

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: P775927

Luminaire Tested: HCDJBS1525CSD-HCD41TRC-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B028)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD41TRC-2500lm-3500K
Description: 4 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

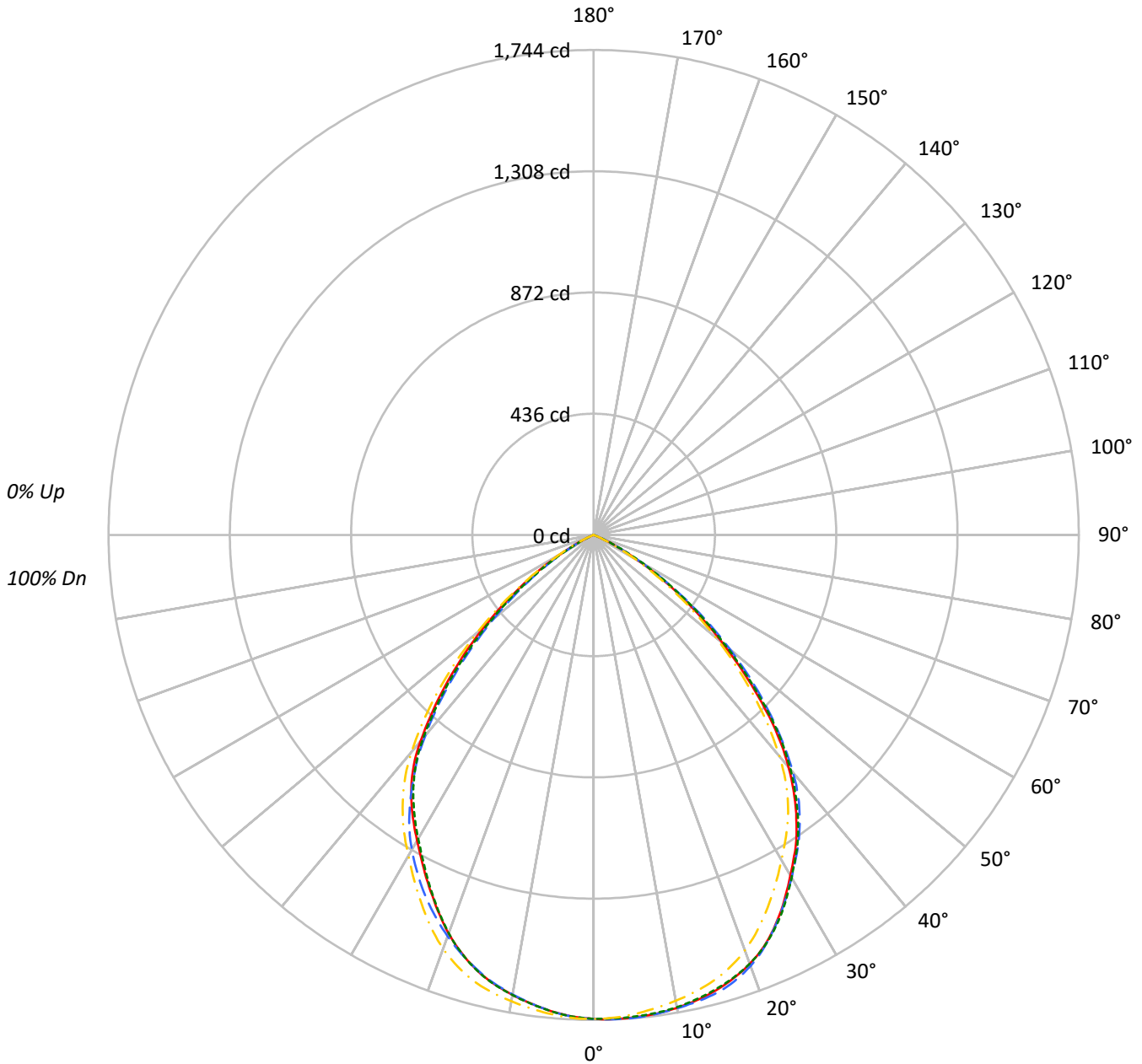
Lumens per Lamp: N/A
Luminaire Lumens: 3034.8 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.22
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	100	100		
	1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91	91	91	91	91	91		
	2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81	81	81	81	81	81		
	3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72	72	72		
	4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64	64	64		
	5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58	58	58		
	6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52	52	52		
	7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47	47	47		
	8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43	43	43	43	43	43		
	9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39	39	39	39	39		
	10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36	36	36	36	36	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	219042	219042	219042	219042
5°	219967	219588	217301	217339
10°	220721	220325	214651	214753
15°	220971	220489	211173	211264
20°	219827	219760	204225	204024
25°	214747	215511	194126	193501
30°	205553	206832	184482	183276
35°	195346	196928	175650	173653
40°	179054	180944	158979	156630
45°	152545	155179	131508	128020
50°	118393	121525	100165	95838
55°	83070	86427	67052	62423
60°	47873	51145	34609	30556
65°	16646	18909	9410	7474
70°	552	1214	552	478
75°	486	632	486	486
80°	362	580	362	362
85°	0	433	0	433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 157280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	5.4
10°-20°	467.1	15.4
20°-30°	677.8	22.3
30°-40°	751.7	24.8
