

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: P776181

Luminaire Tested: HCDJBL51525CSD-HCD8TRH-2500lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TRH-2500lm-3000K  
Description: 8 INCH ROUND MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

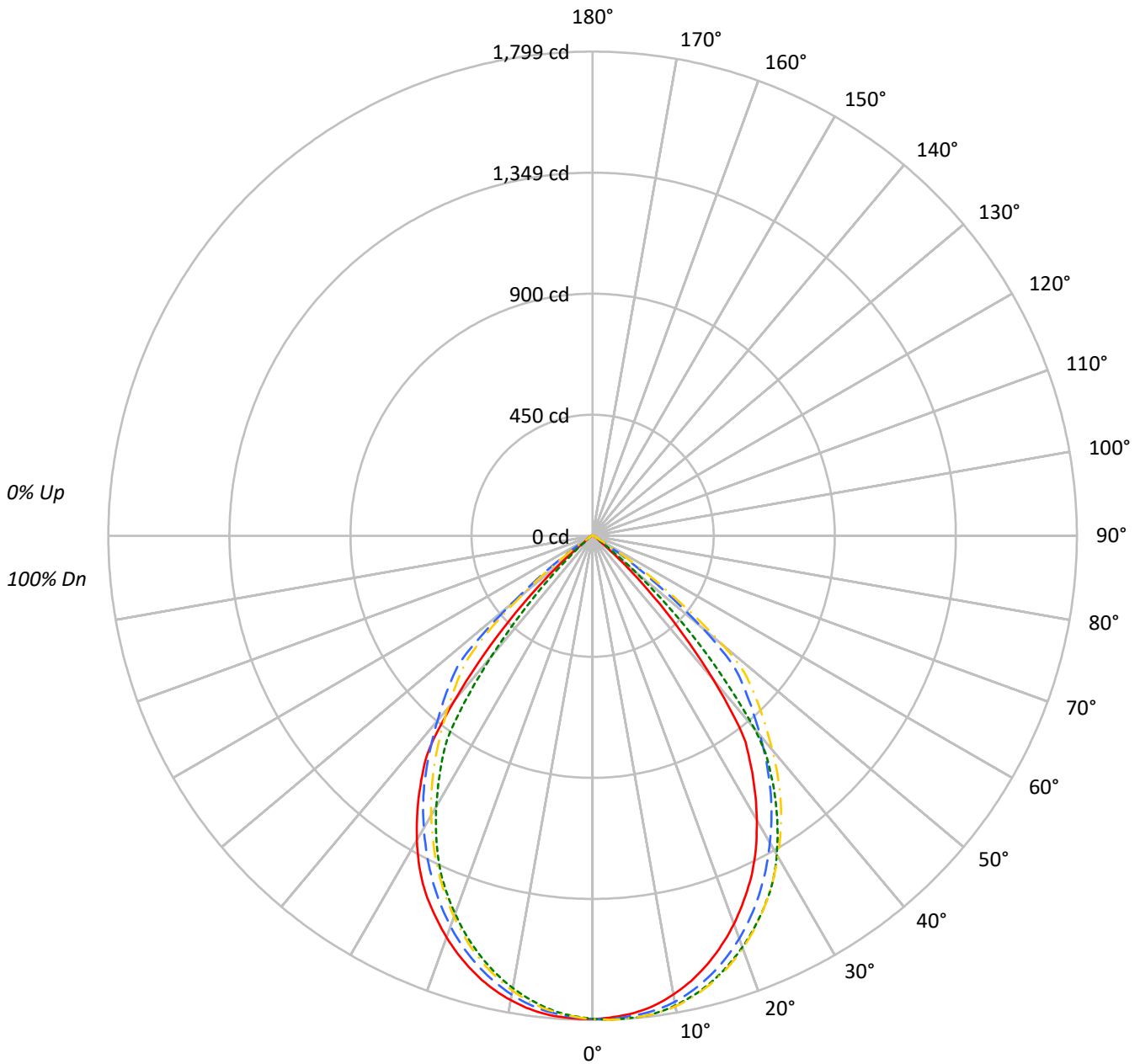
Lumens per Lamp: N/A  
Luminaire Lumens: 2488.1 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



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CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	100	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84	84	84	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63	63	63	63
6	83	72	66	61	81	72	65	60	70	64	60	68	63	60	67	63	59	57	57	57	57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53	53	53	53
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48
9	69	58	51	47	68	57	51	47	56	51	46	56	50	46	55	50	46	45	45	45	45
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41	41	41	41

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

	0°	90°	180°	270°
0°	54808	54808	54808	54808
5°	54533	55076	54803	54175
10°	53648	54931	54311	52904
15°	52089	54181	53242	51036
20°	49862	52854	51561	48536
25°	47006	51008	49394	45399
30°	43002	48244	46023	40940
35°	37915	44020	41359	35616
40°	27771	37188	31688	23207
45°	13989	22646	17495	10233
50°	4270	9395	5747	2931
55°	1576	1772	1576	1368
60°	1209	1325	1209	1038
65°	946	1019	925	802
70°	750	812	723	643
75°	613	672	578	495
80°	475	563	475	387
85°	350	525	350	245

