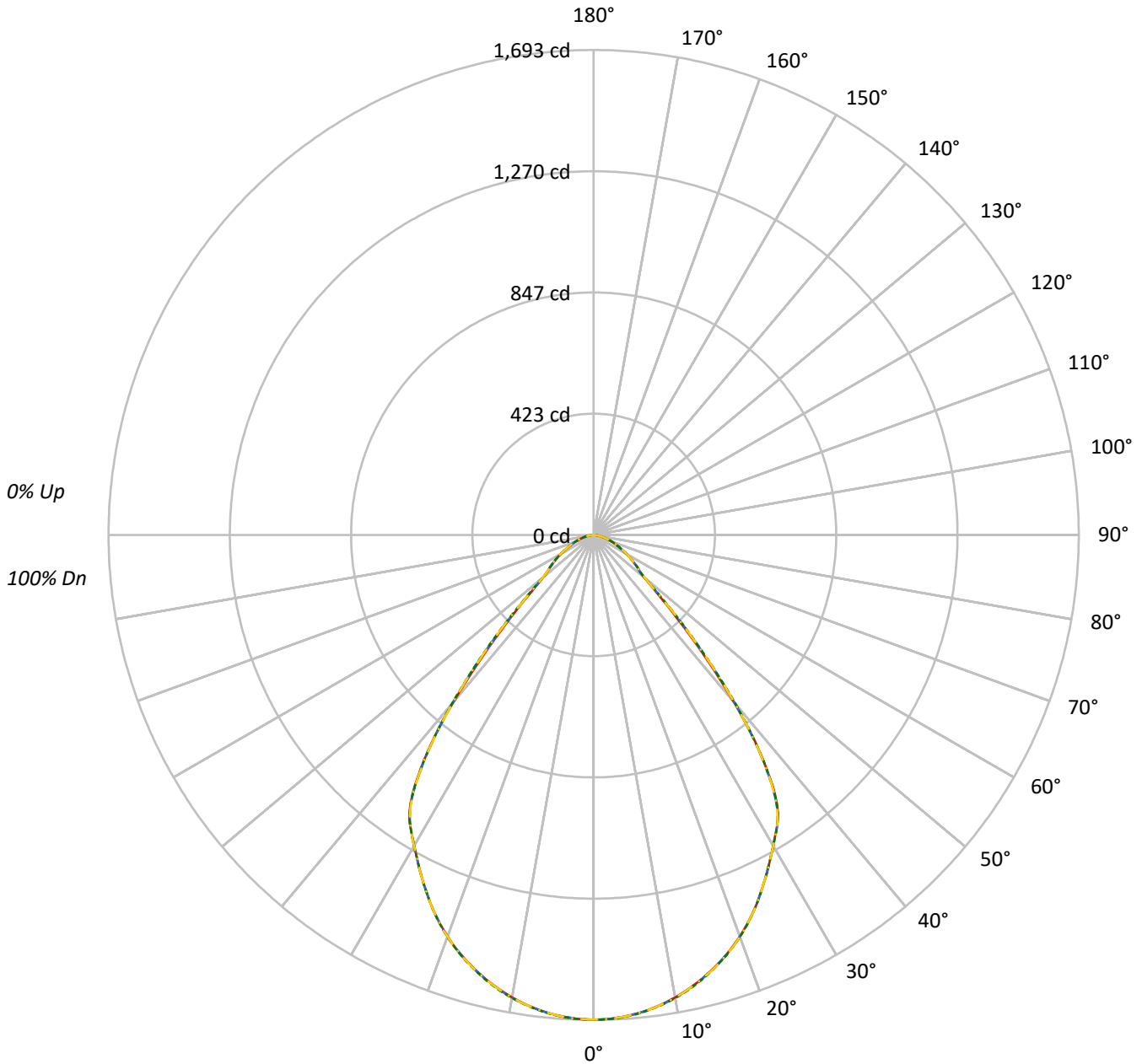
Lumens per Lamp: N/A
Luminaire Lumens: 2551.4 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P776170
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P776170

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-2700K

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	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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81								
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72								
4	91	82	75	70	89	81	74	70	79	73	69	76	72	68	74	70	67	65								
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59								
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54								
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49								
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45								
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42								
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	51657	51657	51657	51657
5°	51444	51490	51444	51490
10°	50823	50898	50823	50898
15°	49823	49902	49823	49902
20°	48458	48507	48458	48507
25°	46447	46457	46447	46457
30°	44172	44172	44172	44172
35°	41039	40957	41039	40957
40°	30329	30688	30329	30688
45°	17832	18700	17832	18700
50°	10915	11052	10915	11052
55°	9352	9368	9352	9368
60°	7975	8048	7975	8048
65°	6776	6935	6776	6935
70°	5758	6016	5758	6016
75°	4801	5178	4801	5178
80°	3833	4343	3833	4343
85°	2382	3328	2382	3328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 18846 cd/sqm



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	6.2
10°-20°	443.8	17.4
20°-30°	633.8	24.8
30°-40°	661.8	25.9
40°-50°	343.8	13.5
50°-60°	157.6	6.2
60°-70°	95.6	3.7
70°-80°	45.8	1.8
80°-90°	10.3	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°	1236.7	48.5
0°-40°	1898.5	74.4
0°-60°	2399.8	94.1
0°-90°	2551.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1692	1692	1692	1692	1692	
5°	1679	1680	1679	1680	1679	159
15°	1576	1579	1576	1579	1576	444
25°	1379	1379	1379	1379	1379	634
35°	1101	1099	1101	1099	1101	663
45°	413	433	413	433	413	336
55°	176	176	176	176	176	157
65°	94	96	94	96	94	94
75°	41	44	41	44	41	44
85°	7	10	7	10	7	9
90°	0	0	0	0	0	



