

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P776032

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-2500lm-3500K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B036)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBLS1525CSD-HCD61TRH-2500lm-3500K  
Description: 6 INCH ROUND SHALLOW-WIDE HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

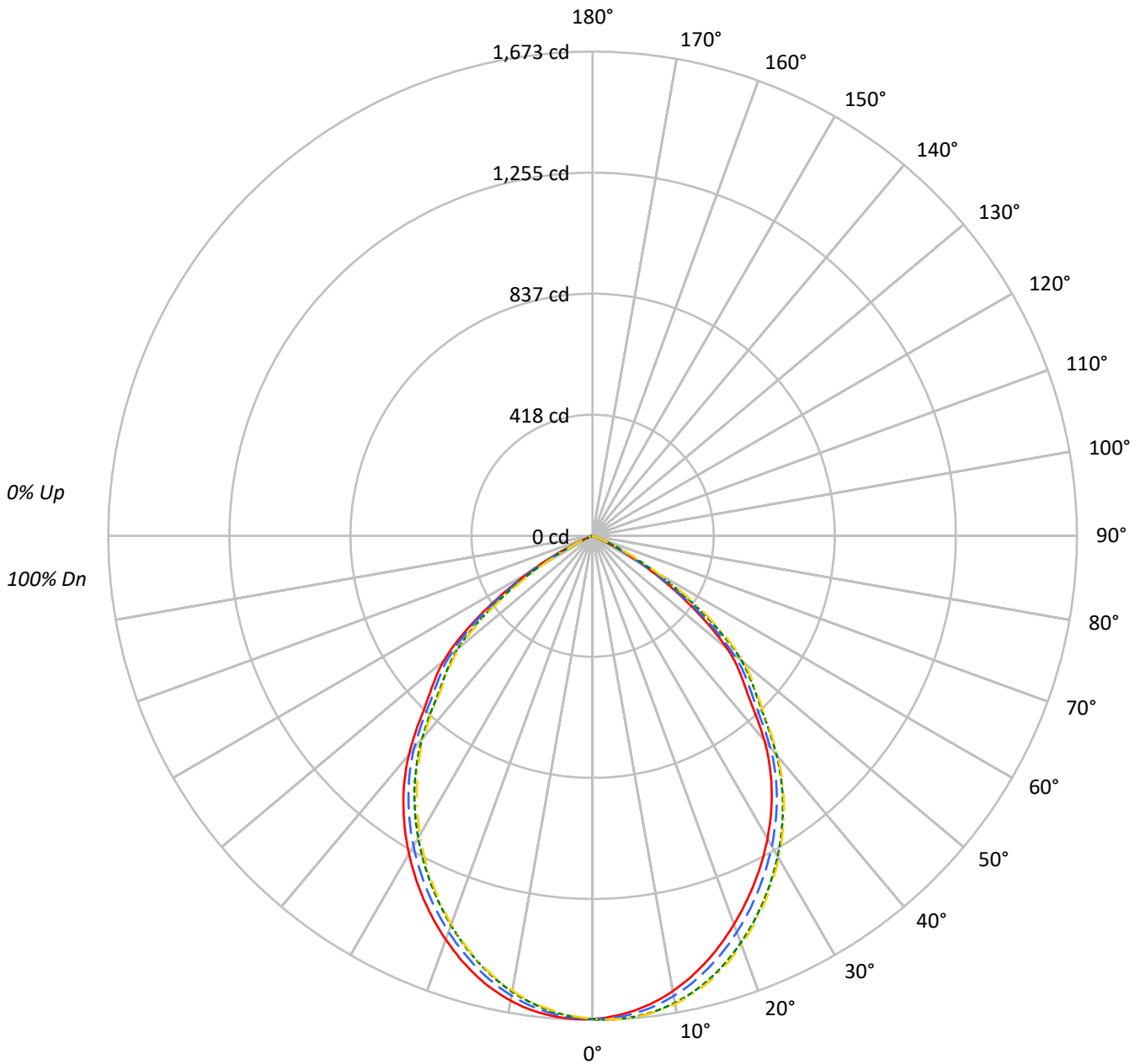
Lumens per Lamp: N/A  
Luminaire Lumens: 2982.2 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P776032  
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-3500K

### Luminous Intensity Polar Plot





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**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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																			
2	104	98	93	89	102	96	91	87	93	89	86	90	87	84	87	84	82	80																			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71																			
4	90	80	73	68	88	79	72	67	77	71	66	74	70	65	72	68	65	63																			
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45																			
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41																			
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37																			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34																			