40°-50°	610.3	20.1
50°-60°	306.4	10.1
60°-70°	55.7	1.8
70°-80°	1.2	0.0
80°-90°	0.3	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°	1309.2	43.1
0°-40°	2060.9	67.9
0°-60°	2977.7	98.1
0°-90°	3034.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1740	1740	1740	1740	1740	
5°	1741	1738	1720	1720	1741	166
15°	1696	1692	1621	1622	1696	478
25°	1546	1552	1398	1394	1546	710
35°	1272	1282	1143	1130	1272	790
45°	857	872	739	719	857	656
55°	379	394	306	284	379	341
65°	56	64	32	25	56	66
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5
0.5°	1741.2	1741.2	1741.5	1742.0	1740.0	1740.5	1740.7	1740.7	1739.5	1739.2	1739.7
1°	1742.0	1742.0	1742.2	1742.5	1740.5	1740.2	1740.2	1740.2	1738.5	1737.9	1738.7
1.5°	1742.5	1742.5	1743.0	1743.0	1740.7	1740.0	1739.5	1738.7	1737.2	1736.7	1737.4
2°	1742.7	1743.0	1743.2	1743.2	1740.5	1739.5	1738.5	1736.9	1735.7	1734.9	1735.7
2.5°	1742.7	1743.5	1743.7	1743.2	1740.0	1738.2	1736.2	1733.4	1731.7	1730.9	1731.9
3°	1742.7	1743.5	1743.7	1743.0	1740.0	1737.2	1734.4	1731.2	1728.9	1728.2	1729.4
3.5°	1742.2	1743.2	1743.5	1743.0	1739.2	1736.4	1732.7	1728.9	1726.2	1725.7	1726.7
4°	1741.7	1743.0	1743.2	1742.5	1738.7	1735.2	1730.9	1726.4	1723.1	1722.4	1723.4
4.5°	1741.2	1742.2	1742.5	1742.0	1738.2	1734.2	1728.7	1723.4	1720.1	1719.1	1720.1
5°	1740.2	1741.7	1741.7	1741.0	1737.4	1732.7	1726.4	1720.4	1716.4	1715.6	1716.6
5.5°	1739.2	1740.7	1740.7	1740.2	1736.7	1731.2	1723.9	1717.1	1712.9	1712.1	1712.9
6°	1738.5	1739.7	1739.5	1739.0	1735.7	1729.7	1721.4	1713.9	1709.3	1708.3	1709.1
6.5°	1737.2	1738.5	1738.5	1737.7	1734.7	1727.7	1718.6	1710.4	1705.3	1704.3	1705.1
7°	1736.2	1736.9	1736.9	1736.4	1733.2	1725.9	1715.9	1706.8	1701.3	1700.3	1700.6
7.5°	1734.7	1735.2	1735.4	1734.9	1731.9	1723.9	1713.1	1703.3	1697.3	1696.0	1696.6
8°	1732.9	1733.4	1733.7	1733.2	1730.4	1721.6	1710.4	1699.8	1693.0	1691.8	1691.8
8.5°	1731.2	1731.7	1731.9	1731.2	1728.4	1719.4	1707.3	1695.8	1689.0	1687.5	1687.3
