

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: P776183

Luminaire Tested: HCDJBS1525CSD-HCD8TRH-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776183
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-4000K
Description: 8 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

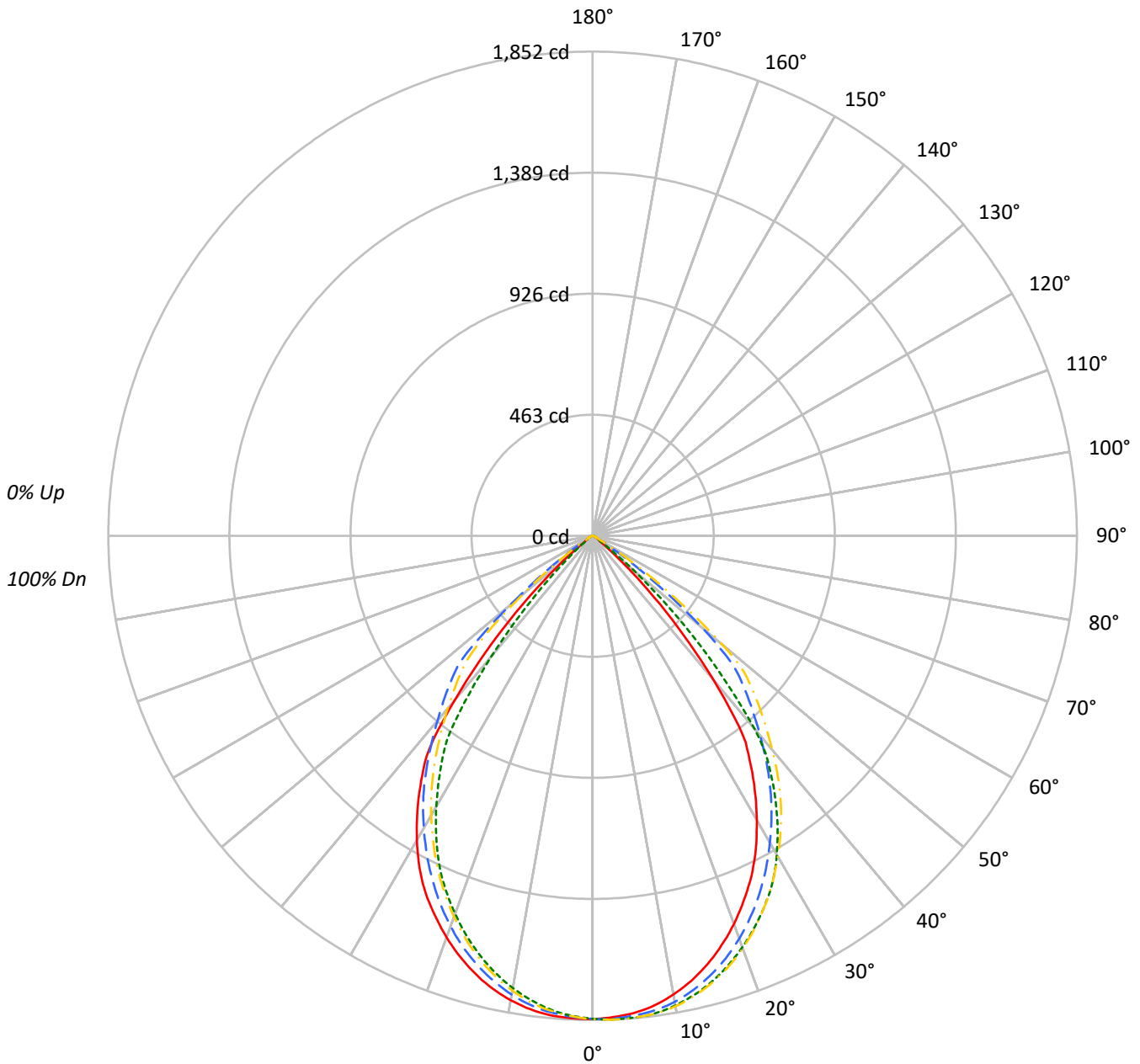
Lumens per Lamp: N/A
Luminaire Lumens: 2561.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	56423	56423	56423	56423
5°	56139	56700	56418	55771
10°	55229	56552	55914	54463
15°	53625	55777	54813	52538
20°	51330	54410	53082	49966
25°	48391	52510	50850	46737
30°	44271	49665	47380	42145
35°	39033	45317	42578	36667
40°	28592	38284	32621	23889
45°	14399	23311	18009	10535
50°	4393	9670	5918	3021
55°	1623	1826	1623	1405
60°	1240	1368	1240	1069
65°	975	1047	954	824
70°	768	839	750	661
75°	625	684	602	507
80°	492	580	492	404
85°	350	525	350	280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 38315 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	6.8
10°-20°	482.8	18.9
20°-30°	677.6	26.5
30°-40°	695.8	27.2
40°-50°	425.4	16.6
50°-60°	82.6	3.2
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°	1334.4	52.1
0°-40°	2030.2	79.3
0°-60°	2538.3	99.1
0°-90°	2561.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1848	1848	1848	1848	1848	
5°	1832	1850	1841	1820	1832	173
15°	1697	1765	1734	1662	1697	476
25°	1436	1559	1510	1387	1436	657
35°	1047	1216	1142	984	1047	640
45°	334	540	417	244	334	269
55°	30	34	30	26	30	33
65°	14	14	13	11	14	14
75°	5	6	5	4	5	6
85°	1	2	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P776183

