

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P776033

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B036)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBLS1525CSD-HCD61TRH-2500lm-4000K
Description: 6 INCH ROUND SHALLOW-WIDE HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

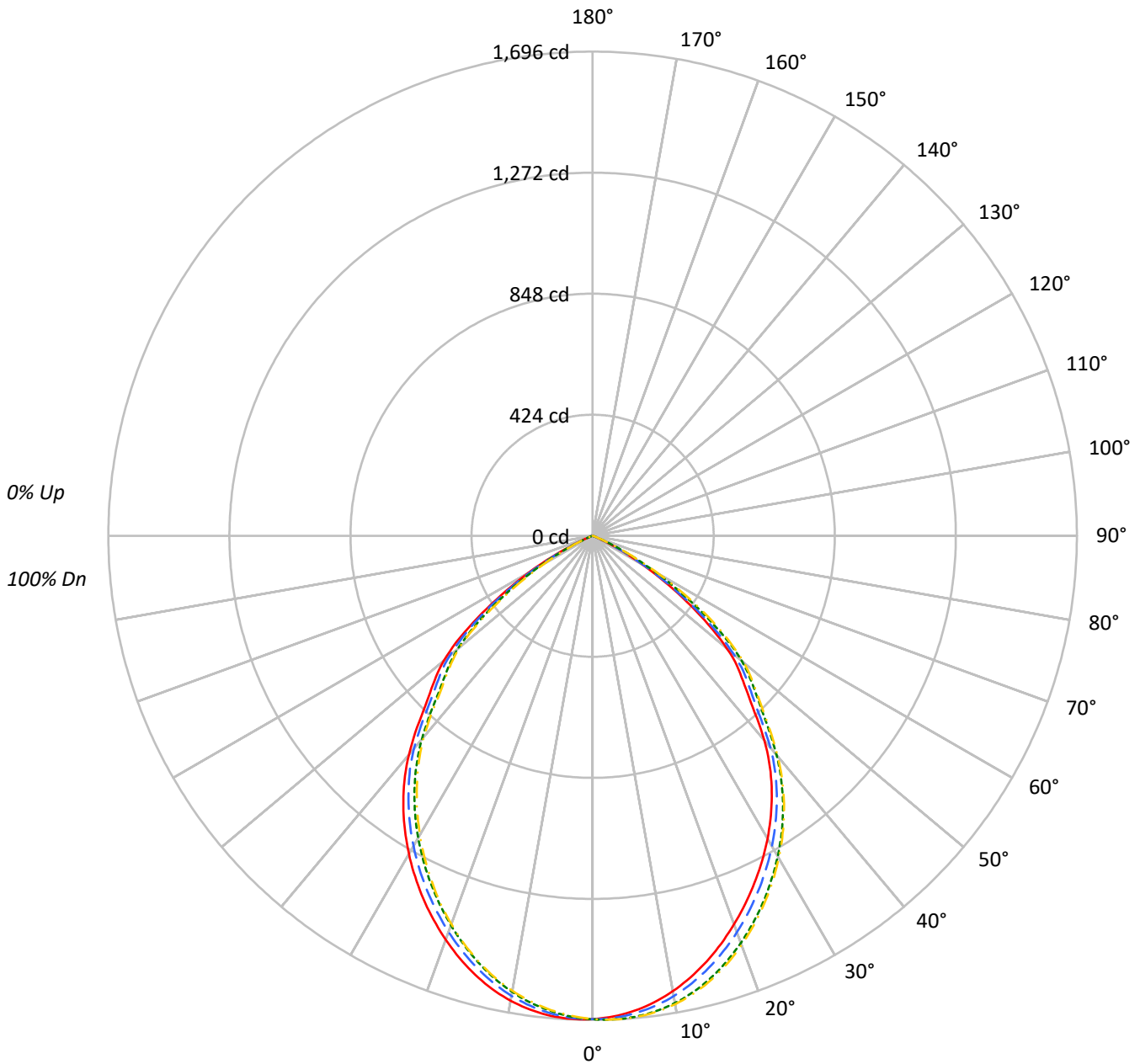
Lumens per Lamp: N/A
Luminaire Lumens: 3024.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{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				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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90	90	90	90
2	104	98	93	89	102	96	91	87	93	89	86	90	87	84	87	84	82	80	80	80	80
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71	71	71	71
4	90	80	73	68	88	79	72	67	77	71	66	74	70	65	72	68	65	63	63	63	63
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56	56	56	56
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45	45	45	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41	41	41	41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37	37	37	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34	34	34	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	92822	92822	92822	92822
5°	91921	93083	92873	91976
10°	90162	92500	92060	90318
15°	87600	90960	90324	87815
20°	84492	88558	87805	84684
25°	81144	85547	84840	81192
30°	77563	82089	81456	77354
35°	73200	77745	77336	72792
40°	66975	71706	71598	66589
45°	58936	63883	63666	58518
50°	52425	58130	57909	52664
55°	38651	44749	45064	39693
60°	22082	27575	28243	23704
65°	6369	10364	9768	8276
70°	160	240	160	497
75°	106	106	106	106
80°	95	95	95	95
85°	189	0	0	189