9°	1729.2	1729.4	1730.2	1728.9	1726.4	1717.1	1704.1	1692.0	1684.5	1683.0	1682.8
9.5°	1727.2	1727.2	1728.4	1726.7	1724.1	1714.4	1701.1	1688.0	1679.7	1678.7	1678.0
10°	1724.7	1724.9	1726.7	1724.7	1721.9	1711.4	1697.6	1684.0	1675.2	1674.5	1673.2
10.5°	1722.1	1722.4	1724.9	1722.1	1719.1	1708.1	1694.0	1679.7	1670.2	1669.7	1667.9
11°	1719.4	1719.6	1722.6	1719.4	1716.1	1704.6	1690.5	1675.5	1665.2	1664.9	1662.7
11.5°	1716.9	1717.1	1720.9	1716.6	1713.1	1701.3	1686.8	1671.2	1659.7	1659.9	1657.4
12°	1713.9	1714.4	1718.6	1713.4	1710.1	1697.6	1683.0	1666.7	1654.2	1654.9	1651.9
12.5°	1710.9	1711.6	1716.6	1710.1	1706.8	1693.8	1679.2	1662.2	1648.4	1649.4	1645.9
13°	1707.3	1708.3	1714.1	1706.6	1703.3	1689.5	1675.0	1657.4	1642.1	1643.9	1639.6
13.5°	1703.8	1704.8	1711.6	1703.1	1699.8	1685.5	1670.5	1652.1	1635.6	1638.1	1632.8
14°	1700.3	1701.1	1708.6	1699.3	1696.0	1681.0	1665.7	1646.4	1628.6	1631.6	1626.0
14.5°	1696.0	1697.3	1705.6	1695.0	1692.3	1676.2	1660.7	1640.6	1620.8	1625.0	1619.0
15°	1691.8	1692.8	1701.8	1690.5	1688.3	1671.5	1655.4	1634.1	1612.8	1618.0	1611.5
15.5°	1687.3	1687.8	1698.1	1685.5	1683.8	1666.2	1649.6	1627.6	1604.5	1610.2	1603.5
16°	1682.3	1682.5	1693.3	1680.2	1679.2	1660.4	1643.4	1620.3	1595.7	1602.5	1595.9
16.5°	1677.0	1677.0	1688.3	1674.5	1674.5	1654.7	1636.6	1613.0	1586.4	1594.4	1588.2
17°	1671.5	1671.2	1682.8	1668.7	1669.5	1648.1	1629.6	1605.0	1577.1	1585.7	1579.9
17.5°	1666.2	1665.2	1677.0	1662.4	1664.2	1641.9	1622.8	1596.2	1567.6	1576.6	1571.6
18°	1660.4	1658.9	1670.7	1655.9	1658.7	1634.8	1615.0	1587.7	1557.6	1566.6	1562.8
18.5°	1654.7	1652.4	1663.9	1649.4	1653.1	1628.1	1607.0	1578.4	1547.0	1556.8	1554.0
19°	1648.4	1645.6	1656.9	1642.6	1647.1	1620.8	1598.5	1568.6	1536.2	1546.5	1545.0
19.5°	1641.4	1638.3	1649.6	1635.3	1640.9	1613.0	1589.7	1558.6	1524.9	1535.7	1536.0
20°	1634.3	1630.8	1641.4	1627.6	1633.8	1605.0	1580.4	1547.5	1513.6	1523.9	1526.2
20.5°	1626.6	1622.8	1632.8	1619.8	1626.8	1596.4	1570.6	1536.2	1501.1	1512.1	1516.4