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1
0.5°	1847.6	1847.3	1848.6	1849.6	1848.8	1849.6	1850.1	1850.1	1848.3	1847.0	1847.0
1°	1846.5	1847.0	1848.6	1850.4	1849.8	1850.6	1851.1	1850.6	1848.3	1846.3	1846.0
1.5°	1845.5	1846.5	1848.6	1850.9	1850.6	1851.6	1851.9	1850.9	1848.1	1845.5	1844.8
2°	1844.3	1845.8	1848.6	1851.1	1851.4	1852.1	1852.4	1850.9	1847.6	1844.5	1843.2
2.5°	1842.7	1844.8	1848.1	1851.1	1851.6	1852.6	1852.4	1850.9	1847.0	1843.2	1841.7
3°	1840.9	1843.5	1847.3	1850.6	1851.6	1852.6	1852.4	1850.6	1846.0	1842.0	1839.7
3.5°	1838.9	1842.0	1846.3	1849.8	1851.6	1852.6	1852.1	1849.8	1845.0	1840.2	1837.6
4°	1836.9	1840.4	1845.0	1849.1	1851.1	1852.1	1851.6	1849.3	1844.0	1838.7	1835.4
4.5°	1834.6	1838.7	1843.5	1848.1	1850.6	1851.6	1850.9	1848.6	1842.7	1836.9	1832.6
5°	1831.8	1836.6	1842.0	1847.0	1850.1	1850.9	1850.1	1847.3	1840.9	1834.6	1830.0
5.5°	1828.7	1834.1	1839.9	1845.8	1849.1	1850.1	1849.1	1845.8	1839.2	1832.3	1827.0
6°	1825.2	1831.3	1838.2	1844.3	1848.1	1849.1	1847.8	1844.3	1836.6	1829.5	1823.4
6.5°	1821.1	1827.7	1835.9	1842.5	1846.5	1847.8	1846.5	1842.0	1833.6	1826.2	1819.6
7°	1816.5	1824.2	1833.3	1840.2	1844.5	1846.0	1845.0	1839.4	1830.3	1822.6	1815.5
7.5°	1811.7	1819.8	1830.5	1837.4	1842.0	1844.0	1843.0	1836.1	1826.7	1818.3	1811.0
8°	1806.1	1815.3	1827.5	1834.3	1839.2	1841.5	1840.7	1833.1	1822.9	1814.3	1805.9
8.5°	1800.3	1809.9	1823.7	1831.0	1835.9	1838.4	1837.9	1829.5	1818.3	1809.4	1800.5
9°	1794.4	1804.8	1819.6	1827.2	1832.3	1835.4	1834.8	1825.4	1813.7	1804.1	1794.7
9.5°	1787.8	1799.0	1815.0	1823.2	1828.5	1831.5	1831.3	1821.1	1808.7	1798.7	1788.6
10°	1781.5	1793.4	1809.9	1818.8	1824.2	1827.7	1827.2	1816.5	1803.6	1793.2	1782.0
10.5°	1774.6	1787.1	1804.6	1814.0	1819.3	1823.7	1823.2	1812.0	1798.2	1787.1	1775.1
11°	1767.2	1780.7	1798.7	1808.9	1814.5	1818.8	1818.6	1806.9	1792.4	1781.0	1768.2
11.5°	1759.6	1773.8	1792.6	1803.3	1809.4	1813.7	1813.5	1801.5	1786.3	1774.1	1760.6
12°	1751.5	1767.0	1786.0	1797.7	1804.1	1808.7	1807.9	1796.0	1779.9	1767.2	1753.0
12.5°	1743.3	1759.6	1779.4	1791.6	1798.2	1803.3	1802.1	1790.1	1773.1	1759.9	1744.9
13°	1734.7	1752.0	1772.3	1785.5	1792.4	1797.7	1796.2	1783.8	1766.2	1752.2	1736.7
13.5°	1725.5	1744.1	1764.7	1778.9	1785.8	1791.6	1789.9	1777.4	1758.6	1744.3	1728.3
14°	1716.1	1735.7	1757.1	1772.1	1779.2	1785.3	1783.0	1770.5	1751.0	1736.2	1719.2
14.5°	1706.2	1726.6	1748.9	1764.7	1772.1	1778.4	1776.1	1763.2	1742.6	1727.3	1710.3
15°	1696.6	1717.7	1740.5	1756.8	1764.7	1771.3	1768.8	1755.8	1734.2	1718.4	1700.9
15.5°	1685.9	1708.3	1731.9	1748.7	1757.1	1763.7	1761.1	1747.9	1725.5	1709.3	1691.2
16°	1675.2	1698.3	1723.0	1740.5	1749.2	1756.0	1753.2	1739.5	1716.4	1699.6	1681.1
16.5°	1664.5	1688.4	1713.6	1732.1	1740.8	1748.2	1745.4	1730.6	1707.0	1689.7	1670.6
17°	1653.3	1678.3	1703.9	1723.3	1732.1	1739.8	1736.7	1722.2	1697.6	1679.3	1659.7
17.5°	1641.7	1667.6	1693.8	1713.6	1723.3	1730.9	1727.8	1712.8	1687.4	1668.9	1648.8
18°	1630.0	1656.4	1683.6	1703.9	1714.1	1722.0	1718.9	1703.2	1677.2	1658.2	1637.6
18.5°	1617.8	1645.0	1672.9	1694.0	1704.4	1712.6	1709.3	1693.5	1666.6	1647.0	1625.6
19°	1605.3	1633.5	1662.0	1683.8	1694.8	1702.7	1699.4	1683.3	1655.9	1635.8	1613.9
19.5°	1592.8	1621.6	1650.8	1673.2	1684.9	1692.7	1689.4	1672.9	1645.0	1624.1	1601.7
20°	1579.9	1609.4	1639.4	1662.7	1674.7	1682.3	1679.0	1662.2	1633.8	1612.4	1589.3
20.5°	1566.4	1596.4	1627.7	1651.6	1664.3	1672.2	1668.3	1651.1	1622.1	1600.0	1576.6
21°	1552.7	1583.4	1615.7	1640.4	1653.3	1661.2	1657.4	1639.9	1610.6	1587.8	1563.6