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 64495 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	5.3
10°-20°	441.9	14.6
20°-30°	632.3	20.9
30°-40°	699.9	23.1
40°-50°	614.9	20.3
50°-60°	391.5	12.9
60°-70°	83.3	2.8
70°-80°	0.7	0.0
80°-90°	0.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1233.3	40.8
0°-40°	1933.2	63.9
0°-60°	2939.6	97.2
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1693	1693	1693	1693	1693	
5°	1670	1692	1688	1671	1670	158
15°	1544	1603	1592	1547	1544	434
25°	1342	1414	1403	1342	1342	617
35°	1094	1162	1156	1088	1094	681
45°	760	824	821	755	760	591
55°	404	468	472	415	404	360
65°	49	80	75	64	49	65
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	1	0	



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
0.5°	1692.0	1692.7	1693.5	1693.2	1695.0	1694.8	1694.0	1693.8	1693.8	1693.8	1693.5
1°	1690.7	1691.7	1693.2	1693.2	1695.5	1695.5	1694.8	1694.5	1694.3	1693.8	1693.0
1.5°	1689.2	1690.7	1692.5	1693.2	1696.0	1696.3	1695.5	1695.0	1694.3	1693.5	1692.2
2°	1687.1	1689.2	1691.5	1692.7	1696.0	1696.6	1696.0	1695.3	1694.3	1692.7	1691.2
2.5°	1685.1	1687.4	1690.2	1692.0	1696.0	1696.8	1696.0	1695.3	1693.8	1692.0	1689.9
3°	1682.8	1685.4	1688.7	1691.2	1695.5	1696.6	1696.0	1694.8	1693.2	1691.0	1688.4
3.5°	1680.0	1683.1	1686.9	1689.9	1695.0	1696.0	1695.8	1694.3	1692.2	1689.4	1686.4
4°	1677.0	1680.5	1684.9	1688.4	1694.0	1695.5	1695.0	1693.5	1691.0	1687.9	1684.1
4.5°	1673.7	1677.7	1682.3	1686.4	1693.0	1694.8	1694.3	1692.5	1689.4	1685.9	1681.8
5°	1670.4	1674.4	1679.5	1684.3	1691.5	1693.5	1693.0	1691.0	1687.7	1683.6	1679.3
5.5°	1666.5	1670.9	1676.5	1682.1	1689.9	1692.0	1691.7	1689.4	1685.4	1681.0	1676.2
6°	1662.2	1667.1	1673.4	1679.5	1687.9	1690.4	1689.9	1687.4	1683.1	1678.0	1672.6
6.5°	1658.2	1663.0	1669.8	1676.5	1685.6	1688.4	1687.9	1685.1	1680.5	1674.9	1669.3
7°	1653.6	1658.7	1666.0	1673.2	1683.1	1686.1	1685.6	1682.6	1677.7	1671.6	1665.5
7.5°	1648.5	1654.1	1662.0	1669.6	1680.0	1683.6	1683.1	1679.8	1674.4	1667.8	1661.2
8°	1643.4	1649.0	1657.4	1665.8	1677.2	1680.8	1680.3	1676.5	1670.9	1664.0	1656.9