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

	0°	90°	180°	270°
0°	91539	91539	91539	91539
5°	90650	91795	91586	90705
10°	88921	91220	90791	89071
15°	86385	89705	89075	86601
20°	83325	87333	86592	83517
25°	80025	84362	83666	80067
30°	76493	80949	80335	76284
35°	72190	76674	76266	71788
40°	66052	70718	70611	65673
45°	58115	62999	62782	57711
50°	51700	57329	57107	51930
55°	38116	44127	44443	39148
60°	21775	27191	27860	23375
65°	6278	10222	9625	8172
70°	160	240	160	481
75°	106	106	106	106
80°	95	95	95	95
85°	189	0	0	189

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 63604 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	5.3
10°-20°	435.8	14.6
20°-30°	623.5	20.9
30°-40°	690.2	23.1
40°-50°	606.4	20.3
50°-60°	386.1	12.9
60°-70°	82.2	2.8
70°-80°	0.7	0.0
80°-90°	0.4	0.0
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°	1216.2	40.8
0°-40°	1906.4	63.9
0°-60°	2899.0	97.2
0°-90°	2982.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2982.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1670	1670	1670	1670	1670	
5°	1647	1668	1664	1648	1647	156
15°	1522	1581	1570	1526	1522	428
25°	1323	1395	1383	1324	1323	609
35°	1079	1146	1140	1073	1079	671
45°	750	813	810	744	750	583
55°	399	462	465	410	399	355
65°	48	79	74	63	48	64
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	1	0	



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
0.5°	1668.6	1669.3	1670.1	1669.8	1671.6	1671.4	1670.6	1670.3	1670.3	1670.3	1670.1
1°	1667.3	1668.3	1669.8	1669.8	1672.1	1672.1	1671.4	1671.1	1670.8	1670.3	1669.6
1.5°	1665.8	1667.3	1669.1	1669.8	1672.6	1672.9	1672.1	1671.6	1670.8	1670.1	1668.8
2°	1663.8	1665.8	1668.1	1669.3	1672.6	1673.1	1672.6	1671.9	1670.8	1669.3	1667.8
2.5°	1661.8	1664.1	1666.8	1668.6	1672.6	1673.4	1672.6	1671.9	1670.3	1668.6	1666.6
3°	1659.6	1662.1	1665.3	1667.8	1672.1	1673.1	1672.6	1671.4	1669.8	1667.6	1665.1
3.5°	1656.8	1659.8	1663.6	1666.6	1671.6	1672.6	1672.4	1670.8	1668.8	1666.1	1663.1
4°	1653.8	1657.3	1661.6	1665.1	1670.6	1672.1	1671.6	1670.1	1667.6	1664.6	1660.8
4.5°	1650.5	1654.5	1659.1	1663.1	1669.6	1671.4	1670.8	1669.1	1666.1	1662.6	1658.6
5°	1647.3	1651.3	1656.3	1661.1	1668.1	1670.1	1669.6	1667.6	1664.3	1660.3	1656.1
5.5°	1643.5	1647.8	1653.3	1658.8	1666.6	1668.6	1668.3	1666.1	1662.1	1657.8	1653.0
6°	1639.2	1644.0	1650.3	1656.3	1664.6	1667.1	1666.6	1664.1	1659.8	1654.8	1649.5
6.5°	1635.2	1640.0	1646.8	1653.3	1662.3	1665.1	1664.6	1661.8	1657.3	1651.8	1646.3