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0
0.5°	1691.7	1691.2	1691.7	1691.7	1692.7	1691.7	1691.7	1691.2	1691.7	1691.2	1691.7
1°	1691.5	1691.0	1691.5	1691.5	1692.2	1691.5	1691.5	1691.0	1691.5	1691.0	1691.5
1.5°	1690.7	1690.3	1690.7	1690.7	1691.7	1690.7	1690.7	1690.3	1690.7	1690.3	1690.7
2°	1689.8	1689.3	1689.8	1689.8	1690.7	1689.8	1689.8	1689.3	1689.8	1689.3	1689.8
2.5°	1688.6	1688.1	1688.6	1688.8	1689.5	1688.8	1688.6	1688.1	1688.6	1688.1	1688.6
3°	1687.1	1686.6	1687.1	1687.3	1688.3	1687.3	1687.1	1686.6	1687.1	1686.6	1687.1
3.5°	1685.4	1684.9	1685.4	1685.7	1686.6	1685.7	1685.4	1684.9	1685.4	1684.9	1685.4
4°	1683.2	1683.0	1683.5	1683.7	1684.7	1683.7	1683.5	1683.0	1683.2	1683.0	1683.5
4.5°	1681.0	1680.8	1681.3	1681.5	1682.5	1681.5	1681.3	1680.8	1681.0	1680.8	1681.3
5°	1678.6	1678.1	1678.6	1679.1	1680.1	1679.1	1678.6	1678.1	1678.6	1678.1	1678.6
5.5°	1675.7	1675.5	1676.0	1676.4	1677.4	1676.4	1676.0	1675.5	1675.7	1675.5	1676.0
6°	1672.8	1672.3	1673.0	1673.5	1674.3	1673.5	1673.0	1672.3	1672.8	1672.3	1673.0
6.5°	1669.4	1669.2	1669.9	1670.4	1671.1	1670.4	1669.9	1669.2	1669.4	1669.2	1669.9
7°	1666.0	1665.5	1666.3	1666.7	1667.7	1666.7	1666.3	1665.5	1666.0	1665.5	1666.3
7.5°	1662.1	1661.7	1662.6	1663.1	1664.1	1663.1	1662.6	1661.7	1662.1	1661.7	1662.6
8°	1658.0	1657.8	1658.5	1659.0	1660.2	1659.0	1658.5	1657.8	1658.0	1657.8	1658.5
8.5°	1653.7	1653.4	1654.4	1654.9	1655.8	1654.9	1654.4	1653.4	1653.7	1653.4	1654.4
9°	1649.3	1649.1	1649.8	1650.5	1651.5	1650.5	1649.8	1649.1	1649.3	1649.1	1649.8
9.5°	1644.2	1644.2	1644.9	1645.7	1646.6	1645.7	1644.9	1644.2	1644.2	1644.2	1644.9
10°	1639.4	1639.1	1640.1	1640.8	1641.8	1640.8	1640.1	1639.1	1639.4	1639.1	1640.1
10.5°	1634.0	1633.8	1634.8	1635.5	1636.7	1635.5	1634.8	1633.8	1634.0	1633.8	1634.8
11°	1628.5	1628.5	1629.2	1630.1	1631.1	1630.1	1629.2	1628.5	1628.5	1628.5	1629.2
11.5°	1622.9	1622.6	1623.6	1624.3	1625.3	1624.3	1623.6	1622.6	1622.9	1622.6	1623.6
12°	1616.8	1616.8	1617.5	1618.5	1619.5	1618.5	1617.5	1616.8	1616.8	1616.8	1617.5
12.5°	1610.5	1610.5	1611.5	1612.5	1613.2	1612.5	1611.5	1610.5	1610.5	1610.5	1611.5
13°	1604.2	1604.2	1605.2	1605.9	1606.9	1605.9	1605.2	1604.2	1604.2	1604.2	1605.2
13.5°	1597.4	1597.4	1598.4	1599.6	1600.1	1599.6	1598.4	1597.4	1597.4	1597.4	1598.4
14°	1590.9	1590.6	1591.6	1592.6	1593.3	1592.6	1591.6	1590.6	1590.9	1590.6	1591.6
14.5°	1583.6	1583.6	1584.6	1585.6	1586.3	1585.6	1584.6	1583.6	1583.6	1583.6	1584.6
15°	1576.3	1576.6	1577.6	1578.3	1578.8	1578.3	1577.6	1576.6	1576.3	1576.6	1577.6
15.5°	1568.8	1569.1	1570.0	1570.8	1571.3	1570.8	1570.0	1569.1	1568.8	1569.1	1570.0
16°	1561.3	1561.3	1562.3	1563.0	1563.5	1563.0	1562.3	1561.3	1561.3	1561.3	1562.3
16.5°	1553.6	1553.6	1554.5	1555.0	1555.7	1555.0	1554.5	1553.6	1553.6	1553.6	1554.5
17°	1545.3	1545.3	1546.3	1547.0	1547.5	1547.0	1546.3	1545.3	1545.3	1545.3	1546.3
17.5°	1536.8	1537.1	1538.1	1538.5	1539.0	1538.5	1538.1	1537.1	1536.8	1537.1	1538.1
18°	1528.4	1528.4	1529.3	1529.8	1530.3	1529.8	1529.3	1528.4	1528.4	1528.4	1529.3
18.5°	1519.6	1519.6	1520.6	1520.8	1521.3	1520.8	1520.6	1519.6	1519.6	1519.6	1520.6
19°	1510.4	1510.4	1511.4	1511.9	1512.1	1511.9	1511.4	1510.4	1510.4	1510.4	1511.4
19.5°	1501.0	1501.2	1501.9	1502.4	1502.7	1502.4	1501.9	1501.2	1501.0	1501.2	1501.9
20°	1491.5	1491.5	1492.2	1492.5	1493.0	1492.5	1492.2	1491.5	1491.5	1491.5	1492.2
20.5°	1481.6	1481.6	1482.3	1482.3	1482.8	1482.3	1482.3	1481.6	1481.6	1481.6	1482.3
21°	1471.4	1471.4	1472.1	1472.1	1472.4	1472.1	1472.1	1471.4	1471.4	1471.4	1472.1