8.5°	1637.8	1643.9	1652.8	1662.0	1673.7	1677.7	1677.2	1673.2	1667.1	1659.7	1652.0
9°	1632.2	1638.3	1648.0	1657.4	1669.8	1674.2	1673.7	1669.3	1662.7	1655.1	1647.0
9.5°	1626.1	1632.7	1642.6	1652.8	1665.8	1670.6	1669.8	1665.5	1658.4	1650.3	1641.9
10°	1619.7	1626.4	1637.0	1648.0	1661.7	1666.5	1666.0	1661.2	1653.8	1645.2	1636.3
10.5°	1613.1	1620.0	1631.4	1642.6	1657.1	1662.2	1661.7	1656.6	1649.0	1639.8	1630.4
11°	1606.3	1613.6	1625.3	1637.0	1652.3	1657.6	1657.1	1651.5	1643.4	1634.2	1624.3
11.5°	1599.1	1606.8	1619.0	1631.2	1647.0	1652.6	1652.0	1646.5	1637.8	1628.1	1618.0
12°	1592.0	1599.7	1612.6	1625.1	1641.6	1647.5	1647.0	1640.9	1632.2	1621.8	1611.4
12.5°	1584.4	1592.5	1605.8	1619.0	1635.8	1641.9	1641.4	1635.3	1626.1	1615.4	1604.5
13°	1576.5	1585.2	1598.6	1612.4	1629.7	1636.3	1635.5	1629.2	1619.5	1608.6	1597.4
13.5°	1568.6	1577.3	1591.3	1605.5	1623.3	1630.2	1629.4	1622.8	1613.1	1601.7	1590.2
14°	1560.5	1569.4	1583.9	1598.1	1616.7	1623.8	1623.1	1616.2	1606.0	1594.3	1582.6
14.5°	1552.1	1561.0	1576.0	1591.3	1609.8	1617.0	1616.2	1609.3	1598.6	1586.9	1574.5
15°	1543.5	1552.6	1568.1	1583.4	1602.7	1610.1	1609.3	1601.9	1591.5	1579.1	1566.6
15.5°	1534.8	1544.2	1559.7	1575.8	1595.3	1602.7	1601.9	1594.6	1583.9	1571.2	1558.5
16°	1525.7	1535.3	1551.3	1567.1	1587.7	1595.6	1594.3	1586.9	1575.5	1563.0	1549.8
16.5°	1516.8	1526.4	1542.9	1559.5	1579.6	1587.7	1586.4	1579.1	1567.6	1554.6	1541.2
17°	1507.1	1517.3	1534.0	1550.8	1571.4	1579.8	1578.5	1570.9	1559.2	1546.3	1532.5
17.5°	1497.7	1508.1	1524.9	1541.9	1563.0	1571.2	1570.4	1562.3	1550.8	1537.4	1523.6
18°	1488.0	1498.7	1516.0	1532.8	1554.4	1562.8	1561.5	1553.6	1541.9	1528.4	1514.0
18.5°	1478.3	1489.0	1506.6	1524.1	1545.5	1553.9	1552.9	1545.0	1532.8	1519.3	1505.1
19°	1468.4	1479.6	1497.2	1514.7	1536.3	1545.0	1544.0	1535.8	1523.9	1510.1	1495.4
19.5°	1458.8	1470.0	1487.5	1505.6	1527.2	1535.8	1534.8	1526.9	1514.5	1500.7	1486.0
20°	1448.3	1459.8	1477.6	1495.6	1518.0	1526.4	1525.4	1517.5	1505.1	1491.1	1476.1
20.5°	1438.2	1449.6	1467.7	1485.7	1508.1	1517.0	1516.0	1507.8	1495.6	1481.4	1466.4
21°	1427.7	1439.7	1457.7	1476.1	1498.4	1507.1	1506.1	1498.2	1485.7	1471.5	1456.0



