

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: P776208

Luminaire Tested: HCDJBS1525CSD-HCD8TSQH-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B005-HCD4TSQC)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQH-2500lm-4000K
Description: 8 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

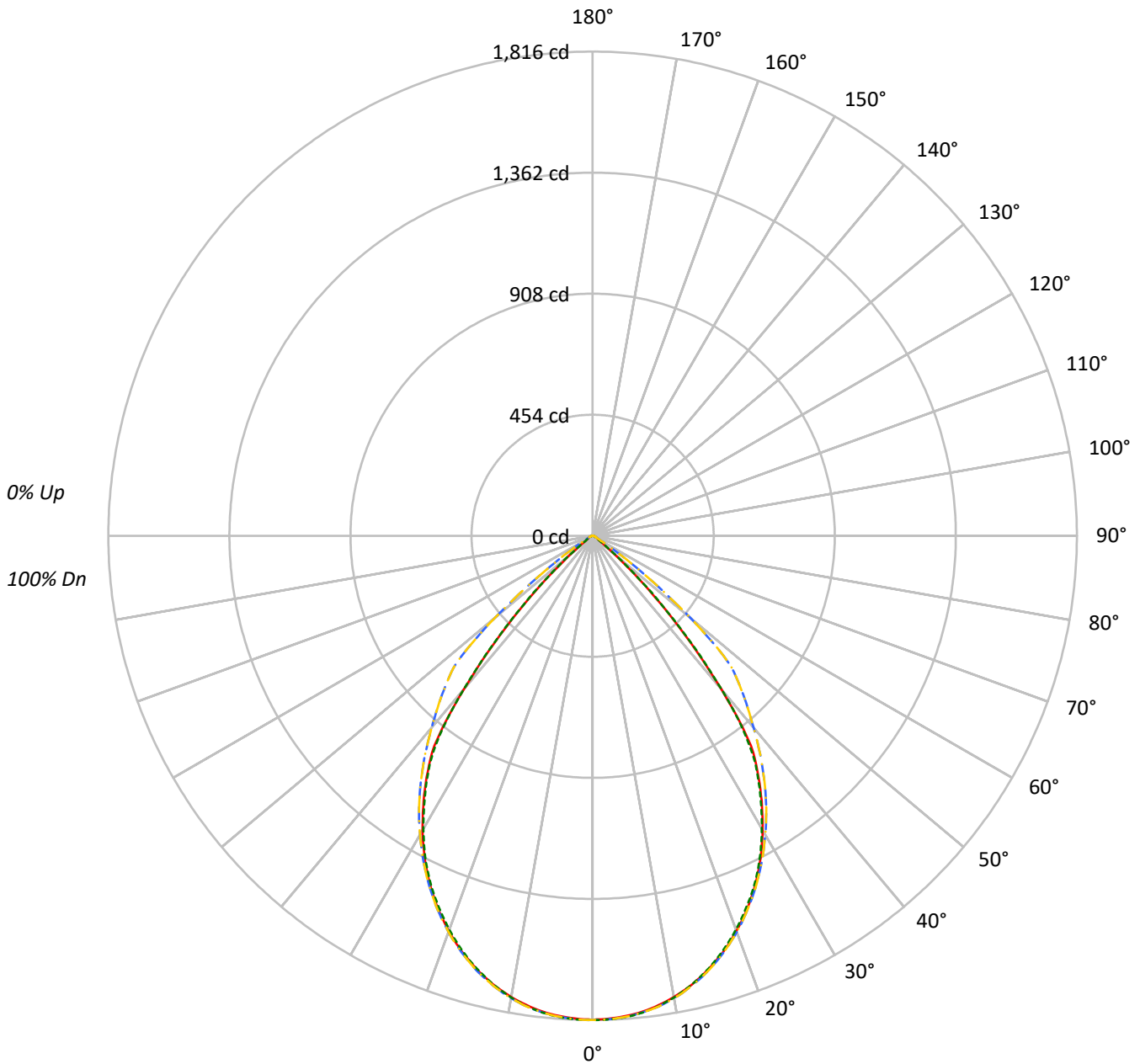
Lumens per Lamp: N/A
Luminaire Lumens: 2500.5 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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