7°	1630.7	1635.7	1643.0	1650.0	1659.8	1662.8	1662.3	1659.3	1654.5	1648.5	1642.5
7.5°	1625.7	1631.2	1639.0	1646.5	1656.8	1660.3	1659.8	1656.6	1651.3	1644.8	1638.2
8°	1620.7	1626.2	1634.5	1642.8	1654.0	1657.6	1657.1	1653.3	1647.8	1641.0	1634.0
8.5°	1615.2	1621.2	1630.0	1639.0	1650.5	1654.5	1654.0	1650.0	1644.0	1636.7	1629.2
9°	1609.7	1615.7	1625.2	1634.5	1646.8	1651.0	1650.5	1646.3	1639.7	1632.2	1624.2
9.5°	1603.6	1610.2	1619.9	1630.0	1642.8	1647.5	1646.8	1642.5	1635.5	1627.5	1619.2
10°	1597.4	1603.9	1614.4	1625.2	1638.7	1643.5	1643.0	1638.2	1631.0	1622.4	1613.7
10.5°	1590.8	1597.6	1608.9	1619.9	1634.2	1639.2	1638.7	1633.7	1626.2	1617.2	1607.9
11°	1584.1	1591.3	1602.9	1614.4	1629.5	1634.7	1634.2	1628.7	1620.7	1611.7	1601.9
11.5°	1577.0	1584.6	1596.6	1608.6	1624.2	1629.7	1629.2	1623.7	1615.2	1605.6	1595.6
12°	1570.0	1577.6	1590.3	1602.6	1618.9	1624.7	1624.2	1618.2	1609.7	1599.4	1589.1
12.5°	1562.5	1570.5	1583.6	1596.6	1613.2	1619.2	1618.7	1612.7	1603.6	1593.1	1582.3
13°	1554.7	1563.3	1576.5	1590.1	1607.1	1613.7	1612.9	1606.6	1597.1	1586.3	1575.3
13.5°	1547.0	1555.5	1569.3	1583.3	1600.9	1607.6	1606.9	1600.4	1590.8	1579.6	1568.3
14°	1538.9	1547.7	1562.0	1576.0	1594.4	1601.4	1600.6	1593.9	1583.8	1572.3	1560.7
14.5°	1530.7	1539.4	1554.2	1569.3	1587.6	1594.6	1593.9	1587.1	1576.5	1565.0	1552.7
15°	1522.1	1531.2	1546.5	1561.5	1580.6	1587.8	1587.1	1579.8	1569.5	1557.2	1544.9
15.5°	1513.6	1522.9	1538.2	1554.0	1573.3	1580.6	1579.8	1572.5	1562.0	1549.5	1536.9
16°	1504.6	1514.1	1529.9	1545.4	1565.8	1573.5	1572.3	1565.0	1553.7	1541.4	1528.4
16.5°	1495.8	1505.3	1521.6	1537.9	1557.7	1565.8	1564.5	1557.2	1545.9	1533.2	1519.9
17°	1486.3	1496.3	1512.8	1529.4	1549.7	1558.0	1556.7	1549.2	1537.7	1524.9	1511.3
17.5°	1477.0	1487.3	1503.8	1520.6	1541.4	1549.5	1548.7	1540.7	1529.4	1516.1	1502.6
18°	1467.4	1478.0	1495.0	1511.6	1532.9	1541.2	1539.9	1532.2	1520.6	1507.3	1493.0
18.5°	1457.9	1468.5	1485.8	1503.1	1524.1	1532.4	1531.4	1523.6	1511.6	1498.3	1484.3
19°	1448.1	1459.2	1476.5	1493.8	1515.1	1523.6	1522.6	1514.6	1502.8	1489.3	1474.7
19.5°	1438.6	1449.6	1466.9	1484.8	1506.1	1514.6	1513.6	1505.8	1493.5	1480.0	1465.4
20°	1428.3	1439.6	1457.2	1475.0	1497.0	1505.3	1504.3	1496.5	1484.3	1470.5	1455.7
20.5°	1418.3	1429.6	1447.4	1465.2	1487.3	1496.0	1495.0	1487.0	1475.0	1460.9	1446.1
21°	1408.0	1419.8	1437.6	1455.7	1477.7	1486.3	1485.3	1477.5	1465.2	1451.1	1435.8