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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°	1600.7	1596.4	1604.2	1593.4	1602.7	1568.1	1538.7	1499.3	1463.2	1474.3	1485.8
23°	1591.2	1586.9	1593.4	1584.2	1593.4	1558.1	1527.2	1486.8	1450.2	1461.0	1475.3
23.5°	1580.6	1577.1	1582.6	1574.6	1583.6	1547.5	1515.7	1473.5	1437.1	1447.7	1465.0
24°	1569.8	1567.1	1571.4	1564.8	1573.6	1536.7	1503.4	1460.2	1423.8	1434.4	1454.4
24.5°	1558.6	1557.1	1560.1	1555.0	1563.1	1525.4	1491.3	1446.7	1411.0	1420.6	1443.6
25°	1546.5	1546.8	1548.5	1545.3	1552.0	1514.7	1479.0	1433.1	1398.0	1407.0	1432.4
25.5°	1534.7	1536.2	1536.7	1535.0	1540.5	1503.1	1466.7	1419.1	1384.9	1393.2	1420.8
26°	1522.4	1525.7	1524.4	1524.7	1529.0	1491.6	1454.2	1406.0	1372.1	1379.7	1409.0
26.5°	1509.9	1515.2	1512.4	1514.4	1516.9	1479.8	1441.4	1392.5	1359.1	1365.6	1397.0
27°	1496.8	1504.4	1500.1	1503.6	1504.1	1467.5	1428.8	1378.9	1346.1	1351.6	1384.7
27.5°	1483.3	1493.3	1487.6	1492.3	1491.3	1454.9	1416.1	1365.4	1332.8	1338.0	1371.9
28°	1469.7	1481.8	1474.8	1481.0	1478.0	1442.4	1403.0	1351.8	1319.7	1324.5	1359.3
28.5°	1455.9	1470.2	1461.7	1469.2	1464.2	1429.6	1390.0	1338.3	1307.2	1311.2	1346.3
29°	1442.1	1458.2	1448.4	1457.2	1450.7	1416.6	1376.4	1325.0	1294.4	1298.1	1333.3
29.5°	1428.6	1446.4	1435.9	1445.2	1437.1	1403.8	1363.4	1311.9	1281.8	1284.8	1320.2
30°	1414.5	1434.6	1423.1	1432.6	1423.3	1390.7	1350.3	1298.9	1269.5	1271.8	1306.9
30.5°	1401.0	1422.3	1410.0	1420.1	1409.0	1377.9	1337.3	1285.8	1257.5	1259.0	1293.9
31°	1387.4	1409.8	1396.7	1407.5	1395.5	1365.4	1324.5	1273.5	1245.4	1246.4	1280.1
31.5°	1374.4	1397.5	1384.4	1394.5	1382.2	1352.3	1311.7	1261.5	1233.1	1233.7	1265.5
32°	1360.4	1384.9	1371.6	1381.9	1368.9	1339.5	1299.1	1249.2	1221.1	1221.4	1250.2
32.5°	1347.6	1372.4	1359.3	1368.9	1355.3	1327.0	1286.6	1236.7	1209.3	1208.3	1234.4
33°	1333.8	1358.8	1346.1	1355.8	1342.3	1314.2	1273.8	1224.1	1196.5	1195.0	1217.3
33.5°	1319.2	1344.8	1333.3	1341.8	1328.0	1301.1	1260.2	1211.1	1183.5	1181.0	1199.8
34°	1303.4	1329.2	1319.5	1326.7	1313.4	1286.8	1246.7	1198.0	1170.4	1167.2	1182.2
34.5°	1287.6	1313.4	1304.9	1310.7	1297.9	1272.5	1232.6	1184.5	1156.9	1152.6	1163.9
35°	1271.5	1296.6	1290.1	1294.1	1281.8	1257.0	1218.3	1170.7	1143.3	1138.1	1145.6
35.5°	1255.0	1279.8	1275.5	1277.6	1265.5	1241.7	1203.5	1156.6	1129.3	1122.8	1127.3
36°	1238.4	1262.5	1260.5	1259.7	1249.5	1225.9	1187.7	1142.3	1114.7	1107.5	1108.5
36.5°	1221.6	1244.9	1244.7	1242.2	1231.4	1208.8	1171.7	1127.3	1099.7	1090.9	1089.4
37°	1203.5	1226.6	1227.9	1223.9	1214.1	1191.2	1154.9	1111.5	1083.9	1074.3	1070.3
37.5°	1185.7	1207.8	1211.6	1205.3	1195.8	1173.2	1137.8	1095.7	1067.6	1057.0	1051.0
38°	1166.7	1188.2	1193.8	1186.2	1177.2	1154.9	1120.2	1078.1	1050.2	1037.7	1031.2
38.5°	1147.8	1168.7	1175.2	1166.7	1158.6	1136.3	1100.9	1059.3	1031.7	1017.1	1009.9
39°	1129.5	1149.3	1156.6	1147.3	1140.3	1117.0	1080.9	1040.0	1011.4	996.1	986.8
39.5°	1109.7	1128.8	1136.6	1127.0	1121.0	1097.4	1060.5	1019.4	990.0	974.7	964.2
40°	1089.9	1107.5	1114.7	1105.9	1101.4	1076.6	1039.5	998.3	967.7	952.4	941.4
40.5°	1068.8	1085.4	1092.6	1083.9	1080.9	1055.3	1017.6	977.0	945.4	928.8	918.0
41°	1048.7	1063.0	1070.3	1061.5	1060.5	1033.4	995.3	954.9	922.8	905.5	894.9
41.5°	1026.9	1040.2	1047.2	1039.0	1039.2	1011.1	973.2	932.8	899.7	882.4	871.1