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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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92								
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84								
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76								
4	94	85	79	74	92	84	78	73	82	77	72	80	75	72	78	74	71	69								
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63								
6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58								
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53								
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48								
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45								
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	43545	43545	43545	43545
5°	43338	43430	43338	43430
10°	42773	42812	42773	42812
15°	41754	41705	41754	41705
20°	40248	40098	40248	40098
25°	38173	38043	38173	38043
30°	35302	35139	35302	35139
35°	31547	31383	31547	31383
40°	23429	23554	23429	23554
45°	12276	12588	12276	12588
50°	3984	4305	3984	4305
55°	1317	1212	1317	1212
60°	998	940	998	940
65°	766	738	766	738
70°	603	589	603	589
75°	491	491	491	491
80°	387	428	387	428
85°	275	275	275	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 26098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	6.8
10°-20°	473.1	18.9
20°-30°	662.7	26.5
30°-40°	680.8	27.2
40°-50°	412.4	16.5
50°-60°	77.5	3.1
60°-70°	15.0	0.6
70°-80°	6.7	0.3
80°-90°	1.5	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°	1306.6	52.3
0°-40°	1987.4	79.5
0°-60°	2477.3	99.1
0°-90°	2500.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1816	1816	1816	1816	1816	
5°	1800	1804	1800	1804	1800	170
15°	1682	1680	1682	1680	1682	473
25°	1443	1438	1443	1438	1443	661
35°	1078	1072	1078	1072	1078	658
45°	362	371	362	371	362	289
55°	32	29	32	29	32	36
65°	14	13	14	13	14	14
75°	5	5	5	5	5	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0
0.5°	1814.2	1815.0	1816.2	1817.0	1816.5	1817.0	1816.2	1815.0	1814.2	1815.0	1816.2
1°	1814.0	1814.7	1815.7	1816.5	1816.2	1816.5	1815.7	1814.7	1814.0	1814.7	1815.7
1.5°	1813.2	1814.0	1815.2	1816.0	1815.7	1816.0	1815.2	1814.0	1813.2	1814.0	1815.2
2°	1812.2	1812.9	1814.2	1815.2	1814.7	1815.2	1814.2	1812.9	1812.2	1812.9	1814.2
2.5°	1810.9	1811.7	1813.2	1814.0	1813.7	1814.0	1813.2	1811.7	1810.9	1811.7	1813.2
3°	1809.4	1810.4	1811.7	1812.7	1812.4	1812.7	1811.7	1810.4	1809.4	1810.4	1811.7
3.5°	1807.6	1808.6	1810.1	1811.2	1810.9	1811.2	1810.1	1808.6	1807.6	1808.6	1810.1
4°	1805.6	1806.6	1808.1	1809.4	1809.1	1809.4	1808.1	1806.6	1805.6	1806.6	1808.1
4.5°	1803.3	1804.0	1805.8	1807.1	1806.8	1807.1	1805.8	1804.0	1803.3	1804.0	1805.8
5°	1800.5	1801.5	1803.5	1804.8	1804.3	1804.8	1803.5	1801.5	1800.5	1801.5	1803.5
5.5°	1797.7	1798.7	1800.7	1802.0	1801.2	1802.0	1800.7	1798.7	1797.7	1798.7	1800.7
6°	1794.1	1795.4	1797.7	1799.0	1798.2	1799.0	1797.7	1795.4	1794.1	1795.4	1797.7
6.5°	1790.6	1792.1	1794.4	1795.4	1794.4	1795.4	1794.4	1792.1	1790.6	1792.1	1794.4
7°	1786.7	1788.3	1790.6	1791.3	1790.3	1791.3	1790.6	1788.3	1786.7	1788.3	1790.6
7.5°	1782.4	1784.2	1786.5	1787.0	1785.7	1787.0	1786.5	1784.2	1782.4	1784.2	1786.5
8°	1777.8	1779.9	1782.2	1782.4	1781.2	1782.4	1782.2	1779.9	1777.8	1779.9	1782.2
8.5°	1773.0	1775.1	1777.3	1777.1	1775.8	1777.1	1777.3	1775.1	1773.0	1775.1	1777.3
9°	1767.9	1770.0	1772.3	1771.7	1770.2	1771.7	1772.3	1770.0	1767.9	1770.0	1772.3
9.5°	1762.6	1764.6	1766.9	1765.9	1764.4	1765.9	1766.9	1764.6	1762.6	1764.6	1766.9
10°	1756.7	1759.3	1761.1	1760.1	1758.3	1760.1	1761.1	1759.3	1756.7	1759.3	1761.1
10.5°	1750.6	1753.2	1755.0	1753.7	1751.9	1753.7	1755.0	1753.2	1750.6	1753.2	1755.0
11°	1744.3	1747.1	1748.6	1747.1	1745.1	1747.1	1748.6	1747.1	1744.3	1747.1	1748.6
11.5°	1737.7	1740.5	1741.7	1740.0	1737.9	1740.0	1741.7	1740.5	1737.7	1740.5	1741.7
12°	1730.6	1733.6	1734.6	1732.9	1730.8	1732.9	1734.6	1733.6	1730.6	1733.6	1734.6
12.5°	1723.2	1726.5	1727.3	1725.2	1722.9	1725.2	1727.3	1726.5	1723.2	1726.5	1727.3
13°	1715.6	1718.9	1719.6	1717.3	1715.1	1717.3	1719.6	1718.9	1715.6	1718.9	1719.6
13.5°	1707.7	1711.0	1711.5	1709.2	1706.7	1709.2	1711.5	1711.0	1707.7	1711.0	1711.5
14°	1699.3	1703.1	1703.4	1700.8	1698.0	1700.8	1703.4	1703.1	1699.3	1703.1	1703.4
14.5°	1690.9	1694.5	1694.7	1691.9	1689.1	1691.9	1694.7	1694.5	1690.9	1694.5	1694.7
15°	1682.0	1685.8	1686.1	1682.8	1680.0	1682.8	1686.1	1685.8	1682.0	1685.8	1686.1
15.5°	1672.9	1676.9	1676.7	1673.4	1670.3	1673.4	1676.7	1676.9	1672.9	1676.9	1676.7
16°	1663.4	1667.5	1667.3	1663.7	1660.6	1663.7	1667.3	1667.5	1663.4	1667.5	1667.3
16.5°	1653.8	1657.9	1657.3	1653.8	1650.5	1653.8	1657.3	1657.9	1653.8	1657.9	1657.3
17°	1643.9	1647.9	1647.4	1643.4	1640.1	1643.4	1647.4	1647.9	1643.9	1647.9	1647.4
17.5°	1633.4	1637.8	1637.0	1632.9	1629.4	1632.9	1637.0	1637.8	1633.4	1637.8	1637.0
18°	1622.8	1627.1	1626.1	1622.0	1618.2	1622.0	1626.1	1627.1	1622.8	1627.1	1626.1
18.5°	1611.8	1616.2	1615.4	1611.1	1606.8	1611.1	1615.4	1616.2	1611.8	1616.2	1615.4
19°	1600.6	1605.2	1604.2	1599.6	1595.3	1599.6	1604.2	1605.2	1600.6	1605.2	1604.2
19.5°	1589.0	1593.8	1592.5	1587.9	1583.4	1587.9	1592.5	1593.8	1589.0	1593.8	1592.5
20°	1577.3	1582.1	1580.8	1576.2	1571.4	1576.2	1580.8	1582.1	1577.3	1582.1	1580.8
20.5°	1565.3	1570.1	1568.9	1563.8	1559.0	1563.8	1568.9	1570.1	1565.3	1570.1	1568.9
21°	1552.9	1557.7	1556.7	1551.3	1546.2	1551.3	1556.7	1557.7	1552.9	1557.7	1556.7