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1438.7	1438.7	1439.2	1438.9	1439.4	1438.9	1439.2	1438.7	1438.7	1438.7	1439.2
23°	1427.3	1427.3	1427.5	1427.5	1427.8	1427.5	1427.5	1427.3	1427.3	1427.3	1427.5
23.5°	1415.7	1415.7	1415.9	1415.7	1415.9	1415.7	1415.9	1415.7	1415.7	1415.7	1415.9
24°	1403.8	1403.5	1403.8	1403.5	1403.8	1403.5	1403.8	1403.5	1403.8	1403.5	1403.8
24.5°	1391.2	1391.2	1391.7	1391.4	1391.4	1391.4	1391.7	1391.2	1391.2	1391.2	1391.7
25°	1378.8	1378.8	1379.1	1379.1	1379.1	1379.1	1379.1	1378.8	1378.8	1378.8	1379.1
25.5°	1366.5	1366.2	1366.7	1366.5	1366.5	1366.5	1366.7	1366.2	1366.5	1366.2	1366.7
26°	1353.9	1353.6	1353.9	1354.1	1353.9	1354.1	1353.9	1353.6	1353.9	1353.6	1353.9
26.5°	1341.0	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.3	1341.0	1341.3	1341.3
27°	1328.4	1328.4	1328.6	1328.6	1328.4	1328.6	1328.6	1328.4	1328.4	1328.4	1328.6
27.5°	1315.6	1315.6	1316.0	1316.0	1315.6	1316.0	1316.0	1315.6	1315.6	1315.6	1316.0
28°	1303.0	1303.0	1303.4	1303.2	1303.2	1303.2	1303.4	1303.0	1303.0	1303.0	1303.4
28.5°	1290.4	1290.4	1290.8	1290.6	1290.4	1290.6	1290.8	1290.4	1290.4	1290.4	1290.8
29°	1277.5	1278.0	1278.2	1278.0	1278.0	1278.0	1278.2	1278.0	1277.5	1278.0	1278.2
29.5°	1265.1	1265.4	1265.9	1265.9	1265.4	1265.9	1265.9	1265.4	1265.1	1265.4	1265.9
30°	1253.0	1253.3	1253.5	1253.5	1253.0	1253.5	1253.5	1253.3	1253.0	1253.3	1253.5
30.5°	1240.9	1241.4	1241.6	1241.4	1240.7	1241.4	1241.6	1241.4	1240.9	1241.4	1241.6
31°	1229.0	1229.3	1229.8	1229.5	1229.3	1229.5	1229.8	1229.3	1229.0	1229.3	1229.8
31.5°	1217.6	1217.6	1217.9	1217.6	1217.2	1217.6	1217.9	1217.6	1217.6	1217.6	1217.9
32°	1205.8	1205.8	1205.8	1205.5	1205.5	1205.5	1205.8	1205.8	1205.8	1205.8	1205.8
32.5°	1193.9	1192.9	1192.7	1192.4	1193.6	1192.4	1192.7	1192.9	1193.9	1192.9	1192.7
33°	1180.8	1178.4	1177.9	1177.2	1181.3	1177.2	1177.9	1178.4	1180.8	1178.4	1177.9
33.5°	1164.8	1161.2	1161.4	1160.0	1165.3	1160.0	1161.4	1161.2	1164.8	1161.2	1161.4
34°	1145.7	1141.5	1143.0	1140.1	1146.4	1140.1	1143.0	1141.5	1145.7	1141.5	1143.0
34.5°	1125.1	1119.2	1121.7	1118.8	1124.6	1118.8	1121.7	1119.2	1125.1	1119.2	1121.7
35°	1101.1	1095.7	1096.9	1095.0	1098.9	1095.0	1096.9	1095.7	1101.1	1095.7	1096.9
35.5°	1074.2	1071.3	1069.8	1068.1	1070.8	1068.1	1069.8	1071.3	1074.2	1071.3	1069.8
36°	1044.6	1045.1	1040.7	1038.8	1042.9	1038.8	1040.7	1045.1	1044.6	1045.1	1040.7
36.5°	1013.6	1015.8	1009.9	1007.8	1012.1	1007.8	1009.9	1015.8	1013.6	1015.8	1009.9
37°	981.6	983.5	978.2	975.3	980.6	975.3	978.2	983.5	981.6	983.5	978.2
37.5°	948.4	948.4	944.7	942.1	946.9	942.1	944.7	948.4	948.4	948.4	944.7
38°	913.7	911.3	910.6	908.4	913.0	908.4	910.6	911.3	913.7	911.3	910.6
38.5°	877.6	873.2	875.2	873.5	878.1	873.5	875.2	873.2	877.6	873.2	875.2
39°	839.8	835.7	838.6	838.3	843.2	838.3	838.6	835.7	839.8	835.7	838.6
39.5°	801.3	798.4	801.7	802.7	807.1	802.7	801.7	798.4	801.3	798.4	801.7
40°	761.0	761.8	765.1	767.8	770.0	767.8	765.1	761.8	761.0	761.8	765.1
40.5°	720.8	724.4	728.1	732.7	732.9	732.7	728.1	724.4	720.8	724.4	728.1
41°	681.8	687.8	692.4	697.8	696.1	697.8	692.4	687.8	681.8	687.8	692.4
41.5°	643.2	650.3	656.8	663.1	659.5	663.1	656.8	650.3	643.2	650.3	656.8
42°	606.4	613.7	621.4	628.2	624.3	628.2	621.4	613.7	606.4	613.7	621.4
42.5°	570.8	577.8	586.3	594.3	589.7	594.3	586.3	577.8	570.8	577.8	586.3
43°	536.1	543.1	552.6	560.6	556.7	560.6	552.6	543.1	536.1	543.1	552.6
43.5°	503.2	509.5	519.6	528.4	524.2	528.4	519.6	509.5	503.2	509.5	519.6