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1376.7	1388.9	1407.0	1425.1	1447.6	1456.2	1455.4	1447.4	1435.6	1421.0	1405.5
23°	1366.4	1378.7	1396.5	1414.8	1437.1	1445.9	1445.1	1437.4	1425.3	1410.8	1394.7
23.5°	1355.6	1368.1	1385.9	1404.2	1426.8	1435.6	1434.6	1427.1	1414.8	1400.5	1384.4
24°	1344.8	1357.3	1374.9	1393.5	1416.5	1425.1	1424.3	1416.3	1404.5	1389.9	1373.6
24.5°	1334.0	1346.6	1364.4	1382.9	1405.8	1413.8	1413.5	1405.5	1393.7	1378.9	1363.1
25°	1323.0	1335.8	1353.3	1371.6	1394.7	1403.0	1402.5	1394.7	1383.2	1368.4	1352.1
25.5°	1312.2	1325.0	1342.5	1360.9	1383.7	1392.0	1391.5	1383.9	1372.4	1357.3	1341.3
26°	1300.9	1314.2	1331.5	1349.8	1372.6	1380.4	1380.2	1373.1	1361.4	1346.3	1330.0
26.5°	1289.6	1302.9	1320.0	1338.5	1361.4	1369.4	1369.1	1361.9	1350.1	1335.0	1319.0
27°	1278.6	1291.9	1308.7	1327.2	1350.1	1357.6	1357.8	1350.1	1339.0	1323.7	1307.7
27.5°	1267.1	1280.6	1297.4	1315.2	1338.3	1346.1	1346.3	1338.8	1327.8	1312.5	1296.1
28°	1255.5	1269.1	1285.6	1303.7	1326.7	1334.8	1334.3	1327.5	1316.2	1300.9	1284.4
28.5°	1243.7	1257.3	1273.8	1291.6	1314.7	1322.2	1322.2	1315.7	1304.7	1289.1	1273.1
29°	1231.9	1246.0	1262.0	1279.8	1302.9	1310.2	1310.4	1303.4	1292.9	1277.3	1261.3
29.5°	1220.2	1234.0	1250.3	1267.6	1290.9	1297.9	1298.4	1291.4	1281.1	1265.6	1249.5
30°	1208.4	1222.2	1238.2	1255.5	1278.8	1286.1	1285.9	1279.6	1269.1	1253.5	1237.2
30.5°	1195.8	1210.1	1225.9	1243.5	1265.8	1273.1	1273.1	1267.3	1256.5	1241.2	1224.9
31°	1183.3	1197.8	1213.6	1230.7	1253.5	1260.3	1260.8	1254.3	1244.5	1229.2	1212.9
31.5°	1171.0	1185.5	1200.8	1217.9	1240.5	1247.5	1247.7	1242.0	1231.7	1216.6	1200.6
32°	1158.5	1173.3	1188.3	1205.1	1227.7	1235.0	1234.7	1229.2	1219.4	1203.9	1188.1
32.5°	1145.7	1160.2	1175.5	1192.3	1214.6	1221.4	1221.2	1216.4	1206.6	1191.3	1175.0
33°	1132.6	1147.4	1162.5	1179.3	1201.3	1207.9	1208.4	1203.1	1193.6	1178.5	1162.2
33.5°	1119.6	1134.1	1149.4	1165.7	1187.6	1194.3	1194.6	1189.8	1180.0	1165.7	1149.4
34°	1106.0	1121.1	1136.1	1152.7	1174.0	1181.0	1180.8	1176.3	1166.7	1152.2	1136.1
34.5°	1092.5	1107.8	1122.6	1138.4	1160.2	1166.2	1166.7	1162.2	1153.2	1138.6	1122.8
35°	1078.7	1094.0	1109.1	1124.6	1145.7	1152.4	1152.7	1148.2	1139.6	1125.4	1109.1
35.5°	1064.4	1080.2	1095.3	1110.3	1131.6	1137.6	1138.1	1134.1	1125.4	1111.8	1095.3
36°	1050.1	1066.4	1081.0	1096.0	1117.1	1123.3	1123.6	1119.8	1111.6	1098.0	1082.0
36.5°	1035.3	1051.6	1066.7	1081.2	1102.5	1107.8	1108.8	1104.8	1097.0	1083.5	1067.9
37°	1020.8	1036.8	1052.1	1066.4	1086.7	1092.7	1093.2	1089.7	1082.7	1069.2	1053.4
37.5°	1005.7	1021.5	1037.1	1051.4	1071.4	1076.7	1077.4	1074.4	1067.4	1054.9	1038.8
38°	989.9	1006.5	1021.8	1035.3	1055.6	1060.9	1061.9	1058.6	1051.9	1039.8	1024.8
38.5°	974.1	990.7	1006.0	1019.3	1039.3	1044.8	1045.8	1042.3	1036.6	1024.5	1009.0
39°	957.6	974.6	989.7	1003.2	1022.8	1027.8	1029.0	1026.0	1020.8	1009.0	993.2
39.5°	940.5	956.8	972.4	985.7	1005.5	1010.7	1012.0	1009.2	1004.2	992.4	976.4
40°	923.0	939.3	954.3	967.8	988.2	993.4	994.4	992.2	986.7	975.6	960.6
40.5°	903.9	920.7	936.0	949.5	969.6	975.1	976.9	974.4	969.1	958.1	942.3
41°	885.6	902.1	917.4	931.2	951.5	957.1	958.3	956.1	951.3	939.8	924.0
41.5°	867.5	883.6	898.9	912.9	933.5	938.8	940.5	937.8	932.7	920.9	905.4
42°	849.2	865.0	880.3	894.4	915.2	921.4	923.0	920.4	914.9	903.4	888.3
42.5°	829.2	845.5	861.0	875.3	896.9	902.9	904.9	902.6	896.9	885.3	869.5
43°	811.1	827.1	842.9	857.0	878.1	884.3	886.3	883.6	878.1	866.0	851.0
43.5°	794.3	810.1	825.9	839.9	860.5	866.8	868.5	865.3	858.7	846.7	831.7



