

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: P776034

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776034
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-5000K
Description: 6 INCH ROUND SHALLOW-WIDE HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

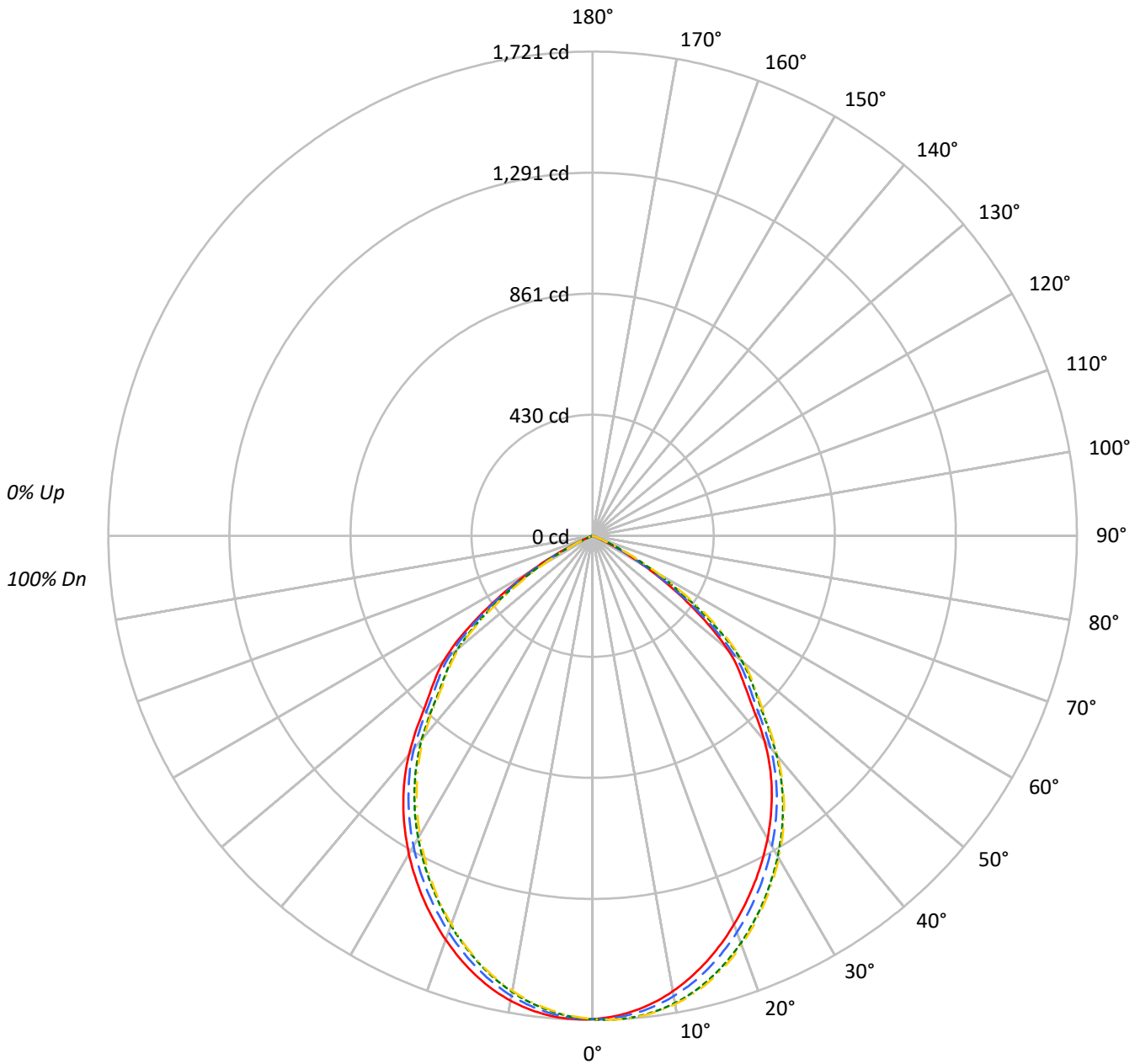
Lumens per Lamp: N/A
Luminaire Lumens: 3068.8 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	94197	94197	94197	94197
5°	93281	94458	94244	93336
10°	91498	93869	93424	91659
15°	88894	92305	91663	89115
20°	85746	89870	89100	85938
25°	82347	86811	86092	82396
30°	78708	83304	82665	78499
35°	74285	78896	78481	73870
40°	67963	72765	72658	67577
45°	59805	64828	64611	59386
50°	53201	58992	58770	53440
55°	39224	45408	45733	40285
60°	22410	27980	28660	24055
65°	6460	10507	9910	8406
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: 65449 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	5.3
10°-20°	448.5	14.6
20°-30°	641.6	20.9
30°-40°	710.2	23.1
40°-50°	624.0	20.3
50°-60°	397.3	12.9
60°-70°	84.6	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°	1251.6	40.8
0°-40°	1961.8	63.9
0°-60°	2983.1	97.2
0°-90°	3068.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1718	1718	1718	1718	1718	
5°	1695	1716	1713	1696	1695	160
15°	1566	1626	1615	1570	1566	440
25°	1361	1435	1423	1362	1361	626
35°	1110	1179	1173	1104	1110	691
45°	771	836	833	766	771	600
55°	410	475	478	422	410	365
65°	50	81	76	65	50	66
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	1	0	



TEST NUMBER: P776034

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1718.3	1718.3	1718.3	1718.3	1718.3	1718.3	1718.3	1718.3	1718.3	1718.3	1718.3
0.5°	1717.0	1717.8	1718.6	1718.3	1720.1	1719.9	1719.1	1718.8	1718.8	1718.8	1718.6
1°	1715.7	1716.8	1718.3	1718.3	1720.6	1720.6	1719.9	1719.6	1719.4	1718.8	1718.1
1.5°	1714.2	1715.7	1717.5	1718.3	1721.2	1721.4	1720.6	1720.1	1719.4	1718.6	1717.3
2°	1712.1	1714.2	1716.5	1717.8	1721.2	1721.7	1721.2	1720.4	1719.4	1717.8	1716.3
2.5°	1710.1	1712.4	1715.2	1717.0	1721.2	1721.9	1721.2	1720.4	1718.8	1717.0	1715.0