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1514.0	1519.3	1518.0	1512.4	1507.6	1512.4	1518.0	1519.3	1514.0	1519.3	1518.0
23°	1500.5	1505.8	1504.8	1499.0	1494.1	1499.0	1504.8	1505.8	1500.5	1505.8	1504.8
23.5°	1486.5	1492.3	1491.3	1485.5	1480.9	1485.5	1491.3	1492.3	1486.5	1492.3	1491.3
24°	1472.5	1478.1	1477.6	1471.8	1467.2	1471.8	1477.6	1478.1	1472.5	1478.1	1477.6
24.5°	1457.8	1463.9	1463.6	1458.0	1452.7	1458.0	1463.6	1463.9	1457.8	1463.9	1463.6
25°	1442.8	1449.4	1449.1	1444.0	1437.9	1444.0	1449.1	1449.4	1442.8	1449.4	1449.1
25.5°	1427.8	1434.6	1434.6	1429.3	1423.2	1429.3	1434.6	1434.6	1427.8	1434.6	1434.6
26°	1412.0	1419.4	1419.9	1415.1	1407.9	1415.1	1419.9	1419.4	1412.0	1419.4	1419.9
26.5°	1396.2	1403.9	1404.9	1400.1	1391.9	1400.1	1404.9	1403.9	1396.2	1403.9	1404.9
27°	1379.7	1388.1	1389.6	1384.8	1375.4	1384.8	1389.6	1388.1	1379.7	1388.1	1389.6
27.5°	1363.5	1372.1	1374.4	1369.0	1358.9	1369.0	1374.4	1372.1	1363.5	1372.1	1374.4
28°	1346.4	1355.6	1358.9	1352.8	1341.3	1352.8	1358.9	1355.6	1346.4	1355.6	1358.9
28.5°	1329.1	1338.8	1342.9	1336.2	1323.5	1336.2	1342.9	1338.8	1329.1	1338.8	1342.9
29°	1311.1	1322.3	1327.1	1319.5	1305.7	1319.5	1327.1	1322.3	1311.1	1322.3	1327.1
29.5°	1293.0	1305.2	1311.3	1301.9	1287.4	1301.9	1311.3	1305.2	1293.0	1305.2	1311.3
30°	1275.0	1287.7	1294.8	1284.4	1269.1	1284.4	1294.8	1287.7	1275.0	1287.7	1294.8
30.5°	1256.4	1269.9	1278.5	1266.3	1250.3	1266.3	1278.5	1269.9	1256.4	1269.9	1278.5
31°	1237.1	1251.8	1261.8	1248.5	1231.5	1248.5	1261.8	1251.8	1237.1	1251.8	1261.8
31.5°	1218.3	1233.8	1245.2	1230.2	1212.2	1230.2	1245.2	1233.8	1218.3	1233.8	1245.2
32°	1199.0	1215.2	1228.5	1211.9	1192.6	1211.9	1228.5	1215.2	1199.0	1215.2	1228.5
32.5°	1179.4	1196.4	1211.4	1192.9	1173.0	1192.9	1211.4	1196.4	1179.4	1196.4	1211.4
33°	1159.6	1177.6	1194.1	1174.6	1153.5	1174.6	1194.1	1177.6	1159.6	1177.6	1194.1
33.5°	1139.7	1159.0	1176.6	1155.7	1133.4	1155.7	1176.6	1159.0	1139.7	1159.0	1176.6
34°	1119.1	1140.0	1158.8	1136.9	1113.0	1136.9	1158.8	1140.0	1119.1	1140.0	1158.8
34.5°	1098.8	1120.7	1141.0	1118.1	1092.4	1118.1	1141.0	1120.7	1098.8	1120.7	1141.0
35°	1077.7	1101.3	1123.2	1098.8	1072.1	1098.8	1123.2	1101.3	1077.7	1101.3	1123.2
35.5°	1057.4	1082.3	1104.6	1079.7	1051.8	1079.7	1104.6	1082.3	1057.4	1082.3	1104.6
36°	1036.3	1062.7	1086.1	1060.4	1027.6	1060.4	1086.1	1062.7	1036.3	1062.7	1086.1
36.5°	1013.6	1042.6	1068.0	1040.8	1000.4	1040.8	1068.0	1042.6	1013.6	1042.6	1068.0
37°	986.4	1023.0	1049.5	1021.3	970.4	1021.3	1049.5	1023.0	986.4	1023.0	1049.5
37.5°	950.8	1002.9	1031.2	1001.4	939.4	1001.4	1031.2	1002.9	950.8	1002.9	1031.2
38°	915.0	983.1	1012.1	981.8	906.3	981.8	1012.1	983.1	915.0	983.1	1012.1
38.5°	875.3	963.0	993.8	960.2	872.5	960.2	993.8	963.0	875.3	963.0	993.8
39°	834.1	942.2	975.5	935.1	834.6	935.1	975.5	942.2	834.1	942.2	975.5
39.5°	791.2	911.9	957.4	906.8	794.7	906.8	957.4	911.9	791.2	911.9	957.4
40°	748.5	879.4	939.1	876.1	752.5	876.1	939.1	879.4	748.5	879.4	939.1
40.5°	705.8	842.5	921.1	843.3	710.8	843.3	921.1	842.5	705.8	842.5	921.1
41°	665.3	804.4	903.5	808.2	670.7	808.2	903.5	804.4	665.3	804.4	903.5
41.5°	625.2	765.2	886.5	771.3	630.8	771.3	886.5	765.2	625.2	765.2	886.5
42°	586.0	726.1	869.5	732.7	592.1	732.7	869.5	726.1	586.0	726.1	869.5
42.5°	546.9	687.4	852.7	694.1	553.0	694.1	852.7	687.4	546.9	687.4	852.7
43°	508.2	648.3	835.9	655.2	515.1	655.2	835.9	648.3	508.2	648.3	835.9
43.5°	469.3	610.2	819.4	617.0	476.9	617.0	819.4	610.2	469.3	610.2	819.4