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	413.0	417.4	428.5	436.5	433.1	436.5	428.5	417.4	413.0	417.4	428.5
45.5°	386.6	390.5	401.1	408.6	406.0	408.6	401.1	390.5	386.6	390.5	401.1
46°	361.6	366.0	375.2	382.2	380.0	382.2	375.2	366.0	361.6	366.0	375.2
46.5°	338.8	343.7	350.2	357.5	355.8	357.5	350.2	343.7	338.8	343.7	350.2
47°	317.5	323.1	327.7	334.7	333.0	334.7	327.7	323.1	317.5	323.1	327.7
47.5°	298.6	304.4	306.8	313.6	311.7	313.6	306.8	304.4	298.6	304.4	306.8
48°	281.6	286.7	288.2	295.0	292.3	295.0	288.2	286.7	281.6	286.7	288.2
48.5°	266.4	270.5	271.7	277.5	274.4	277.5	271.7	270.5	266.4	270.5	271.7
49°	252.5	255.7	256.9	261.8	258.8	261.8	256.9	255.7	252.5	255.7	256.9
49.5°	240.7	242.9	244.3	247.9	244.5	247.9	244.3	242.9	240.7	242.9	244.3
50°	229.8	231.7	233.4	235.8	232.7	235.8	233.4	231.7	229.8	231.7	233.4
50.5°	220.8	222.2	223.7	225.6	222.5	225.6	223.7	222.2	220.8	222.2	223.7
51°	213.3	214.7	215.5	216.9	214.3	216.9	215.5	214.7	213.3	214.7	215.5
51.5°	207.0	208.2	208.9	209.4	207.7	209.4	208.9	208.2	207.0	208.2	208.9
52°	202.1	202.6	203.1	203.3	202.4	203.3	203.1	202.6	202.1	202.6	203.1
52.5°	197.5	197.8	198.0	198.0	198.0	198.0	198.0	197.8	197.5	197.8	198.0
53°	193.2	193.4	193.4	193.4	193.6	193.4	193.4	193.4	193.2	193.4	193.4
53.5°	189.0	189.0	189.0	188.8	189.3	188.8	189.0	189.0	189.0	189.0	189.0
54°	184.7	184.7	184.7	184.4	184.9	184.4	184.7	184.7	184.7	184.7	184.7
54.5°	180.3	180.3	180.3	180.1	180.6	180.1	180.3	180.3	180.3	180.3	180.3
55°	175.7	175.7	175.7	175.7	176.0	175.7	175.7	175.7	175.7	175.7	175.7
55.5°	171.1	171.1	171.4	171.1	171.4	171.1	171.4	171.1	171.1	171.1	171.4
56°	166.5	166.5	166.7	166.7	166.7	166.7	166.7	166.5	166.5	166.5	166.7
56.5°	161.9	162.1	162.1	162.1	162.1	162.1	162.1	162.1	161.9	162.1	162.1
57°	157.3	157.5	157.5	157.5	157.5	157.5	157.5	157.5	157.3	157.5	157.5
57.5°	152.7	152.9	153.2	153.2	153.2	153.2	153.2	152.9	152.7	152.9	153.2
58°	148.1	148.6	148.6	148.8	148.8	148.8	148.6	148.6	148.1	148.6	148.6
58.5°	143.5	144.2	144.2	144.4	144.4	144.4	144.2	144.2	143.5	144.2	144.2
59°	139.1	139.8	140.1	140.1	140.1	140.1	140.1	139.8	139.1	139.8	140.1
59.5°	135.0	135.7	136.0	136.0	136.0	136.0	136.0	135.7	135.0	135.7	136.0
60°	130.6	131.6	131.8	132.1	131.8	132.1	131.8	131.6	130.6	131.6	131.8
60.5°	126.5	127.5	128.0	128.0	128.0	128.0	128.0	127.5	126.5	127.5	128.0
61°	122.6	123.6	124.1	124.1	124.1	124.1	124.1	123.6	122.6	123.6	124.1
61.5°	118.8	119.7	120.2	120.5	120.5	120.5	120.2	119.7	118.8	119.7	120.2
62°	114.9	115.9	116.6	116.6	116.6	116.6	116.6	115.9	114.9	115.9	116.6
62.5°	111.2	112.2	112.9	112.9	112.9	112.9	112.9	112.2	111.2	112.2	112.9
63°	107.4	108.6	109.5	109.5	109.5	109.5	109.5	108.6	107.4	108.6	109.5
63.5°	104.0	105.2	105.9	106.2	106.2	106.2	105.9	105.2	104.0	105.2	105.9
64°	100.6	101.6	102.5	102.8	102.8	102.8	102.5	101.6	100.6	101.6	102.5
64.5°	97.2	98.2	99.4	99.4	99.4	99.4	99.4	98.2	97.2	98.2	99.4
65°	93.8	94.8	96.0	96.2	96.0	96.2	96.0	94.8	93.8	94.8	96.0
65.5°	90.6	91.6	92.8	93.1	93.1	93.1	92.8	91.6	90.6	91.6	92.8
66°	87.5	88.5	89.7	89.9	89.9	89.9	89.7	88.5	87.5	88.5	89.7



