

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: P776162

Luminaire Tested: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B068)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K
Description: 8 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2791.7 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.08 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

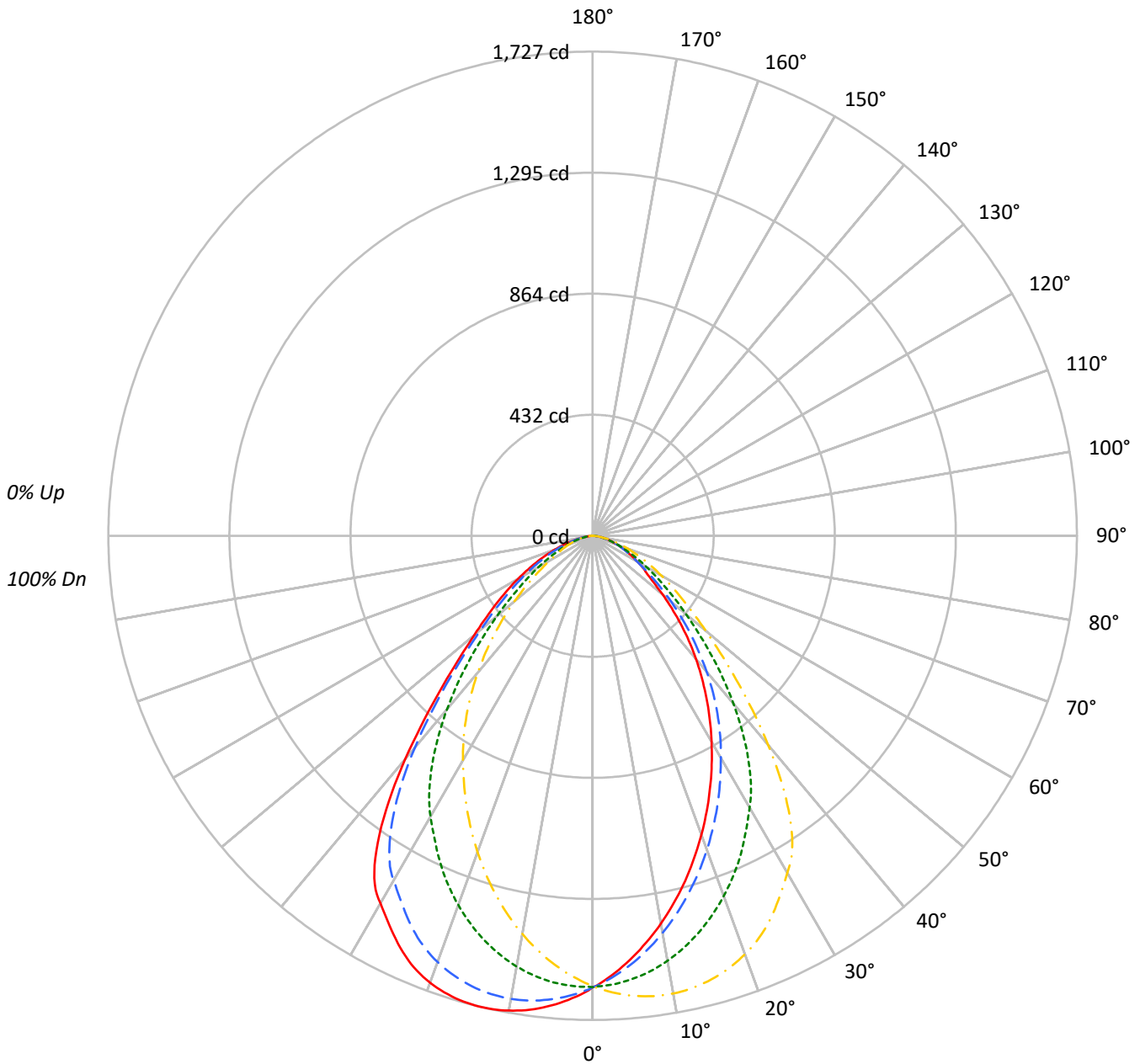
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78								
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	71	69								
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49								
7	72	60	52	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40								
9	64	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	49160	49160	49160	49160
5°	46550	48670	51536	49007
10°	43526	47717	53316	48362
15°	40271	46289	54532	47193
20°	36876	44436	55109	45528
25°	33393	42145	54639	43327
30°	29905	39491	53370	40753
35°	26384	36022	49816	37196
40°	22857	31130	41417	32210
45°	19144	25694	32516	26536
50°	15446	20666	26204	21117
55°	12668	16671	22106	16777
60°	11284	13488	18758	13519
65°	9745	10908	15691	10851
70°	8436	8703	12667	8641
75°	7243	6924	9637	6830
80°	5995	5556	6224	5327
85°	4204	4204	1857	3853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°
 Vertical Angle: 45°
 Luminance: 32516 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	5.4
10°-20°	418.5	15.0
20°-30°	591.4	21.2
30°-40°	621.7	22.3
40°-50°	468.7	16.8
50°-60°	290.5	10.4
60°-70°	163.4	5.9
70°-80°	72.1	2.6
80°-90°	14.3	0.5
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°	1161.0	41.6
0°-40°	1782.6	63.9
0°-60°	2541.9	91.1
0°-90°	2791.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1610	1610	1610	1610	1610	
5°	1519	1588	1682	1599	1519	141
15°	1274	1464	1725	1493	1274	357
25°	991	1251	1622	1286	991	455
35°	708	966	1337	998	708	442
45°	443	595	753	615	443	342
55°	238	313	415	315	238	218
65°	135	151	217	150	135	135
75°	61	59	82	58	61	66
85°	12	12	5	11	12	15
90°	0	0	0	0	0	



TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
0.5°	1604.9	1605.7	1605.4	1605.4	1607.9	1609.7	1611.4	1619.7	1621.5	1621.5	1617.9
1°	1596.4	1597.6	1598.9	1601.4	1606.9	1611.9	1616.4	1626.7	1629.0	1628.7	1623.5
1.5°	1587.6	1589.1	1592.1	1597.1	1605.7	1613.9	1621.5	1633.5	1636.8	1636.0	1629.2
2°	1578.3	1580.3	1584.8	1592.4	1604.2	1615.7	1626.0	1639.8	1644.0	1642.8	1634.2
2.5°	1569.0	1571.3	1577.6	1587.3	1602.1	1616.9	1630.0	1645.8	1650.8	1649.3	1639.5
3°	1559.5	1562.3	1569.5	1582.3	1599.9	1617.9	1634.0	1651.3	1657.8	1655.6	1643.8
3.5°	1549.7	1553.0	1562.0	1576.8	1597.6	1618.7	1637.8	1657.1	1664.1	1661.6	1648.0
4°	1539.7	1543.2	1553.7	1571.3	1594.6	1619.2	1641.0	1662.1	1670.1	1667.3	1652.0
4.5°	1529.4	1533.2	1545.2	1565.3	1591.6	1619.4	1644.3	1667.1	1675.9	1672.6	1656.1
5°	1518.9	1523.4	1536.4	1559.0	1588.1	1619.2	1646.8	1671.6	1681.6	1677.9	1659.3
5.5°	1508.4	1513.1	1527.9	1552.5	1584.6	1618.9	1649.3	1675.9	1686.9	1682.6	1662.6
6°	1497.6	1502.3	1518.6	1545.5	1580.6	1617.9	1651.5	1679.9	1691.7	1687.2	1665.3
6.5°	1486.5	1491.6	1509.4	1538.5	1576.3	1616.9	1653.3	1683.4	1696.2	1691.4	1668.1
7°	1475.0	1480.8	1499.6	1531.2	1572.1	1615.7	1654.8	1686.9	1700.7	1695.2	1670.1
7.5°	1464.0	1470.0	1490.1	1523.7	1567.0	1614.2	1656.1	1689.9	1704.7	1698.9	1672.1
8°	1452.2	1458.5	1480.0	1515.9	1562.0	1611.9	1657.1	1692.7	1708.5	1702.2	1673.6
8.5°	1440.4	1447.2	1470.0	1507.9	1556.8	1609.9	1657.6	1694.9	1711.7	1705.2	1674.9
9°	1428.1	1435.4	1459.2	1499.6	1551.0	1607.4	1657.8	1697.2	1714.7	1707.7	1676.1
9.5°	1416.3	1423.6	1448.9	1491.1	1545.2	1604.7	1657.8	1698.9	1717.5	1710.0	1676.6
10°	1404.0	1411.6	1438.1	1482.0	1539.2	1601.4	1657.6	1700.2	1719.8	1712.0	1677.1
10.5°	1391.5	1399.5	1427.1	1473.5	1532.7	1597.9	1657.1	1701.4	1721.8	1713.7	1677.1
11°	1379.0	1387.2	1415.8	1464.2	1525.9	1594.4	1656.1	1702.2	1723.5	1715.0	1676.9
11.5°	1366.4	1375.0	1404.8	1454.7	1519.1	1590.4	1655.1	1702.7	1725.0	1716.2	1676.1
12°	1353.6	1362.2	1393.3	1444.9	1512.1	1586.3	1653.6	1702.7	1726.0	1716.7	1675.4
12.5°	1340.3	1349.6	1381.5	1435.4	1504.6	1581.8	1651.5	1702.7	1726.8	1717.2	1674.1
13°	1327.1	1336.6	1369.7	1425.1	1497.1	1577.1	1649.5	1702.2	1727.3	1717.2	1672.6
13.5°	1314.3	1323.5	1357.9	1415.3	1489.6	1572.1	1647.0	1701.4	1727.3	1717.0	1670.9
14°	1301.0	1310.8	1345.9	1404.8	1481.0	1566.8	1644.3	1700.2	1727.0	1716.2	1668.6
14.5°	1287.4	1297.5	1333.6	1394.3	1472.7	1561.0	1641.3	1698.9	1726.3	1715.2	1666.1
15°	1274.1	1284.4	1321.0	1383.5	1464.5	1555.3	1638.0	1696.9	1725.3	1714.0	1663.3
15.5°	1260.1	1270.9	1308.5	1372.4	1455.7	1549.0	1634.2	1694.9	1724.0	1712.5	1660.3
16°	1246.6	1257.3	1296.0	1361.4	1446.7	1542.7	1630.5	1692.4	1722.3	1710.5	1656.8
16.5°	1232.8	1243.8	1283.4	1350.4	1437.4	1535.9	1626.2	1689.7	1720.5	1708.2	1653.1
17°	1219.0	1230.5	1270.9	1338.8	1428.1	1529.2	1621.7	1686.7	1718.0	1705.5	1649.0
17.5°	1204.9	1216.7	1257.6	1327.6	1418.6	1522.2	1616.9	1683.1	1715.2	1702.5	1644.5
18°	1190.9	1202.9	1244.8	1315.5	1408.8	1514.6	1611.9	1679.4	1712.2	1698.9	1640.0
18.5°	1176.8	1188.9	1231.5	1304.0	1398.5	1507.1	1606.4	1675.1	1708.7	1695.2	1635.0
19°	1163.1	1175.1	1218.5	1291.9	1388.5	1499.1	1600.6	1670.6	1705.0	1691.2	1629.5
19.5°	1148.5	1161.0	1205.2	1279.9	1378.2	1491.1	1594.6	1665.8	1700.9	1686.7	1623.7
20°	1135.0	1147.3	1191.6	1267.9	1367.7	1482.5	1588.4	1660.6	1696.2	1681.4	1617.7
20.5°	1120.4	1133.5	1178.4	1255.3	1356.6	1474.0	1581.8	1655.1	1691.2	1676.1	1611.4
21°	1106.4	1119.4	1164.8	1242.8	1345.9	1465.0	1574.6	1649.0	1685.7	1670.6	1604.4