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 37218 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.0	6.8
10°-20°	469.0	18.9
20°-30°	658.2	26.5
30°-40°	675.9	27.2
40°-50°	413.3	16.6
50°-60°	80.3	3.2
60°-70°	14.6	0.6
70°-80°	6.5	0.3
80°-90°	1.4	0.1
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°	1296.2	52.1
0°-40°	1972.1	79.3
0°-60°	2465.6	99.1
0°-90°	2488.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2488.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1795	1795	1795	1795	1795	
5°	1779	1797	1788	1768	1779	168
15°	1648	1714	1684	1615	1648	463
25°	1395	1514	1466	1348	1395	638
35°	1017	1181	1110	956	1017	622
45°	324	524	405	237	324	261
55°	30	33	30	26	30	32
65°	13	14	13	11	13	13
75°	5	6	5	4	5	6
85°	1	2	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P776181

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2
0.5°	1794.7	1794.4	1795.7	1796.6	1795.9	1796.6	1797.1	1797.1	1795.4	1794.2	1794.2
1°	1793.7	1794.2	1795.7	1797.4	1796.9	1797.6	1798.1	1797.6	1795.4	1793.4	1793.2
1.5°	1792.7	1793.7	1795.7	1797.9	1797.6	1798.6	1798.9	1797.9	1795.2	1792.7	1791.9
2°	1791.5	1792.9	1795.7	1798.1	1798.4	1799.1	1799.4	1797.9	1794.7	1791.7	1790.5
2.5°	1790.0	1791.9	1795.2	1798.1	1798.6	1799.6	1799.4	1797.9	1794.2	1790.5	1789.0
3°	1788.2	1790.7	1794.4	1797.6	1798.6	1799.6	1799.4	1797.6	1793.2	1789.2	1787.0
3.5°	1786.3	1789.2	1793.4	1796.9	1798.6	1799.6	1799.1	1796.9	1792.2	1787.5	1785.0
4°	1784.3	1787.8	1792.2	1796.1	1798.1	1799.1	1798.6	1796.4	1791.2	1786.0	1782.8
4.5°	1782.1	1786.0	1790.7	1795.2	1797.6	1798.6	1797.9	1795.7	1790.0	1784.3	1780.1
5°	1779.4	1784.0	1789.2	1794.2	1797.1	1797.9	1797.1	1794.4	1788.2	1782.1	1777.6
5.5°	1776.4	1781.6	1787.3	1792.9	1796.1	1797.1	1796.1	1792.9	1786.5	1779.8	1774.7
6°	1772.9	1778.9	1785.5	1791.5	1795.2	1796.1	1794.9	1791.5	1784.0	1777.1	1771.2
6.5°	1769.0	1775.4	1783.3	1789.7	1793.7	1794.9	1793.7	1789.2	1781.1	1773.9	1767.5
7°	1764.5	1771.9	1780.8	1787.5	1791.7	1793.2	1792.2	1786.8	1777.9	1770.5	1763.6
7.5°	1759.8	1767.7	1778.1	1784.8	1789.2	1791.2	1790.2	1783.6	1774.4	1766.3	1759.1
8°	1754.4	1763.3	1775.2	1781.8	1786.5	1788.7	1788.0	1780.6	1770.7	1762.3	1754.2
8.5°	1748.7	1758.1	1771.5	1778.6	1783.3	1785.8	1785.3	1777.1	1766.3	1757.6	1749.0
9°	1743.1	1753.2	1767.5	1774.9	1779.8	1782.8	1782.3	1773.2	1761.8	1752.4	1743.3
9.5°	1736.6	1747.5	1763.1	1771.0	1776.1	1779.1	1778.9	1769.0	1756.9	1747.3	1737.4
10°	1730.5	1742.1	1758.1	1766.8	1771.9	1775.4	1774.9	1764.5	1751.9	1741.8	1731.0
10.5°	1723.8	1735.9	1752.9	1762.1	1767.3	1771.5	1771.0	1760.1	1746.8	1735.9	1724.3
11°	1716.6	1729.7	1747.3	1757.1	1762.6	1766.8	1766.5	1755.2	1741.1	1730.0	1717.6
11.5°	1709.2	1723.1	1741.3	1751.7	1757.6	1761.8	1761.6	1750.0	1735.2	1723.3	1710.2
12°	1701.3	1716.4	1734.9	1746.3	1752.4	1756.9	1756.1	1744.5	1729.0	1716.6	1702.8
12.5°	1693.4	1709.2	1728.5	1740.3	1746.8	1751.7	1750.5	1738.9	1722.3	1709.5	1694.9
13°	1685.0	1701.8	1721.6	1734.4	1741.1	1746.3	1744.8	1732.7	1715.6	1702.1	1687.0
13.5°	1676.1	1694.2	1714.2	1728.0	1734.7	1740.3	1738.6	1726.5	1708.2	1694.4	1678.9
14°	1667.0	1686.0	1706.8	1721.3	1728.2	1734.2	1731.9	1719.8	1700.8	1686.5	1670.0
14.5°	1657.4	1677.1	1698.9	1714.2	1721.3	1727.5	1725.3	1712.7	1692.7	1677.9	1661.3
15°	1648.0	1668.5	1690.7	1706.5	1714.2	1720.6	1718.1	1705.5	1684.5	1669.2	1652.2
15.5°	1637.6	1659.3	1682.3	1698.6	1706.8	1713.2	1710.7	1697.9	1676.1	1660.3	1642.8
16°	1627.2	1649.7	1673.7	1690.7	1699.1	1705.8	1703.1	1689.7	1667.3	1651.0	1632.9
16.5°	1616.9	1640.1	1664.5	1682.6	1691.0	1698.1	1695.4	1681.1	1658.1	1641.3	1622.8
17°	1606.0	1630.2	1655.2	1673.9	1682.6	1690.0	1687.0	1672.9	1649.0	1631.2	1612.2
17.5°	1594.7	1619.8	1645.3	1664.5	1673.9	1681.3	1678.4	1663.8	1639.1	1621.1	1601.6
18°	1583.3	1609.0	1635.4	1655.2	1665.0	1672.7	1669.7	1654.4	1629.2	1610.7	1590.7
18.5°	1571.4	1597.9	1625.0	1645.5	1655.6	1663.5	1660.3	1645.0	1618.9	1599.8	1579.1
19°	1559.3	1586.8	1614.4	1635.6	1646.3	1653.9	1650.7	1635.1	1608.5	1589.0	1567.7
19.5°	1547.2	1575.1	1603.5	1625.3	1636.6	1644.3	1641.1	1625.0	1597.9	1577.6	1555.9
20°	1534.7	1563.3	1592.4	1615.1	1626.8	1634.2	1631.0	1614.7	1587.0	1566.3	1543.8
20.5°	1521.6	1550.7	1581.1	1604.3	1616.6	1624.3	1620.6	1603.8	1575.6	1554.2	1531.4
21°	1508.2	1538.1	1569.5	1593.4	1606.0	1613.7	1610.0	1592.9	1564.5	1542.3	1518.8