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	78.3	79.5	80.7	81.2	81.0	81.2	80.7	79.5	78.3	79.5	80.7
68°	75.4	76.6	78.0	78.3	78.3	78.3	78.0	76.6	75.4	76.6	78.0
68.5°	72.7	73.7	75.1	75.4	75.4	75.4	75.1	73.7	72.7	73.7	75.1
69°	69.8	71.0	72.5	72.7	72.7	72.7	72.5	71.0	69.8	71.0	72.5
69.5°	67.1	68.1	69.8	70.0	70.0	70.0	69.8	68.1	67.1	68.1	69.8
70°	64.5	65.4	67.1	67.4	67.4	67.4	67.1	65.4	64.5	65.4	67.1
70.5°	61.8	62.8	64.5	64.7	64.7	64.7	64.5	62.8	61.8	62.8	64.5
71°	59.4	60.3	61.8	62.3	62.3	62.3	61.8	60.3	59.4	60.3	61.8
71.5°	56.7	57.7	59.4	59.9	59.6	59.9	59.4	57.7	56.7	57.7	59.4
72°	54.3	55.3	57.0	57.4	57.2	57.4	57.0	55.3	54.3	55.3	57.0
72.5°	51.9	52.8	54.5	55.0	54.8	55.0	54.5	52.8	51.9	52.8	54.5
73°	49.4	50.4	52.1	52.6	52.6	52.6	52.1	50.4	49.4	50.4	52.1
73.5°	47.3	48.2	49.9	50.4	50.4	50.4	49.9	48.2	47.3	48.2	49.9
74°	45.1	46.0	47.5	48.2	48.0	48.2	47.5	46.0	45.1	46.0	47.5
74.5°	42.9	43.6	45.3	46.0	45.8	46.0	45.3	43.6	42.9	43.6	45.3
75°	40.7	41.4	43.1	43.9	43.9	43.9	43.1	41.4	40.7	41.4	43.1
75.5°	38.5	39.5	41.0	41.7	41.7	41.7	41.0	39.5	38.5	39.5	41.0
76°	36.6	37.3	39.0	39.7	39.5	39.7	39.0	37.3	36.6	37.3	39.0
76.5°	34.4	35.4	36.8	37.6	37.6	37.6	36.8	35.4	34.4	35.4	36.8
77°	32.5	33.4	34.9	35.6	35.6	35.6	34.9	33.4	32.5	33.4	34.9
77.5°	30.8	31.5	33.0	33.7	33.7	33.7	33.0	31.5	30.8	31.5	33.0
78°	28.8	29.6	31.0	32.0	31.7	32.0	31.0	29.6	28.8	29.6	31.0
78.5°	26.9	27.6	29.3	30.1	30.1	30.1	29.3	27.6	26.9	27.6	29.3
79°	25.2	25.9	27.4	28.4	28.1	28.4	27.4	25.9	25.2	25.9	27.4
79.5°	23.5	24.0	25.7	26.4	26.4	26.4	25.7	24.0	23.5	24.0	25.7
80°	21.8	22.3	24.0	24.7	24.7	24.7	24.0	22.3	21.8	22.3	24.0
80.5°	20.1	20.6	22.3	23.0	23.0	23.0	22.3	20.6	20.1	20.6	22.3
81°	18.4	18.9	20.6	21.3	21.3	21.3	20.6	18.9	18.4	18.9	20.6
81.5°	17.0	17.2	18.9	19.9	19.9	19.9	18.9	17.2	17.0	17.2	18.9
82°	15.3	15.8	17.2	18.2	18.2	18.2	17.2	15.8	15.3	15.8	17.2
82.5°	13.8	14.1	15.8	16.7	16.7	16.7	15.8	14.1	13.8	14.1	15.8
83°	12.4	12.6	14.3	15.3	15.0	15.3	14.3	12.6	12.4	12.6	14.3
83.5°	10.9	11.1	12.8	13.6	13.6	13.6	12.8	11.1	10.9	11.1	12.8
84°	9.5	9.7	11.4	12.1	12.1	12.1	11.4	9.7	9.5	9.7	11.4
84.5°	8.0	8.2	9.9	10.9	10.9	10.9	9.9	8.2	8.0	8.2	9.9
85°	6.8	7.0	8.7	9.5	9.5	9.5	8.7	7.0	6.8	7.0	8.7
85.5°	5.6	5.8	7.5	8.0	8.0	8.0	7.5	5.8	5.6	5.8	7.5
86°	4.4	4.8	6.3	6.8	6.8	6.8	6.3	4.8	4.4	4.8	6.3
86.5°	3.4	3.9	5.1	5.6	5.6	5.6	5.1	3.9	3.4	3.9	5.1
87°	2.7	2.9	3.9	4.4	4.4	4.4	3.9	2.9	2.7	2.9	3.9
87.5°	1.9	2.2	2.9	3.4	3.2	3.4	2.9	2.2	1.9	2.2	2.9
88°	1.2	1.5	2.2	2.4	1.9	2.4	2.2	1.5	1.2	1.5	2.2
88.5°	0.7	1.0	1.5	1.7	1.2	1.7	1.5	1.0	0.7	1.0	1.5