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	362.0	499.3	769.6	508.0	371.2	508.0	769.6	499.3	362.0	499.3	769.6
45.5°	328.5	463.0	753.0	471.9	338.9	471.9	753.0	463.0	328.5	463.0	753.0
46°	297.2	427.9	736.3	436.3	307.9	436.3	736.3	427.9	297.2	427.9	736.3
46.5°	266.4	393.8	719.0	401.7	276.4	401.7	719.0	393.8	266.4	393.8	719.0
47°	236.2	360.2	694.8	367.9	245.8	367.9	694.8	360.2	236.2	360.2	694.8
47.5°	207.2	328.0	665.3	336.3	218.6	336.3	665.3	328.0	207.2	328.0	665.3
48°	182.5	296.7	630.2	305.3	194.7	305.3	630.2	296.7	182.5	296.7	630.2
48.5°	159.9	266.9	593.1	275.3	172.4	275.3	593.1	266.9	159.9	266.9	593.1
49°	139.8	238.0	554.2	245.8	152.0	245.8	554.2	238.0	139.8	238.0	554.2
49.5°	122.3	210.0	514.3	219.4	133.0	219.4	514.3	210.0	122.3	210.0	514.3
50°	106.8	183.8	473.9	194.0	115.4	194.0	473.9	183.8	106.8	183.8	473.9
50.5°	92.3	160.2	434.0	170.6	98.9	170.6	434.0	160.2	92.3	160.2	434.0
51°	79.1	139.1	394.6	148.7	83.1	148.7	394.6	139.1	79.1	139.1	394.6
51.5°	68.4	120.5	357.7	128.9	69.9	128.9	357.7	120.5	68.4	120.5	357.7
52°	57.7	104.2	323.9	111.6	59.5	111.6	323.9	104.2	57.7	104.2	323.9
52.5°	48.6	89.7	290.8	95.6	52.4	95.6	290.8	89.7	48.6	89.7	290.8
53°	41.9	76.5	260.1	80.8	45.5	80.8	260.1	76.5	41.9	76.5	260.1
53.5°	35.8	65.3	229.8	67.1	38.4	67.1	229.8	65.3	35.8	65.3	229.8
54°	34.3	54.7	202.1	54.9	31.5	54.9	202.1	54.7	34.3	54.7	202.1
54.5°	32.8	45.8	175.7	45.5	30.0	45.5	175.7	45.8	32.8	45.8	175.7
55°	31.5	37.9	152.3	38.1	29.0	38.1	152.3	37.9	31.5	37.9	152.3
55.5°	30.3	32.3	131.2	32.8	27.7	32.8	131.2	32.3	30.3	32.3	131.2
56°	29.0	29.7	112.1	28.7	26.7	28.7	112.1	29.7	29.0	29.7	112.1
56.5°	27.7	28.5	95.1	26.7	25.7	26.7	95.1	28.5	27.7	28.5	95.1
57°	26.7	27.5	80.8	25.7	24.7	25.7	80.8	27.5	26.7	27.5	80.8
57.5°	25.4	26.4	68.4	24.7	23.6	24.7	68.4	26.4	25.4	26.4	68.4
58°	24.4	25.4	58.2	23.9	22.9	23.9	58.2	25.4	24.4	25.4	58.2
58.5°	23.4	24.4	49.1	22.9	21.9	22.9	49.1	24.4	23.4	24.4	49.1
59°	22.6	23.6	41.7	22.1	21.1	22.1	41.7	23.6	22.6	23.6	41.7
59.5°	21.6	22.9	35.3	21.4	20.3	21.4	35.3	22.9	21.6	22.9	35.3
60°	20.8	21.9	29.7	20.6	19.6	20.6	29.7	21.9	20.8	21.9	29.7
60.5°	19.8	21.1	26.4	19.8	18.6	19.8	26.4	21.1	19.8	21.1	26.4
61°	19.1	20.3	23.9	19.3	18.1	19.3	23.9	20.3	19.1	20.3	23.9
61.5°	18.3	19.6	21.9	18.6	17.3	18.6	21.9	19.6	18.3	19.6	21.9
62°	17.5	19.1	20.6	17.8	16.5	17.8	20.6	19.1	17.5	19.1	20.6
62.5°	16.8	18.3	19.6	17.3	16.0	17.3	19.6	18.3	16.8	18.3	19.6
63°	16.0	17.5	18.8	16.8	15.3	16.8	18.8	17.5	16.0	17.5	18.8
63.5°	15.5	17.0	18.1	16.0	14.7	16.0	18.1	17.0	15.5	17.0	18.1
64°	14.7	16.3	17.5	15.5	14.0	15.5	17.5	16.3	14.7	16.3	17.5
64.5°	14.2	15.8	16.8	15.0	13.5	15.0	16.8	15.8	14.2	15.8	16.8
65°	13.5	15.3	16.3	14.5	13.0	14.5	16.3	15.3	13.5	15.3	16.3
65.5°	13.0	14.5	15.5	14.0	12.5	14.0	15.5	14.5	13.0	14.5	15.5
66°	12.5	14.0	15.0	13.5	11.9	13.5	15.0	14.0	12.5	14.0	15.0