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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°	1467.2	1498.8	1532.7	1559.1	1573.7	1581.1	1576.4	1559.1	1528.5	1505.0	1479.3
23°	1453.2	1484.8	1520.1	1547.2	1562.1	1569.5	1564.8	1547.2	1516.4	1492.2	1465.8
23.5°	1439.1	1471.2	1507.2	1535.1	1550.2	1558.1	1552.7	1534.9	1504.3	1478.8	1451.9
24°	1424.8	1456.9	1493.7	1522.8	1538.6	1546.0	1540.3	1522.6	1491.9	1465.5	1438.1
24.5°	1410.2	1442.8	1480.1	1510.2	1526.5	1533.7	1527.7	1510.2	1479.3	1451.9	1423.8
25°	1395.4	1428.2	1466.3	1497.1	1514.2	1521.1	1515.4	1497.4	1466.3	1438.1	1409.0
25.5°	1379.6	1413.7	1452.4	1484.3	1502.1	1508.7	1502.3	1484.5	1452.7	1424.3	1394.4
26°	1363.3	1399.1	1438.3	1470.9	1489.7	1495.9	1489.2	1471.7	1438.3	1410.4	1379.6
26.5°	1346.7	1384.3	1423.8	1457.9	1476.6	1482.5	1475.6	1458.6	1423.3	1395.9	1364.5
27°	1329.7	1368.7	1409.2	1444.3	1462.8	1469.2	1462.3	1445.0	1407.7	1381.1	1349.2
27.5°	1312.2	1352.4	1394.1	1430.2	1448.5	1456.1	1448.5	1430.9	1391.7	1365.8	1333.4
28°	1294.4	1335.6	1379.1	1415.9	1433.4	1442.5	1434.4	1415.9	1375.4	1349.2	1317.8
28.5°	1276.4	1318.8	1364.0	1401.6	1417.9	1428.2	1420.1	1400.6	1358.6	1332.9	1302.3
29°	1257.4	1301.3	1348.2	1386.5	1402.1	1413.4	1406.0	1385.0	1341.6	1316.4	1286.5
29.5°	1238.8	1284.3	1332.9	1370.9	1385.5	1398.1	1391.2	1369.0	1323.5	1299.3	1270.4
30°	1219.8	1266.2	1317.1	1354.4	1368.5	1382.5	1376.4	1351.9	1305.5	1281.8	1253.9
30.5°	1200.3	1248.2	1301.6	1337.8	1350.9	1366.0	1361.3	1334.9	1287.2	1264.0	1237.8
31°	1180.8	1229.4	1285.3	1320.8	1333.2	1349.9	1346.5	1317.6	1268.7	1246.0	1221.5
31.5°	1161.1	1211.4	1269.5	1303.5	1314.9	1332.7	1330.9	1300.1	1249.9	1227.7	1205.0
32°	1141.5	1192.2	1252.9	1285.7	1296.6	1315.4	1315.6	1282.3	1230.7	1209.4	1188.2
32.5°	1121.5	1173.9	1236.6	1267.2	1278.1	1297.6	1300.1	1264.0	1211.7	1191.4	1171.4
33°	1101.0	1154.9	1220.1	1249.2	1259.1	1280.1	1284.5	1245.3	1191.9	1172.4	1154.1
33.5°	1080.6	1135.6	1203.5	1229.9	1239.6	1261.5	1268.7	1226.5	1171.9	1153.9	1136.4
34°	1060.1	1116.1	1185.5	1211.9	1220.6	1243.3	1252.7	1207.7	1151.7	1135.4	1118.6
34.5°	1038.8	1097.1	1168.7	1192.7	1200.8	1225.0	1236.4	1188.7	1130.4	1116.4	1099.8
35°	1017.3	1077.1	1150.9	1173.6	1181.1	1206.5	1219.8	1169.4	1109.7	1096.8	1081.5
35.5°	997.1	1057.3	1133.6	1154.1	1160.3	1187.5	1202.8	1149.9	1088.9	1077.6	1062.8
36°	975.4	1037.6	1115.4	1135.9	1139.8	1169.0	1185.2	1130.2	1068.5	1058.1	1044.3
36.5°	956.3	1017.3	1097.3	1116.4	1119.1	1149.9	1167.5	1110.2	1046.7	1038.3	1025.7
37°	925.2	997.1	1078.8	1096.8	1097.8	1129.9	1149.4	1090.2	1023.0	1018.3	1006.5
37.5°	893.9	976.8	1060.8	1076.8	1076.8	1110.7	1131.2	1069.4	993.4	998.6	987.7
38°	852.9	956.6	1042.0	1057.1	1054.4	1090.7	1112.9	1049.2	959.8	978.6	969.2
38.5°	815.1	936.6	1023.8	1036.6	1031.7	1070.7	1094.4	1029.2	921.8	958.3	951.2
39°	776.8	916.1	1004.7	1017.3	1001.8	1050.9	1075.6	1008.4	880.8	935.6	932.4
39.5°	738.1	884.0	986.5	996.8	970.4	1030.4	1056.8	988.4	837.3	908.0	914.1
40°	696.8	847.9	968.0	976.8	933.1	1010.4	1038.1	959.3	795.1	876.3	896.3
40.5°	656.3	810.2	949.7	956.8	891.7	990.2	1019.6	929.2	754.6	840.3	879.3
41°	615.1	773.1	931.4	929.7	849.4	962.0	1000.5	894.6	713.9	802.5	862.3