3°	1707.7	1710.3	1713.7	1716.3	1720.6	1721.7	1721.2	1719.9	1718.3	1716.0	1713.4
3.5°	1704.9	1708.0	1711.9	1715.0	1720.1	1721.2	1720.9	1719.4	1717.3	1714.4	1711.4
4°	1701.8	1705.4	1709.8	1713.4	1719.1	1720.6	1720.1	1718.6	1716.0	1712.9	1709.0
4.5°	1698.4	1702.6	1707.2	1711.4	1718.1	1719.9	1719.4	1717.5	1714.4	1710.8	1706.7
5°	1695.1	1699.2	1704.4	1709.3	1716.5	1718.6	1718.1	1716.0	1712.6	1708.5	1704.1
5.5°	1691.2	1695.6	1701.3	1707.0	1715.0	1717.0	1716.8	1714.4	1710.3	1705.9	1701.0
6°	1686.8	1691.7	1698.2	1704.4	1712.9	1715.5	1715.0	1712.4	1708.0	1702.8	1697.4
6.5°	1682.7	1687.6	1694.6	1701.3	1710.6	1713.4	1712.9	1710.1	1705.4	1699.7	1694.1
7°	1678.1	1683.2	1690.7	1697.9	1708.0	1711.1	1710.6	1707.5	1702.6	1696.4	1690.2
7.5°	1672.9	1678.6	1686.6	1694.3	1704.9	1708.5	1708.0	1704.6	1699.2	1692.5	1685.8
8°	1667.7	1673.4	1681.9	1690.4	1702.1	1705.7	1705.2	1701.3	1695.6	1688.6	1681.4
8.5°	1662.1	1668.3	1677.3	1686.6	1698.4	1702.6	1702.1	1697.9	1691.7	1684.3	1676.5
9°	1656.4	1662.6	1672.4	1681.9	1694.6	1699.0	1698.4	1694.1	1687.3	1679.6	1671.3
9.5°	1650.2	1656.9	1667.0	1677.3	1690.4	1695.4	1694.6	1690.2	1683.0	1674.7	1666.2
10°	1643.7	1650.4	1661.3	1672.4	1686.3	1691.2	1690.7	1685.8	1678.3	1669.5	1660.5
10.5°	1637.0	1644.0	1655.6	1667.0	1681.7	1686.8	1686.3	1681.2	1673.4	1664.1	1654.6
11°	1630.1	1637.5	1649.4	1661.3	1676.8	1682.2	1681.7	1676.0	1667.7	1658.4	1648.4
11.5°	1622.8	1630.6	1643.0	1655.3	1671.3	1677.0	1676.5	1670.8	1662.1	1652.3	1641.9
12°	1615.6	1623.3	1636.5	1649.2	1665.9	1671.9	1671.3	1665.2	1656.4	1645.8	1635.2
12.5°	1607.9	1616.1	1629.5	1643.0	1660.0	1666.2	1665.7	1659.5	1650.2	1639.3	1628.2
13°	1599.9	1608.6	1622.3	1636.2	1653.8	1660.5	1659.7	1653.3	1643.5	1632.4	1621.0
13.5°	1591.9	1600.6	1614.8	1629.3	1647.3	1654.3	1653.5	1646.8	1637.0	1625.4	1613.8
14°	1583.6	1592.6	1607.3	1621.8	1640.6	1647.9	1647.1	1640.1	1629.8	1617.9	1606.1
14.5°	1575.1	1584.1	1599.3	1614.8	1633.7	1640.9	1640.1	1633.2	1622.3	1610.4	1597.8
15°	1566.3	1575.6	1591.3	1606.8	1626.4	1633.9	1633.2	1625.7	1615.1	1602.4	1589.8