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	749.6	765.2	780.2	793.5	812.6	818.6	820.4	816.9	809.8	797.6	783.3
45.5°	735.6	751.4	766.5	779.5	798.1	803.8	805.6	802.1	795.0	783.3	768.7
46°	722.6	738.4	752.9	766.0	784.0	789.5	791.3	787.8	781.0	769.2	754.9
46.5°	709.5	725.3	739.6	752.4	770.2	776.0	777.7	774.5	767.5	755.7	741.4
47°	696.7	712.3	726.8	739.4	756.7	762.4	764.2	760.9	753.9	742.6	728.6
47.5°	683.9	699.5	713.8	726.3	743.4	749.4	751.2	747.4	740.6	729.6	715.5
48°	670.9	686.4	700.2	713.3	730.1	736.4	737.9	734.4	727.8	716.8	702.7
48.5°	656.4	671.7	686.2	699.5	717.0	723.3	725.1	721.8	714.8	703.8	690.0
49°	640.6	654.8	669.6	684.2	702.7	709.5	711.8	708.3	700.7	689.2	675.9
49.5°	624.5	638.0	653.1	668.1	687.7	695.0	697.0	693.0	685.4	673.4	659.9
50°	606.2	619.2	634.3	650.6	672.2	680.2	682.2	677.9	669.6	657.6	644.1
50.5°	586.9	600.2	615.7	632.5	655.1	663.4	665.1	662.1	653.1	641.1	626.5
51°	567.1	580.9	595.4	613.0	636.8	644.3	647.1	644.1	635.5	622.7	608.4
51.5°	547.0	560.5	575.3	592.4	617.5	625.5	629.0	624.8	617.2	603.9	589.6
52°	526.4	539.7	554.3	570.8	596.4	605.9	609.5	605.4	597.4	584.4	570.3
52.5°	505.6	518.7	533.7	549.0	574.8	585.9	589.4	585.4	576.3	563.8	550.5
53°	484.3	497.3	511.4	526.2	552.5	565.1	569.6	564.3	554.0	542.2	530.4
53.5°	463.0	475.5	489.8	503.4	529.9	544.2	549.5	543.7	532.2	521.2	509.4
54°	441.4	453.7	467.0	480.0	507.1	522.2	528.4	521.2	509.9	499.1	488.1
54.5°	420.1	432.9	444.4	457.2	484.6	500.4	506.6	499.1	487.1	477.0	466.5
55°	398.8	410.8	421.3	434.1	461.7	479.0	485.6	477.5	465.0	455.0	445.4
55.5°	377.2	389.0	399.0	411.3	439.7	456.5	464.2	455.5	443.4	432.4	423.4
56°	356.1	366.9	376.5	388.0	416.8	433.9	441.7	432.4	421.1	409.6	401.5
56.5°	335.3	345.9	353.6	365.7	394.5	412.1	419.6	410.6	399.3	387.2	379.7
57°	314.8	324.0	331.1	343.3	372.2	389.0	397.3	388.7	377.5	365.4	358.4
57.5°	294.2	303.0	309.5	322.0	351.1	367.2	375.5	367.4	356.6	343.6	336.3
58°	274.1	281.9	288.4	300.5	329.8	344.9	352.9	345.6	335.3	321.8	315.3
58.5°	254.6	261.6	267.4	280.1	309.2	323.5	330.8	324.8	315.3	301.2	294.7
59°	235.3	241.0	246.8	259.8	288.4	302.0	308.7	303.5	294.4	280.9	273.9
59.5°	217.2	221.7	227.2	239.8	268.1	281.2	286.9	283.7	273.9	261.3	254.1
60°	198.6	201.9	207.9	220.7	248.0	260.3	265.9	262.6	254.1	243.0	235.3
60.5°	180.8	183.6	189.4	202.1	229.2	241.0	246.0	243.5	235.5	224.7	216.7
61°	163.8	165.5	171.0	183.3	210.7	221.7	226.2	224.7	216.9	206.4	198.1
61.5°	147.2	148.7	154.0	167.0	191.9	202.4	206.4	205.7	198.4	188.1	179.6
62°	130.9	131.9	137.9	150.0	173.1	183.1	186.6	186.6	179.8	169.8	161.0
62.5°	115.9	116.4	122.1	133.9	155.5	163.8	166.8	167.5	161.3	153.2	144.7
63°	101.1	101.3	107.6	118.9	138.7	146.2	149.0	150.0	142.2	137.4	128.9
63.5°	86.0	87.8	93.3	104.3	122.4	128.9	131.9	132.7	124.4	122.1	114.1
64°	73.5	76.7	82.3	90.3	107.1	113.1	115.9	116.6	107.1	107.3	100.1
64.5°	60.9	66.0	71.2	79.0	92.3	97.8	100.6	100.8	90.3	93.5	86.8
65°	48.4	55.4	60.2	67.7	78.8	83.3	86.3	86.3	74.2	80.0	74.5
65.5°	35.9	44.6	49.2	56.4	65.7	70.0	72.7	72.2	59.9	67.7	63.5
66°	26.3	33.9	38.1	45.1	53.7	57.4	60.2	59.2	46.6	55.9	52.4





TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	8.3	14.3	16.6	18.3	28.1	30.3	32.6	31.9	21.3	31.1	29.3
68°	6.5	9.8	11.5	12.3	20.8	22.6	24.3	24.1	12.8	23.8	22.8
68.5°	4.8	7.5	7.0	7.8	13.3	14.8	16.3	16.3	4.3	16.6	16.1
69°	3.0	5.5	5.5	6.0	6.0	7.3	8.3	8.5	2.0	9.5	9.5
69.5°	1.3	3.3	4.0	4.3	3.0	3.8	4.3	4.8	1.3	5.8	5.5
70°	1.0	1.3	2.5	2.5	1.5	1.8	2.0	2.3	1.0	3.0	3.0
70.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.5	1.5
71°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0
72°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.5
78°	0.5	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
86.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
87°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
87.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
88°	0.3	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
88.5°	0.3	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.3



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
0.5°	1668.8	1669.6	1668.8	1667.8	1668.1	1668.6
1°	1668.1	1668.3	1667.3	1666.3	1666.6	1667.3
1.5°	1666.8	1666.6	1665.3	1664.3	1664.6	1665.8
2°	1665.6	1664.8	1663.3	1662.3	1662.8	1663.8
2.5°	1663.8	1662.6	1661.1	1659.8	1660.3	1661.8
3°	1661.8	1660.3	1658.6	1657.3	1657.8	1659.6
3.5°	1659.8	1657.6	1655.8	1654.5	1655.0	1656.8
4°	1657.3	1654.8	1652.8	1651.5	1652.0	1653.8
4.5°	1654.5	1651.5	1649.5	1648.0	1648.8	1650.5
5°	1651.5	1648.3	1646.3	1644.8	1645.3	1647.3
5.5°	1648.3	1644.5	1642.5	1640.8	1641.3	1643.5
6°	1644.8	1640.8	1638.5	1637.0	1637.2	1639.2
6.5°	1640.8	1636.7	1634.5	1632.7	1632.7	1635.2
7°	1636.7	1632.2	1630.0	1628.2	1628.5	1630.7
7.5°	1632.5	1627.5	1625.2	1623.4	1623.7	1625.7
8°	1627.7	1622.7	1620.2	1618.4	1618.4	1620.7
8.5°	1622.7	1617.4	1615.2	1613.2	1613.2	1615.2
9°	1617.4	1611.9	1609.7	1607.9	1607.4	1609.7
9.5°	1611.9	1606.1	1603.9	1602.1	1601.6	1603.6
10°	1606.1	1600.1	1597.9	1596.1	1595.4	1597.4
10.5°	1600.1	1593.9	1591.6	1589.8	1589.1	1590.8
11°	1593.6	1587.3	1585.1	1583.3	1582.3	1584.1
11.5°	1587.1	1580.3	1578.3	1576.5	1575.5	1577.0
12°	1580.6	1573.5	1571.3	1569.5	1568.3	1570.0
12.5°	1573.3	1566.0	1564.0	1562.3	1561.0	1562.5
13°	1566.0	1558.5	1556.7	1555.0	1553.2	1554.7
13.5°	1558.2	1550.5	1549.0	1547.0	1545.4	1547.0
14°	1550.5	1542.4	1540.9	1538.9	1537.4	1538.9
14.5°	1542.7	1534.4	1532.9	1530.9	1529.1	1530.7
15°	1534.2	1525.9	1524.4	1522.4	1520.4	1522.1
15.5°	1525.6	1517.4	1515.6	1513.8	1511.8	1513.6
16°	1517.1	1508.3	1506.6	1504.8	1503.1	1504.6
16.5°	1508.3	1499.3	1497.8	1496.0	1493.8	1495.8
17°	1499.6	1490.3	1488.5	1486.8	1484.8	1486.3
17.5°	1490.5	1480.7	1479.0	1477.2	1475.0	1477.0
18°	1481.0	1471.2	1469.5	1467.7	1465.4	1467.4
18.5°	1471.5	1461.4	1459.4	1457.9	1455.7	1457.9
19°	1461.7	1451.6	1449.6	1447.9	1445.9	1448.1
19.5°	1452.1	1441.9	1439.6	1437.9	1435.8	1438.6
20°	1442.4	1431.6	1429.1	1427.3	1425.6	1428.3
20.5°	1432.3	1421.3	1418.8	1417.0	1415.3	1418.3
21°	1422.3	1410.5	1408.3	1406.3	1404.7	1408.0