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.9	12.5	13.5	11.9	10.4	11.9	13.5	12.5	10.9	12.5	13.5
68°	10.4	11.9	13.0	11.4	10.2	11.4	13.0	11.9	10.4	11.9	13.0
68.5°	9.9	11.4	12.5	11.2	9.7	11.2	12.5	11.4	9.9	11.4	12.5
69°	9.7	10.9	11.9	10.7	9.2	10.7	11.9	10.9	9.7	10.9	11.9
69.5°	9.2	10.7	11.4	10.2	8.9	10.2	11.4	10.7	9.2	10.7	11.4
70°	8.6	10.2	10.9	9.9	8.4	9.9	10.9	10.2	8.6	10.2	10.9
70.5°	8.4	9.7	10.7	9.4	8.1	9.4	10.7	9.7	8.4	9.7	10.7
71°	7.9	9.4	10.2	9.2	7.9	9.2	10.2	9.4	7.9	9.4	10.2
71.5°	7.6	8.9	9.7	8.6	7.4	8.6	9.7	8.9	7.6	8.9	9.7
72°	7.1	8.6	9.4	8.4	7.1	8.4	9.4	8.6	7.1	8.6	9.4
72.5°	6.9	8.1	8.9	7.9	6.9	7.9	8.9	8.1	6.9	8.1	8.9
73°	6.6	7.9	8.4	7.6	6.4	7.6	8.4	7.9	6.6	7.9	8.4
73.5°	6.1	7.4	8.1	7.4	6.1	7.4	8.1	7.4	6.1	7.4	8.1
74°	5.8	7.1	7.6	6.9	5.8	6.9	7.6	7.1	5.8	7.1	7.6
74.5°	5.6	6.9	7.4	6.6	5.6	6.6	7.4	6.9	5.6	6.9	7.4
75°	5.3	6.4	6.9	6.4	5.3	6.4	6.9	6.4	5.3	6.4	6.9
75.5°	5.1	6.1	6.6	6.1	5.1	6.1	6.6	6.1	5.1	6.1	6.6
76°	4.8	5.8	6.4	5.6	4.8	5.6	6.4	5.8	4.8	5.8	6.4
76.5°	4.6	5.3	5.8	5.3	4.6	5.3	5.8	5.3	4.6	5.3	5.8
77°	4.1	5.1	5.6	5.1	4.3	5.1	5.6	5.1	4.1	5.1	5.6
77.5°	3.8	4.8	5.3	4.8	4.1	4.8	5.3	4.8	3.8	4.8	5.3
78°	3.8	4.6	4.8	4.6	3.8	4.6	4.8	4.6	3.8	4.6	4.8
78.5°	3.6	4.3	4.6	4.3	3.6	4.3	4.6	4.3	3.6	4.3	4.6
79°	3.3	4.1	4.3	4.1	3.3	4.1	4.3	4.1	3.3	4.1	4.3
79.5°	3.1	3.6	4.1	3.8	3.1	3.8	4.1	3.6	3.1	3.6	4.1
80°	2.8	3.3	3.8	3.6	3.1	3.6	3.8	3.3	2.8	3.3	3.8
80.5°	2.5	3.1	3.6	3.3	2.8	3.3	3.6	3.1	2.5	3.1	3.6
81°	2.3	2.8	3.3	3.1	2.5	3.1	3.3	2.8	2.3	2.8	3.3
81.5°	2.3	2.5	3.1	2.8	2.3	2.8	3.1	2.5	2.3	2.5	3.1
82°	2.0	2.3	2.8	2.5	2.3	2.5	2.8	2.3	2.0	2.3	2.8
82.5°	1.8	2.0	2.5	2.3	2.0	2.3	2.5	2.0	1.8	2.0	2.5
83°	1.5	2.0	2.3	2.0	1.8	2.0	2.3	2.0	1.5	2.0	2.3
83.5°	1.5	1.8	2.0	2.0	1.5	2.0	2.0	1.8	1.5	1.8	2.0
84°	1.3	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.3	1.5	1.8
84.5°	1.0	1.3	1.5	1.5	1.3	1.5	1.5	1.3	1.0	1.3	1.5
85°	1.0	1.0	1.3	1.3	1.0	1.3	1.3	1.0	1.0	1.0	1.3
85.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.0
86°	0.5	0.8	1.0	1.0	0.8	1.0	1.0	0.8	0.5	0.8	1.0
86.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
87°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
87.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
88°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
88.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-4000K