TEST NUMBER: P776162

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1063.2	1076.8	1123.9	1204.9	1312.0	1436.4	1551.7	1628.2	1666.1	1650.3	1581.3
23°	1049.0	1062.7	1110.1	1191.9	1300.2	1426.4	1543.2	1620.2	1658.6	1642.5	1572.8
23.5°	1034.7	1048.2	1096.1	1178.9	1288.2	1416.1	1534.2	1611.9	1650.3	1634.2	1563.8
24°	1020.4	1034.2	1082.8	1165.8	1276.1	1405.3	1524.9	1602.4	1641.5	1625.0	1554.0
24.5°	1005.8	1019.9	1068.5	1152.5	1263.9	1394.0	1514.9	1592.6	1632.0	1615.4	1543.7
25°	991.3	1005.6	1054.7	1139.0	1251.1	1382.5	1504.3	1582.3	1622.0	1605.2	1532.9
25.5°	977.0	991.0	1040.7	1125.4	1237.8	1370.2	1493.3	1572.1	1611.7	1595.1	1521.9
26°	962.7	977.2	1026.6	1111.9	1225.0	1357.9	1482.0	1560.8	1601.1	1583.8	1510.4
26.5°	948.4	962.9	1012.6	1098.4	1211.5	1345.1	1470.2	1549.5	1590.4	1573.1	1499.1
27°	934.4	948.6	998.8	1084.6	1197.9	1332.8	1458.7	1538.5	1579.3	1562.3	1487.3
27.5°	919.8	934.4	984.8	1070.5	1184.9	1320.3	1446.9	1527.7	1568.3	1551.0	1475.8
28°	905.3	920.3	970.5	1056.7	1171.6	1307.7	1435.4	1516.1	1557.0	1539.7	1464.2
28.5°	890.7	905.8	956.4	1042.9	1158.5	1295.0	1423.1	1505.1	1546.2	1528.9	1452.9
29°	876.7	891.7	942.9	1029.4	1145.5	1282.7	1411.6	1493.8	1534.9	1517.6	1441.2
29.5°	862.6	877.4	928.8	1015.9	1132.7	1270.4	1399.8	1483.0	1524.2	1506.6	1429.9
30°	848.3	863.4	914.8	1002.8	1120.2	1258.3	1388.5	1472.5	1513.9	1496.3	1419.3
30.5°	833.8	849.3	901.0	989.3	1107.1	1246.3	1377.5	1462.5	1504.1	1486.5	1408.8
31°	819.8	835.3	887.7	976.2	1094.3	1234.5	1366.9	1451.4	1493.3	1475.3	1396.8
31.5°	805.7	821.3	874.2	962.4	1080.3	1221.0	1354.4	1437.9	1480.5	1462.2	1383.0
32°	791.7	807.5	860.4	948.9	1065.8	1206.7	1340.3	1422.3	1465.5	1446.9	1366.9
32.5°	777.1	793.2	846.8	934.4	1050.2	1190.4	1324.5	1405.8	1448.4	1429.6	1349.9
33°	763.3	779.6	832.8	920.3	1034.4	1173.8	1307.5	1386.5	1429.1	1410.6	1331.6
33.5°	749.8	766.1	819.3	905.3	1017.6	1155.8	1288.7	1366.2	1408.3	1390.0	1311.5
34°	735.7	752.3	805.0	889.7	1000.8	1137.5	1269.1	1343.6	1385.7	1368.2	1290.9
34.5°	722.0	738.8	790.7	874.4	983.8	1118.4	1248.1	1320.5	1361.9	1344.9	1269.4
35°	707.9	725.0	776.4	859.1	966.5	1098.4	1226.5	1295.2	1336.6	1319.8	1247.3
35.5°	694.1	711.2	762.1	843.3	948.4	1078.5	1203.4	1269.4	1309.8	1294.7	1224.0
36°	680.8	697.4	747.8	827.5	930.6	1058.2	1180.4	1242.3	1281.9	1267.9	1199.4
36.5°	667.0	683.8	733.5	811.5	912.0	1037.2	1156.8	1215.2	1253.3	1240.0	1174.3
37°	653.7	670.3	719.2	795.9	893.7	1015.6	1131.2	1186.1	1224.0	1211.5	1149.0
37.5°	640.0	656.5	704.4	779.9	875.2	994.3	1106.1	1157.0	1194.1	1181.9	1122.7
38°	626.7	643.0	690.1	763.6	856.1	972.2	1079.8	1127.9	1163.8	1152.3	1096.1
38.5°	613.1	628.9	675.6	747.0	837.6	950.7	1053.7	1099.9	1133.2	1122.4	1068.8
39°	599.8	615.6	661.0	731.0	819.5	928.3	1027.6	1069.3	1101.6	1092.1	1041.4
39.5°	586.8	602.1	646.7	714.9	800.4	905.8	1001.1	1039.9	1070.3	1061.0	1013.8
40°	573.5	588.5	631.7	698.6	781.1	883.2	974.5	1009.8	1039.2	1030.4	986.0
40.5°	560.2	575.0	617.4	681.8	762.3	860.9	947.4	981.2	1007.8	1000.1	957.9
41°	547.2	561.7	602.8	665.8	743.3	838.3	921.3	951.7	977.7	970.0	930.3
41.5°	533.9	548.4	588.8	649.7	724.7	815.5	895.2	922.3	946.6	939.9	902.8
42°	520.6	535.1	574.5	633.7	705.7	793.2	869.4	894.2	917.3	910.0	875.7
42.5°	507.8	522.1	560.2	618.1	686.8	770.9	844.1	866.6	888.0	880.9	848.8