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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°	1510.5	1543.0	1577.8	1605.0	1620.0	1627.7	1622.8	1605.0	1573.5	1549.4	1522.9
23°	1496.0	1528.5	1564.9	1592.8	1608.1	1615.7	1610.9	1592.8	1561.1	1536.2	1509.0
23.5°	1481.5	1514.5	1551.7	1580.4	1595.9	1604.0	1598.4	1580.1	1548.6	1522.4	1494.7
24°	1466.8	1499.8	1537.7	1567.7	1583.9	1591.6	1585.7	1567.4	1535.9	1508.7	1480.5
24.5°	1451.8	1485.3	1523.7	1554.7	1571.5	1578.9	1572.8	1554.7	1522.9	1494.7	1465.7
25°	1436.5	1470.3	1509.5	1541.2	1558.8	1565.9	1560.1	1541.5	1509.5	1480.5	1450.5
25.5°	1420.2	1455.3	1495.2	1528.0	1546.3	1553.2	1546.6	1528.3	1495.5	1466.2	1435.5
26°	1403.5	1440.3	1480.7	1514.3	1533.6	1540.0	1533.1	1515.1	1480.7	1452.0	1420.2
26.5°	1386.4	1425.1	1465.7	1500.8	1520.1	1526.2	1519.1	1501.6	1465.2	1437.0	1404.7
27°	1368.9	1409.1	1450.7	1486.8	1505.9	1512.5	1505.4	1487.6	1449.2	1421.8	1389.0
27.5°	1350.8	1392.3	1435.2	1472.4	1491.2	1499.0	1491.2	1473.1	1432.7	1406.0	1372.7
28°	1332.5	1375.0	1419.7	1457.6	1475.7	1485.1	1476.7	1457.6	1415.9	1389.0	1356.7
28.5°	1314.0	1357.7	1404.2	1442.9	1459.6	1470.3	1461.9	1441.8	1398.6	1372.2	1340.7
29°	1294.4	1339.7	1388.0	1427.4	1443.4	1455.1	1447.4	1425.8	1381.1	1355.2	1324.4
29.5°	1275.3	1322.1	1372.2	1411.3	1426.3	1439.3	1432.2	1409.3	1362.5	1337.6	1307.9
30°	1255.8	1303.6	1355.9	1394.3	1408.8	1423.3	1416.9	1391.8	1344.0	1319.6	1290.8
30.5°	1235.7	1285.0	1339.9	1377.3	1390.8	1406.3	1401.4	1374.2	1325.2	1301.3	1274.3
31°	1215.6	1265.7	1323.1	1359.7	1372.4	1389.7	1386.2	1356.4	1306.1	1282.7	1257.5
31.5°	1195.3	1247.1	1306.9	1341.9	1353.6	1371.9	1370.2	1338.4	1286.8	1263.9	1240.5
32°	1175.2	1227.3	1289.8	1323.6	1334.8	1354.1	1354.4	1320.1	1267.0	1245.1	1223.2
32.5°	1154.6	1208.5	1273.1	1304.6	1315.8	1335.8	1338.4	1301.3	1247.4	1226.5	1205.9
33°	1133.5	1188.9	1256.0	1286.0	1296.2	1317.8	1322.4	1282.0	1227.0	1207.0	1188.2
33.5°	1112.4	1169.1	1239.0	1266.2	1276.1	1298.7	1306.1	1262.6	1206.5	1187.9	1169.8
34°	1091.3	1149.0	1220.4	1247.6	1256.5	1279.9	1289.6	1243.3	1185.6	1168.8	1151.5
34.5°	1069.4	1129.4	1203.1	1227.8	1236.2	1261.1	1272.8	1223.7	1163.7	1149.3	1132.2
35°	1047.3	1108.8	1184.8	1208.2	1215.9	1242.0	1255.8	1203.9	1142.4	1129.2	1113.4
35.5°	1026.5	1088.5	1167.1	1188.2	1194.5	1222.5	1238.2	1183.8	1121.0	1109.3	1094.1
36°	1004.1	1068.2	1148.2	1169.3	1173.4	1203.4	1220.2	1163.5	1099.9	1089.3	1075.0
36.5°	984.5	1047.3	1129.7	1149.3	1152.1	1183.8	1201.9	1142.9	1077.6	1068.9	1056.0
37°	952.5	1026.5	1110.6	1129.2	1130.2	1163.2	1183.3	1122.3	1053.2	1048.3	1036.1
37.5°	920.2	1005.6	1092.1	1108.6	1108.6	1143.4	1164.5	1101.0	1022.7	1028.0	1016.8
38°	878.0	984.8	1072.7	1088.2	1085.5	1122.8	1145.7	1080.1	988.1	1007.4	997.8
38.5°	839.1	964.2	1053.9	1067.1	1062.1	1102.2	1126.6	1059.5	948.9	986.6	979.2
39°	799.7	943.1	1034.4	1047.3	1031.3	1081.9	1107.3	1038.2	906.7	963.2	959.9
39.5°	759.8	910.1	1015.5	1026.2	999.0	1060.8	1088.0	1017.6	862.0	934.7	941.1
40°	717.4	872.9	996.5	1005.6	960.6	1040.2	1068.7	987.6	818.5	902.2	922.8
40.5°	675.7	834.0	977.7	985.0	917.9	1019.4	1049.6	956.6	776.8	865.1	905.2
41°	633.2	795.9	958.9	957.1	874.5	990.4	1030.0	921.0	734.9	826.2	887.7