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1816.0	1816.0	1816.0	1816.0	1816.0	1816.0
0.5°	1817.0	1816.5	1817.0	1816.2	1815.0	1814.2
1°	1816.5	1816.2	1816.5	1815.7	1814.7	1814.0
1.5°	1816.0	1815.7	1816.0	1815.2	1814.0	1813.2
2°	1815.2	1814.7	1815.2	1814.2	1812.9	1812.2
2.5°	1814.0	1813.7	1814.0	1813.2	1811.7	1810.9
3°	1812.7	1812.4	1812.7	1811.7	1810.4	1809.4
3.5°	1811.2	1810.9	1811.2	1810.1	1808.6	1807.6
4°	1809.4	1809.1	1809.4	1808.1	1806.6	1805.6
4.5°	1807.1	1806.8	1807.1	1805.8	1804.0	1803.3
5°	1804.8	1804.3	1804.8	1803.5	1801.5	1800.5
5.5°	1802.0	1801.2	1802.0	1800.7	1798.7	1797.7
6°	1799.0	1798.2	1799.0	1797.7	1795.4	1794.1
6.5°	1795.4	1794.4	1795.4	1794.4	1792.1	1790.6
7°	1791.3	1790.3	1791.3	1790.6	1788.3	1786.7
7.5°	1787.0	1785.7	1787.0	1786.5	1784.2	1782.4
8°	1782.4	1781.2	1782.4	1782.2	1779.9	1777.8
8.5°	1777.1	1775.8	1777.1	1777.3	1775.1	1773.0
9°	1771.7	1770.2	1771.7	1772.3	1770.0	1767.9
9.5°	1765.9	1764.4	1765.9	1766.9	1764.6	1762.6
10°	1760.1	1758.3	1760.1	1761.1	1759.3	1756.7
10.5°	1753.7	1751.9	1753.7	1755.0	1753.2	1750.6
11°	1747.1	1745.1	1747.1	1748.6	1747.1	1744.3
11.5°	1740.0	1737.9	1740.0	1741.7	1740.5	1737.7
12°	1732.9	1730.8	1732.9	1734.6	1733.6	1730.6
12.5°	1725.2	1722.9	1725.2	1727.3	1726.5	1723.2
13°	1717.3	1715.1	1717.3	1719.6	1718.9	1715.6
13.5°	1709.2	1706.7	1709.2	1711.5	1711.0	1707.7
14°	1700.8	1698.0	1700.8	1703.4	1703.1	1699.3
14.5°	1691.9	1689.1	1691.9	1694.7	1694.5	1690.9
15°	1682.8	1680.0	1682.8	1686.1	1685.8	1682.0
15.5°	1673.4	1670.3	1673.4	1676.7	1676.9	1672.9
16°	1663.7	1660.6	1663.7	1667.3	1667.5	1663.4
16.5°	1653.8	1650.5	1653.8	1657.3	1657.9	1653.8
17°	1643.4	1640.1	1643.4	1647.4	1647.9	1643.9
17.5°	1632.9	1629.4	1632.9	1637.0	1637.8	1633.4
18°	1622.0	1618.2	1622.0	1626.1	1627.1	1622.8
18.5°	1611.1	1606.8	1611.1	1615.4	1616.2	1611.8
19°	1599.6	1595.3	1599.6	1604.2	1605.2	1600.6
19.5°	1587.9	1583.4	1587.9	1592.5	1593.8	1589.0
20°	1576.2	1571.4	1576.2	1580.8	1582.1	1577.3
20.5°	1563.8	1559.0	1563.8	1568.9	1570.1	1565.3
21°	1551.3	1546.2	1551.3	1556.7	1557.7	1552.9