43°	494.8	509.1	546.7	602.3	668.3	749.3	818.5	839.6	859.4	853.1	822.3
43.5°	482.0	496.0	532.9	586.8	649.5	727.5	793.7	813.0	831.3	824.8	795.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	443.4	457.6	492.0	540.7	595.1	664.0	722.7	737.5	753.1	747.3	722.2
45.5°	430.8	444.6	478.7	525.9	577.5	644.0	700.1	714.2	728.7	722.5	698.4
46°	418.5	432.3	465.4	511.3	560.2	624.4	678.3	691.4	705.4	699.4	675.3
46.5°	406.5	420.3	452.9	496.8	543.4	604.6	657.0	669.0	682.8	676.6	653.0
47°	394.2	407.7	439.6	481.7	526.6	585.3	636.2	648.5	661.5	655.0	632.2
47.5°	382.2	396.2	426.8	468.2	510.3	567.0	616.1	628.4	641.5	634.4	611.6
48°	370.4	384.4	414.3	453.9	494.8	549.7	596.8	609.1	621.9	615.1	591.8
48.5°	358.8	372.9	401.7	440.1	479.7	532.1	578.5	590.6	602.8	595.8	572.5
49°	347.1	361.9	389.7	426.6	464.4	514.8	560.2	573.0	585.5	578.3	554.7
49.5°	336.5	350.8	377.4	413.5	449.4	499.0	543.2	555.7	568.2	560.2	536.6
50°	325.2	339.8	365.6	400.2	435.1	483.2	526.4	539.4	551.7	543.9	519.8
50.5°	314.5	329.5	353.8	387.2	421.3	467.7	509.8	523.3	535.6	527.6	503.5
51°	304.2	318.7	342.5	374.6	407.7	452.6	494.3	508.3	520.3	512.1	488.0
51.5°	294.4	308.7	331.3	362.6	394.7	438.3	479.5	493.5	505.8	497.5	472.9
52°	284.6	298.4	320.0	350.8	381.9	424.3	464.7	479.7	491.5	483.0	458.4
52.5°	275.3	288.9	309.4	339.0	369.6	411.3	450.6	465.7	478.0	468.9	444.1
53°	266.8	279.4	298.9	327.5	357.6	398.0	436.8	452.6	464.7	455.6	430.6
53.5°	258.5	270.1	288.6	316.5	346.1	385.2	423.8	439.8	451.9	442.6	417.3
54°	251.0	261.0	278.6	305.7	334.8	372.6	411.0	427.3	439.6	430.1	405.0
54.5°	244.2	252.5	268.8	295.7	324.0	361.1	398.5	415.3	427.3	417.8	392.7
55°	238.0	244.5	259.5	285.4	313.2	349.3	386.7	403.5	415.3	406.0	380.7
55.5°	232.2	236.5	250.5	275.8	302.9	338.0	375.1	391.9	403.7	394.5	369.1
56°	226.9	229.2	241.7	266.1	292.6	327.2	363.6	380.9	392.2	383.4	357.8
56.5°	222.9	222.2	233.5	257.0	282.9	316.5	352.6	369.9	380.9	371.9	346.8
57°	218.2	215.7	225.2	248.0	273.1	305.9	341.8	359.1	369.9	361.1	336.3
57.5°	212.6	209.6	217.4	239.2	263.8	295.9	331.3	348.8	359.1	350.8	326.0
58°	207.1	204.6	209.9	230.7	254.8	286.4	321.0	338.3	348.3	340.5	316.0
58.5°	201.6	199.6	202.6	222.7	246.0	276.8	311.2	328.0	337.5	330.0	305.7
59°	196.1	194.6	195.6	214.7	237.5	267.6	301.2	318.0	327.2	319.7	296.2
59.5°	190.3	189.3	189.1	206.9	229.2	258.5	291.6	307.9	317.0	309.7	286.6
60°	184.8	184.3	182.6	199.4	220.9	249.8	282.4	298.4	307.2	300.2	277.3
60.5°	179.3	179.0	176.5	192.1	213.4	241.5	272.8	288.9	297.2	290.4	268.3
61°	174.0	173.8	170.5	184.8	205.9	233.0	263.8	279.6	287.6	281.1	259.3
61.5°	168.8	168.8	164.8	178.0	198.1	224.7	255.0	270.3	278.1	272.1	250.8
62°	163.8	163.8	159.5	171.3	190.6	217.2	246.8	261.3	268.8	263.3	242.2
62.5°	158.5	158.7	154.2	164.8	183.8	209.4	238.2	252.3	259.8	253.8	234.0
63°	153.7	154.0	149.2	158.5	176.8	201.9	230.0	243.7	250.8	245.2	225.9
63.5°	148.7	149.2	144.4	152.5	170.0	194.3	221.9	235.5	242.0	236.7	218.2
64°	144.2	144.4	140.2	146.7	163.5	186.8	214.2	226.9	233.5	228.4	210.4
64.5°	139.4	139.9	135.9	141.2	157.0	179.8	206.4	219.2	225.2	220.4	202.9
65°	134.9	135.7	131.9	135.7	151.0	173.0	198.6	211.4	217.2	212.6	195.1
65.5°	130.6	131.2	127.9	130.4	144.9	166.3	191.1	203.6	209.1	204.9	187.3
66°	126.1	126.9	123.9	125.4	138.9	159.5	184.1	195.8	201.4	197.1	180.3



TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	113.6	114.6	112.1	111.1	122.4	140.9	163.2	173.3	177.5	174.3	159.5
68°	109.8	110.6	108.6	106.8	116.9	134.9	156.5	166.0	170.0	167.0	152.7
68.5°	105.8	106.6	104.8	102.6	111.8	129.1	149.7	159.2	163.0	160.2	146.4
69°	102.1	102.8	101.1	98.6	107.1	123.4	143.4	152.2	155.7	153.2	139.9
69.5°	98.0	99.1	97.5	94.5	102.3	118.1	137.2	145.7	149.0	146.4	133.9
70°	94.5	95.3	94.0	90.5	97.5	112.8	131.2	139.2	141.9	139.9	127.9
70.5°	90.8	91.8	90.3	87.0	93.3	107.6	125.1	132.9	135.4	133.9	122.1
71°	87.3	88.3	87.0	83.8	88.8	102.6	119.6	126.6	128.9	127.4	116.1
71.5°	84.0	85.0	84.0	80.5	84.8	97.5	113.8	120.9	122.6	121.4	110.6
72°	80.7	81.7	80.7	77.2	80.5	92.8	108.3	114.6	116.1	115.4	105.1
72.5°	77.2	78.2	77.7	73.7	76.5	88.3	102.8	109.1	110.1	109.3	99.6
73°	74.0	75.0	74.5	70.7	72.7	83.8	97.5	103.3	104.1	103.8	94.3
73.5°	70.7	71.7	71.2	67.7	69.0	79.2	92.3	97.8	98.3	98.3	89.5
74°	67.7	68.5	68.2	64.9	65.4	75.0	87.5	92.5	92.8	93.0	84.5
74.5°	64.4	65.4	65.2	61.9	61.9	71.0	82.5	87.5	87.0	87.8	79.5
75°	61.4	62.4	62.4	59.2	58.7	67.0	77.7	82.3	81.7	82.5	75.0
75.5°	58.4	59.4	59.4	56.7	55.7	63.2	73.2	77.5	76.5	77.7	70.5
76°	55.7	56.4	56.7	53.9	52.4	59.4	68.7	72.7	71.2	73.0	66.0
76.5°	52.7	53.7	53.9	51.4	49.7	55.7	64.4	68.0	66.2	68.2	61.7
77°	49.9	50.7	51.2	48.9	46.6	52.4	60.4	63.4	61.4	63.7	57.7
77.5°	47.1	47.9	48.4	46.4	43.9	48.9	56.2	59.2	56.7	59.4	53.7
78°	44.4	45.4	45.9	43.9	41.4	45.9	52.4	54.9	52.2	55.2	49.7
78.5°	41.9	42.6	43.1	41.6	38.6	42.6	48.6	50.9	47.6	50.9	46.1
79°	39.1	40.1	40.6	39.1	36.4	39.6	44.9	46.9	43.4	47.1	42.4
79.5°	36.6	37.6	38.1	36.9	33.9	36.9	41.4	43.1	39.4	43.1	39.1
80°	34.1	34.9	35.6	34.6	31.6	34.1	37.9	39.4	35.4	39.6	35.6
80.5°	31.8	32.3	33.4	32.3	29.3	31.3	34.9	35.6	31.6	35.9	32.3
81°	29.3	30.1	31.1	30.3	27.1	28.8	31.6	32.1	27.8	32.3	29.3
81.5°	27.1	27.8	28.8	28.1	25.1	26.3	28.6	28.6	24.6	29.1	26.3
82°	24.8	25.3	26.6	26.1	23.1	23.8	25.8	25.6	21.3	26.1	23.8
82.5°	22.6	23.1	24.3	23.8	21.1	21.8	23.3	22.6	18.3	23.1	21.3
83°	20.3	21.1	22.3	21.8	19.3	19.8	20.8	19.6	15.0	20.1	18.6
83.5°	18.1	18.8	20.1	20.1	17.6	17.6	18.3	16.6	11.8	17.1	16.0
84°	16.0	16.6	18.1	18.1	15.5	15.5	15.8	13.5	9.3	14.0	13.5
84.5°	14.0	14.5	16.0	16.0	13.8	13.5	13.3	10.8	7.0	11.0	11.5
85°	12.0	12.5	14.0	14.3	12.0	11.8	11.3	8.5	5.3	8.5	9.5
85.5°	10.0	10.3	12.3	12.3	10.3	10.0	9.5	6.8	4.0	6.8	7.8
86°	8.5	9.0	10.5	10.5	8.8	8.3	7.8	5.0	3.3	5.0	6.0
86.5°	7.0	7.5	8.8	9.0	7.3	6.8	6.0	3.5	2.5	3.5	4.5
87°	5.5	6.0	7.3	7.3	5.8	5.3	4.5	2.3	1.8	2.3	3.3
87.5°	4.0	4.5	5.8	5.8	4.3	3.8	3.3	1.3	1.3	1.3	2.0
88°	2.8	3.3	4.3	4.0	3.0	2.5	2.0	0.5	0.5	0.5	1.0
88.5°	1.8	2.0	2.5	2.5	1.5	1.3	1.0	0.3	0.3	0.3	0.3



TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
0.5°	1612.7	1609.2	1604.4	1600.1	1605.2	1604.9
1°	1615.7	1609.2	1601.1	1594.4	1597.4	1596.4
1.5°	1618.4	1609.2	1597.6	1588.1	1589.4	1587.6
2°	1621.2	1608.4	1593.9	1581.3	1581.1	1578.3
2.5°	1623.5	1607.7	1589.6	1574.3	1572.6	1569.0
3°	1625.5	1606.4	1585.3	1567.5	1563.8	1559.5
3.5°	1627.0	1604.9	1580.6	1560.3	1555.0	1549.7
4°	1628.5	1603.4	1575.8	1552.7	1545.7	1539.7
4.5°	1629.5	1601.4	1570.5	1544.7	1536.2	1529.4
5°	1630.0	1599.1	1565.3	1536.4	1526.7	1518.9
5.5°	1630.5	1596.6	1559.3	1528.2	1516.6	1508.4
6°	1630.7	1593.6	1553.5	1519.6	1506.6	1497.6
6.5°	1630.5	1590.4	1547.2	1510.6	1496.3	1486.5
7°	1630.0	1587.1	1540.5	1501.8	1485.5	1475.0
7.5°	1629.2	1583.1	1533.7	1492.1	1475.0	1464.0
8°	1628.2	1579.1	1526.7	1482.8	1464.0	1452.2
8.5°	1627.0	1574.8	1519.1	1472.7	1452.9	1440.4
9°	1625.2	1570.0	1511.4	1463.0	1441.4	1428.1
9.5°	1623.2	1565.0	1503.3	1452.4	1429.9	1416.3
10°	1621.0	1560.0	1495.3	1442.4	1418.3	1404.0
10.5°	1618.4	1554.5	1487.0	1431.6	1406.5	1391.5
11°	1615.4	1548.5	1478.5	1421.1	1394.5	1379.0
11.5°	1612.4	1542.5	1469.5	1409.8	1382.2	1366.4
12°	1608.7	1536.2	1460.5	1398.8	1369.9	1353.6
12.5°	1605.2	1529.7	1451.2	1387.5	1357.4	1340.3
13°	1600.9	1522.9	1441.9	1376.0	1344.9	1327.1
13.5°	1596.6	1515.9	1432.1	1364.4	1332.3	1314.3
14°	1591.9	1508.6	1422.1	1352.4	1319.3	1301.0
14.5°	1587.1	1501.1	1411.8	1340.3	1306.5	1287.4
15°	1581.8	1493.1	1401.8	1328.6	1293.2	1274.1
15.5°	1576.3	1485.0	1391.0	1315.8	1279.9	1260.1
16°	1570.5	1476.5	1380.5	1303.5	1266.6	1246.6
16.5°	1564.5	1468.2	1369.7	1290.7	1253.1	1232.8
17°	1558.0	1459.2	1358.4	1278.4	1239.8	1219.0
17.5°	1551.5	1450.2	1347.4	1265.9	1226.2	1204.9
18°	1544.5	1440.9	1335.8	1252.6	1212.7	1190.9
18.5°	1537.4	1431.4	1324.3	1239.5	1198.9	1176.8
19°	1529.7	1421.6	1312.5	1226.7	1184.9	1163.1
19.5°	1521.9	1411.8	1300.7	1213.7	1171.1	1148.5
20°	1513.9	1401.3	1288.7	1200.4	1157.3	1135.0
20.5°	1505.3	1391.3	1276.7	1186.9	1143.5	1120.4
21°	1496.8	1380.5	1264.1	1173.6	1129.5	1106.4

TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1469.0	1347.4	1226.5	1133.0	1087.3	1063.2
23°	1459.0	1335.6	1213.5	1119.2	1072.8	1049.0
23.5°	1448.2	1323.8	1200.4	1105.6	1059.0	1034.7
24°	1437.4	1311.8	1187.1	1091.3	1044.9	1020.4
24.5°	1425.9	1299.2	1173.8	1078.0	1030.4	1005.8
25°	1413.8	1286.2	1160.3	1063.8	1016.1	991.3
25.5°	1401.8	1273.4	1146.8	1049.7	1002.1	977.0
26°	1389.2	1260.4	1133.0	1035.9	987.8	962.7
26.5°	1377.0	1246.8	1119.2	1022.1	973.5	948.4
27°	1364.7	1233.3	1105.1	1007.8	959.4	934.4
27.5°	1352.1	1220.2	1091.3	993.5	944.9	919.8
28°	1339.6	1207.2	1077.5	979.5	930.8	905.3
28.5°	1327.3	1193.9	1064.3	966.0	916.3	890.7
29°	1315.3	1181.1	1050.7	951.9	902.5	876.7
29.5°	1303.5	1168.6	1037.7	938.4	888.2	862.6
30°	1291.9	1156.0	1024.4	924.3	874.2	848.3
30.5°	1279.9	1143.5	1010.8	910.8	860.1	833.8
31°	1266.4	1130.0	997.0	897.2	846.3	819.8
31.5°	1252.1	1115.9	983.5	883.4	832.3	805.7
32°	1236.0	1100.4	969.0	869.7	818.2	791.7
32.5°	1219.0	1084.3	954.2	855.6	804.2	777.1
33°	1200.9	1068.3	939.1	841.6	790.7	763.3
33.5°	1182.4	1051.0	923.8	827.5	776.9	749.8
34°	1163.1	1033.7	908.0	813.2	763.1	735.7
34.5°	1143.5	1016.1	892.0	798.7	749.3	722.0
35°	1123.4	998.0	875.9	784.1	735.7	707.9
35.5°	1102.6	980.0	859.9	769.4	721.7	694.1
36°	1081.6	961.4	843.6	755.1	708.2	680.8
36.5°	1059.7	943.1	827.3	740.3	694.4	667.0
37°	1037.7	924.1	810.5	725.2	680.6	653.7
37.5°	1015.4	905.3	794.2	710.4	666.8	640.0
38°	992.8	885.7	777.4	695.6	653.0	626.7
38.5°	970.2	866.6	760.8	680.8	639.2	613.1
39°	947.4	847.1	744.5	666.3	625.4	599.8
39.5°	924.3	827.8	727.5	651.5	611.9	586.8
40°	900.3	808.2	710.9	636.7	598.3	573.5
40.5°	876.7	788.4	694.4	622.2	584.5	560.2
41°	853.6	768.6	677.8	607.6	571.0	547.2
41.5°	830.0	749.0	661.3	592.8	557.2	533.9
42°	806.7	729.7	645.0	578.8	543.9	520.6
42.5°	782.9	709.7	628.9	564.7	530.6	507.8
43°	759.8	690.6	612.6	550.2	517.6	494.8
43.5°	737.0	671.3	596.1	535.9	504.5	482.0

TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	670.8	614.6	548.7	494.3	465.2	443.4
45.5°	649.0	595.8	532.9	480.5	452.6	430.8
46°	628.7	577.8	517.6	467.2	439.8	418.5
46.5°	607.6	559.7	502.3	453.9	427.6	406.5
47°	587.8	542.4	487.2	440.3	415.3	394.2
47.5°	568.5	524.9	472.2	427.1	403.2	382.2
48°	550.2	508.1	457.9	414.3	391.4	370.4
48.5°	531.6	491.5	443.4	401.2	379.4	358.8
49°	513.8	475.7	429.3	388.9	368.1	347.1
49.5°	497.0	460.2	415.3	376.4	356.8	336.5
50°	480.7	444.6	401.7	364.1	345.6	325.2
50.5°	464.4	429.6	388.2	351.8	334.8	314.5
51°	449.4	415.3	375.4	340.3	323.5	304.2
51.5°	434.8	401.5	362.6	328.5	313.2	294.4
52°	420.5	387.9	350.3	317.7	302.9	284.6
52.5°	406.5	374.9	338.3	306.4	292.6	275.3
53°	393.2	362.1	326.5	295.7	282.6	266.8
53.5°	380.2	349.8	315.2	285.1	272.8	258.5
54°	368.1	338.0	303.9	275.1	263.3	251.0
54.5°	356.1	326.7	293.4	265.1	254.3	244.2
55°	344.3	315.2	283.1	255.5	245.8	238.0
55.5°	333.3	304.7	273.1	246.3	237.5	232.2
56°	322.2	294.4	263.3	237.5	229.5	226.9
56.5°	311.7	284.1	253.8	228.9	221.9	222.9
57°	301.4	274.1	244.7	220.4	215.2	218.2
57.5°	291.4	264.8	236.0	212.6	208.4	212.6
58°	281.9	255.8	227.4	205.1	202.4	207.1
58.5°	272.3	246.8	219.2	197.9	196.9	201.6
59°	263.1	237.7	211.1	190.8	191.8	196.1
59.5°	254.3	229.7	203.4	183.8	187.1	190.3
60°	245.5	221.4	195.8	177.5	182.1	184.8
60.5°	237.0	213.4	188.6	171.3	177.0	179.3
61°	228.7	205.1	181.6	165.3	172.0	174.0
61.5°	220.9	197.9	174.5	159.5	167.0	168.8
62°	213.2	190.6	167.8	154.2	162.2	163.8
62.5°	205.6	183.6	161.5	148.7	157.2	158.5
63°	197.9	176.3	155.2	143.7	152.5	153.7
63.5°	190.3	169.5	149.2	138.9	148.0	148.7
64°	183.1	163.0	143.2	134.2	143.2	144.2
64.5°	176.3	156.5	137.7	129.6	138.9	139.4
65°	169.0	150.2	132.2	125.6	134.4	134.9
65.5°	162.5	144.2	126.9	121.6	130.1	130.6
66°	156.0	138.2	121.9	117.9	125.9	126.1



TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	137.4	121.6	107.6	106.6	113.3	113.6
68°	131.7	116.4	103.1	103.1	109.6	109.8
68.5°	125.9	111.1	98.8	99.6	105.6	105.8
69°	120.4	106.3	94.8	95.8	102.1	102.1
69.5°	114.9	101.6	90.8	92.5	98.3	98.0
70°	109.6	96.8	87.3	89.3	94.5	94.5
70.5°	104.3	92.3	83.8	86.0	91.0	90.8
71°	99.3	88.3	80.2	83.0	87.8	87.3
71.5°	94.5	84.3	76.7	79.7	84.3	84.0
72°	89.8	80.2	73.0	76.5	81.0	80.7
72.5°	85.3	76.2	70.0	73.2	77.7	77.2
73°	80.7	72.0	66.7	70.2	74.5	74.0
73.5°	76.5	68.5	63.7	67.2	71.2	70.7
74°	72.2	64.7	60.9	64.4	68.0	67.7
74.5°	68.2	61.2	57.9	61.4	64.9	64.4
75°	64.2	57.9	55.2	58.4	61.9	61.4
75.5°	60.4	54.7	52.7	55.7	58.9	58.4
76°	56.7	51.7	49.9	52.9	55.9	55.7
76.5°	53.2	48.6	47.4	50.4	53.2	52.7
77°	49.9	45.6	44.9	47.6	50.4	49.9
77.5°	46.6	42.9	42.6	45.1	47.4	47.1
78°	43.4	40.1	40.4	42.6	44.9	44.4
78.5°	40.4	37.6	37.9	40.1	42.1	41.9
79°	37.4	35.1	35.9	37.6	39.6	39.1
79.5°	34.6	32.6	33.6	35.4	37.1	36.6
80°	31.6	30.3	31.3	32.9	34.6	34.1
80.5°	29.1	28.1	29.3	30.6	32.1	31.8
81°	26.6	25.8	27.3	28.3	29.8	29.3
81.5°	24.1	23.8	25.1	26.1	27.3	27.1
82°	22.1	21.8	23.1	24.1	25.1	24.8
82.5°	19.8	19.8	21.1	21.8	22.8	22.6
83°	17.8	17.8	19.3	19.8	20.6	20.3
83.5°	15.5	16.0	17.3	17.8	18.6	18.1
84°	13.5	14.3	15.5	15.8	16.3	16.0
84.5°	11.5	12.5	13.8	14.0	14.3	14.0
85°	9.8	11.0	12.0	12.3	12.3	12.0
85.5°	8.0	9.3	10.3	10.5	10.3	10.0
86°	6.5	7.8	8.5	8.8	8.8	8.5
86.5°	5.0	6.3	7.0	7.3	7.5	7.0
87°	3.8	4.8	5.5	5.8	6.0	5.5
87.5°	2.3	3.5	4.0	4.0	4.5	4.0
88°	1.3	2.0	2.3	2.5	3.3	2.8
88.5°	0.3	0.8	1.0	1.3	2.0	1.8



TEST NUMBER: P776162

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	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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Scaled Data Report





21.5°	1091.8	1105.1	1150.8	1230.3	1334.8	1455.7	1567.3	1642.5	1679.6	1664.1	1596.9
22°	1077.5	1090.8	1137.5	1217.7	1323.5	1446.2	1559.8	1635.5	1673.1	1657.6	1589.4



44°	468.9	483.0	519.3	570.7	631.2	705.9	769.6	786.9	804.0	798.2	770.4
44.5°	456.1	470.2	505.5	556.2	613.1	684.6	746.0	761.8	778.1	771.6	745.8



66.5°	121.9	122.6	119.9	120.4	133.2	153.0	177.0	188.1	193.3	189.3	173.3
67°	117.9	118.6	116.1	115.6	127.6	146.9	170.0	180.6	185.3	181.6	166.3



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

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21.5°	1487.5	1369.7	1251.8	1160.0	1115.4	1091.8
22°	1478.3	1358.1	1239.0	1146.5	1101.4	1077.5



44°	714.4	652.0	580.3	522.1	491.0	468.9
44.5°	692.6	632.9	564.5	508.1	478.2	456.1



66.5°	149.7	132.7	116.9	114.1	121.6	121.9
67°	143.4	127.1	112.1	110.3	117.6	117.9

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Scaled Data Report



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

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)