41.5°	591.8	758.0	940.6	930.4	830.7	963.2	1011.7	882.1	694.7	786.0	870.6
42°	552.4	719.4	922.5	896.8	787.5	928.1	992.9	842.2	652.5	745.6	853.1
42.5°	515.5	679.0	904.7	861.0	745.3	890.7	974.9	799.7	612.1	706.9	836.3
43°	478.7	638.3	887.2	822.6	704.7	850.6	957.3	760.6	569.9	668.8	818.8
43.5°	441.0	598.1	869.1	782.4	663.5	809.1	939.5	721.2	530.0	631.2	801.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	333.5	486.0	817.3	665.3	539.9	688.9	887.4	604.8	417.1	517.3	750.4
45.5°	301.0	449.7	800.0	628.4	500.8	650.0	869.9	565.4	381.1	480.4	733.1
46°	270.0	414.1	782.4	591.3	463.2	611.4	851.8	527.0	346.2	444.3	716.6
46.5°	239.0	379.0	765.4	553.7	426.0	572.0	834.8	489.3	312.2	410.5	689.1
47°	210.2	343.9	744.8	515.8	389.7	532.0	817.0	452.5	279.4	376.0	656.6
47.5°	183.8	311.7	718.6	478.9	353.9	494.4	798.7	417.1	251.4	343.2	618.5
48°	159.6	280.4	687.9	443.3	320.0	457.8	780.4	382.8	223.7	310.6	576.3
48.5°	138.8	250.4	654.3	409.0	287.3	422.0	755.2	348.8	196.0	280.1	534.3
49°	120.7	221.7	622.3	376.0	259.3	386.6	723.0	315.2	168.3	252.4	491.4
49.5°	105.5	194.5	584.7	342.9	231.6	352.3	689.4	283.4	145.2	224.7	449.7
50°	92.5	168.8	548.1	310.4	203.6	318.3	649.7	256.2	124.6	196.8	408.8
50.5°	82.4	145.4	507.4	278.9	175.9	286.7	607.3	229.0	105.7	169.3	370.6
51°	71.9	125.6	464.9	248.9	148.5	258.8	563.3	202.1	89.2	146.7	333.0
51.5°	61.8	108.5	423.8	220.4	127.4	230.8	519.1	174.9	74.7	125.8	298.4
52°	51.6	94.3	383.8	194.2	107.3	202.9	476.1	147.9	61.0	106.5	269.5
52.5°	41.4	83.6	345.0	169.0	89.2	174.9	434.9	126.3	48.8	89.0	240.7
53°	36.1	73.2	309.9	145.7	73.7	147.2	395.8	106.8	39.1	73.7	212.0
53.5°	34.3	62.5	275.6	123.8	60.0	125.1	357.4	89.7	34.8	60.2	183.0
54°	33.0	52.1	243.5	104.5	47.0	104.7	321.3	74.5	33.3	48.0	154.3
54.5°	31.8	41.7	213.0	86.2	37.6	87.4	286.2	61.0	32.0	37.1	131.9
55°	30.5	34.1	186.1	73.0	34.3	71.4	255.7	48.6	30.5	29.7	112.6
55.5°	29.2	30.8	160.1	60.0	33.0	57.2	225.7	37.4	29.2	28.5	95.3
56°	28.0	29.5	137.0	46.8	31.5	44.5	195.5	30.3	28.2	27.5	80.3
56.5°	26.9	28.2	116.4	33.8	30.0	34.1	165.2	29.0	26.9	26.4	67.1
57°	25.9	27.2	98.1	29.0	28.7	29.2	141.3	27.7	25.9	25.4	56.2
57.5°	24.9	26.2	83.4	28.0	27.7	28.0	119.5	26.7	24.9	24.4	47.3
58°	23.9	25.2	72.7	26.9	26.4	26.9	99.6	25.7	23.9	23.6	40.2
58.5°	22.9	24.4	62.0	25.9	25.4	25.9	82.4	24.9	22.9	22.6	34.6
59°	21.9	23.4	51.3	24.9	24.4	24.9	67.1	23.9	21.9	21.9	30.0
59.5°	21.1	22.6	40.7	24.1	23.4	23.9	54.4	23.1	21.1	21.1	26.7
60°	20.3	21.9	35.3	23.1	22.4	23.1	44.7	22.4	20.3	20.3	24.1
60.5°	19.6	21.1	30.8	22.4	21.4	22.4	37.4	21.4	19.3	19.8	21.9
61°	18.8	20.3	27.2	21.6	20.6	21.4	31.8	20.8	18.6	19.1	20.6
61.5°	18.0	19.6	24.1	20.8	19.8	20.6	27.7	20.1	17.8	18.3	19.8
62°	17.3	18.8	22.1	20.1	19.1	20.1	24.7	19.3	17.0	17.8	19.1
62.5°	16.5	18.3	20.6	19.3	18.3	19.3	22.4	18.6	16.3	17.0	18.3
63°	15.8	17.5	19.8	18.8	17.3	18.6	20.6	18.0	15.5	16.5	17.5
63.5°	15.3	17.0	19.3	18.0	16.5	17.8	19.8	17.3	15.0	15.8	17.0
64°	14.5	16.3	18.6	17.3	16.0	17.3	19.1	16.8	14.2	15.3	16.3
64.5°	14.0	15.8	18.0	16.8	15.3	16.5	18.3	16.0	13.7	14.7	15.8
65°	13.5	15.3	17.3	16.3	14.5	16.0	17.5	15.5	13.2	14.2	15.3
65.5°	13.0	14.7	16.8	15.5	14.0	15.5	16.8	15.0	12.5	13.7	14.7
66°	12.2	14.0	16.0	15.0	13.5	14.7	16.3	14.2	11.9	13.2	14.2