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CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1395.9	1408.4	1426.7	1445.0	1467.9	1476.6	1475.8	1467.7	1455.7	1441.0	1425.2
23°	1385.5	1398.0	1416.0	1434.6	1457.2	1466.1	1465.4	1457.5	1445.3	1430.5	1414.3
23.5°	1374.6	1387.3	1405.4	1423.9	1446.8	1455.7	1454.7	1447.1	1434.6	1420.1	1403.8
24°	1363.7	1376.4	1394.2	1413.0	1436.4	1445.0	1444.3	1436.1	1424.2	1409.4	1392.9
24.5°	1352.7	1365.4	1383.5	1402.3	1425.5	1433.6	1433.3	1425.2	1413.2	1398.2	1382.2
25°	1341.5	1354.5	1372.3	1390.9	1414.3	1422.7	1422.1	1414.3	1402.6	1387.6	1371.0
25.5°	1330.6	1343.6	1361.4	1379.9	1403.1	1411.5	1411.0	1403.3	1391.6	1376.4	1360.1
26°	1319.1	1332.6	1350.2	1368.7	1391.9	1399.8	1399.5	1392.4	1380.4	1365.2	1348.6
26.5°	1307.7	1321.2	1338.5	1357.3	1380.4	1388.6	1388.3	1380.9	1369.0	1353.7	1337.5
27°	1296.5	1310.0	1327.0	1345.8	1369.0	1376.6	1376.9	1369.0	1357.8	1342.3	1326.0
27.5°	1284.8	1298.5	1315.6	1333.6	1357.0	1364.9	1365.2	1357.5	1346.4	1330.8	1314.3
28°	1273.1	1286.8	1303.6	1321.9	1345.3	1353.5	1353.0	1346.1	1334.7	1319.1	1302.4
28.5°	1261.2	1274.9	1291.7	1309.7	1333.1	1340.8	1340.8	1334.2	1323.0	1307.2	1290.9
29°	1249.2	1263.5	1279.7	1297.8	1321.2	1328.6	1328.8	1321.7	1311.0	1295.2	1279.0
29.5°	1237.3	1251.2	1267.8	1285.3	1309.0	1316.1	1316.6	1309.5	1299.1	1283.3	1267.0
30°	1225.3	1239.3	1255.6	1273.1	1296.8	1304.1	1303.9	1297.5	1286.8	1271.1	1254.5
30.5°	1212.6	1227.1	1243.1	1260.9	1283.5	1290.9	1290.9	1285.1	1274.1	1258.6	1242.1
31°	1199.9	1214.6	1230.6	1247.9	1271.1	1277.9	1278.5	1271.8	1261.9	1246.4	1229.9
31.5°	1187.4	1202.2	1217.7	1235.0	1257.9	1265.0	1265.2	1259.4	1249.0	1233.7	1217.4
32°	1174.7	1189.7	1205.0	1222.0	1244.9	1252.3	1252.0	1246.4	1236.5	1220.7	1204.7
32.5°	1161.7	1176.5	1192.0	1209.0	1231.7	1238.5	1238.3	1233.4	1223.5	1208.0	1191.5
33°	1148.5	1163.5	1178.8	1195.8	1218.2	1224.8	1225.3	1220.0	1210.3	1195.0	1178.5
33.5°	1135.3	1150.0	1165.5	1182.1	1204.2	1211.1	1211.3	1206.5	1196.6	1182.1	1165.5
34°	1121.5	1136.8	1152.1	1168.8	1190.5	1197.6	1197.3	1192.7	1183.1	1168.3	1152.1
34.5°	1107.8	1123.3	1138.3	1154.3	1176.5	1182.6	1183.1	1178.5	1169.4	1154.6	1138.6
35°	1093.8	1109.3	1124.6	1140.4	1161.7	1168.6	1168.8	1164.3	1155.6	1141.1	1124.6
35.5°	1079.3	1095.3	1110.6	1125.9	1147.5	1153.6	1154.1	1150.0	1141.1	1127.4	1110.6
36°	1064.8	1081.4	1096.1	1111.4	1132.7	1139.1	1139.3	1135.5	1127.1	1113.4	1097.1
36.5°	1049.8	1066.4	1081.6	1096.4	1118.0	1123.3	1124.3	1120.3	1112.4	1098.7	1082.9
37°	1035.1	1051.3	1066.9	1081.4	1102.0	1108.1	1108.6	1105.0	1097.9	1084.2	1068.1
37.5°	1019.8	1035.8	1051.6	1066.1	1086.4	1091.8	1092.5	1089.5	1082.4	1069.7	1053.4
38°	1003.8	1020.6	1036.1	1049.8	1070.4	1075.8	1076.8	1073.5	1066.6	1054.4	1039.1
38.5°	987.8	1004.6	1020.1	1033.5	1053.9	1059.5	1060.5	1056.9	1051.1	1038.9	1023.1
39°	971.0	988.3	1003.5	1017.3	1037.1	1042.2	1043.5	1040.4	1035.1	1023.1	1007.1
39.5°	953.7	970.2	986.0	999.5	1019.6	1024.9	1026.2	1023.4	1018.3	1006.3	990.1
40°	935.9	952.4	967.7	981.4	1002.0	1007.4	1008.4	1006.1	1000.5	989.3	974.0
40.5°	916.6	933.6	949.1	962.8	983.2	988.8	990.6	988.0	982.7	971.5	955.5
41°	898.0	914.8	930.3	944.3	964.9	970.5	971.7	969.5	964.6	952.9	936.9
41.5°	879.7	896.0	911.5	925.7	946.6	951.9	953.7	950.9	945.8	933.9	918.1
42°	861.1	877.1	892.7	906.9	928.0	934.4	935.9	933.3	927.8	916.1	900.8
42.5°	840.8	857.3	873.1	887.6	909.4	915.5	917.6	915.3	909.4	897.7	881.7
43°	822.5	838.7	854.8	869.0	890.4	896.7	898.8	896.0	890.4	878.2	862.9
43.5°	805.4	821.4	837.5	851.7	872.6	878.9	880.7	877.4	870.8	858.6	843.3