TEST NUMBER: P776208

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1512.4	1507.6	1512.4	1518.0	1519.3	1514.0
23°	1499.0	1494.1	1499.0	1504.8	1505.8	1500.5
23.5°	1485.5	1480.9	1485.5	1491.3	1492.3	1486.5
24°	1471.8	1467.2	1471.8	1477.6	1478.1	1472.5
24.5°	1458.0	1452.7	1458.0	1463.6	1463.9	1457.8
25°	1444.0	1437.9	1444.0	1449.1	1449.4	1442.8
25.5°	1429.3	1423.2	1429.3	1434.6	1434.6	1427.8
26°	1415.1	1407.9	1415.1	1419.9	1419.4	1412.0
26.5°	1400.1	1391.9	1400.1	1404.9	1403.9	1396.2
27°	1384.8	1375.4	1384.8	1389.6	1388.1	1379.7
27.5°	1369.0	1358.9	1369.0	1374.4	1372.1	1363.5
28°	1352.8	1341.3	1352.8	1358.9	1355.6	1346.4
28.5°	1336.2	1323.5	1336.2	1342.9	1338.8	1329.1
29°	1319.5	1305.7	1319.5	1327.1	1322.3	1311.1
29.5°	1301.9	1287.4	1301.9	1311.3	1305.2	1293.0
30°	1284.4	1269.1	1284.4	1294.8	1287.7	1275.0
30.5°	1266.3	1250.3	1266.3	1278.5	1269.9	1256.4
31°	1248.5	1231.5	1248.5	1261.8	1251.8	1237.1
31.5°	1230.2	1212.2	1230.2	1245.2	1233.8	1218.3
32°	1211.9	1192.6	1211.9	1228.5	1215.2	1199.0
32.5°	1192.9	1173.0	1192.9	1211.4	1196.4	1179.4
33°	1174.6	1153.5	1174.6	1194.1	1177.6	1159.6
33.5°	1155.7	1133.4	1155.7	1176.6	1159.0	1139.7
34°	1136.9	1113.0	1136.9	1158.8	1140.0	1119.1
34.5°	1118.1	1092.4	1118.1	1141.0	1120.7	1098.8
35°	1098.8	1072.1	1098.8	1123.2	1101.3	1077.7
35.5°	1079.7	1051.8	1079.7	1104.6	1082.3	1057.4
36°	1060.4	1027.6	1060.4	1086.1	1062.7	1036.3
36.5°	1040.8	1000.4	1040.8	1068.0	1042.6	1013.6
37°	1021.3	970.4	1021.3	1049.5	1023.0	986.4
37.5°	1001.4	939.4	1001.4	1031.2	1002.9	950.8
38°	981.8	906.3	981.8	1012.1	983.1	915.0
38.5°	960.2	872.5	960.2	993.8	963.0	875.3
39°	935.1	834.6	935.1	975.5	942.2	834.1
39.5°	906.8	794.7	906.8	957.4	911.9	791.2
40°	876.1	752.5	876.1	939.1	879.4	748.5
40.5°	843.3	710.8	843.3	921.1	842.5	705.8
41°	808.2	670.7	808.2	903.5	804.4	665.3
41.5°	771.3	630.8	771.3	886.5	765.2	625.2
42°	732.7	592.1	732.7	869.5	726.1	586.0
42.5°	694.1	553.0	694.1	852.7	687.4	546.9
43°	655.2	515.1	655.2	835.9	648.3	508.2
43.5°	617.0	476.9	617.0	819.4	610.2	469.3



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	508.0	371.2	508.0	769.6	499.3	362.0
45.5°	471.9	338.9	471.9	753.0	463.0	328.5
46°	436.3	307.9	436.3	736.3	427.9	297.2
46.5°	401.7	276.4	401.7	719.0	393.8	266.4
47°	367.9	245.8	367.9	694.8	360.2	236.2
47.5°	336.3	218.6	336.3	665.3	328.0	207.2
48°	305.3	194.7	305.3	630.2	296.7	182.5
48.5°	275.3	172.4	275.3	593.1	266.9	159.9
49°	245.8	152.0	245.8	554.2	238.0	139.8
49.5°	219.4	133.0	219.4	514.3	210.0	122.3
50°	194.0	115.4	194.0	473.9	183.8	106.8
50.5°	170.6	98.9	170.6	434.0	160.2	92.3
51°	148.7	83.1	148.7	394.6	139.1	79.1
51.5°	128.9	69.9	128.9	357.7	120.5	68.4
52°	111.6	59.5	111.6	323.9	104.2	57.7
52.5°	95.6	52.4	95.6	290.8	89.7	48.6
53°	80.8	45.5	80.8	260.1	76.5	41.9
53.5°	67.1	38.4	67.1	229.8	65.3	35.8
54°	54.9	31.5	54.9	202.1	54.7	34.3
54.5°	45.5	30.0	45.5	175.7	45.8	32.8
55°	38.1	29.0	38.1	152.3	37.9	31.5
55.5°	32.8	27.7	32.8	131.2	32.3	30.3
56°	28.7	26.7	28.7	112.1	29.7	29.0
56.5°	26.7	25.7	26.7	95.1	28.5	27.7
57°	25.7	24.7	25.7	80.8	27.5	26.7
57.5°	24.7	23.6	24.7	68.4	26.4	25.4
58°	23.9	22.9	23.9	58.2	25.4	24.4
58.5°	22.9	21.9	22.9	49.1	24.4	23.4
59°	22.1	21.1	22.1	41.7	23.6	22.6
59.5°	21.4	20.3	21.4	35.3	22.9	21.6
60°	20.6	19.6	20.6	29.7	21.9	20.8
60.5°	19.8	18.6	19.8	26.4	21.1	19.8
61°	19.3	18.1	19.3	23.9	20.3	19.1
61.5°	18.6	17.3	18.6	21.9	19.6	18.3
62°	17.8	16.5	17.8	20.6	19.1	17.5
62.5°	17.3	16.0	17.3	19.6	18.3	16.8
63°	16.8	15.3	16.8	18.8	17.5	16.0
63.5°	16.0	14.7	16.0	18.1	17.0	15.5
64°	15.5	14.0	15.5	17.5	16.3	14.7
64.5°	15.0	13.5	15.0	16.8	15.8	14.2
65°	14.5	13.0	14.5	16.3	15.3	13.5
65.5°	14.0	12.5	14.0	15.5	14.5	13.0
66°	13.5	11.9	13.5	15.0	14.0	12.5