TEST NUMBER: P776183

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-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	14.5	13.5	11.7	13.2	14.7	12.7	10.4	11.7	12.7
68°	10.4	11.9	14.0	13.0	11.2	12.7	14.0	12.2	10.2	11.2	12.2
68.5°	9.9	11.7	13.5	12.5	10.7	12.2	13.5	11.7	9.7	10.7	11.7
69°	9.4	11.2	13.0	11.9	10.2	11.7	13.0	11.4	9.2	10.4	11.2
69.5°	9.2	10.7	12.5	11.4	9.9	11.4	12.5	10.9	8.9	9.9	10.7
70°	8.6	10.2	11.9	10.9	9.4	10.9	11.9	10.4	8.4	9.4	10.2
70.5°	8.4	9.9	11.4	10.7	8.9	10.4	11.7	9.9	8.1	9.2	9.9
71°	7.9	9.4	10.9	10.2	8.6	10.2	11.2	9.7	7.6	8.6	9.4
71.5°	7.6	9.2	10.4	9.7	8.1	9.7	10.7	9.2	7.4	8.4	8.9
72°	7.1	8.6	10.2	9.4	7.9	9.2	10.2	8.9	6.9	7.9	8.6
72.5°	6.9	8.4	9.7	8.9	7.4	8.9	9.7	8.4	6.6	7.6	8.1
73°	6.6	7.9	9.2	8.6	7.1	8.4	9.4	8.1	6.4	7.4	7.9
73.5°	6.1	7.6	8.9	8.1	6.9	8.1	8.9	7.6	6.1	6.9	7.4
74°	5.8	7.1	8.4	7.9	6.6	7.9	8.6	7.4	5.6	6.6	7.1
74.5°	5.6	6.9	7.9	7.4	6.1	7.4	8.1	7.1	5.3	6.4	6.6
75°	5.3	6.6	7.6	7.1	5.8	7.1	7.9	6.6	5.1	5.8	6.4
75.5°	5.1	6.1	7.1	6.9	5.6	6.9	7.4	6.4	4.8	5.6	6.1
76°	4.8	5.8	6.9	6.6	5.3	6.6	7.1	6.1	4.6	5.3	5.6
76.5°	4.6	5.6	6.6	6.1	5.1	6.1	6.6	5.6	4.3	5.1	5.3
77°	4.3	5.3	6.1	5.8	4.8	5.8	6.4	5.3	4.1	4.8	5.1
77.5°	4.1	5.1	5.8	5.6	4.6	5.6	6.1	5.1	3.8	4.6	4.8
78°	3.8	4.8	5.6	5.3	4.3	5.3	5.6	4.8	3.6	4.3	4.3
78.5°	3.6	4.3	5.1	5.1	4.1	5.1	5.3	4.6	3.3	3.8	4.1
79°	3.3	4.1	4.8	4.6	3.8	4.8	5.1	4.3	3.3	3.6	3.8
79.5°	3.1	3.8	4.6	4.3	3.6	4.6	4.8	4.1	3.1	3.3	3.6
80°	2.8	3.6	4.3	4.1	3.3	4.1	4.3	3.8	2.8	3.1	3.3
80.5°	2.5	3.3	4.1	3.8	3.3	3.8	4.1	3.3	2.5	2.8	3.1
81°	2.3	3.1	3.8	3.6	3.1	3.6	3.8	3.1	2.3	2.5	2.8
81.5°	2.3	2.8	3.3	3.3	2.8	3.6	3.6	3.1	2.3	2.5	2.5
82°	2.0	2.5	3.1	3.1	2.5	3.3	3.3	2.8	2.0	2.3	2.3
82.5°	1.8	2.3	2.8	2.8	2.3	3.1	3.1	2.5	1.8	2.0	2.0
83°	1.5	2.0	2.5	2.5	2.3	2.8	2.8	2.3	1.5	1.8	1.8
83.5°	1.5	1.8	2.3	2.3	2.0	2.5	2.5	2.0	1.5	1.5	1.5
84°	1.3	1.8	2.0	2.3	1.8	2.3	2.3	1.8	1.3	1.3	1.3
84.5°	1.0	1.5	1.8	2.0	1.8	2.0	2.0	1.5	1.0	1.0	1.3
85°	1.0	1.3	1.5	1.8	1.5	1.8	1.8	1.3	1.0	1.0	1.0
85.5°	0.8	1.0	1.5	1.5	1.5	1.8	1.5	1.0	0.8	0.8	0.8
86°	0.5	0.8	1.3	1.3	1.3	1.5	1.3	1.0	0.8	0.5	0.5
86.5°	0.5	0.5	1.0	1.3	1.0	1.3	1.3	0.8	0.5	0.5	0.5
87°	0.3	0.5	0.8	1.0	1.0	1.0	1.0	0.5	0.5	0.3	0.3
87.5°	0.3	0.3	0.8	0.8	0.8	1.0	0.8	0.5	0.3	0.3	0.3
88°	0.3	0.3	0.5	0.8	0.8	0.8	0.8	0.3	0.3	0.0	0.0
88.5°	0.0	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.0	0.0



TEST NUMBER: P776183
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-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	0.3	0.0	0.3	0.0	0.0	0.0	0.0



