

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: P776164

Luminaire Tested: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776164  
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: HCDJBS1525CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K  
Description: 8 INCH ROUND NARROW LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2872.7 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

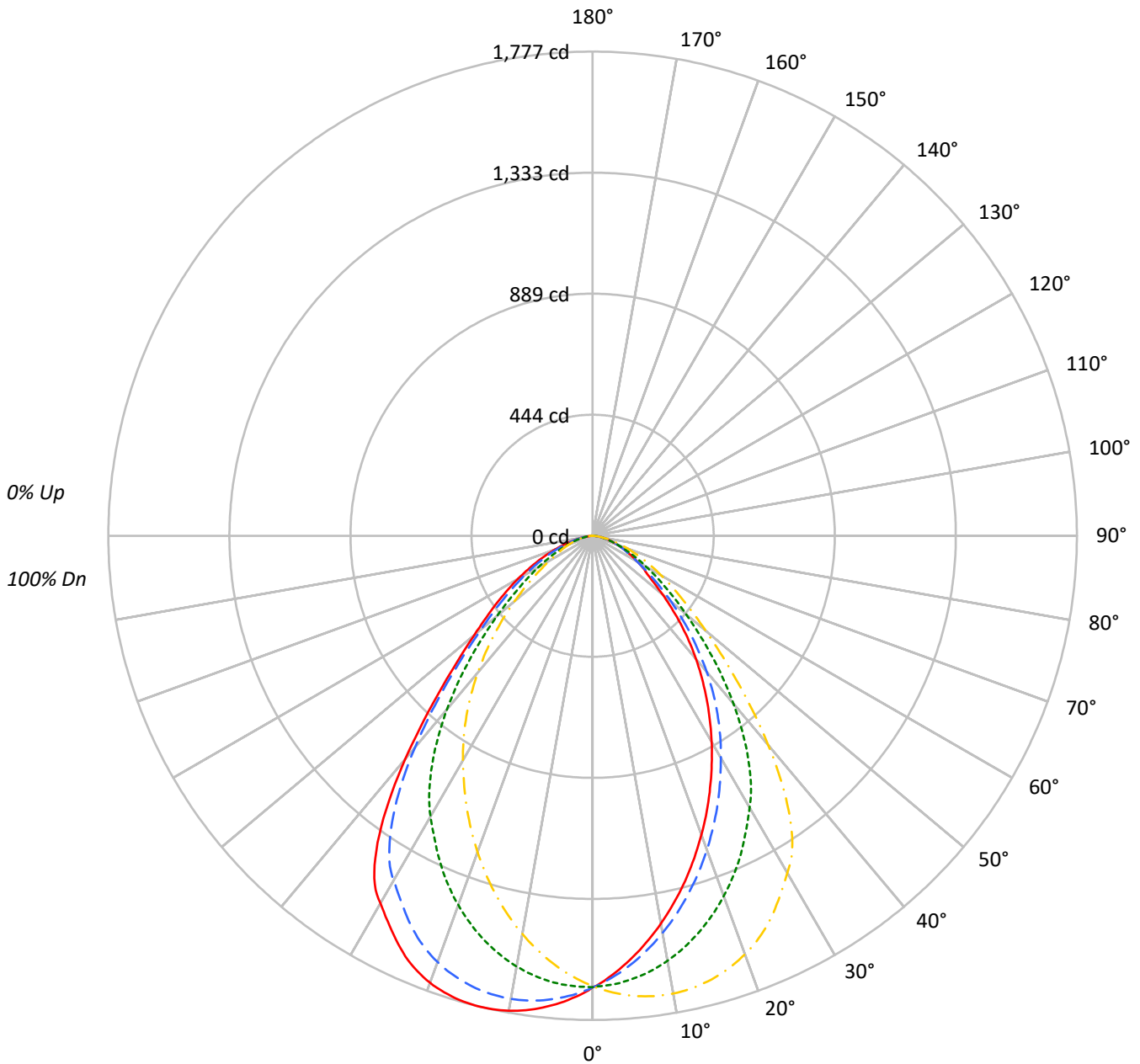
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

### 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	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°	50586	50586	50586	50586
5°	47901	50083	53034	50433
10°	44791	49103	54863	49766
15°	41440	47632	56116	48561
20°	37945	45726	56707	46850
25°	34364	43368	56223	44584
30°	30776	40637	54918	41937
35°	27152	37066	51262	38277
40°	23522	32035	42616	33147
45°	19697	26437	33457	27309
50°	15897	21264	26964	21730
55°	13036	17155	22744	17267
60°	11614	13879	19301	13916
65°	10027	11219	16146	11168
70°	8685	8962	13042	8891
75°	7455	7125	9920	7030
80°	6171	5714	6400	5485
85°	4344	4344	1892	3993

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°  
 Vertical Angle: 45°  
 Luminance: 33457 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	5.4
10°-20°	430.7	15.0
20°-30°	608.6	21.2
30°-40°	639.7	22.3
40°-50°	482.3	16.8
50°-60°	299.0	10.4
60°-70°	168.1	5.9
70°-80°	74.2	2.6
80°-90°	14.7	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°	1194.7	41.6
0°-40°	1834.4	63.9
0°-60°	2615.7	91.1
0°-90°	2872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1657	1657	1657	1657	1657	
5°	1563	1634	1730	1646	1563	145
15°	1311	1507	1775	1536	1311	367
25°	1020	1287	1669	1324	1020	468
35°	728	994	1375	1027	728	455
45°	456	612	775	632	456	352
55°	245	322	427	324	245	225
65°	139	155	224	155	139	139
75°	63	60	84	60	63	68
85°	12	12	5	11	12	15
90°	0	0	0	0	0	



TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9
0.5°	1651.5	1652.3	1652.0	1652.0	1654.6	1656.4	1658.2	1666.7	1668.5	1668.5	1664.9
1°	1642.7	1644.0	1645.3	1647.9	1653.6	1658.7	1663.4	1673.9	1676.3	1676.0	1670.6
1.5°	1633.7	1635.2	1638.3	1643.5	1652.3	1660.8	1668.5	1680.9	1684.3	1683.5	1676.5
2°	1624.1	1626.2	1630.8	1638.6	1650.7	1662.6	1673.2	1687.4	1691.7	1690.5	1681.7
2.5°	1614.6	1616.9	1623.4	1633.4	1648.7	1663.9	1677.3	1693.6	1698.7	1697.2	1687.1
3°	1604.8	1607.6	1615.1	1628.3	1646.3	1664.9	1681.4	1699.2	1705.9	1703.6	1691.5
3.5°	1594.7	1598.1	1607.4	1622.6	1644.0	1665.7	1685.3	1705.2	1712.4	1709.8	1695.9
4°	1584.4	1588.0	1598.9	1616.9	1640.9	1666.2	1688.7	1710.3	1718.6	1715.7	1700.0
4.5°	1573.8	1577.7	1590.1	1610.7	1637.8	1666.5	1692.0	1715.5	1724.5	1721.2	1704.1
5°	1563.0	1567.6	1581.0	1604.3	1634.2	1666.2	1694.6	1720.1	1730.5	1726.6	1707.5
5.5°	1552.1	1557.0	1572.3	1597.6	1630.6	1665.9	1697.2	1724.5	1735.9	1731.5	1710.8
6°	1541.0	1546.0	1562.7	1590.3	1626.5	1664.9	1699.5	1728.6	1740.8	1736.1	1713.7
6.5°	1529.7	1534.9	1553.2	1583.1	1622.1	1663.9	1701.3	1732.3	1745.4	1740.5	1716.5
7°	1517.8	1523.8	1543.1	1575.6	1617.7	1662.6	1702.8	1735.9	1750.1	1744.4	1718.6
7.5°	1506.5	1512.7	1533.3	1567.9	1612.5	1661.0	1704.1	1739.0	1754.2	1748.3	1720.6
8°	1494.3	1500.8	1523.0	1559.9	1607.4	1658.7	1705.2	1741.8	1758.1	1751.6	1722.2
8.5°	1482.2	1489.2	1512.7	1551.6	1601.9	1656.7	1705.7	1744.1	1761.4	1754.7	1723.5
9°	1469.6	1477.1	1501.6	1543.1	1596.0	1654.1	1705.9	1746.5	1764.5	1757.3	1724.8
9.5°	1457.4	1464.9	1491.0	1534.3	1590.1	1651.2	1705.9	1748.3	1767.4	1759.6	1725.3
10°	1444.8	1452.5	1479.9	1525.0	1583.9	1647.9	1705.7	1749.5	1769.7	1761.7	1725.8
10.5°	1431.9	1440.2	1468.5	1516.3	1577.2	1644.3	1705.2	1750.8	1771.7	1763.5	1725.8
11°	1419.0	1427.5	1456.9	1506.7	1570.2	1640.7	1704.1	1751.6	1773.5	1764.8	1725.6
11.5°	1406.1	1414.9	1445.6	1496.9	1563.2	1636.5	1703.1	1752.1	1775.1	1766.1	1724.8
12°	1392.9	1401.7	1433.7	1486.9	1556.0	1632.4	1701.6	1752.1	1776.1	1766.6	1724.0
12.5°	1379.3	1388.8	1421.6	1477.1	1548.3	1627.8	1699.5	1752.1	1776.9	1767.1	1722.7
13°	1365.6	1375.4	1409.4	1466.5	1540.5	1622.8	1697.4	1751.6	1777.4	1767.1	1721.2
13.5°	1352.4	1362.0	1397.3	1456.4	1532.8	1617.7	1694.8	1750.8	1777.4	1766.8	1719.4
14°	1338.7	1348.8	1384.9	1445.6	1524.0	1612.3	1692.0	1749.5	1777.2	1766.1	1717.0
14.5°	1324.8	1335.1	1372.3	1434.7	1515.5	1606.3	1688.9	1748.3	1776.4	1765.0	1714.5
15°	1311.1	1321.7	1359.4	1423.6	1507.0	1600.4	1685.6	1746.2	1775.4	1763.7	1711.6
15.5°	1296.7	1307.8	1346.5	1412.3	1498.0	1593.9	1681.7	1744.1	1774.1	1762.2	1708.5
16°	1282.7	1293.8	1333.6	1400.9	1488.7	1587.5	1677.8	1741.6	1772.3	1760.1	1704.9
16.5°	1268.6	1279.9	1320.7	1389.6	1479.1	1580.5	1673.4	1738.7	1770.5	1757.8	1701.0
17°	1254.4	1266.2	1307.8	1377.7	1469.6	1573.6	1668.8	1735.6	1767.9	1755.0	1696.9
17.5°	1239.9	1252.0	1294.1	1366.1	1459.8	1566.3	1663.9	1732.0	1765.0	1751.9	1692.3
18°	1225.5	1237.8	1280.9	1353.7	1449.7	1558.6	1658.7	1728.1	1761.9	1748.3	1687.6
18.5°	1211.0	1223.4	1267.3	1341.8	1439.1	1550.9	1653.0	1723.7	1758.3	1744.4	1682.5
19°	1196.8	1209.2	1253.8	1329.5	1428.8	1542.6	1647.1	1719.1	1754.5	1740.3	1676.8
19.5°	1181.8	1194.8	1240.2	1317.1	1418.2	1534.3	1640.9	1714.2	1750.3	1735.6	1670.8
20°	1167.9	1180.6	1226.2	1304.7	1407.4	1525.6	1634.5	1708.8	1745.4	1730.2	1664.7
20.5°	1152.9	1166.4	1212.6	1291.8	1396.0	1516.8	1627.8	1703.1	1740.3	1724.8	1658.2
21°	1138.5	1151.9	1198.6	1278.9	1384.9	1507.5	1620.3	1696.9	1734.6	1719.1	1651.0



TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1094.1	1108.0	1156.6	1239.9	1350.1	1478.1	1596.8	1675.5	1714.5	1698.2	1627.2
23°	1079.4	1093.6	1142.4	1226.5	1338.0	1467.8	1588.0	1667.2	1706.7	1690.2	1618.5
23.5°	1064.7	1078.6	1127.9	1213.1	1325.6	1457.2	1578.7	1658.7	1698.2	1681.7	1609.2
24°	1050.0	1064.2	1114.2	1199.7	1313.2	1446.1	1569.2	1648.9	1689.2	1672.1	1599.1
24.5°	1035.0	1049.5	1099.5	1186.0	1300.6	1434.5	1558.9	1638.8	1679.4	1662.3	1588.5
25°	1020.1	1034.8	1085.3	1172.0	1287.4	1422.6	1548.0	1628.3	1669.0	1651.8	1577.4
25.5°	1005.3	1019.8	1070.9	1158.1	1273.7	1410.0	1536.7	1617.7	1658.5	1641.4	1566.1
26°	990.6	1005.6	1056.4	1144.2	1260.6	1397.3	1525.0	1606.1	1647.6	1629.8	1554.2
26.5°	975.9	990.9	1042.0	1130.2	1246.6	1384.2	1512.9	1594.5	1636.5	1618.7	1542.6
27°	961.5	976.2	1027.8	1116.0	1232.7	1371.5	1501.1	1583.1	1625.2	1607.6	1530.5
27.5°	946.5	961.5	1013.3	1101.6	1219.3	1358.6	1488.9	1572.0	1613.8	1596.0	1518.6
28°	931.5	947.0	998.6	1087.4	1205.6	1345.7	1477.1	1560.1	1602.2	1584.4	1506.7
28.5°	916.6	932.1	984.2	1073.2	1192.2	1332.5	1464.4	1548.8	1591.1	1573.3	1495.1
29°	902.1	917.6	970.3	1059.3	1178.8	1319.9	1452.5	1537.2	1579.5	1561.7	1483.0
29.5°	887.7	902.9	955.8	1045.3	1165.6	1307.3	1440.4	1526.1	1568.4	1550.3	1471.4
30°	873.0	888.5	941.4	1031.9	1152.7	1294.9	1428.8	1515.2	1557.8	1539.8	1460.5
30.5°	858.0	874.0	927.2	1018.0	1139.3	1282.5	1417.4	1504.9	1547.8	1529.7	1449.7
31°	843.6	859.6	913.5	1004.6	1126.1	1270.4	1406.6	1493.6	1536.7	1518.1	1437.3
31.5°	829.1	845.1	899.5	990.4	1111.7	1256.4	1393.7	1479.6	1523.5	1504.7	1423.1
32°	814.7	830.9	885.4	976.4	1096.7	1241.7	1379.3	1463.6	1508.0	1488.9	1406.6
32.5°	799.7	816.2	871.4	961.5	1080.7	1224.9	1363.0	1446.6	1490.5	1471.1	1389.1
33°	785.5	802.3	857.0	947.0	1064.4	1207.9	1345.5	1426.7	1470.6	1451.5	1370.2
33.5°	771.6	788.3	843.0	931.5	1047.1	1189.3	1326.1	1405.8	1449.2	1430.3	1349.6
34°	757.1	774.1	828.3	915.5	1029.9	1170.5	1306.0	1382.6	1426.0	1407.9	1328.4
34.5°	742.9	760.2	813.6	899.8	1012.3	1150.9	1284.3	1358.9	1401.4	1383.9	1306.2
35°	728.5	746.0	798.9	884.1	994.5	1130.2	1262.1	1332.8	1375.4	1358.1	1283.5
35.5°	714.3	731.8	784.2	867.8	975.9	1109.9	1238.4	1306.2	1347.8	1332.3	1259.5
36°	700.6	717.6	769.5	851.6	957.6	1089.0	1214.6	1278.4	1319.1	1304.7	1234.2
36.5°	686.4	703.7	754.8	835.0	938.5	1067.3	1190.4	1250.5	1289.7	1276.0	1208.4
37°	672.7	689.8	740.1	819.0	919.7	1045.1	1164.0	1220.6	1259.5	1246.6	1182.4
37.5°	658.5	675.6	724.9	802.5	900.6	1023.2	1138.2	1190.6	1228.8	1216.2	1155.3
38°	644.9	661.6	710.1	785.7	881.0	1000.4	1111.1	1160.7	1197.6	1185.7	1127.9
38.5°	630.9	647.2	695.2	768.7	861.9	978.3	1084.3	1131.8	1166.1	1155.0	1099.8
39°	617.2	633.5	680.2	752.2	843.3	955.3	1057.5	1100.3	1133.6	1123.8	1071.7
39.5°	603.8	619.6	665.5	735.7	823.7	932.1	1030.1	1070.1	1101.3	1091.8	1043.3
40°	590.2	605.6	650.0	718.9	803.8	908.8	1002.8	1039.1	1069.3	1060.3	1014.6
40.5°	576.5	591.7	635.3	701.6	784.5	885.9	974.9	1009.7	1037.1	1029.1	985.7
41°	563.1	578.0	620.3	685.1	764.8	862.6	948.1	979.3	1006.1	998.1	957.3
41.5°	549.4	564.3	605.9	668.6	745.8	839.2	921.2	949.1	974.1	967.2	929.0
42°	535.7	550.7	591.2	652.1	726.1	816.2	894.6	920.2	943.9	936.4	901.1
42.5°	522.5	537.3	576.5	636.1	706.8	793.2	868.6	891.8	913.7	906.5	873.5
43°	509.1	523.8	562.5	619.8	687.7	771.0	842.3	863.9	884.3	877.9	846.1
43.5°	496.0	510.4	548.3	603.8	668.3	748.6	816.7	836.6	855.4	848.7	819.0