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-2700K

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	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0
0.5°	1691.7	1692.7	1691.7	1691.7	1691.2	1691.7
1°	1691.5	1692.2	1691.5	1691.5	1691.0	1691.5
1.5°	1690.7	1691.7	1690.7	1690.7	1690.3	1690.7
2°	1689.8	1690.7	1689.8	1689.8	1689.3	1689.8
2.5°	1688.8	1689.5	1688.8	1688.6	1688.1	1688.6
3°	1687.3	1688.3	1687.3	1687.1	1686.6	1687.1
3.5°	1685.7	1686.6	1685.7	1685.4	1684.9	1685.4
4°	1683.7	1684.7	1683.7	1683.5	1683.0	1683.2
4.5°	1681.5	1682.5	1681.5	1681.3	1680.8	1681.0
5°	1679.1	1680.1	1679.1	1678.6	1678.1	1678.6
5.5°	1676.4	1677.4	1676.4	1676.0	1675.5	1675.7
6°	1673.5	1674.3	1673.5	1673.0	1672.3	1672.8
6.5°	1670.4	1671.1	1670.4	1669.9	1669.2	1669.4
7°	1666.7	1667.7	1666.7	1666.3	1665.5	1666.0
7.5°	1663.1	1664.1	1663.1	1662.6	1661.7	1662.1
8°	1659.0	1660.2	1659.0	1658.5	1657.8	1658.0
8.5°	1654.9	1655.8	1654.9	1654.4	1653.4	1653.7
9°	1650.5	1651.5	1650.5	1649.8	1649.1	1649.3
9.5°	1645.7	1646.6	1645.7	1644.9	1644.2	1644.2
10°	1640.8	1641.8	1640.8	1640.1	1639.1	1639.4
10.5°	1635.5	1636.7	1635.5	1634.8	1633.8	1634.0
11°	1630.1	1631.1	1630.1	1629.2	1628.5	1628.5
11.5°	1624.3	1625.3	1624.3	1623.6	1622.6	1622.9
12°	1618.5	1619.5	1618.5	1617.5	1616.8	1616.8
12.5°	1612.5	1613.2	1612.5	1611.5	1610.5	1610.5
13°	1605.9	1606.9	1605.9	1605.2	1604.2	1604.2
13.5°	1599.6	1600.1	1599.6	1598.4	1597.4	1597.4
14°	1592.6	1593.3	1592.6	1591.6	1590.6	1590.9
14.5°	1585.6	1586.3	1585.6	1584.6	1583.6	1583.6
15°	1578.3	1578.8	1578.3	1577.6	1576.6	1576.3
15.5°	1570.8	1571.3	1570.8	1570.0	1569.1	1568.8
16°	1563.0	1563.5	1563.0	1562.3	1561.3	1561.3
16.5°	1555.0	1555.7	1555.0	1554.5	1553.6	1553.6
17°	1547.0	1547.5	1547.0	1546.3	1545.3	1545.3
17.5°	1538.5	1539.0	1538.5	1538.1	1537.1	1536.8
18°	1529.8	1530.3	1529.8	1529.3	1528.4	1528.4
18.5°	1520.8	1521.3	1520.8	1520.6	1519.6	1519.6
19°	1511.9	1512.1	1511.9	1511.4	1510.4	1510.4
19.5°	1502.4	1502.7	1502.4	1501.9	1501.2	1501.0
20°	1492.5	1493.0	1492.5	1492.2	1491.5	1491.5
20.5°	1482.3	1482.8	1482.3	1482.3	1481.6	1481.6
21°	1472.1	1472.4	1472.1	1472.1	1471.4	1471.4