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	760.2	775.9	791.2	804.7	824.0	830.1	831.9	828.3	821.2	808.7	794.2
45.5°	745.9	761.9	777.2	790.4	809.2	815.1	816.9	813.3	806.2	794.2	779.5
46°	732.7	748.7	763.5	776.7	795.0	800.6	802.4	798.8	791.9	780.0	765.5
46.5°	719.5	735.5	750.0	763.0	781.0	786.9	788.6	785.3	778.2	766.3	751.8
47°	706.5	722.3	737.0	749.7	767.3	773.1	774.9	771.6	764.5	753.0	738.8
47.5°	693.5	709.3	723.8	736.5	753.8	759.9	761.7	757.9	751.0	739.8	725.6
48°	680.3	696.1	710.1	723.3	740.3	746.7	748.2	744.6	738.0	726.8	712.6
48.5°	665.5	681.1	695.8	709.3	727.1	733.5	735.2	731.9	724.8	713.6	699.6
49°	649.5	664.0	679.0	693.8	712.6	719.5	721.8	718.2	710.6	698.9	685.4
49.5°	633.3	647.0	662.2	677.5	697.3	704.7	706.7	702.7	695.1	682.8	669.1
50°	614.7	627.9	643.2	659.7	681.6	689.7	691.7	687.4	679.0	666.8	653.1
50.5°	595.1	608.6	624.3	641.4	664.3	672.7	674.5	671.4	662.2	650.0	635.3
51°	575.0	589.0	603.8	621.6	645.7	653.3	656.1	653.1	644.4	631.5	617.0
51.5°	554.7	568.4	583.4	600.7	626.1	634.3	637.8	633.5	625.9	612.4	597.9
52°	533.8	547.3	562.0	578.8	604.8	614.4	618.0	613.9	605.8	592.6	578.3
52.5°	512.7	525.9	541.2	556.7	582.9	594.1	597.6	593.6	584.4	571.7	558.2
53°	491.1	504.3	518.6	533.6	560.3	573.0	577.6	572.2	561.8	549.8	537.9
53.5°	469.5	482.2	496.7	510.4	537.4	551.9	557.2	551.4	539.7	528.5	516.5
54°	447.6	460.1	473.5	486.8	514.2	529.5	535.8	528.5	517.0	506.1	494.9
54.5°	426.0	439.0	450.7	463.6	491.3	507.4	513.7	506.1	493.9	483.7	473.0
55°	404.4	416.6	427.3	440.2	468.2	485.7	492.4	484.2	471.5	461.3	451.7
55.5°	382.5	394.4	404.6	417.1	445.8	462.9	470.7	461.8	449.6	438.4	429.3
56°	361.1	372.1	381.7	393.4	422.7	440.0	447.9	438.4	427.0	415.3	407.2
56.5°	340.0	350.7	358.6	370.8	400.0	417.8	425.5	416.3	404.9	392.7	385.0
57°	319.2	328.6	335.7	348.2	377.4	394.4	402.8	394.2	382.7	370.5	363.4
57.5°	298.3	307.2	313.8	326.5	356.0	372.3	380.7	372.6	361.6	348.4	341.0
58°	278.0	285.9	292.5	304.7	334.4	349.7	357.8	350.4	340.0	326.3	319.7
58.5°	258.1	265.3	271.1	284.1	313.6	328.1	335.4	329.3	319.7	305.4	298.8
59°	238.5	244.4	250.2	263.5	292.5	306.2	313.1	307.7	298.6	284.8	277.7
59.5°	220.2	224.8	230.4	243.1	271.9	285.1	290.9	287.6	277.7	265.0	257.6
60°	201.4	204.7	210.8	223.8	251.5	264.0	269.6	266.3	257.6	246.4	238.5
60.5°	183.4	186.2	192.0	205.0	232.4	244.4	249.5	246.9	238.8	227.9	219.7
61°	166.1	167.8	173.4	185.9	213.6	224.8	229.4	227.9	220.0	209.3	200.9
61.5°	149.3	150.8	156.2	169.4	194.6	205.2	209.3	208.5	201.2	190.7	182.1
62°	132.8	133.8	139.9	152.1	175.5	185.7	189.2	189.2	182.3	172.2	163.3
62.5°	117.5	118.0	123.9	135.8	157.7	166.1	169.1	169.9	163.5	155.4	146.7
63°	102.5	102.7	109.1	120.5	140.6	148.3	151.1	152.1	144.2	139.4	130.7
63.5°	87.2	89.0	94.6	105.8	124.1	130.7	133.8	134.5	126.1	123.9	115.7
64°	74.5	77.8	83.4	91.6	108.6	114.7	117.5	118.3	108.6	108.8	101.5
64.5°	61.8	66.9	72.2	80.1	93.6	99.2	102.0	102.2	91.6	94.9	88.0
65°	49.1	56.2	61.0	68.7	79.9	84.4	87.5	87.5	75.3	81.1	75.5
65.5°	36.4	45.3	49.8	57.2	66.6	71.0	73.8	73.2	60.8	68.7	64.3
66°	26.7	34.3	38.7	45.8	54.4	58.2	61.0	60.0	47.3	56.7	53.2