TEST NUMBER: P776183

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1
0.5°	1847.6	1845.8	1846.5	1847.6	1848.1	1847.6
1°	1846.0	1844.0	1844.8	1845.8	1846.8	1846.5
1.5°	1844.3	1842.0	1842.7	1844.0	1845.0	1845.5
2°	1842.5	1839.9	1840.4	1842.0	1843.2	1844.3
2.5°	1840.4	1837.6	1838.2	1839.7	1841.2	1842.7
3°	1838.4	1834.8	1835.6	1836.9	1839.2	1840.9
3.5°	1835.6	1831.8	1832.3	1834.3	1836.6	1838.9
4°	1832.8	1828.2	1829.0	1831.3	1834.3	1836.9
4.5°	1829.5	1824.2	1824.9	1827.7	1831.5	1834.6
5°	1825.7	1819.8	1820.6	1824.2	1828.2	1831.8
5.5°	1821.6	1814.8	1815.8	1820.4	1824.9	1828.7
6°	1817.1	1809.9	1811.0	1816.0	1821.1	1825.2
6.5°	1812.2	1804.1	1805.4	1811.2	1817.1	1821.1
7°	1807.1	1798.2	1799.5	1806.1	1812.2	1816.5
7.5°	1801.3	1791.9	1793.2	1800.5	1807.1	1811.7
8°	1795.4	1785.5	1786.8	1794.7	1801.5	1806.1
8.5°	1789.3	1778.7	1780.2	1788.3	1795.2	1800.3
9°	1783.0	1771.5	1773.3	1781.5	1788.8	1794.4
9.5°	1776.4	1764.2	1766.0	1774.3	1782.0	1787.8
10°	1769.8	1756.8	1758.6	1766.7	1775.1	1781.5
10.5°	1762.4	1748.7	1750.7	1758.8	1767.7	1774.6
11°	1755.0	1740.3	1742.6	1750.5	1760.1	1767.2
11.5°	1747.4	1731.9	1734.2	1742.1	1752.0	1759.6
12°	1739.3	1722.7	1725.3	1733.2	1743.6	1751.5
12.5°	1730.6	1713.3	1716.1	1723.8	1734.7	1743.3
13°	1722.0	1703.7	1706.7	1714.4	1725.8	1734.7
13.5°	1712.6	1693.5	1696.8	1704.9	1716.4	1725.5
14°	1703.2	1683.3	1686.4	1694.8	1706.7	1716.1
14.5°	1693.5	1673.2	1676.0	1684.4	1696.3	1706.2
15°	1683.3	1662.2	1665.0	1673.9	1686.1	1696.6
15.5°	1673.2	1650.8	1654.1	1662.7	1675.2	1685.9
16°	1662.5	1639.6	1642.7	1651.6	1664.0	1675.2
16.5°	1651.6	1628.2	1631.2	1640.1	1652.8	1664.5
17°	1640.1	1616.2	1619.0	1627.9	1641.4	1653.3
17.5°	1628.7	1604.0	1606.8	1615.7	1629.2	1641.7
18°	1616.7	1591.1	1594.1	1603.0	1617.2	1630.0
18.5°	1604.5	1578.4	1581.4	1590.3	1604.5	1617.8
19°	1592.3	1565.1	1568.2	1577.3	1591.8	1605.3
19.5°	1579.4	1551.7	1554.5	1564.1	1578.9	1592.8
20°	1566.7	1537.9	1541.0	1550.4	1565.6	1579.9
20.5°	1553.2	1524.2	1526.8	1536.7	1552.2	1566.4
21°	1539.5	1510.2	1512.5	1522.7	1537.9	1552.7