41.5°	574.8	736.3	913.6	903.8	807.0	935.6	982.8	856.8	674.9	763.5	845.7
42°	536.6	698.8	896.1	871.2	765.0	901.5	964.5	818.1	633.9	724.2	828.7
42.5°	500.8	659.5	878.8	836.3	724.0	865.2	947.0	776.8	594.6	686.7	812.4
43°	465.0	620.0	861.8	799.1	684.5	826.2	929.9	738.8	553.6	649.7	795.4
43.5°	428.4	581.0	844.2	760.0	644.5	786.0	912.6	700.5	514.8	613.1	778.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	324.0	472.1	793.9	646.2	524.5	669.2	862.0	587.4	405.2	502.5	728.9
45.5°	292.4	436.8	777.1	610.4	486.4	631.4	845.0	549.2	370.1	466.7	712.1
46°	262.2	402.2	760.0	574.4	449.9	593.9	827.5	511.9	336.3	431.6	696.1
46.5°	232.1	368.2	743.5	537.8	413.8	555.6	810.9	475.3	303.2	398.8	669.4
47°	204.2	334.1	723.5	501.0	378.5	516.8	793.6	439.5	271.4	365.2	637.8
47.5°	178.5	302.7	698.1	465.2	343.7	480.3	775.8	405.2	244.2	333.4	600.8
48°	155.1	272.4	668.2	430.6	310.9	444.7	758.1	371.9	217.3	301.7	559.8
48.5°	134.8	243.2	635.6	397.3	279.0	409.9	733.6	338.8	190.4	272.1	519.0
49°	117.3	215.3	604.5	365.2	251.9	375.6	702.3	306.2	163.5	245.2	477.3
49.5°	102.5	188.9	567.9	333.1	225.0	342.2	669.7	275.3	141.0	218.3	436.8
50°	89.9	164.0	532.4	301.5	197.8	309.2	631.1	248.9	121.0	191.1	397.1
50.5°	80.0	141.2	492.9	270.9	170.9	278.5	589.9	222.5	102.7	164.5	360.0
51°	69.9	122.0	451.6	241.7	144.2	251.4	547.2	196.3	86.7	142.5	323.5
51.5°	60.0	105.4	411.6	214.1	123.7	224.2	504.2	169.9	72.6	122.2	289.9
52°	50.1	91.6	372.9	188.7	104.2	197.0	462.5	143.7	59.3	103.5	261.7
52.5°	40.2	81.2	335.1	164.2	86.7	169.9	422.5	122.7	47.4	86.4	233.8
53°	35.1	71.1	301.0	141.5	71.6	143.0	384.5	103.7	38.0	71.6	205.9
53.5°	33.3	60.7	267.7	120.3	58.3	121.5	347.2	87.2	33.8	58.5	177.8
54°	32.1	50.6	236.6	101.5	45.7	101.7	312.1	72.3	32.3	46.7	149.9
54.5°	30.9	40.5	206.9	83.7	36.5	84.9	278.0	59.3	31.1	36.1	128.2
55°	29.6	33.1	180.8	70.9	33.3	69.4	248.4	47.2	29.6	28.9	109.4
55.5°	28.4	29.9	155.6	58.3	32.1	55.6	219.3	36.3	28.4	27.7	92.6
56°	27.2	28.6	133.1	45.4	30.6	43.2	189.9	29.4	27.4	26.7	78.0
56.5°	26.2	27.4	113.1	32.8	29.1	33.1	160.5	28.1	26.2	25.7	65.2
57°	25.2	26.4	95.3	28.1	27.9	28.4	137.3	26.9	25.2	24.7	54.6
57.5°	24.2	25.4	81.0	27.2	26.9	27.2	116.1	25.9	24.2	23.7	45.9
58°	23.2	24.4	70.6	26.2	25.7	26.2	96.8	24.9	23.2	23.0	39.0
58.5°	22.2	23.7	60.3	25.2	24.7	25.2	80.0	24.2	22.2	22.0	33.6
59°	21.2	22.7	49.9	24.2	23.7	24.2	65.2	23.2	21.2	21.2	29.1
59.5°	20.5	22.0	39.5	23.5	22.7	23.2	52.8	22.5	20.5	20.5	25.9
60°	19.8	21.2	34.3	22.5	21.7	22.5	43.5	21.7	19.8	19.8	23.5
60.5°	19.0	20.5	29.9	21.7	20.7	21.7	36.3	20.7	18.8	19.3	21.2
61°	18.3	19.8	26.4	21.0	20.0	20.7	30.9	20.2	18.0	18.5	20.0
61.5°	17.5	19.0	23.5	20.2	19.3	20.0	26.9	19.5	17.3	17.8	19.3
62°	16.8	18.3	21.5	19.5	18.5	19.5	24.0	18.8	16.5	17.3	18.5
62.5°	16.1	17.8	20.0	18.8	17.8	18.8	21.7	18.0	15.8	16.5	17.8
63°	15.3	17.0	19.3	18.3	16.8	18.0	20.0	17.5	15.1	16.1	17.0
63.5°	14.8	16.5	18.8	17.5	16.1	17.3	19.3	16.8	14.6	15.3	16.5
64°	14.1	15.8	18.0	16.8	15.6	16.8	18.5	16.3	13.8	14.8	15.8
64.5°	13.6	15.3	17.5	16.3	14.8	16.1	17.8	15.6	13.3	14.3	15.3
65°	13.1	14.8	16.8	15.8	14.1	15.6	17.0	15.1	12.8	13.8	14.8
65.5°	12.6	14.3	16.3	15.1	13.6	15.1	16.3	14.6	12.1	13.3	14.3
66°	11.9	13.6	15.6	14.6	13.1	14.3	15.8	13.8	11.6	12.8	13.8