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	11.9	10.4	11.9	13.5	12.5	10.9
68°	11.4	10.2	11.4	13.0	11.9	10.4
68.5°	11.2	9.7	11.2	12.5	11.4	9.9
69°	10.7	9.2	10.7	11.9	10.9	9.7
69.5°	10.2	8.9	10.2	11.4	10.7	9.2
70°	9.9	8.4	9.9	10.9	10.2	8.6
70.5°	9.4	8.1	9.4	10.7	9.7	8.4
71°	9.2	7.9	9.2	10.2	9.4	7.9
71.5°	8.6	7.4	8.6	9.7	8.9	7.6
72°	8.4	7.1	8.4	9.4	8.6	7.1
72.5°	7.9	6.9	7.9	8.9	8.1	6.9
73°	7.6	6.4	7.6	8.4	7.9	6.6
73.5°	7.4	6.1	7.4	8.1	7.4	6.1
74°	6.9	5.8	6.9	7.6	7.1	5.8
74.5°	6.6	5.6	6.6	7.4	6.9	5.6
75°	6.4	5.3	6.4	6.9	6.4	5.3
75.5°	6.1	5.1	6.1	6.6	6.1	5.1
76°	5.6	4.8	5.6	6.4	5.8	4.8
76.5°	5.3	4.6	5.3	5.8	5.3	4.6
77°	5.1	4.3	5.1	5.6	5.1	4.1
77.5°	4.8	4.1	4.8	5.3	4.8	3.8
78°	4.6	3.8	4.6	4.8	4.6	3.8
78.5°	4.3	3.6	4.3	4.6	4.3	3.6
79°	4.1	3.3	4.1	4.3	4.1	3.3
79.5°	3.8	3.1	3.8	4.1	3.6	3.1
80°	3.6	3.1	3.6	3.8	3.3	2.8
80.5°	3.3	2.8	3.3	3.6	3.1	2.5
81°	3.1	2.5	3.1	3.3	2.8	2.3
81.5°	2.8	2.3	2.8	3.1	2.5	2.3
82°	2.5	2.3	2.5	2.8	2.3	2.0
82.5°	2.3	2.0	2.3	2.5	2.0	1.8
83°	2.0	1.8	2.0	2.3	2.0	1.5
83.5°	2.0	1.5	2.0	2.0	1.8	1.5
84°	1.8	1.5	1.8	1.8	1.5	1.3
84.5°	1.5	1.3	1.5	1.5	1.3	1.0
85°	1.3	1.0	1.3	1.3	1.0	1.0
85.5°	1.0	1.0	1.0	1.0	0.8	0.8
86°	1.0	0.8	1.0	1.0	0.8	0.5
86.5°	0.8	0.8	0.8	0.8	0.5	0.5
87°	0.5	0.5	0.5	0.5	0.5	0.3
87.5°	0.5	0.5	0.5	0.5	0.3	0.3
88°	0.3	0.3	0.3	0.3	0.3	0.3
88.5°	0.3	0.3	0.3	0.3	0.0	0.0



TEST NUMBER: P776208

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-4000K

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



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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1540.4	1545.2	1544.0	1538.6	1533.8	1538.6	1544.0	1545.2	1540.4	1545.2	1544.0
22°	1526.9	1532.5	1531.0	1525.7	1520.6	1525.7	1531.0	1532.5	1526.9	1532.5	1531.0



44°	431.9	573.0	802.6	580.4	439.8	580.4	802.6	573.0	431.9	573.0	802.6
44.5°	396.9	536.7	786.3	544.1	403.5	544.1	786.3	536.7	396.9	536.7	786.3



66.5°	11.9	13.5	14.5	13.0	11.4	13.0	14.5	13.5	11.9	13.5	14.5
67°	11.4	13.0	14.0	12.5	10.9	12.5	14.0	13.0	11.4	13.0	14.0



89°	0.0	0.0	0.0	0.0	0.3	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	0.0	0.0	0.0	0.0	0.0

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21.5°	1538.6	1533.8	1538.6	1544.0	1545.2	1540.4
22°	1525.7	1520.6	1525.7	1531.0	1532.5	1526.9



44°	580.4	439.8	580.4	802.6	573.0	431.9
44.5°	544.1	403.5	544.1	786.3	536.7	396.9



66.5°	13.0	11.4	13.0	14.5	13.5	11.9
67°	12.5	10.9	12.5	14.0	13.0	11.4

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Scaled Data Report



89°	0.0	0.3	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)