42°	1004.8	1017.4	1024.4	1016.6	1017.6	988.0	950.9	910.2	877.1	858.1	847.3
42.5°	981.0	994.0	1001.6	994.0	994.5	965.2	928.1	887.4	854.0	833.5	822.9
43°	958.2	971.0	978.5	970.7	971.5	942.4	905.2	864.3	831.2	809.4	799.1
43.5°	933.6	947.4	954.9	947.6	946.6	918.3	881.6	841.8	808.1	785.3	774.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	857.1	875.6	883.7	876.6	871.9	845.5	810.1	772.0	738.9	713.0	702.3
45.5°	831.2	851.5	859.6	853.8	845.8	820.4	786.3	749.7	715.8	689.5	678.7
46°	805.4	827.5	835.5	829.7	819.9	794.8	762.0	726.3	692.5	665.6	654.3
46.5°	779.0	802.9	811.4	804.9	794.3	769.7	738.1	703.5	669.9	642.5	630.5
47°	753.4	778.3	786.8	779.8	768.7	744.7	713.5	680.2	646.6	619.5	606.4
47.5°	728.1	752.9	762.2	755.7	743.2	719.3	689.5	657.3	623.7	595.9	583.1
48°	702.8	728.1	738.1	731.1	718.6	694.0	665.1	634.0	601.1	573.3	559.5
48.5°	677.4	703.3	713.3	706.3	694.0	668.6	641.8	611.4	578.6	551.2	536.4
49°	653.6	678.7	689.2	681.4	669.4	644.3	617.7	588.1	555.7	528.4	513.6
49.5°	628.7	654.1	664.9	656.8	644.8	620.0	594.1	565.3	533.7	506.3	491.3
50°	604.7	629.2	640.3	632.0	620.7	595.6	570.5	542.2	511.6	484.5	468.7
50.5°	580.3	604.2	615.9	607.7	597.4	571.0	547.2	519.6	490.0	463.2	447.1
51°	557.0	580.1	590.9	582.8	573.5	547.5	523.9	497.3	467.9	441.3	425.8
51.5°	533.4	556.5	567.0	559.2	550.2	524.6	501.0	475.2	446.8	420.5	405.2
52°	510.8	532.6	542.9	535.7	527.1	501.3	478.5	453.4	426.0	399.9	384.6
52.5°	487.5	508.8	519.1	512.3	503.8	479.2	456.1	431.0	404.9	379.9	364.6
53°	465.4	485.5	495.3	489.0	481.2	456.4	433.5	409.7	384.4	359.3	345.0
53.5°	442.6	462.7	470.9	465.7	458.9	434.3	412.0	388.9	364.0	339.7	326.4
54°	421.3	440.1	447.3	442.6	436.8	412.5	390.6	368.1	344.0	320.4	307.6
54.5°	399.9	417.2	424.3	420.5	415.0	391.6	369.6	347.7	324.4	301.6	289.0
55°	378.6	395.9	401.9	398.4	393.9	370.8	349.2	327.4	305.6	283.0	271.5
55.5°	357.5	374.1	379.1	377.1	373.3	350.0	328.7	307.6	286.5	265.2	254.2
56°	337.5	352.8	357.3	355.8	352.0	329.9	308.6	288.5	268.2	247.6	238.1
56.5°	317.6	331.7	335.9	334.4	331.7	310.1	289.5	270.0	250.1	231.6	222.3
57°	297.6	311.6	314.9	314.4	311.6	291.0	270.5	251.1	233.6	215.5	206.5
57.5°	278.5	291.8	294.0	294.3	292.5	272.5	251.9	234.1	217.0	199.5	190.4
58°	259.9	272.0	274.0	275.0	273.2	254.2	235.1	217.3	200.5	183.4	174.6
58.5°	241.9	253.2	254.9	255.9	254.7	237.3	218.3	200.2	183.9	167.1	160.3
59°	224.3	234.8	236.1	237.1	237.6	220.8	201.5	183.2	167.3	152.8	146.5
59.5°	206.7	217.0	218.0	219.3	220.3	204.0	184.7	166.3	152.0	138.7	132.7
60°	190.2	199.5	200.7	202.0	203.2	187.2	168.1	151.0	137.5	125.2	120.2
60.5°	173.9	182.4	183.7	185.2	185.9	170.6	153.3	136.5	123.7	112.7	107.9
61°	158.1	166.3	167.3	168.4	168.9	155.6	138.2	122.7	110.1	100.4	96.6
61.5°	143.5	150.8	152.3	153.0	153.3	140.8	124.7	109.4	97.6	89.1	85.8
62°	128.7	136.0	137.7	138.0	138.5	127.0	111.6	96.6	85.6	78.3	75.5
62.5°	114.9	121.4	123.7	123.7	123.9	113.4	99.1	84.8	74.3	68.0	66.0
63°	102.1	107.9	110.1	109.9	110.4	100.4	87.1	74.0	63.2	58.7	57.2
63.5°	89.6	95.1	97.8	96.8	97.6	88.3	76.3	63.5	53.7	49.9	48.9
64°	78.3	84.3	85.8	85.3	85.6	76.8	66.0	54.2	44.9	42.2	41.9
64.5°	67.0	73.8	75.8	75.0	74.0	66.2	56.5	45.2	36.9	35.4	35.1
65°	55.9	63.0	65.7	64.7	63.5	56.5	47.7	37.4	31.6	30.4	30.4
65.5°	44.7	52.2	55.7	54.4	53.7	47.2	39.4	32.1	26.6	25.6	25.6
66°	33.4	41.6	45.7	44.2	44.7	38.9	33.6	26.6	21.3	20.8	21.1