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	8.4	14.5	16.8	18.6	28.5	30.8	33.1	32.3	21.6	31.5	29.8
68°	6.6	9.9	11.7	12.5	21.1	22.9	24.7	24.4	13.0	24.2	23.1
68.5°	4.8	7.6	7.1	7.9	13.5	15.0	16.5	16.5	4.3	16.8	16.3
69°	3.1	5.6	5.6	6.1	6.1	7.4	8.4	8.6	2.0	9.7	9.7
69.5°	1.3	3.3	4.1	4.3	3.1	3.8	4.3	4.8	1.3	5.8	5.6
70°	1.0	1.3	2.5	2.5	1.5	1.8	2.0	2.3	1.0	3.1	3.1
70.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.5	1.5
71°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0
72°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.5
78°	0.5	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
85.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
86°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
86.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
87°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
87.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
88°	0.3	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
88.5°	0.3	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.3



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
0.5°	1692.2	1693.0	1692.2	1691.2	1691.5	1692.0
1°	1691.5	1691.7	1690.7	1689.7	1689.9	1690.7
1.5°	1690.2	1689.9	1688.7	1687.7	1687.9	1689.2
2°	1688.9	1688.2	1686.6	1685.6	1686.1	1687.1
2.5°	1687.1	1685.9	1684.3	1683.1	1683.6	1685.1
3°	1685.1	1683.6	1681.8	1680.5	1681.0	1682.8
3.5°	1683.1	1680.8	1679.0	1677.7	1678.2	1680.0
4°	1680.5	1678.0	1676.0	1674.7	1675.2	1677.0
4.5°	1677.7	1674.7	1672.6	1671.1	1671.9	1673.7
5°	1674.7	1671.4	1669.3	1667.8	1668.3	1670.4
5.5°	1671.4	1667.6	1665.5	1663.7	1664.3	1666.5
6°	1667.8	1663.7	1661.5	1659.9	1660.2	1662.2
6.5°	1663.7	1659.7	1657.4	1655.6	1655.6	1658.2
7°	1659.7	1655.1	1652.8	1651.0	1651.3	1653.6
7.5°	1655.4	1650.3	1648.0	1646.2	1646.5	1648.5
8°	1650.5	1645.4	1642.9	1641.1	1641.1	1643.4
8.5°	1645.4	1640.1	1637.8	1635.8	1635.8	1637.8
9°	1640.1	1634.5	1632.2	1630.4	1629.9	1632.2
9.5°	1634.5	1628.7	1626.4	1624.6	1624.1	1626.1
10°	1628.7	1622.5	1620.3	1618.5	1617.7	1619.7
10.5°	1622.5	1616.2	1613.9	1612.1	1611.4	1613.1
11°	1615.9	1609.6	1607.3	1605.5	1604.5	1606.3
11.5°	1609.3	1602.5	1600.4	1598.6	1597.6	1599.1
12°	1602.7	1595.6	1593.3	1591.5	1590.2	1592.0
12.5°	1595.3	1588.0	1585.9	1584.1	1582.9	1584.4
13°	1588.0	1580.3	1578.5	1576.8	1575.0	1576.5
13.5°	1580.1	1572.2	1570.7	1568.6	1567.1	1568.6
14°	1572.2	1564.1	1562.5	1560.5	1559.0	1560.5
14.5°	1564.3	1555.9	1554.4	1552.4	1550.6	1552.1
15°	1555.7	1547.3	1545.7	1543.7	1541.7	1543.5
15.5°	1547.0	1538.6	1536.8	1535.1	1533.0	1534.8
16°	1538.4	1529.5	1527.7	1525.9	1524.1	1525.7
16.5°	1529.5	1520.3	1518.8	1517.0	1514.7	1516.8
17°	1520.6	1511.2	1509.4	1507.6	1505.6	1507.1
17.5°	1511.4	1501.5	1499.7	1497.9	1495.6	1497.7
18°	1501.7	1491.8	1490.0	1488.3	1486.0	1488.0
18.5°	1492.1	1481.9	1479.9	1478.3	1476.1	1478.3
19°	1482.2	1472.0	1470.0	1468.2	1466.1	1468.4
19.5°	1472.5	1462.1	1459.8	1458.0	1456.0	1458.8
20°	1462.6	1451.6	1449.1	1447.3	1445.5	1448.3
20.5°	1452.4	1441.2	1438.7	1436.9	1435.1	1438.2
21°	1442.2	1430.3	1428.0	1426.0	1424.4	1427.7