TEST NUMBER: P776183

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1497.5	1467.3	1468.5	1479.0	1495.0	1510.5
23°	1483.3	1452.3	1453.3	1464.2	1479.7	1496.0
23.5°	1468.8	1437.3	1438.8	1449.2	1464.7	1481.5
24°	1454.3	1421.3	1423.0	1433.7	1449.7	1466.8
24.5°	1439.1	1405.0	1407.8	1418.0	1434.2	1451.8
25°	1424.1	1387.4	1391.8	1401.9	1418.7	1436.5
25.5°	1408.5	1369.9	1375.5	1386.2	1402.7	1420.2
26°	1392.8	1351.9	1358.2	1370.2	1386.9	1403.5
26.5°	1375.5	1333.6	1341.2	1353.9	1370.9	1386.4
27°	1358.2	1314.5	1323.1	1336.9	1354.4	1368.9
27.5°	1340.7	1295.4	1304.8	1320.1	1337.4	1350.8
28°	1322.4	1275.6	1285.8	1303.3	1319.6	1332.5
28.5°	1303.8	1255.8	1267.2	1285.8	1301.5	1314.0
29°	1285.0	1235.4	1248.1	1269.2	1283.5	1294.4
29.5°	1266.4	1215.9	1228.8	1252.2	1265.2	1275.3
30°	1246.9	1195.5	1209.0	1234.7	1245.6	1255.8
30.5°	1227.3	1174.7	1189.4	1216.9	1226.8	1235.7
31°	1207.5	1153.6	1169.3	1199.8	1207.5	1215.6
31.5°	1187.4	1133.2	1149.3	1181.8	1188.2	1195.3
32°	1167.6	1112.1	1128.9	1163.7	1168.1	1175.2
32.5°	1148.0	1090.8	1109.1	1144.9	1149.0	1154.6
33°	1127.6	1069.4	1088.8	1127.1	1129.4	1133.5
33.5°	1107.1	1047.3	1068.4	1108.6	1109.3	1112.4
34°	1086.5	1026.2	1047.6	1089.8	1089.5	1091.3
34.5°	1065.9	1004.4	1026.5	1070.5	1069.7	1069.4
35°	1045.3	983.8	1005.9	1051.1	1049.6	1047.3
35.5°	1025.0	959.1	985.0	1032.1	1030.0	1026.5
36°	1003.9	926.3	963.9	1012.7	1009.4	1004.1
36.5°	983.3	887.2	943.4	993.4	989.1	984.5
37°	962.7	846.8	923.5	973.9	968.8	952.5
37.5°	942.1	807.4	901.7	954.5	948.4	920.2
38°	923.3	765.9	870.1	935.5	928.1	878.0
38.5°	891.5	725.0	833.3	916.7	907.0	839.1
39°	856.7	682.5	795.7	898.4	889.0	799.7
39.5°	818.8	640.1	758.5	879.5	857.2	759.8
40°	780.9	599.4	721.2	861.2	824.6	717.4
40.5°	743.3	559.2	683.0	843.4	787.0	675.7
41°	704.1	521.1	643.1	825.9	750.2	633.2
41.5°	664.7	484.0	603.5	808.4	714.8	591.8
42°	624.1	446.9	565.1	790.8	679.2	552.4
42.5°	585.2	409.5	528.7	774.1	642.1	515.5
43°	547.0	373.7	493.2	757.0	603.7	478.7
43.5°	510.7	339.4	457.8	740.2	565.4	441.0