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1391.2	1378.9	1375.7	1373.6	1372.9	1376.7
23°	1380.7	1367.9	1364.6	1361.9	1362.1	1366.4
23.5°	1370.1	1356.8	1353.3	1351.1	1351.1	1355.6
24°	1359.4	1345.8	1341.8	1339.3	1340.0	1344.8
24.5°	1348.3	1334.8	1330.5	1328.0	1328.5	1334.0
25°	1337.5	1323.7	1318.7	1316.0	1317.2	1323.0
25.5°	1326.5	1312.5	1307.2	1304.7	1306.2	1312.2
26°	1315.2	1300.9	1295.1	1292.1	1294.6	1300.9
26.5°	1303.9	1289.1	1283.6	1280.6	1283.1	1289.6
27°	1292.6	1277.6	1271.3	1268.3	1271.3	1278.6
27.5°	1281.4	1265.8	1259.3	1256.0	1259.3	1267.1
28°	1269.8	1253.8	1247.0	1243.7	1247.2	1255.5
28.5°	1258.0	1241.7	1234.7	1231.2	1235.2	1243.7
29°	1246.2	1229.7	1222.2	1218.4	1223.2	1231.9
29.5°	1234.5	1217.4	1209.6	1205.9	1210.6	1220.2
30°	1222.4	1205.1	1196.6	1193.3	1198.1	1208.4
30.5°	1210.1	1192.6	1183.8	1180.3	1185.5	1195.8
31°	1198.1	1179.8	1170.7	1167.0	1172.8	1183.3
31.5°	1185.3	1167.0	1157.7	1153.9	1159.7	1171.0
32°	1172.5	1154.2	1144.2	1140.7	1146.9	1158.5
32.5°	1160.0	1141.2	1130.9	1127.4	1133.6	1145.7
33°	1146.9	1127.6	1117.6	1114.1	1120.3	1132.6
33.5°	1133.9	1114.1	1104.0	1100.3	1107.0	1119.6
34°	1120.3	1100.5	1090.5	1086.5	1093.5	1106.0
34.5°	1106.8	1086.7	1076.2	1072.7	1079.7	1092.5
35°	1093.2	1072.7	1062.2	1058.6	1065.7	1078.7
35.5°	1079.5	1058.4	1048.4	1044.6	1051.6	1064.4
36°	1065.7	1043.8	1033.8	1030.3	1037.3	1050.1
36.5°	1051.1	1029.3	1019.5	1015.8	1023.0	1035.3
37°	1036.3	1014.2	1004.5	1001.2	1008.2	1020.8
37.5°	1021.5	998.9	989.4	986.4	993.2	1005.7
38°	1006.2	983.6	974.4	971.1	977.9	989.9
38.5°	990.7	967.6	958.6	955.6	962.1	974.1
39°	974.4	951.5	943.0	940.0	946.5	957.6
39.5°	958.3	934.7	926.2	923.7	929.2	940.5
40°	941.5	917.7	908.9	906.4	911.7	923.0
40.5°	923.7	899.9	891.1	888.6	893.4	903.9
41°	905.4	881.6	873.0	870.3	875.6	885.6
41.5°	887.1	863.3	854.7	852.5	857.0	867.5
42°	869.5	846.0	837.2	834.4	839.4	849.2
42.5°	851.5	827.9	818.9	815.4	820.1	829.2
43°	833.2	809.1	800.3	797.6	801.8	811.1
43.5°	814.4	790.8	782.3	779.5	784.3	794.3



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	766.0	744.4	736.4	734.1	739.1	749.6
45.5°	751.7	730.1	722.1	720.3	725.3	735.6
46°	738.1	716.8	709.0	707.0	712.3	722.6
46.5°	724.6	704.0	696.0	694.2	699.2	709.5
47°	712.3	691.5	683.2	681.4	686.4	696.7
47.5°	699.2	678.2	670.6	668.6	673.9	683.9
48°	686.7	666.1	658.1	656.1	661.1	670.9
48.5°	674.2	652.8	645.6	643.1	647.8	656.4
49°	660.4	639.5	631.8	629.0	633.0	640.6
49.5°	645.1	624.0	617.5	614.5	617.2	624.5
50°	629.3	608.9	601.9	598.9	600.4	606.2
50.5°	612.2	591.4	585.4	581.4	581.9	586.9
51°	593.7	573.3	566.8	562.6	562.8	567.1
51.5°	575.1	553.8	547.5	542.2	543.2	547.0
52°	556.3	534.2	526.9	521.4	521.9	526.4
52.5°	536.5	513.4	505.9	500.4	500.6	505.6
53°	516.4	492.8	484.6	478.5	479.0	484.3
53.5°	495.6	471.8	462.7	456.7	457.2	463.0
54°	475.0	450.9	441.2	434.9	435.4	441.4
54.5°	454.2	430.4	419.8	413.1	413.6	420.1
55°	433.9	409.6	398.0	391.0	392.0	398.8
55.5°	412.8	388.2	377.0	368.7	370.9	377.2
56°	391.5	367.7	355.6	347.1	349.9	356.1
56.5°	370.9	347.4	335.1	326.0	329.3	335.3
57°	349.6	327.3	314.0	305.0	308.5	314.8
57.5°	329.3	307.5	293.9	284.7	288.2	294.2
58°	309.0	287.9	274.4	265.1	268.4	274.1
58.5°	288.4	268.4	255.3	245.5	249.5	254.6
59°	268.4	249.5	236.8	227.0	230.0	235.3
59.5°	249.5	231.2	218.2	208.9	212.2	217.2
60°	231.0	213.2	200.4	191.4	194.6	198.6
60.5°	212.4	194.9	183.3	174.8	177.3	180.8
61°	193.9	177.8	166.5	159.0	160.3	163.8
61.5°	175.3	161.0	151.0	144.2	145.2	147.2
62°	158.0	144.5	135.7	129.2	129.9	130.9
62.5°	141.5	128.7	121.1	115.6	115.1	115.9
63°	125.4	113.6	107.3	102.3	101.1	101.1
63.5°	110.1	99.3	94.6	90.3	88.5	86.0
64°	95.6	85.5	83.8	80.3	78.3	73.5
64.5°	82.5	74.2	73.2	70.0	68.0	60.9
65°	69.7	63.0	62.7	59.9	57.4	48.4
65.5°	58.2	51.9	51.9	49.9	47.2	35.9
66°	47.7	40.6	41.4	39.9	36.6	26.3