TEST NUMBER: P776033

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1410.7	1398.2	1394.9	1392.9	1392.1	1395.9
23°	1400.0	1387.0	1383.7	1380.9	1381.2	1385.5
23.5°	1389.3	1375.9	1372.3	1370.0	1370.0	1374.6
24°	1378.4	1364.7	1360.6	1358.1	1358.8	1363.7
24.5°	1367.2	1353.5	1349.2	1346.6	1347.1	1352.7
25°	1356.3	1342.3	1337.2	1334.4	1335.7	1341.5
25.5°	1345.1	1330.8	1325.5	1323.0	1324.5	1330.6
26°	1333.6	1319.1	1313.3	1310.2	1312.8	1319.1
26.5°	1322.2	1307.2	1301.6	1298.5	1301.1	1307.7
27°	1310.8	1295.5	1289.1	1286.1	1289.1	1296.5
27.5°	1299.3	1283.5	1276.9	1273.6	1276.9	1284.8
28°	1287.6	1271.3	1264.5	1261.2	1264.7	1273.1
28.5°	1275.7	1259.1	1252.0	1248.4	1252.5	1261.2
29°	1263.7	1246.9	1239.3	1235.5	1240.3	1249.2
29.5°	1251.8	1234.5	1226.6	1222.8	1227.6	1237.3
30°	1239.5	1222.0	1213.3	1210.0	1214.9	1225.3
30.5°	1227.1	1209.3	1200.4	1196.8	1202.2	1212.6
31°	1214.9	1196.3	1187.2	1183.3	1189.2	1199.9
31.5°	1201.9	1183.3	1173.9	1170.1	1176.0	1187.4
32°	1188.9	1170.4	1160.2	1156.6	1163.0	1174.7
32.5°	1176.2	1157.1	1146.7	1143.2	1149.5	1161.7
33°	1163.0	1143.4	1133.2	1129.7	1136.0	1148.5
33.5°	1149.8	1129.7	1119.5	1115.7	1122.6	1135.3
34°	1136.0	1115.9	1105.8	1101.7	1108.8	1121.5
34.5°	1122.3	1102.0	1091.3	1087.7	1094.8	1107.8
35°	1108.6	1087.7	1077.0	1073.5	1080.6	1093.8
35.5°	1094.6	1073.2	1063.0	1059.2	1066.4	1079.3
36°	1080.6	1058.5	1048.3	1044.7	1051.9	1064.8
36.5°	1065.8	1043.7	1033.8	1030.0	1037.4	1049.8
37°	1050.8	1028.5	1018.5	1015.2	1022.4	1035.1
37.5°	1035.8	1012.9	1003.3	1000.2	1007.1	1019.8
38°	1020.3	997.4	988.0	984.7	991.6	1003.8
38.5°	1004.6	981.2	972.0	969.0	975.6	987.8
39°	988.0	964.9	956.2	953.2	959.8	971.0
39.5°	971.7	947.8	939.2	936.7	942.2	953.7
40°	954.7	930.5	921.6	919.1	924.4	935.9
40.5°	936.7	912.5	903.6	901.0	905.9	916.6
41°	918.1	893.9	885.3	882.5	887.8	898.0
41.5°	899.5	875.4	866.7	864.4	869.0	879.7
42°	881.7	857.8	848.9	846.1	851.2	861.1
42.5°	863.4	839.5	830.3	826.8	831.6	840.8
43°	844.8	820.4	811.5	808.7	813.1	822.5
43.5°	825.8	801.9	793.2	790.4	795.3	805.4



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	776.7	754.8	746.7	744.4	749.5	760.2
45.5°	762.2	740.3	732.2	730.4	735.5	745.9
46°	748.5	726.8	719.0	716.9	722.3	732.7
46.5°	734.7	713.9	705.7	704.0	709.0	719.5
47°	722.3	701.2	692.8	691.0	696.1	706.5
47.5°	709.0	687.7	680.0	678.0	683.4	693.5
48°	696.3	675.5	667.3	665.3	670.4	680.3
48.5°	683.6	662.0	654.6	652.1	656.9	665.5
49°	669.6	648.5	640.6	637.8	641.9	649.5
49.5°	654.1	632.7	626.1	623.1	625.9	633.3
50°	638.1	617.5	610.4	607.3	608.8	614.7
50.5°	620.8	599.7	593.6	589.5	590.0	595.1
51°	602.0	581.4	574.8	570.4	570.7	575.0
51.5°	583.2	561.5	555.2	549.8	550.9	554.7
52°	564.1	541.7	534.3	528.7	529.2	533.8
52.5°	544.0	520.6	513.0	507.4	507.6	512.7
53°	523.6	499.7	491.3	485.2	485.7	491.1
53.5°	502.5	478.4	469.2	463.1	463.6	469.5
54°	481.7	457.3	447.3	441.0	441.5	447.6
54.5°	460.6	436.4	425.7	418.9	419.4	426.0
55°	440.0	415.3	403.6	396.5	397.5	404.4
55.5°	418.6	393.7	382.2	373.8	376.1	382.5
56°	397.0	372.8	360.6	352.0	354.8	361.1
56.5°	376.1	352.2	339.8	330.6	333.9	340.0
57°	354.5	331.9	318.4	309.3	312.8	319.2
57.5°	333.9	311.8	298.1	288.7	292.2	298.3
58°	313.3	292.0	278.2	268.8	272.1	278.0
58.5°	292.5	272.1	258.9	249.0	253.0	258.1
59°	272.1	253.0	240.1	230.2	233.2	238.5
59.5°	253.0	234.5	221.3	211.8	215.2	220.2
60°	234.2	216.2	203.2	194.0	197.4	201.4
60.5°	215.4	197.6	185.9	177.3	179.8	183.4
61°	196.6	180.3	168.9	161.2	162.5	166.1
61.5°	177.8	163.3	153.1	146.2	147.2	149.3
62°	160.2	146.5	137.6	131.0	131.7	132.8
62.5°	143.4	130.5	122.8	117.2	116.7	117.5
63°	127.2	115.2	108.8	103.8	102.5	102.5
63.5°	111.6	100.7	95.9	91.6	89.8	87.2
64°	96.9	86.7	84.9	81.4	79.3	74.5
64.5°	83.7	75.3	74.3	71.0	68.9	61.8
65°	70.7	63.8	63.6	60.8	58.2	49.1
65.5°	59.0	52.6	52.6	50.6	47.8	36.4
66°	48.3	41.2	42.0	40.4	37.1	26.7