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1438.9	1439.4	1438.9	1439.2	1438.7	1438.7
23°	1427.5	1427.8	1427.5	1427.5	1427.3	1427.3
23.5°	1415.7	1415.9	1415.7	1415.9	1415.7	1415.7
24°	1403.5	1403.8	1403.5	1403.8	1403.5	1403.8
24.5°	1391.4	1391.4	1391.4	1391.7	1391.2	1391.2
25°	1379.1	1379.1	1379.1	1379.1	1378.8	1378.8
25.5°	1366.5	1366.5	1366.5	1366.7	1366.2	1366.5
26°	1354.1	1353.9	1354.1	1353.9	1353.6	1353.9
26.5°	1341.3	1341.3	1341.3	1341.3	1341.3	1341.0
27°	1328.6	1328.4	1328.6	1328.6	1328.4	1328.4
27.5°	1316.0	1315.6	1316.0	1316.0	1315.6	1315.6
28°	1303.2	1303.2	1303.2	1303.4	1303.0	1303.0
28.5°	1290.6	1290.4	1290.6	1290.8	1290.4	1290.4
29°	1278.0	1278.0	1278.0	1278.2	1278.0	1277.5
29.5°	1265.9	1265.4	1265.9	1265.9	1265.4	1265.1
30°	1253.5	1253.0	1253.5	1253.5	1253.3	1253.0
30.5°	1241.4	1240.7	1241.4	1241.6	1241.4	1240.9
31°	1229.5	1229.3	1229.5	1229.8	1229.3	1229.0
31.5°	1217.6	1217.2	1217.6	1217.9	1217.6	1217.6
32°	1205.5	1205.5	1205.5	1205.8	1205.8	1205.8
32.5°	1192.4	1193.6	1192.4	1192.7	1192.9	1193.9
33°	1177.2	1181.3	1177.2	1177.9	1178.4	1180.8
33.5°	1160.0	1165.3	1160.0	1161.4	1161.2	1164.8
34°	1140.1	1146.4	1140.1	1143.0	1141.5	1145.7
34.5°	1118.8	1124.6	1118.8	1121.7	1119.2	1125.1
35°	1095.0	1098.9	1095.0	1096.9	1095.7	1101.1
35.5°	1068.1	1070.8	1068.1	1069.8	1071.3	1074.2
36°	1038.8	1042.9	1038.8	1040.7	1045.1	1044.6
36.5°	1007.8	1012.1	1007.8	1009.9	1015.8	1013.6
37°	975.3	980.6	975.3	978.2	983.5	981.6
37.5°	942.1	946.9	942.1	944.7	948.4	948.4
38°	908.4	913.0	908.4	910.6	911.3	913.7
38.5°	873.5	878.1	873.5	875.2	873.2	877.6
39°	838.3	843.2	838.3	838.6	835.7	839.8
39.5°	802.7	807.1	802.7	801.7	798.4	801.3
40°	767.8	770.0	767.8	765.1	761.8	761.0
40.5°	732.7	732.9	732.7	728.1	724.4	720.8
41°	697.8	696.1	697.8	692.4	687.8	681.8
41.5°	663.1	659.5	663.1	656.8	650.3	643.2
42°	628.2	624.3	628.2	621.4	613.7	606.4
42.5°	594.3	589.7	594.3	586.3	577.8	570.8
43°	560.6	556.7	560.6	552.6	543.1	536.1
43.5°	528.4	524.2	528.4	519.6	509.5	503.2



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	436.5	433.1	436.5	428.5	417.4	413.0
45.5°	408.6	406.0	408.6	401.1	390.5	386.6
46°	382.2	380.0	382.2	375.2	366.0	361.6
46.5°	357.5	355.8	357.5	350.2	343.7	338.8
47°	334.7	333.0	334.7	327.7	323.1	317.5
47.5°	313.6	311.7	313.6	306.8	304.4	298.6
48°	295.0	292.3	295.0	288.2	286.7	281.6
48.5°	277.5	274.4	277.5	271.7	270.5	266.4
49°	261.8	258.8	261.8	256.9	255.7	252.5
49.5°	247.9	244.5	247.9	244.3	242.9	240.7
50°	235.8	232.7	235.8	233.4	231.7	229.8
50.5°	225.6	222.5	225.6	223.7	222.2	220.8
51°	216.9	214.3	216.9	215.5	214.7	213.3
51.5°	209.4	207.7	209.4	208.9	208.2	207.0
52°	203.3	202.4	203.3	203.1	202.6	202.1
52.5°	198.0	198.0	198.0	198.0	197.8	197.5
53°	193.4	193.6	193.4	193.4	193.4	193.2
53.5°	188.8	189.3	188.8	189.0	189.0	189.0
54°	184.4	184.9	184.4	184.7	184.7	184.7
54.5°	180.1	180.6	180.1	180.3	180.3	180.3
55°	175.7	176.0	175.7	175.7	175.7	175.7
55.5°	171.1	171.4	171.1	171.4	171.1	171.1
56°	166.7	166.7	166.7	166.7	166.5	166.5
56.5°	162.1	162.1	162.1	162.1	162.1	161.9
57°	157.5	157.5	157.5	157.5	157.5	157.3
57.5°	153.2	153.2	153.2	153.2	152.9	152.7
58°	148.8	148.8	148.8	148.6	148.6	148.1
58.5°	144.4	144.4	144.4	144.2	144.2	143.5
59°	140.1	140.1	140.1	140.1	139.8	139.1
59.5°	136.0	136.0	136.0	136.0	135.7	135.0
60°	132.1	131.8	132.1	131.8	131.6	130.6
60.5°	128.0	128.0	128.0	128.0	127.5	126.5
61°	124.1	124.1	124.1	124.1	123.6	122.6
61.5°	120.5	120.5	120.5	120.2	119.7	118.8
62°	116.6	116.6	116.6	116.6	115.9	114.9
62.5°	112.9	112.9	112.9	112.9	112.2	111.2
63°	109.5	109.5	109.5	109.5	108.6	107.4
63.5°	106.2	106.2	106.2	105.9	105.2	104.0
64°	102.8	102.8	102.8	102.5	101.6	100.6
64.5°	99.4	99.4	99.4	99.4	98.2	97.2
65°	96.2	96.0	96.2	96.0	94.8	93.8
65.5°	93.1	93.1	93.1	92.8	91.6	90.6
66°	89.9	89.9	89.9	89.7	88.5	87.5