TEST NUMBER: P776181

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.6	12.1	14.1	13.1	11.4	12.8	14.3	12.3	10.1	11.4	12.3
68°	10.1	11.6	13.6	12.6	10.9	12.3	13.6	11.9	9.9	10.9	11.9
68.5°	9.6	11.4	13.1	12.1	10.4	11.9	13.1	11.4	9.4	10.4	11.4
69°	9.1	10.9	12.6	11.6	9.9	11.4	12.6	11.1	8.9	10.1	10.9
69.5°	8.9	10.4	12.1	11.1	9.6	11.1	12.1	10.6	8.6	9.6	10.4
70°	8.4	9.9	11.6	10.6	9.1	10.6	11.6	10.1	8.1	9.1	9.9
70.5°	8.1	9.6	11.1	10.4	8.6	10.1	11.4	9.6	7.9	8.9	9.6
71°	7.7	9.1	10.6	9.9	8.4	9.9	10.9	9.4	7.4	8.4	9.1
71.5°	7.4	8.9	10.1	9.4	7.9	9.4	10.4	8.9	7.2	8.1	8.6
72°	6.9	8.4	9.9	9.1	7.7	8.9	9.9	8.6	6.7	7.7	8.4
72.5°	6.7	8.1	9.4	8.6	7.2	8.6	9.4	8.1	6.4	7.4	7.9
73°	6.4	7.7	8.9	8.4	6.9	8.1	9.1	7.9	6.2	7.2	7.7
73.5°	5.9	7.4	8.6	7.9	6.7	7.9	8.6	7.4	5.9	6.7	7.2
74°	5.7	6.9	8.1	7.7	6.4	7.7	8.4	7.2	5.4	6.4	6.9
74.5°	5.4	6.7	7.7	7.2	5.9	7.2	7.9	6.9	5.2	6.2	6.4
75°	5.2	6.4	7.4	6.9	5.7	6.9	7.7	6.4	4.9	5.7	6.2
75.5°	4.9	5.9	6.9	6.7	5.4	6.7	7.2	6.2	4.7	5.4	5.9
76°	4.7	5.7	6.7	6.4	5.2	6.4	6.9	5.9	4.4	5.2	5.4
76.5°	4.4	5.4	6.4	5.9	4.9	5.9	6.4	5.4	4.2	4.9	5.2
77°	4.2	5.2	5.9	5.7	4.7	5.7	6.2	5.2	4.0	4.7	4.9
77.5°	4.0	4.9	5.7	5.4	4.4	5.4	5.9	4.9	3.7	4.4	4.7
78°	3.7	4.7	5.4	5.2	4.2	5.2	5.4	4.7	3.5	4.2	4.2
78.5°	3.5	4.2	4.9	4.9	4.0	4.9	5.2	4.4	3.2	3.7	4.0
79°	3.2	4.0	4.7	4.4	3.7	4.7	4.9	4.2	3.2	3.5	3.7
79.5°	3.0	3.7	4.4	4.2	3.5	4.4	4.7	4.0	3.0	3.2	3.5
80°	2.7	3.5	4.2	4.0	3.2	4.0	4.2	3.7	2.7	3.0	3.2
80.5°	2.5	3.2	4.0	3.7	3.2	3.7	4.0	3.2	2.5	2.7	3.0
81°	2.2	3.0	3.7	3.5	3.0	3.5	3.7	3.0	2.2	2.5	2.7
81.5°	2.2	2.7	3.2	3.2	2.7	3.5	3.5	3.0	2.2	2.5	2.5
82°	2.0	2.5	3.0	3.0	2.5	3.2	3.2	2.7	2.0	2.2	2.2
82.5°	1.7	2.2	2.7	2.7	2.2	3.0	3.0	2.5	1.7	2.0	2.0
83°	1.5	2.0	2.5	2.5	2.2	2.7	2.7	2.2	1.5	1.7	1.7
83.5°	1.5	1.7	2.2	2.2	2.0	2.5	2.5	2.0	1.5	1.5	1.5
84°	1.2	1.7	2.0	2.2	1.7	2.2	2.2	1.7	1.2	1.2	1.2
84.5°	1.0	1.5	1.7	2.0	1.7	2.0	2.0	1.5	1.0	1.0	1.2
85°	1.0	1.2	1.5	1.7	1.5	1.7	1.7	1.2	1.0	1.0	1.0
85.5°	0.7	1.0	1.5	1.5	1.5	1.7	1.5	1.0	0.7	0.7	0.7
86°	0.5	0.7	1.2	1.2	1.2	1.5	1.2	1.0	0.7	0.5	0.5
86.5°	0.5	0.5	1.0	1.2	1.0	1.2	1.2	0.7	0.5	0.5	0.5
87°	0.2	0.5	0.7	1.0	1.0	1.0	1.0	0.5	0.5	0.2	0.2
87.5°	0.2	0.2	0.7	0.7	0.7	1.0	0.7	0.5	0.2	0.2	0.2
88°	0.2	0.2	0.5	0.7	0.7	0.7	0.7	0.2	0.2	0.0	0.0
88.5°	0.0	0.2	0.2	0.5	0.5	0.5	0.5	0.2	0.2	0.0	0.0