TEST NUMBER: P775927

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	11.3	20.1	23.6	22.6	25.3	21.6	16.8	10.3	7.5	8.0	8.3
68°	9.3	14.8	17.6	17.1	19.6	15.8	11.0	7.5	4.8	5.5	5.5
68.5°	7.3	10.5	12.5	12.3	14.1	10.0	7.5	5.0	2.8	3.5	3.5
69°	5.3	8.8	8.5	8.5	8.3	6.8	5.0	3.3	1.8	2.3	2.3
69.5°	3.3	7.0	6.8	6.8	5.3	4.3	2.8	2.0	1.5	1.5	1.5
70°	1.5	5.3	5.0	5.0	3.3	2.3	1.8	1.5	1.5	1.5	1.5
70.5°	1.3	3.3	3.3	3.3	2.0	1.5	1.5	1.3	1.3	1.5	1.5
71°	1.3	1.5	1.8	1.8	1.5	1.5	1.3	1.3	1.3	1.3	1.5
71.5°	1.3	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3
72°	1.3	1.3	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
73°	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.0	1.3	1.3	1.3
73.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.3	1.3
74°	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.3
74.5°	1.0	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.0
77°	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	1.0
77.5°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.8	0.8	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
79°	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
79.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
80°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
80.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
83°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.0	0.3	0.3
85°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
85.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
86°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
86.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775927
CATALOG NUMBER: HCDJBL1525CSD-HCD41TRC-2500lm-3500K

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	0.3	0.3



TEST NUMBER: P775927

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5
0.5°	1740.2	1739.0	1740.0	1740.7	1741.5	1741.2
1°	1739.2	1737.9	1739.5	1740.7	1742.0	1742.0
1.5°	1737.9	1736.7	1738.7	1740.7	1742.0	1742.5
2°	1736.7	1735.2	1737.4	1740.0	1741.7	1742.7
2.5°	1734.9	1733.4	1736.2	1739.0	1741.5	1742.7
3°	1732.9	1731.4	1734.2	1737.7	1741.0	1742.7
3.5°	1730.7	1729.2	1732.2	1736.2	1740.2	1742.7
4°	1727.9	1726.4	1729.9	1734.7	1739.2	1742.2
4.5°	1724.9	1723.6	1727.2	1732.7	1738.2	1741.7
5°	1721.6	1720.4	1724.4	1730.4	1737.2	1741.2
5.5°	1718.1	1716.9	1721.4	1728.2	1735.9	1740.2
6°	1714.4	1713.4	1718.1	1725.7	1734.4	1739.2
6.5°	1710.6	1709.6	1714.9	1723.1	1732.7	1738.5
7°	1706.6	1705.8	1711.6	1720.6	1731.2	1737.2
7.5°	1702.6	1701.8	1707.8	1717.9	1729.2	1736.2
8°	1698.6	1697.8	1704.3	1715.1	1727.4	1734.7
8.5°	1694.3	1693.8	1700.6	1712.4	1725.2	1732.9
9°	1690.0	1689.5	1696.8	1709.3	1722.6	1731.2
9.5°	1685.8	1685.0	1692.8	1706.1	1719.9	1729.2
10°	1681.5	1680.5	1688.5	1702.8	1717.1	1727.2
10.5°	1677.0	1676.0	1684.5	1699.6	1714.1	1724.7
11°	1672.5	1671.2	1680.2	1696.3	1710.9	1722.1
11.5°	1667.7	1665.9	1675.5	1692.8	1707.6	1719.4
12°	1662.9	1660.9	1671.0	1689.3	1704.3	1716.9
12.5°	1657.9	1655.2	1665.9	1685.3	1700.6	1713.9
13°	1652.6	1649.4	1660.7	1681.5	1696.6	1710.9
13.5°	1647.4	1642.9	1655.4	1677.0	1692.5	1707.3
14°	1641.4	1636.1	1649.4	1672.2	1688.0	1703.8
14.5°	1635.1	1629.1	1642.9	1667.2	1683.3	1700.3
15°	1628.6	1621.5	1636.1	1661.4	1678.2	1696.0
15.5°	1621.3	1613.5	1628.8	1655.4	1672.5	1691.8
16°	1613.8	1605.0	1621.0	1649.1	1666.7	1687.3
16.5°	1605.7	1596.2	1612.8	1642.4	1660.2	1682.3
17°	1597.4	1586.9	1604.2	1635.1	1653.9	1677.0
17.5°	1588.9	1577.4	1595.2	1627.3	1647.1	1671.5
18°	1579.6	1567.3	1585.9	1619.5	1640.1	1666.2
18.5°	1570.1	1557.1	1576.6	1611.0	1632.8	1660.4
19°	1560.1	1546.5	1566.3	1602.2	1625.5	1654.7
19.5°	1549.5	1535.2	1555.8	1592.9	1617.8	1648.4
20°	1538.5	1523.4	1544.8	1583.1	1609.7	1641.4
20.5°	1526.9	1511.6	1533.5	1573.1	1601.0	1634.3
21°	1515.2	1499.1	1521.7	1562.3	1591.7	1626.6