TEST NUMBER: P776164

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	456.2	470.9	506.3	556.3	612.3	683.3	743.7	758.9	774.9	769.0	743.2
45.5°	443.3	457.5	492.6	541.1	594.3	662.7	720.5	734.9	749.9	743.4	718.7
46°	430.7	444.9	478.9	526.2	576.5	642.5	698.0	711.4	725.9	719.7	694.9
46.5°	418.3	432.5	466.0	511.2	559.2	622.1	676.1	688.5	702.7	696.2	672.0
47°	405.6	419.6	452.4	495.7	541.9	602.3	654.7	667.3	680.7	674.0	650.5
47.5°	393.3	407.7	439.2	481.8	525.1	583.4	634.0	646.7	660.1	652.9	629.4
48°	381.1	395.6	426.3	467.1	509.1	565.6	614.1	626.8	640.0	633.0	609.0
48.5°	369.3	383.7	413.4	452.9	493.6	547.6	595.3	607.7	620.3	613.1	589.1
49°	357.1	372.4	401.0	438.9	477.9	529.8	576.5	589.6	602.5	595.1	570.8
49.5°	346.3	361.0	388.4	425.5	462.4	513.5	558.9	571.8	584.7	576.5	552.2
50°	334.7	349.7	376.2	411.8	447.7	497.3	541.6	555.1	567.7	559.7	534.9
50.5°	323.6	339.1	364.1	398.4	433.5	481.3	524.6	538.5	551.2	542.9	518.2
51°	313.0	328.0	352.5	385.5	419.6	465.8	508.6	523.1	535.4	526.9	502.2
51.5°	302.9	317.7	340.9	373.1	406.2	451.1	493.4	507.8	520.5	512.0	486.7
52°	292.9	307.1	329.3	361.0	393.0	436.6	478.2	493.6	505.8	497.0	471.7
52.5°	283.3	297.3	318.4	348.9	380.4	423.2	463.7	479.2	491.8	482.5	457.0
53°	274.6	287.5	307.6	337.0	368.0	409.5	449.5	465.8	478.2	468.9	443.1
53.5°	266.0	277.9	297.0	325.7	356.1	396.4	436.1	452.6	465.0	455.5	429.4
54°	258.3	268.6	286.7	314.6	344.5	383.5	422.9	439.7	452.4	442.5	416.7
54.5°	251.3	259.9	276.6	304.2	333.4	371.6	410.0	427.3	439.7	429.9	404.1
55°	244.9	251.6	267.1	293.7	322.3	359.5	397.9	415.2	427.3	417.8	391.7
55.5°	239.0	243.3	257.8	283.9	311.7	347.8	386.0	403.3	415.5	405.9	379.8
56°	233.5	235.9	248.8	273.8	301.1	336.7	374.2	392.0	403.6	394.6	368.2
56.5°	229.4	228.6	240.2	264.5	291.1	325.7	362.8	380.6	392.0	382.7	356.9
57°	224.5	221.9	231.7	255.2	281.0	314.8	351.7	369.5	380.6	371.6	346.0
57.5°	218.8	215.7	223.7	246.2	271.5	304.5	340.9	358.9	369.5	361.0	335.5
58°	213.1	210.6	216.0	237.4	262.2	294.7	330.3	348.1	358.4	350.4	325.1
58.5°	207.5	205.4	208.5	229.1	253.1	284.9	320.2	337.5	347.3	339.6	314.6
59°	201.8	200.2	201.3	220.9	244.4	275.3	309.9	327.2	336.7	329.0	304.8
59.5°	195.9	194.8	194.6	212.9	235.9	266.0	300.1	316.9	326.2	318.7	294.9
60°	190.2	189.7	187.9	205.1	227.3	257.0	290.6	307.1	316.1	308.9	285.4
60.5°	184.5	184.2	181.7	197.7	219.6	248.5	280.8	297.3	305.8	298.8	276.1
61°	179.1	178.8	175.5	190.2	211.9	239.7	271.5	287.7	296.0	289.3	266.8
61.5°	173.7	173.7	169.5	183.2	203.9	231.2	262.4	278.2	286.2	280.0	258.0
62°	168.5	168.5	164.1	176.2	196.1	223.5	253.9	268.9	276.6	270.9	249.3
62.5°	163.1	163.3	158.7	169.5	189.1	215.5	245.1	259.6	267.3	261.1	240.8
63°	158.2	158.4	153.5	163.1	181.9	207.7	236.6	250.8	258.0	252.4	232.5
63.5°	153.0	153.5	148.6	156.9	175.0	200.0	228.4	242.3	249.0	243.6	224.5
64°	148.4	148.6	144.2	151.0	168.2	192.2	220.4	233.5	240.2	235.1	216.5
64.5°	143.5	144.0	139.9	145.3	161.5	185.0	212.4	225.5	231.7	226.8	208.8
65°	138.8	139.6	135.7	139.6	155.3	178.1	204.4	217.5	223.5	218.8	200.8
65.5°	134.4	135.0	131.6	134.2	149.2	171.1	196.6	209.5	215.2	210.8	192.8
66°	129.8	130.6	127.5	129.0	143.0	164.1	189.4	201.5	207.2	202.8	185.5





TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	116.9	117.9	115.3	114.3	125.9	145.0	168.0	178.3	182.7	179.3	164.1
68°	113.0	113.8	111.7	109.9	120.2	138.8	161.0	170.8	175.0	171.9	157.1
68.5°	108.9	109.7	107.9	105.5	115.1	132.9	154.1	163.9	167.7	164.9	150.7
69°	105.0	105.8	104.0	101.4	110.2	127.0	147.6	156.6	160.2	157.7	144.0
69.5°	100.9	101.9	100.4	97.3	105.3	121.5	141.2	149.9	153.3	150.7	137.8
70°	97.3	98.1	96.8	93.2	100.4	116.1	135.0	143.2	146.1	144.0	131.6
70.5°	93.4	94.4	92.9	89.5	96.0	110.7	128.8	136.8	139.3	137.8	125.7
71°	89.8	90.8	89.5	86.2	91.3	105.5	123.1	130.3	132.6	131.1	119.5
71.5°	86.4	87.5	86.4	82.8	87.2	100.4	117.2	124.4	126.2	124.9	113.8
72°	83.1	84.1	83.1	79.5	82.8	95.5	111.5	117.9	119.5	118.7	108.1
72.5°	79.5	80.5	80.0	75.9	78.7	90.8	105.8	112.2	113.3	112.5	102.4
73°	76.1	77.2	76.6	72.8	74.8	86.2	100.4	106.3	107.1	106.8	97.0
73.5°	72.8	73.8	73.3	69.7	71.0	81.5	95.0	100.6	101.2	101.2	92.1
74°	69.7	70.4	70.2	66.8	67.3	77.2	90.1	95.2	95.5	95.7	87.0
74.5°	66.3	67.3	67.1	63.7	63.7	73.0	84.9	90.1	89.5	90.3	81.8
75°	63.2	64.3	64.3	60.9	60.4	68.9	80.0	84.6	84.1	84.9	77.2
75.5°	60.1	61.2	61.2	58.3	57.3	65.0	75.3	79.7	78.7	80.0	72.5
76°	57.3	58.1	58.3	55.5	53.9	61.2	70.7	74.8	73.3	75.1	67.9
76.5°	54.2	55.2	55.5	52.9	51.1	57.3	66.3	69.9	68.1	70.2	63.5
77°	51.4	52.1	52.6	50.3	48.0	53.9	62.2	65.3	63.2	65.5	59.4
77.5°	48.5	49.3	49.8	47.7	45.2	50.3	57.8	60.9	58.3	61.2	55.2
78°	45.7	46.7	47.2	45.2	42.6	47.2	53.9	56.5	53.7	56.8	51.1
78.5°	43.1	43.9	44.4	42.8	39.7	43.9	50.1	52.4	49.0	52.4	47.5
79°	40.3	41.3	41.8	40.3	37.4	40.8	46.2	48.3	44.6	48.5	43.6
79.5°	37.7	38.7	39.2	37.9	34.8	37.9	42.6	44.4	40.5	44.4	40.3
80°	35.1	35.9	36.6	35.6	32.5	35.1	39.0	40.5	36.4	40.8	36.6
80.5°	32.8	33.3	34.3	33.3	30.2	32.3	35.9	36.6	32.5	36.9	33.3
81°	30.2	31.0	32.0	31.2	27.9	29.7	32.5	33.0	28.6	33.3	30.2
81.5°	27.9	28.6	29.7	28.9	25.8	27.1	29.4	29.4	25.3	29.9	27.1
82°	25.5	26.1	27.4	26.8	23.7	24.5	26.6	26.3	21.9	26.8	24.5
82.5°	23.2	23.7	25.0	24.5	21.7	22.4	24.0	23.2	18.8	23.7	21.9
83°	20.9	21.7	23.0	22.4	19.9	20.4	21.4	20.1	15.5	20.6	19.1
83.5°	18.6	19.4	20.6	20.6	18.1	18.1	18.8	17.0	12.1	17.5	16.5
84°	16.5	17.0	18.6	18.6	16.0	16.0	16.3	13.9	9.5	14.5	13.9
84.5°	14.5	15.0	16.5	16.5	14.2	13.9	13.7	11.1	7.2	11.4	11.9
85°	12.4	12.9	14.5	14.7	12.4	12.1	11.6	8.8	5.4	8.8	9.8
85.5°	10.3	10.6	12.6	12.6	10.6	10.3	9.8	7.0	4.1	7.0	8.0
86°	8.8	9.3	10.8	10.8	9.0	8.5	8.0	5.2	3.4	5.2	6.2
86.5°	7.2	7.7	9.0	9.3	7.5	7.0	6.2	3.6	2.6	3.6	4.6
87°	5.7	6.2	7.5	7.5	5.9	5.4	4.6	2.3	1.8	2.3	3.4
87.5°	4.1	4.6	5.9	5.9	4.4	3.9	3.4	1.3	1.3	1.3	2.1
88°	2.8	3.4	4.4	4.1	3.1	2.6	2.1	0.5	0.5	0.5	1.0
88.5°	1.8	2.1	2.6	2.6	1.5	1.3	1.0	0.3	0.3	0.3	0.3



TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**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: P776164

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9
0.5°	1659.5	1655.9	1651.0	1646.6	1651.8	1651.5
1°	1662.6	1655.9	1647.6	1640.7	1643.8	1642.7
1.5°	1665.4	1655.9	1644.0	1634.2	1635.5	1633.7
2°	1668.3	1655.1	1640.1	1627.2	1627.0	1624.1
2.5°	1670.6	1654.3	1635.8	1620.0	1618.2	1614.6
3°	1672.7	1653.0	1631.4	1613.0	1609.2	1604.8
3.5°	1674.2	1651.5	1626.5	1605.6	1600.1	1594.7
4°	1675.7	1649.9	1621.6	1597.8	1590.6	1584.4
4.5°	1676.8	1647.9	1616.1	1589.6	1580.8	1573.8
5°	1677.3	1645.6	1610.7	1581.0	1571.0	1563.0
5.5°	1677.8	1643.0	1604.5	1572.5	1560.7	1552.1
6°	1678.1	1639.9	1598.6	1563.8	1550.3	1541.0
6.5°	1677.8	1636.5	1592.1	1554.5	1539.8	1529.7
7°	1677.3	1633.2	1585.2	1545.4	1528.7	1517.8
7.5°	1676.5	1629.0	1578.2	1535.4	1517.8	1506.5
8°	1675.5	1624.9	1571.0	1525.8	1506.5	1494.3
8.5°	1674.2	1620.5	1563.2	1515.5	1495.1	1482.2
9°	1672.4	1615.6	1555.2	1505.4	1483.2	1469.6
9.5°	1670.3	1610.5	1547.0	1494.6	1471.4	1457.4
10°	1668.0	1605.3	1538.7	1484.3	1459.5	1444.8
10.5°	1665.4	1599.6	1530.2	1473.2	1447.4	1431.9
11°	1662.3	1593.4	1521.4	1462.3	1435.0	1419.0
11.5°	1659.2	1587.2	1512.1	1450.7	1422.3	1406.1
12°	1655.4	1580.8	1502.9	1439.4	1409.7	1392.9
12.5°	1651.8	1574.1	1493.3	1427.8	1396.8	1379.3
13°	1647.4	1567.1	1483.8	1415.9	1383.9	1365.6
13.5°	1643.0	1559.9	1473.7	1404.0	1371.0	1352.4
14°	1638.1	1552.4	1463.4	1391.6	1357.6	1338.7
14.5°	1633.2	1544.7	1452.8	1379.3	1344.4	1324.8
15°	1627.8	1536.4	1442.5	1367.1	1330.7	1311.1
15.5°	1622.1	1528.1	1431.4	1354.0	1317.1	1296.7
16°	1616.1	1519.4	1420.5	1341.3	1303.4	1282.7
16.5°	1609.9	1510.9	1409.4	1328.2	1289.5	1268.6
17°	1603.2	1501.6	1397.8	1315.5	1275.8	1254.4
17.5°	1596.5	1492.3	1386.5	1302.6	1261.8	1239.9
18°	1589.3	1482.7	1374.6	1288.9	1247.9	1225.5
18.5°	1582.1	1472.9	1362.7	1275.5	1233.7	1211.0
19°	1574.1	1462.9	1350.6	1262.4	1219.3	1196.8
19.5°	1566.1	1452.8	1338.5	1248.9	1205.1	1181.8
20°	1557.8	1442.0	1326.1	1235.3	1190.9	1167.9
20.5°	1549.0	1431.6	1313.7	1221.3	1176.7	1152.9
21°	1540.3	1420.5	1300.8	1207.7	1162.2	1138.5

TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1511.6	1386.5	1262.1	1165.9	1118.9	1094.1
23°	1501.3	1374.4	1248.7	1151.7	1103.9	1079.4
23.5°	1490.2	1362.2	1235.3	1137.7	1089.7	1064.7
24°	1479.1	1349.8	1221.6	1123.0	1075.3	1050.0
24.5°	1467.2	1336.9	1207.9	1109.3	1060.3	1035.0
25°	1454.9	1323.5	1194.0	1094.6	1045.6	1020.1
25.5°	1442.5	1310.4	1180.0	1080.2	1031.2	1005.3
26°	1429.6	1296.9	1165.9	1066.0	1016.4	990.6
26.5°	1416.9	1283.0	1151.7	1051.8	1001.7	975.9
27°	1404.3	1269.1	1137.2	1037.1	987.3	961.5
27.5°	1391.4	1255.7	1123.0	1022.4	972.3	946.5
28°	1378.5	1242.2	1108.8	1007.9	957.9	931.5
28.5°	1365.8	1228.6	1095.1	994.0	942.9	916.6
29°	1353.4	1215.4	1081.2	979.5	928.7	902.1
29.5°	1341.3	1202.5	1067.8	965.6	914.0	887.7
30°	1329.5	1189.6	1054.1	951.2	899.5	873.0
30.5°	1317.1	1176.7	1040.2	937.2	885.1	858.0
31°	1303.1	1162.8	1026.0	923.3	870.9	843.6
31.5°	1288.4	1148.3	1012.1	909.1	856.5	829.1
32°	1271.9	1132.3	997.1	894.9	842.0	814.7
32.5°	1254.4	1115.8	981.9	880.5	827.6	799.7
33°	1235.8	1099.3	966.4	866.0	813.6	785.5
33.5°	1216.7	1081.5	950.6	851.6	799.4	771.6
34°	1196.8	1063.7	934.4	836.8	785.2	757.1
34.5°	1176.7	1045.6	917.9	821.9	771.0	742.9
35°	1156.0	1027.0	901.4	806.9	757.1	728.5
35.5°	1134.6	1008.4	884.8	791.7	742.7	714.3
36°	1113.0	989.3	868.1	777.0	728.7	700.6
36.5°	1090.5	970.5	851.3	761.8	714.5	686.4
37°	1067.8	950.9	834.0	746.3	700.3	672.7
37.5°	1044.8	931.5	817.2	731.0	686.1	658.5
38°	1021.6	911.4	799.9	715.8	672.0	644.9
38.5°	998.4	891.8	782.9	700.6	657.8	630.9
39°	974.9	871.7	766.1	685.6	643.6	617.2
39.5°	951.2	851.8	748.6	670.4	629.6	603.8
40°	926.4	831.7	731.6	655.2	615.7	590.2
40.5°	902.1	811.3	714.5	640.2	601.5	576.5
41°	878.4	790.9	697.5	625.2	587.6	563.1
41.5°	854.1	770.8	680.5	610.0	573.4	549.4
42°	830.1	750.9	663.7	595.6	559.7	535.7
42.5°	805.6	730.3	647.2	581.1	546.0	522.5
43°	781.9	710.7	630.4	566.2	532.6	509.1
43.5°	758.4	690.8	613.4	551.4	519.2	496.0



TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	690.3	632.5	564.6	508.6	478.7	456.2
45.5°	667.8	613.1	548.3	494.4	465.8	443.3
46°	646.9	594.5	532.6	480.7	452.6	430.7
46.5°	625.2	576.0	516.9	467.1	440.0	418.3
47°	604.9	558.2	501.4	453.1	427.3	405.6
47.5°	585.0	540.1	485.9	439.5	414.9	393.3
48°	566.2	522.8	471.2	426.3	402.8	381.1
48.5°	547.1	505.8	456.2	412.9	390.4	369.3
49°	528.7	489.5	441.8	400.2	378.8	357.1
49.5°	511.4	473.5	427.3	387.3	367.2	346.3
50°	494.7	457.5	413.4	374.7	355.6	334.7
50.5°	477.9	442.0	399.5	362.0	344.5	323.6
51°	462.4	427.3	386.3	350.2	332.9	313.0
51.5°	447.5	413.1	373.1	338.0	322.3	302.9
52°	432.7	399.2	360.5	326.9	311.7	292.9
52.5°	418.3	385.8	348.1	315.3	301.1	283.3
53°	404.6	372.6	336.0	304.2	290.8	274.6
53.5°	391.2	360.0	324.4	293.4	280.8	266.0
54°	378.8	347.8	312.8	283.1	270.9	258.3
54.5°	366.4	336.2	301.9	272.8	261.7	251.3
55°	354.3	324.4	291.3	262.9	252.9	244.9
55.5°	342.9	313.5	281.0	253.4	244.4	239.0
56°	331.6	302.9	270.9	244.4	236.1	233.5
56.5°	320.8	292.4	261.1	235.6	228.4	229.4
57°	310.2	282.0	251.9	226.8	221.4	224.5
57.5°	299.8	272.5	242.8	218.8	214.4	218.8
58°	290.0	263.2	234.0	211.1	208.2	213.1
58.5°	280.2	253.9	225.5	203.6	202.6	207.5
59°	270.7	244.6	217.3	196.4	197.4	201.8
59.5°	261.7	236.4	209.3	189.1	192.5	195.9
60°	252.6	227.9	201.5	182.7	187.3	190.2
60.5°	243.9	219.6	194.1	176.2	182.2	184.5
61°	235.3	211.1	186.8	170.1	177.0	179.1
61.5°	227.3	203.6	179.6	164.1	171.9	173.7
62°	219.3	196.1	172.6	158.7	167.0	168.5
62.5°	211.6	188.9	166.2	153.0	161.8	163.1
63°	203.6	181.4	159.7	147.9	156.9	158.2
63.5°	195.9	174.4	153.5	143.0	152.2	153.0
64°	188.4	167.7	147.3	138.1	147.3	148.4
64.5°	181.4	161.0	141.7	133.4	143.0	143.5
65°	173.9	154.6	136.0	129.3	138.3	138.8
65.5°	167.2	148.4	130.6	125.2	133.9	134.4
66°	160.5	142.2	125.4	121.3	129.5	129.8



TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	141.4	125.2	110.7	109.7	116.6	116.9
68°	135.5	119.7	106.1	106.1	112.8	113.0
68.5°	129.5	114.3	101.7	102.4	108.6	108.9
69°	123.9	109.4	97.5	98.6	105.0	105.0
69.5°	118.2	104.5	93.4	95.2	101.2	100.9
70°	112.8	99.6	89.8	91.9	97.3	97.3
70.5°	107.3	95.0	86.2	88.5	93.7	93.4
71°	102.2	90.8	82.6	85.4	90.3	89.8
71.5°	97.3	86.7	79.0	82.1	86.7	86.4
72°	92.4	82.6	75.1	78.7	83.3	83.1
72.5°	87.7	78.4	72.0	75.3	80.0	79.5
73°	83.1	74.1	68.6	72.3	76.6	76.1
73.5°	78.7	70.4	65.5	69.2	73.3	72.8
74°	74.3	66.6	62.7	66.3	69.9	69.7
74.5°	70.2	63.0	59.6	63.2	66.8	66.3
75°	66.1	59.6	56.8	60.1	63.7	63.2
75.5°	62.2	56.3	54.2	57.3	60.6	60.1
76°	58.3	53.2	51.4	54.4	57.5	57.3
76.5°	54.7	50.1	48.8	51.9	54.7	54.2
77°	51.4	47.0	46.2	49.0	51.9	51.4
77.5°	48.0	44.1	43.9	46.4	48.8	48.5
78°	44.6	41.3	41.5	43.9	46.2	45.7
78.5°	41.5	38.7	39.0	41.3	43.4	43.1
79°	38.4	36.1	36.9	38.7	40.8	40.3
79.5°	35.6	33.5	34.6	36.4	38.2	37.7
80°	32.5	31.2	32.3	33.8	35.6	35.1
80.5°	29.9	28.9	30.2	31.5	33.0	32.8
81°	27.4	26.6	28.1	29.2	30.7	30.2
81.5°	24.8	24.5	25.8	26.8	28.1	27.9
82°	22.7	22.4	23.7	24.8	25.8	25.5
82.5°	20.4	20.4	21.7	22.4	23.5	23.2
83°	18.3	18.3	19.9	20.4	21.2	20.9
83.5°	16.0	16.5	17.8	18.3	19.1	18.6
84°	13.9	14.7	16.0	16.3	16.8	16.5
84.5°	11.9	12.9	14.2	14.5	14.7	14.5
85°	10.1	11.4	12.4	12.6	12.6	12.4
85.5°	8.3	9.5	10.6	10.8	10.6	10.3
86°	6.7	8.0	8.8	9.0	9.0	8.8
86.5°	5.2	6.5	7.2	7.5	7.7	7.2
87°	3.9	4.9	5.7	5.9	6.2	5.7
87.5°	2.3	3.6	4.1	4.1	4.6	4.1
88°	1.3	2.1	2.3	2.6	3.4	2.8
88.5°	0.3	0.8	1.0	1.3	2.1	1.8



TEST NUMBER: P776164

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-5000K

**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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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°	1123.5	1137.2	1184.2	1266.0	1373.6	1498.0	1612.8	1690.2	1728.4	1712.4	1643.2
22°	1108.8	1122.5	1170.5	1253.1	1362.0	1488.1	1605.0	1683.0	1721.7	1705.7	1635.5



44°	482.5	497.0	534.4	587.3	649.5	726.4	791.9	809.7	827.3	821.4	792.7
44.5°	469.4	483.8	520.2	572.3	630.9	704.5	767.7	783.9	800.7	794.0	767.4



66.5°	125.4	126.2	123.3	123.9	137.0	157.4	182.2	193.5	199.0	194.8	178.3
67°	121.3	122.1	119.5	119.0	131.3	151.2	175.0	185.8	190.7	186.8	171.1



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°	1530.7	1409.4	1288.2	1193.7	1147.8	1123.5
22°	1521.2	1397.6	1275.0	1179.8	1133.3	1108.8



44°	735.2	670.9	597.1	537.3	505.3	482.5
44.5°	712.7	651.3	580.9	522.8	492.1	469.4



66.5°	154.1	136.5	120.2	117.4	125.2	125.4
67°	147.6	130.8	115.3	113.5	121.0	121.3

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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)