TEST NUMBER: P776181  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0



TEST NUMBER: P776181

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2
0.5°	1794.7	1792.9	1793.7	1794.7	1795.2	1794.7
1°	1793.2	1791.2	1791.9	1792.9	1793.9	1793.7
1.5°	1791.5	1789.2	1790.0	1791.2	1792.2	1792.7
2°	1789.7	1787.3	1787.8	1789.2	1790.5	1791.5
2.5°	1787.8	1785.0	1785.5	1787.0	1788.5	1790.0
3°	1785.8	1782.3	1783.1	1784.3	1786.5	1788.2
3.5°	1783.1	1779.4	1779.8	1781.8	1784.0	1786.3
4°	1780.3	1775.9	1776.6	1778.9	1781.8	1784.3
4.5°	1777.1	1771.9	1772.7	1775.4	1779.1	1782.1
5°	1773.4	1767.7	1768.5	1771.9	1775.9	1779.4
5.5°	1769.5	1762.8	1763.8	1768.2	1772.7	1776.4
6°	1765.0	1758.1	1759.1	1764.0	1769.0	1772.9
6.5°	1760.3	1752.4	1753.7	1759.4	1765.0	1769.0
7°	1755.4	1746.8	1748.0	1754.4	1760.3	1764.5
7.5°	1749.7	1740.6	1741.8	1749.0	1755.4	1759.8
8°	1744.0	1734.4	1735.6	1743.3	1750.0	1754.4
8.5°	1738.1	1727.7	1729.2	1737.1	1743.8	1748.7
9°	1731.9	1720.8	1722.6	1730.5	1737.6	1743.1
9.5°	1725.5	1713.7	1715.4	1723.5	1731.0	1736.6
10°	1719.1	1706.5	1708.2	1716.1	1724.3	1730.5
10.5°	1711.9	1698.6	1700.6	1708.5	1717.1	1723.8
11°	1704.8	1690.5	1692.7	1700.3	1709.7	1716.6
11.5°	1697.4	1682.3	1684.5	1692.2	1701.8	1709.2
12°	1689.5	1673.4	1675.9	1683.5	1693.7	1701.3
12.5°	1681.1	1664.3	1667.0	1674.4	1685.0	1693.4
13°	1672.7	1654.9	1657.9	1665.3	1676.4	1685.0
13.5°	1663.5	1645.0	1648.2	1656.1	1667.3	1676.1
14°	1654.4	1635.1	1638.1	1646.3	1657.9	1667.0
14.5°	1645.0	1625.3	1628.0	1636.1	1647.7	1657.4
15°	1635.1	1614.7	1617.4	1626.0	1637.9	1648.0
15.5°	1625.3	1603.5	1606.8	1615.1	1627.2	1637.6
16°	1614.9	1592.7	1595.6	1604.3	1616.4	1627.2
16.5°	1604.3	1581.6	1584.5	1593.2	1605.5	1616.9
17°	1593.2	1570.0	1572.7	1581.3	1594.4	1606.0
17.5°	1582.1	1558.1	1560.8	1569.5	1582.6	1594.7
18°	1570.5	1545.5	1548.5	1557.1	1570.9	1583.3
18.5°	1558.6	1533.2	1536.1	1544.8	1558.6	1571.4
19°	1546.8	1520.3	1523.3	1532.2	1546.3	1559.3
19.5°	1534.2	1507.2	1510.0	1519.3	1533.7	1547.2
20°	1521.8	1493.9	1496.9	1506.0	1520.8	1534.7
20.5°	1508.7	1480.6	1483.0	1492.7	1507.7	1521.6
21°	1495.4	1467.0	1469.2	1479.1	1493.9	1508.2