TEST NUMBER: P775927

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1477.0	1460.7	1484.3	1527.9	1562.6	1600.7
23°	1463.7	1447.2	1471.0	1515.4	1552.0	1591.2
23.5°	1450.2	1433.9	1458.2	1502.9	1541.5	1580.6
24°	1436.6	1420.6	1444.9	1490.3	1530.2	1569.8
24.5°	1422.6	1407.0	1431.6	1477.3	1518.7	1558.6
25°	1408.8	1393.5	1418.3	1464.0	1506.9	1546.5
25.5°	1395.0	1379.9	1405.3	1451.2	1495.6	1534.7
26°	1380.7	1366.6	1391.5	1438.1	1483.5	1522.4
26.5°	1366.4	1352.8	1378.2	1425.1	1471.2	1509.9
27°	1352.3	1339.3	1364.6	1411.5	1459.0	1496.8
27.5°	1338.5	1325.7	1351.3	1398.2	1446.4	1483.3
28°	1324.7	1312.7	1337.5	1384.7	1433.4	1469.7
28.5°	1311.2	1299.6	1324.7	1371.4	1420.6	1455.9
29°	1297.4	1286.1	1311.7	1358.1	1407.3	1442.1
29.5°	1284.1	1273.5	1298.6	1345.3	1394.2	1428.6
30°	1271.3	1261.2	1285.6	1332.3	1381.2	1414.5
30.5°	1258.7	1248.7	1273.3	1319.5	1368.6	1401.0
31°	1245.9	1236.4	1261.0	1306.7	1356.1	1387.4
31.5°	1232.9	1223.6	1248.2	1294.4	1343.0	1374.4
32°	1220.4	1211.3	1235.7	1281.1	1330.0	1360.4
32.5°	1207.6	1198.8	1223.1	1268.5	1317.2	1347.6
33°	1193.8	1185.5	1210.1	1255.5	1304.2	1333.8
33.5°	1179.7	1172.2	1196.5	1241.4	1290.1	1319.2
34°	1165.7	1158.1	1183.0	1227.1	1275.0	1303.4
34.5°	1151.4	1144.3	1168.7	1212.6	1259.2	1287.6
35°	1136.3	1130.3	1154.4	1197.5	1243.4	1271.5
35.5°	1121.5	1116.0	1140.1	1182.5	1227.1	1255.0
36°	1105.4	1100.7	1125.5	1166.7	1210.6	1238.4
36.5°	1089.1	1085.1	1110.2	1151.1	1193.3	1221.6
37°	1071.6	1069.1	1093.9	1134.3	1175.4	1203.5
37.5°	1054.5	1052.8	1077.6	1116.5	1156.9	1185.7
38°	1035.9	1035.2	1060.5	1098.7	1138.1	1166.7
38.5°	1015.6	1016.4	1042.2	1080.4	1119.2	1147.8
39°	994.5	996.6	1022.6	1060.5	1099.7	1129.5
39.5°	973.2	975.5	1001.8	1039.5	1079.9	1109.7
40°	949.9	953.4	980.2	1017.6	1059.0	1089.9
40.5°	926.6	930.6	958.4	995.8	1037.7	1068.8
41°	902.7	907.2	936.1	973.5	1015.1	1048.7
41.5°	879.1	883.4	913.0	951.1	992.0	1026.9
42°	854.8	860.8	890.7	928.3	970.0	1004.8
42.5°	830.5	837.0	867.6	905.0	946.9	981.0
43°	806.1	813.9	844.8	881.6	923.5	958.2
43.5°	782.5	789.3	821.4	858.1	899.0	933.6