15.5°	1557.5	1567.1	1582.8	1599.1	1619.0	1626.4	1625.7	1618.2	1607.3	1594.4	1581.5
16°	1548.2	1558.0	1574.3	1590.3	1611.2	1619.2	1617.9	1610.4	1598.8	1586.2	1572.8
16.5°	1539.2	1549.0	1565.8	1582.6	1603.0	1611.2	1609.9	1602.4	1590.8	1577.7	1564.0
17°	1529.4	1539.7	1556.8	1573.8	1594.7	1603.2	1601.9	1594.2	1582.3	1569.1	1555.2
17.5°	1519.9	1530.4	1547.5	1564.8	1586.2	1594.4	1593.7	1585.4	1573.8	1560.1	1546.2
18°	1510.0	1520.9	1538.4	1555.5	1577.4	1585.9	1584.6	1576.6	1564.8	1551.1	1536.4
18.5°	1500.2	1511.1	1528.9	1546.7	1568.4	1576.9	1575.9	1567.9	1555.5	1541.8	1527.3
19°	1490.2	1501.5	1519.3	1537.1	1559.1	1567.9	1566.8	1558.6	1546.4	1532.5	1517.5
19.5°	1480.4	1491.7	1509.5	1527.9	1549.8	1558.6	1557.5	1549.5	1536.9	1523.0	1508.0
20°	1469.8	1481.4	1499.5	1517.8	1540.5	1549.0	1548.0	1540.0	1527.3	1513.1	1497.9
20.5°	1459.5	1471.1	1489.4	1507.7	1530.4	1539.5	1538.4	1530.2	1517.8	1503.3	1488.1
21°	1448.9	1461.0	1479.3	1497.9	1520.6	1529.4	1528.4	1520.4	1507.7	1493.3	1477.5



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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°	1416.6	1429.3	1447.8	1466.4	1489.7	1498.4	1497.7	1489.4	1477.3	1462.3	1446.3
23°	1406.0	1418.7	1437.0	1455.8	1478.8	1487.9	1487.1	1479.1	1466.7	1451.7	1435.2
23.5°	1394.9	1407.8	1426.2	1445.0	1468.2	1477.3	1476.2	1468.5	1455.8	1441.1	1424.6
24°	1383.8	1396.7	1414.8	1433.9	1457.7	1466.4	1465.7	1457.4	1445.3	1430.3	1413.5
24.5°	1372.7	1385.7	1404.0	1423.1	1446.6	1454.8	1454.6	1446.3	1434.2	1418.9	1402.7
25°	1361.4	1374.6	1392.6	1411.5	1435.2	1443.7	1443.2	1435.2	1423.3	1408.1	1391.3
25.5°	1350.3	1363.5	1381.5	1400.4	1423.8	1432.4	1431.8	1424.1	1412.2	1396.7	1380.2
26°	1338.7	1352.4	1370.2	1389.0	1412.5	1420.5	1420.2	1413.0	1400.9	1385.4	1368.6
26.5°	1327.1	1340.7	1358.3	1377.4	1400.9	1409.1	1408.9	1401.4	1389.3	1373.8	1357.3
27°	1315.7	1329.4	1346.7	1365.8	1389.3	1397.0	1397.3	1389.3	1377.9	1362.2	1345.6
27.5°	1303.8	1317.8	1335.1	1353.4	1377.1	1385.1	1385.4	1377.6	1366.3	1350.6	1333.8