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	26.1	18.3	19.3	19.1	15.8	8.3
68°	20.1	13.0	14.0	13.5	11.0	6.5
68.5°	14.0	9.0	9.3	9.0	9.0	4.8
69°	8.0	7.0	7.3	7.0	7.0	3.0
69.5°	4.8	5.0	5.3	5.0	5.0	1.3
70°	2.5	3.0	3.0	3.0	3.0	1.0
70.5°	1.3	1.0	1.0	1.0	1.0	1.0
71°	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	0.8	0.8	0.8	0.8	0.8
72°	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5
78°	0.5	0.5	0.5	0.5	0.5	0.5
78.5°	0.3	0.5	0.5	0.5	0.5	0.3
79°	0.3	0.3	0.5	0.5	0.5	0.3
79.5°	0.3	0.3	0.5	0.5	0.3	0.3
80°	0.3	0.3	0.5	0.5	0.3	0.3
80.5°	0.3	0.3	0.5	0.5	0.3	0.3
81°	0.3	0.3	0.5	0.5	0.3	0.3
81.5°	0.3	0.3	0.5	0.5	0.3	0.3
82°	0.3	0.3	0.5	0.5	0.3	0.3
82.5°	0.3	0.3	0.5	0.5	0.3	0.3
83°	0.3	0.3	0.5	0.5	0.3	0.3
83.5°	0.3	0.3	0.5	0.5	0.3	0.3
84°	0.3	0.3	0.5	0.5	0.3	0.3
84.5°	0.3	0.3	0.5	0.5	0.3	0.3
85°	0.3	0.3	0.5	0.5	0.5	0.3
85.5°	0.3	0.3	0.5	0.5	0.5	0.3
86°	0.3	0.3	0.5	0.5	0.5	0.3
86.5°	0.3	0.3	0.5	0.8	0.5	0.3
87°	0.3	0.3	0.8	0.8	0.8	0.3
87.5°	0.3	0.5	0.8	1.0	0.8	0.3
88°	0.3	0.5	1.0	1.3	1.0	0.3
88.5°	0.3	0.5	1.3	1.5	1.3	0.3



TEST NUMBER: P776032

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	1.0	1.8	1.3	1.8	0.3



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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°	1397.7	1409.5	1427.3	1445.4	1467.9	1476.2	1475.2	1467.4	1455.2	1441.4	1425.8
22°	1387.2	1399.2	1417.0	1435.6	1457.9	1466.4	1465.4	1457.4	1445.4	1431.3	1415.5



44°	778.5	794.5	809.8	823.9	844.0	850.2	851.7	848.2	841.2	828.9	814.6
44.5°	763.7	779.5	794.8	808.3	827.9	833.9	835.4	832.4	825.1	812.9	797.8



66.5°	19.1	26.1	29.8	33.9	42.9	45.9	48.7	47.4	38.1	45.4	42.9
67°	13.0	19.6	22.8	25.6	35.6	38.1	40.6	39.6	29.6	38.1	36.1



89°	0.3	0.5	0.8	0.5	0.0	0.0	0.0	0.3	0.0	0.3	0.3
89.5°	0.3	0.8	0.8	0.5	0.3	0.0	0.0	0.3	0.0	0.3	0.3



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21.5°	1412.3	1400.0	1397.5	1395.5	1394.5	1397.7
22°	1401.5	1389.4	1386.7	1384.2	1383.4	1387.2



44°	797.1	774.5	766.5	763.4	768.7	778.5
44.5°	781.0	759.2	750.9	748.6	753.7	763.7

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66.5°	38.4	31.9	33.4	32.1	28.8	19.1
67°	32.1	24.3	25.8	25.1	21.8	13.0



89°	0.3	0.8	1.3	1.8	1.3	0.3
89.5°	0.3	0.8	1.5	1.8	1.5	0.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)