TEST NUMBER: P775927

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	708.3	719.3	751.7	786.3	825.9	857.1
45.5°	684.9	695.5	728.6	762.5	801.1	831.2
46°	660.4	672.4	705.8	738.6	776.0	805.4
46.5°	636.5	649.1	682.2	713.8	750.4	779.0
47°	612.9	626.0	659.1	690.0	725.3	753.4
47.5°	590.1	602.1	635.5	665.9	700.2	728.1
48°	566.8	579.6	612.2	642.0	675.2	702.8
48.5°	544.2	556.5	588.6	617.7	649.8	677.4
49°	521.4	534.2	565.5	594.9	625.5	653.6
49.5°	500.3	511.8	542.4	570.8	600.9	628.7
50°	477.5	489.5	519.6	547.2	576.6	604.7
50.5°	455.9	467.2	496.3	523.9	552.0	580.3
51°	434.3	445.6	474.2	501.0	528.4	557.0
51.5°	413.2	424.3	451.9	478.0	505.1	533.4
52°	392.9	403.4	430.0	455.9	482.5	510.8
52.5°	372.3	382.9	408.0	433.3	459.4	487.5
53°	352.3	362.0	386.9	411.2	437.3	465.4
53.5°	332.7	342.0	365.8	388.9	415.5	442.6
54°	313.6	322.4	345.0	367.8	393.9	421.3
54.5°	294.6	303.3	324.9	347.2	373.1	399.9
55°	276.5	284.5	305.1	326.2	352.3	378.6
55.5°	258.7	265.7	285.3	305.6	332.2	357.5
56°	241.4	247.9	266.2	286.5	312.4	337.5
56.5°	225.1	230.3	247.6	267.5	293.3	317.6
57°	209.0	213.3	229.6	248.6	274.5	297.6
57.5°	192.9	196.2	211.5	230.3	255.7	278.5
58°	176.9	180.6	195.2	212.8	238.1	259.9
58.5°	162.1	164.8	178.4	195.9	221.3	241.9
59°	147.8	149.8	162.6	179.6	204.5	224.3
59.5°	134.0	135.5	147.3	164.1	188.4	206.7
60°	120.9	121.4	132.7	148.5	172.9	190.2
60.5°	108.6	108.4	118.9	134.7	157.3	173.9
61°	96.6	95.6	105.6	120.9	142.5	158.1
61.5°	85.6	85.1	93.1	108.1	128.7	143.5
62°	75.0	75.0	83.3	95.6	115.2	128.7
62.5°	65.2	65.0	73.3	85.3	102.1	114.9
63°	56.5	54.9	63.5	75.5	90.1	102.1
63.5°	48.2	44.7	53.4	65.7	80.0	89.6
64°	40.9	37.1	43.7	55.9	70.3	78.3
64.5°	34.4	30.9	36.1	46.2	60.5	67.0
65°	29.9	25.1	29.6	38.6	50.4	55.9
65.5°	25.1	20.3	23.8	31.6	40.6	44.7
66°	20.3	16.1	18.8	25.3	32.9	33.4



TEST NUMBER: P775927

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	8.0	7.5	8.3	11.3	14.8	11.3
68°	5.5	5.8	6.5	8.0	10.5	9.3
68.5°	3.5	4.0	4.8	6.3	8.5	7.3
69°	2.3	2.0	3.3	4.5	6.8	5.3
69.5°	1.5	1.5	1.5	3.0	5.0	3.3
70°	1.5	1.3	1.3	1.3	3.0	1.5
70.5°	1.5	1.3	1.3	1.3	1.3	1.3
71°	1.3	1.3	1.3	1.3	1.3	1.3
71.5°	1.3	1.3	1.3	1.3	1.3	1.3
72°	1.3	1.3	1.0	1.0	1.3	1.3
72.5°	1.3	1.3	1.0	1.0	1.0	1.3
73°	1.3	1.0	1.0	1.0	1.0	1.3
73.5°	1.3	1.0	1.0	1.0	1.0	1.0
74°	1.0	1.0	1.0	1.0	1.0	1.0
74.5°	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	0.8	0.8	0.8	1.0
76°	1.0	1.0	0.8	0.8	0.8	1.0
76.5°	1.0	0.8	0.8	0.8	0.8	0.8
77°	1.0	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.8	0.8	0.8	0.8	0.8	0.8
79°	0.8	0.8	0.8	0.5	0.5	0.8
79.5°	0.8	0.8	0.5	0.5	0.5	0.5
80°	0.8	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.5	0.3	0.5
82.5°	0.5	0.5	0.5	0.3	0.3	0.3
83°	0.5	0.5	0.3	0.3	0.3	0.3
83.5°	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
84.5°	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.0
85.5°	0.3	0.3	0.3	0.3	0.0	0.0
86°	0.3	0.3	0.3	0.3	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775927

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.3	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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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1618.3	1614.3	1623.5	1611.2	1619.3	1587.4	1560.3	1524.4	1488.6	1499.6	1506.4
22°	1610.0	1605.5	1614.0	1602.7	1611.2	1578.1	1550.0	1512.1	1476.0	1487.1	1496.3



44°	908.5	923.8	931.3	924.3	922.8	893.7	857.6	818.2	784.5	761.0	750.7
44.5°	881.6	900.0	907.5	901.0	896.4	869.4	834.0	795.3	761.7	736.6	726.6



66.5°	24.8	33.4	37.4	36.1	36.6	33.1	28.1	21.1	16.1	15.8	16.3
67°	17.1	26.3	30.1	28.9	30.9	27.3	22.3	15.8	11.0	11.0	11.5



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

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21.5°	1502.9	1486.8	1509.6	1551.0	1582.4	1618.3
22°	1489.8	1473.5	1497.1	1539.7	1572.6	1610.0



44°	756.7	766.0	797.8	834.5	874.9	908.5
44.5°	732.4	742.4	774.8	810.4	850.8	881.6



66.5°	15.6	12.5	14.6	20.1	25.8	24.8
67°	11.0	9.5	11.0	15.3	19.8	17.1



89°	0.3	0.3	0.0	0.0	0.0	0.0
89.5°	0.3	0.3	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)