28°	1292.0	1305.9	1322.9	1341.5	1365.3	1373.5	1373.0	1366.0	1354.4	1338.7	1321.6
28.5°	1279.8	1293.8	1310.8	1329.1	1352.9	1360.6	1360.6	1353.9	1342.6	1326.5	1310.0
29°	1267.7	1282.2	1298.7	1317.0	1340.7	1348.2	1348.5	1341.3	1330.4	1314.4	1297.9
29.5°	1255.6	1269.8	1286.5	1304.4	1328.4	1335.6	1336.1	1328.9	1318.3	1302.3	1285.8
30°	1243.4	1257.6	1274.2	1292.0	1316.0	1323.5	1323.2	1316.7	1305.9	1289.9	1273.1
30.5°	1230.5	1245.3	1261.5	1279.6	1302.5	1310.0	1310.0	1304.1	1293.0	1277.3	1260.5
31°	1217.6	1232.6	1248.9	1266.4	1289.9	1296.9	1297.4	1290.7	1280.6	1264.9	1248.1
31.5°	1205.0	1220.0	1235.7	1253.3	1276.5	1283.7	1284.0	1278.0	1267.4	1252.0	1235.4
32°	1192.1	1207.3	1222.8	1240.1	1263.3	1270.8	1270.5	1264.9	1254.8	1238.8	1222.5
32.5°	1178.9	1193.9	1209.6	1226.9	1249.9	1256.9	1256.6	1251.7	1241.6	1225.9	1209.1
33°	1165.5	1180.7	1196.2	1213.5	1236.2	1242.9	1243.4	1238.0	1228.2	1212.7	1196.0
33.5°	1152.1	1167.1	1182.8	1199.6	1222.0	1229.0	1229.3	1224.3	1214.3	1199.6	1182.8
34°	1138.1	1153.6	1169.1	1186.2	1208.1	1215.3	1215.1	1210.4	1200.6	1185.6	1169.1
34.5°	1124.2	1140.0	1155.2	1171.4	1193.9	1200.1	1200.6	1196.0	1186.7	1171.7	1155.4
35°	1110.0	1125.8	1141.2	1157.2	1178.9	1185.9	1186.2	1181.5	1172.7	1158.0	1141.2
35.5°	1095.3	1111.6	1127.1	1142.5	1164.5	1170.7	1171.2	1167.1	1158.0	1144.1	1127.1
36°	1080.6	1097.4	1112.3	1127.8	1149.5	1156.0	1156.2	1152.3	1143.8	1129.9	1113.4
36.5°	1065.4	1082.1	1097.6	1112.6	1134.5	1140.0	1141.0	1136.9	1128.9	1114.9	1098.9
37°	1050.4	1066.9	1082.7	1097.4	1118.3	1124.5	1125.0	1121.4	1114.1	1100.2	1084.0
37.5°	1034.9	1051.2	1067.2	1081.9	1102.5	1108.0	1108.7	1105.6	1098.4	1085.5	1069.0
38°	1018.7	1035.7	1051.4	1065.4	1086.3	1091.7	1092.7	1089.4	1082.4	1070.0	1054.5
38.5°	1002.4	1019.4	1035.2	1048.9	1069.5	1075.2	1076.2	1072.6	1066.7	1054.3	1038.3
39°	985.4	1002.9	1018.4	1032.3	1052.5	1057.6	1058.9	1055.8	1050.4	1038.3	1022.0
39.5°	967.8	984.6	1000.6	1014.3	1034.7	1040.1	1041.4	1038.5	1033.4	1021.2	1004.7
40°	949.7	966.5	982.0	995.9	1016.8	1022.3	1023.3	1021.0	1015.3	1003.9	988.5