TEST NUMBER: P776170
 CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	81.2	81.0	81.2	80.7	79.5	78.3
68°	78.3	78.3	78.3	78.0	76.6	75.4
68.5°	75.4	75.4	75.4	75.1	73.7	72.7
69°	72.7	72.7	72.7	72.5	71.0	69.8
69.5°	70.0	70.0	70.0	69.8	68.1	67.1
70°	67.4	67.4	67.4	67.1	65.4	64.5
70.5°	64.7	64.7	64.7	64.5	62.8	61.8
71°	62.3	62.3	62.3	61.8	60.3	59.4
71.5°	59.9	59.6	59.9	59.4	57.7	56.7
72°	57.4	57.2	57.4	57.0	55.3	54.3
72.5°	55.0	54.8	55.0	54.5	52.8	51.9
73°	52.6	52.6	52.6	52.1	50.4	49.4
73.5°	50.4	50.4	50.4	49.9	48.2	47.3
74°	48.2	48.0	48.2	47.5	46.0	45.1
74.5°	46.0	45.8	46.0	45.3	43.6	42.9
75°	43.9	43.9	43.9	43.1	41.4	40.7
75.5°	41.7	41.7	41.7	41.0	39.5	38.5
76°	39.7	39.5	39.7	39.0	37.3	36.6
76.5°	37.6	37.6	37.6	36.8	35.4	34.4
77°	35.6	35.6	35.6	34.9	33.4	32.5
77.5°	33.7	33.7	33.7	33.0	31.5	30.8
78°	32.0	31.7	32.0	31.0	29.6	28.8
78.5°	30.1	30.1	30.1	29.3	27.6	26.9
79°	28.4	28.1	28.4	27.4	25.9	25.2
79.5°	26.4	26.4	26.4	25.7	24.0	23.5
80°	24.7	24.7	24.7	24.0	22.3	21.8
80.5°	23.0	23.0	23.0	22.3	20.6	20.1
81°	21.3	21.3	21.3	20.6	18.9	18.4
81.5°	19.9	19.9	19.9	18.9	17.2	17.0
82°	18.2	18.2	18.2	17.2	15.8	15.3
82.5°	16.7	16.7	16.7	15.8	14.1	13.8
83°	15.3	15.0	15.3	14.3	12.6	12.4
83.5°	13.6	13.6	13.6	12.8	11.1	10.9
84°	12.1	12.1	12.1	11.4	9.7	9.5
84.5°	10.9	10.9	10.9	9.9	8.2	8.0
85°	9.5	9.5	9.5	8.7	7.0	6.8
85.5°	8.0	8.0	8.0	7.5	5.8	5.6
86°	6.8	6.8	6.8	6.3	4.8	4.4
86.5°	5.6	5.6	5.6	5.1	3.9	3.4
87°	4.4	4.4	4.4	3.9	2.9	2.7
87.5°	3.4	3.2	3.4	2.9	2.2	1.9
88°	2.4	1.9	2.4	2.2	1.5	1.2
88.5°	1.7	1.2	1.7	1.5	1.0	0.7



TEST NUMBER: P776170

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.0	0.2	0.2	0.0	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°	1460.7	1461.0	1461.5	1461.5	1461.7	1461.5	1461.5	1461.0	1460.7	1461.0	1461.5
22°	1450.1	1450.1	1450.3	1450.3	1450.8	1450.3	1450.3	1450.1	1450.1	1450.1	1450.3



44°	471.6	477.0	488.1	496.4	492.7	496.4	488.1	477.0	471.6	477.0	488.1
44.5°	441.8	446.2	457.6	466.1	462.2	466.1	457.6	446.2	441.8	446.2	457.6



66.5°	84.1	85.3	86.5	86.8	87.0	86.8	86.5	85.3	84.1	85.3	86.5
67°	81.2	82.2	83.6	84.1	84.1	84.1	83.6	82.2	81.2	82.2	83.6



89°	0.2	0.5	0.7	1.2	0.7	1.2	0.7	0.5	0.2	0.5	0.7
89.5°	0.0	0.2	0.5	0.7	0.2	0.7	0.5	0.2	0.0	0.2	0.5

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21.5°	1461.5	1461.7	1461.5	1461.5	1461.0	1460.7
22°	1450.3	1450.8	1450.3	1450.3	1450.1	1450.1



44°	496.4	492.7	496.4	488.1	477.0	471.6
44.5°	466.1	462.2	466.1	457.6	446.2	441.8



66.5°	86.8	87.0	86.8	86.5	85.3	84.1
67°	84.1	84.1	84.1	83.6	82.2	81.2

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89°	1.2	0.7	1.2	0.7	0.5	0.2
89.5°	0.7	0.2	0.7	0.5	0.2	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)