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	26.4	18.6	19.6	19.3	16.0	8.4
68°	20.3	13.2	14.2	13.7	11.2	6.6
68.5°	14.2	9.2	9.4	9.2	9.2	4.8
69°	8.1	7.1	7.4	7.1	7.1	3.1
69.5°	4.8	5.1	5.3	5.1	5.1	1.3
70°	2.5	3.1	3.1	3.1	3.1	1.0
70.5°	1.3	1.0	1.0	1.0	1.0	1.0
71°	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	0.8	0.8	0.8	0.8	0.8
72°	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5
78°	0.5	0.5	0.5	0.5	0.5	0.5
78.5°	0.3	0.5	0.5	0.5	0.5	0.3
79°	0.3	0.3	0.5	0.5	0.5	0.3
79.5°	0.3	0.3	0.5	0.5	0.3	0.3
80°	0.3	0.3	0.5	0.5	0.3	0.3
80.5°	0.3	0.3	0.5	0.5	0.3	0.3
81°	0.3	0.3	0.5	0.5	0.3	0.3
81.5°	0.3	0.3	0.5	0.5	0.3	0.3
82°	0.3	0.3	0.5	0.5	0.3	0.3
82.5°	0.3	0.3	0.5	0.5	0.3	0.3
83°	0.3	0.3	0.5	0.5	0.3	0.3
83.5°	0.3	0.3	0.5	0.5	0.3	0.3
84°	0.3	0.3	0.5	0.5	0.3	0.3
84.5°	0.3	0.3	0.5	0.5	0.3	0.3
85°	0.3	0.3	0.5	0.5	0.5	0.3
85.5°	0.3	0.3	0.5	0.5	0.5	0.3
86°	0.3	0.3	0.5	0.5	0.5	0.3
86.5°	0.3	0.3	0.5	0.8	0.5	0.3
87°	0.3	0.3	0.8	0.8	0.8	0.3
87.5°	0.3	0.5	0.8	1.0	0.8	0.3
88°	0.3	0.5	1.0	1.3	1.0	0.3
88.5°	0.3	0.5	1.3	1.5	1.3	0.3



TEST NUMBER: P776033

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



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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°	1417.3	1429.3	1447.3	1465.6	1488.5	1496.9	1495.9	1488.0	1475.6	1461.6	1445.8
22°	1406.6	1418.8	1436.9	1455.7	1478.3	1487.0	1486.0	1477.8	1465.6	1451.4	1435.4



44°	789.4	805.7	821.2	835.4	855.8	862.1	863.7	860.1	853.0	840.5	826.0
44.5°	774.4	790.4	805.9	819.7	839.5	845.6	847.1	844.1	836.7	824.2	809.0



66.5°	19.3	26.4	30.3	34.3	43.5	46.5	49.3	48.1	38.7	46.0	43.5
67°	13.2	19.8	23.1	25.9	36.1	38.7	41.2	40.2	30.0	38.7	36.6



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

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21.5°	1432.1	1419.6	1417.1	1415.0	1414.0	1417.3
22°	1421.1	1408.9	1406.1	1403.6	1402.8	1406.6



44°	808.2	785.3	777.2	774.1	779.5	789.4
44.5°	791.9	769.8	761.4	759.1	764.2	774.4



66.5°	38.9	32.3	33.8	32.6	29.2	19.3
67°	32.6	24.7	26.2	25.4	22.1	13.2



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

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)