TEST NUMBER: P776183

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	404.2	244.0	354.9	689.4	459.3	333.5
45.5°	369.6	215.3	322.1	664.0	425.0	301.0
46°	335.3	187.6	291.8	636.8	391.2	270.0
46.5°	303.5	163.5	261.3	605.0	357.9	239.0
47°	273.3	141.6	232.3	576.0	325.4	210.2
47.5°	245.6	122.8	204.1	540.7	294.4	183.8
48°	218.1	107.0	178.5	504.8	264.4	159.6
48.5°	190.4	94.1	155.1	463.4	235.6	138.8
49°	162.9	83.9	134.0	425.0	208.2	120.7
49.5°	140.3	73.7	115.4	386.9	182.0	105.5
50°	121.0	63.6	100.4	351.8	157.9	92.5
50.5°	104.0	53.4	86.9	317.8	135.7	82.4
51°	90.2	43.2	77.0	286.7	116.9	71.9
51.5°	78.5	36.4	67.1	256.0	101.2	61.8
52°	68.4	34.1	57.2	228.3	87.2	51.6
52.5°	58.7	32.5	47.3	201.1	77.0	41.4
53°	49.1	31.3	38.4	176.4	66.6	36.1
53.5°	39.9	30.0	31.5	153.3	56.4	34.3
54°	32.8	28.7	29.2	133.2	46.0	33.0
54.5°	29.2	27.5	28.2	114.4	37.1	31.8
55°	28.2	26.4	27.2	98.1	30.8	30.5
55.5°	27.2	25.4	26.2	86.7	29.0	29.2
56°	26.2	24.4	25.2	75.5	28.0	28.0
56.5°	25.2	23.4	24.1	64.3	26.9	26.9
57°	24.4	22.4	23.4	52.9	25.9	25.9
57.5°	23.4	21.4	22.4	41.9	24.9	24.9
58°	22.6	20.6	21.6	36.1	24.1	23.9
58.5°	21.9	19.8	20.8	31.3	23.4	22.9
59°	21.1	19.1	20.1	27.5	22.6	21.9
59.5°	20.3	18.3	19.3	24.4	21.9	21.1
60°	19.6	17.5	18.8	22.1	21.1	20.3
60.5°	19.1	16.8	18.0	20.8	20.3	19.6
61°	18.3	16.0	17.5	20.1	19.6	18.8
61.5°	17.5	15.5	16.8	19.3	18.8	18.0
62°	17.0	14.7	16.3	18.6	18.3	17.3
62.5°	16.3	14.2	15.5	18.0	17.5	16.5
63°	15.8	13.5	15.0	17.3	17.0	15.8
63.5°	15.3	13.0	14.5	16.8	16.3	15.3
64°	14.5	12.5	14.0	16.3	15.8	14.5
64.5°	14.0	11.9	13.5	15.5	15.3	14.0
65°	13.5	11.4	13.0	15.0	14.7	13.5
65.5°	13.0	10.9	12.5	14.5	14.0	13.0
66°	12.5	10.4	11.9	14.0	13.5	12.2



TEST NUMBER: P776183

CATALOG NUMBER: HCDJBL1525CSD-HCD8TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776183
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-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

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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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°	1538.7	1570.2	1603.3	1628.9	1642.4	1650.3	1646.0	1628.4	1598.4	1575.0	1550.4
22°	1524.7	1556.7	1590.6	1617.2	1631.2	1639.1	1634.8	1616.7	1586.2	1562.6	1536.9



44°	403.2	559.2	851.6	742.8	622.5	768.2	922.0	682.5	490.6	593.1	784.0
44.5°	367.8	522.1	834.3	703.6	581.1	727.5	904.7	642.6	454.0	555.2	767.4



66.5°	11.7	13.5	15.5	14.5	12.7	14.2	15.8	13.7	11.4	12.7	13.5
67°	11.2	13.0	15.0	14.0	12.2	13.7	15.3	13.2	10.9	12.2	13.0



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

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21.5°	1525.5	1496.0	1498.0	1508.4	1523.7	1538.7
22°	1511.8	1481.5	1483.3	1494.0	1509.2	1524.7



44°	474.1	305.8	423.0	723.5	528.0	403.2
44.5°	439.0	275.3	388.7	706.4	493.7	367.8



66.5°	11.9	9.9	11.4	13.5	13.0	11.7
67°	11.7	9.7	11.2	13.0	12.5	11.2

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1121 Highway 74 South
Peachtree City, GA 30269

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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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)