TEST NUMBER: P776181

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1454.6	1425.3	1426.5	1436.6	1452.2	1467.2
23°	1440.8	1410.7	1411.7	1422.3	1437.4	1453.2
23.5°	1426.7	1396.1	1397.6	1407.7	1422.8	1439.1
24°	1412.7	1380.6	1382.3	1392.7	1408.2	1424.8
24.5°	1397.9	1364.8	1367.5	1377.4	1393.2	1410.2
25°	1383.3	1347.7	1351.9	1361.8	1378.1	1395.4
25.5°	1368.2	1330.7	1336.1	1346.5	1362.5	1379.6
26°	1352.9	1313.2	1319.3	1330.9	1347.2	1363.3
26.5°	1336.1	1295.4	1302.8	1315.1	1331.7	1346.7
27°	1319.3	1276.9	1285.3	1298.6	1315.6	1329.7
27.5°	1302.3	1258.3	1267.5	1282.3	1299.1	1312.2
28°	1284.5	1239.1	1249.0	1266.0	1281.8	1294.4
28.5°	1266.5	1219.8	1230.9	1249.0	1264.3	1276.4
29°	1248.2	1200.1	1212.4	1232.9	1246.7	1257.4
29.5°	1230.2	1181.1	1193.6	1216.4	1229.0	1238.8
30°	1211.2	1161.3	1174.4	1199.3	1209.9	1219.8
30.5°	1192.2	1141.0	1155.4	1182.0	1191.7	1200.3
31°	1172.9	1120.6	1135.9	1165.5	1172.9	1180.8
31.5°	1153.4	1100.8	1116.4	1148.0	1154.1	1161.1
32°	1134.1	1080.3	1096.6	1130.4	1134.6	1141.5
32.5°	1115.1	1059.6	1077.3	1112.2	1116.1	1121.5
33°	1095.4	1038.8	1057.6	1094.9	1097.1	1101.0
33.5°	1075.4	1017.3	1037.8	1076.8	1077.6	1080.6
34°	1055.4	996.8	1017.6	1058.6	1058.3	1060.1
34.5°	1035.4	975.6	997.1	1039.8	1039.1	1038.8
35°	1015.4	955.6	977.1	1021.0	1019.6	1017.3
35.5°	995.6	931.7	956.8	1002.5	1000.5	997.1
36°	975.1	899.8	936.3	983.8	980.5	975.4
36.5°	955.1	861.8	916.3	965.0	960.8	956.3
37°	935.1	822.5	897.1	946.0	941.0	925.2
37.5°	915.1	784.2	875.8	927.2	921.3	893.9
38°	896.8	744.0	845.2	908.7	901.5	852.9
38.5°	866.0	704.2	809.4	890.4	881.0	815.1
39°	832.1	663.0	772.9	872.6	863.5	776.8
39.5°	795.4	621.8	736.8	854.4	832.6	738.1
40°	758.6	582.3	700.5	836.6	801.0	696.8
40.5°	722.0	543.2	663.5	819.3	764.5	656.3
41°	684.0	506.2	624.7	802.3	728.7	615.1
41.5°	645.7	470.1	586.2	785.2	694.4	574.8
42°	606.2	434.1	548.9	768.2	659.8	536.6
42.5°	568.4	397.8	513.6	751.9	623.7	500.8
43°	531.4	363.0	479.0	735.3	586.5	465.0
43.5°	496.1	329.6	444.7	719.1	549.2	428.4



TEST NUMBER: P776181

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	392.6	237.0	344.7	669.7	446.2	324.0
45.5°	359.0	209.1	312.9	645.0	412.9	292.4
46°	325.7	182.2	283.5	618.6	380.0	262.2
46.5°	294.8	158.8	253.8	587.7	347.7	232.1
47°	265.4	137.5	225.7	559.5	316.1	204.2
47.5°	238.5	119.3	198.3	525.2	285.9	178.5
48°	211.9	104.0	173.3	490.4	256.8	155.1
48.5°	184.9	91.4	150.6	450.1	228.9	134.8
49°	158.3	81.5	130.1	412.9	202.2	117.3
49.5°	136.3	71.6	112.1	375.8	176.8	102.5
50°	117.5	61.7	97.5	341.7	153.3	89.9
50.5°	101.0	51.9	84.4	308.7	131.9	80.0
51°	87.7	42.0	74.8	278.5	113.6	69.9
51.5°	76.3	35.3	65.2	248.7	98.3	60.0
52°	66.4	33.1	55.6	221.7	84.7	50.1
52.5°	57.0	31.6	45.9	195.3	74.8	40.2
53°	47.7	30.4	37.3	171.4	64.7	35.1
53.5°	38.8	29.1	30.6	148.9	54.8	33.3
54°	31.9	27.9	28.4	129.4	44.7	32.1
54.5°	28.4	26.7	27.4	111.1	36.1	30.9
55°	27.4	25.7	26.4	95.3	29.9	29.6
55.5°	26.4	24.7	25.4	84.2	28.1	28.4
56°	25.4	23.7	24.4	73.3	27.2	27.2
56.5°	24.4	22.7	23.5	62.5	26.2	26.2
57°	23.7	21.7	22.7	51.4	25.2	25.2
57.5°	22.7	20.7	21.7	40.7	24.2	24.2
58°	22.0	20.0	21.0	35.1	23.5	23.2
58.5°	21.2	19.3	20.2	30.4	22.7	22.2
59°	20.5	18.5	19.5	26.7	22.0	21.2
59.5°	19.8	17.8	18.8	23.7	21.2	20.5
60°	19.0	17.0	18.3	21.5	20.5	19.8
60.5°	18.5	16.3	17.5	20.2	19.8	19.0
61°	17.8	15.6	17.0	19.5	19.0	18.3
61.5°	17.0	15.1	16.3	18.8	18.3	17.5
62°	16.5	14.3	15.8	18.0	17.8	16.8
62.5°	15.8	13.8	15.1	17.5	17.0	16.1
63°	15.3	13.1	14.6	16.8	16.5	15.3
63.5°	14.8	12.6	14.1	16.3	15.8	14.8
64°	14.1	12.1	13.6	15.8	15.3	14.1
64.5°	13.6	11.6	13.1	15.1	14.8	13.6
65°	13.1	11.1	12.6	14.6	14.3	13.1
65.5°	12.6	10.6	12.1	14.1	13.6	12.6
66°	12.1	10.1	11.6	13.6	13.1	11.9



TEST NUMBER: P776181

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	10.9	8.9	10.4	12.1	11.6	10.6
68°	10.4	8.4	9.9	11.6	11.1	10.1
68.5°	9.9	8.1	9.6	11.1	10.9	9.6
69°	9.6	7.7	9.1	10.6	10.4	9.1
69.5°	9.1	7.4	8.9	10.4	9.9	8.9
70°	8.9	7.2	8.4	9.9	9.4	8.4
70.5°	8.4	6.7	8.1	9.4	9.1	8.1
71°	8.1	6.4	7.7	9.1	8.6	7.7
71.5°	7.7	6.2	7.4	8.6	8.4	7.4
72°	7.4	5.9	7.2	8.1	7.9	6.9
72.5°	7.2	5.4	6.7	7.9	7.7	6.7
73°	6.7	5.2	6.4	7.4	7.2	6.4
73.5°	6.4	4.9	6.2	7.2	6.9	5.9
74°	6.2	4.7	5.9	6.7	6.4	5.7
74.5°	5.7	4.4	5.4	6.4	6.2	5.4
75°	5.4	4.2	5.2	6.2	5.9	5.2
75.5°	5.2	4.0	4.9	5.7	5.7	4.9
76°	4.9	3.7	4.7	5.4	5.2	4.7
76.5°	4.7	3.7	4.4	5.2	4.9	4.4
77°	4.4	3.5	4.2	4.7	4.7	4.2
77.5°	4.2	3.2	4.0	4.4	4.4	4.0
78°	4.0	3.0	3.7	4.2	4.2	3.7
78.5°	3.7	2.7	3.5	4.0	3.7	3.5
79°	3.5	2.5	3.2	3.7	3.5	3.2
79.5°	3.2	2.5	3.0	3.5	3.2	3.0
80°	3.0	2.2	2.7	3.0	3.0	2.7
80.5°	2.7	2.0	2.5	2.7	2.7	2.5
81°	2.5	2.0	2.2	2.5	2.5	2.2
81.5°	2.2	1.7	2.0	2.2	2.2	2.2
82°	2.0	1.5	2.0	2.0	2.0	2.0
82.5°	1.7	1.5	1.7	2.0	1.7	1.7
83°	1.5	1.2	1.5	1.7	1.5	1.5
83.5°	1.5	1.0	1.2	1.5	1.2	1.5
84°	1.2	1.0	1.0	1.2	1.0	1.2
84.5°	1.0	0.7	1.0	1.0	1.0	1.0
85°	0.7	0.7	0.7	1.0	0.7	1.0
85.5°	0.7	0.5	0.5	0.7	0.5	0.7
86°	0.5	0.2	0.5	0.5	0.5	0.5
86.5°	0.2	0.2	0.2	0.5	0.2	0.5
87°	0.2	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.2	0.2
88°	0.0	0.0	0.0	0.0	0.0	0.2
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776181  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

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Scaled Data Report



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Scaled Data Report





21.5°	1494.6	1525.3	1557.4	1582.3	1595.4	1603.0	1598.9	1581.8	1552.7	1530.0	1506.0
22°	1481.1	1512.2	1545.0	1570.9	1584.5	1592.2	1588.0	1570.5	1540.8	1517.9	1492.9



44°	391.6	543.2	827.2	721.5	604.7	746.2	895.6	663.0	476.6	576.1	761.5
44.5°	357.3	507.2	810.4	683.5	564.5	706.7	878.8	624.2	441.0	539.3	745.5



66.5°	11.4	13.1	15.1	14.1	12.3	13.8	15.3	13.3	11.1	12.3	13.1
67°	10.9	12.6	14.6	13.6	11.9	13.3	14.8	12.8	10.6	11.9	12.6



89°	0.0	0.0	0.2	0.2	0.5	0.5	0.2	0.2	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0



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21.5°	1481.8	1453.2	1455.1	1465.3	1480.1	1494.6
22°	1468.5	1439.1	1440.8	1451.2	1466.0	1481.1



44°	460.5	297.1	410.9	702.8	512.9	391.6
44.5°	426.4	267.4	377.6	686.2	479.5	357.3

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66.5°	11.6	9.6	11.1	13.1	12.6	11.4
67°	11.4	9.4	10.9	12.6	12.1	10.9

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Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)