40.5°	930.1	947.4	963.2	977.1	997.8	1003.4	1005.2	1002.7	997.2	985.9	969.6
41°	911.3	928.3	944.1	958.3	979.2	984.8	986.1	983.8	978.9	967.0	950.8
41.5°	892.7	909.2	925.0	939.4	960.6	966.0	967.8	965.0	959.8	947.7	931.7
42°	873.9	890.1	905.9	920.3	941.7	948.2	949.7	947.2	941.5	929.6	914.1
42.5°	853.2	870.0	886.0	900.7	922.9	929.1	931.2	928.8	922.9	911.0	894.8
43°	834.6	851.2	867.4	881.9	903.6	910.0	912.1	909.2	903.6	891.2	875.7
43.5°	817.4	833.6	849.9	864.3	885.5	891.9	893.7	890.4	883.7	871.3	855.8



TEST NUMBER: P776034

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	771.4	787.4	802.9	816.6	836.2	842.4	844.2	840.6	833.4	820.7	806.0
45.5°	757.0	773.2	788.7	802.1	821.2	827.2	829.0	825.4	818.1	806.0	791.0
46°	743.5	759.8	774.8	788.2	806.8	812.4	814.3	810.6	803.7	791.5	776.8
46.5°	730.1	746.4	761.1	774.3	792.6	798.5	800.3	797.0	789.7	777.6	762.9
47°	717.0	733.0	747.9	760.8	778.6	784.6	786.4	783.0	775.8	764.2	749.7
47.5°	703.8	719.8	734.5	747.4	765.0	771.2	773.0	769.1	762.1	750.8	736.3
48°	690.4	706.4	720.6	734.0	751.3	757.7	759.3	755.7	749.0	737.6	723.1
48.5°	675.4	691.1	706.1	719.8	737.9	744.3	746.1	742.8	735.5	724.2	710.0
49°	659.1	673.9	689.1	704.1	723.1	730.1	732.4	728.8	721.1	709.2	695.5
49.5°	642.6	656.6	672.0	687.5	707.7	715.1	717.2	713.1	705.3	693.0	679.0
50°	623.8	637.2	652.7	669.5	691.7	699.9	702.0	697.6	689.1	676.7	662.8
50.5°	603.9	617.6	633.6	650.9	674.1	682.6	684.4	681.3	672.0	659.7	644.7
51°	583.5	597.7	612.7	630.8	655.3	663.0	665.9	662.8	654.0	640.8	626.1
51.5°	562.9	576.8	592.0	609.6	635.4	643.7	647.3	642.9	635.1	621.5	606.8
52°	541.7	555.4	570.4	587.4	613.7	623.5	627.1	623.0	614.8	601.3	586.9
52.5°	520.3	533.7	549.2	564.9	591.5	602.9	606.5	602.4	593.1	580.2	566.5
53°	498.4	511.8	526.2	541.5	568.6	581.5	586.1	580.7	570.1	558.0	545.8
53.5°	476.4	489.3	504.0	518.0	545.3	560.0	565.5	559.5	547.7	536.3	524.2
54°	454.2	466.9	480.6	494.0	521.8	537.3	543.8	536.3	524.7	513.6	502.2
54.5°	432.3	445.5	457.3	470.5	498.6	514.9	521.3	513.6	501.2	490.9	480.0
55°	410.4	422.7	433.6	446.7	475.1	492.9	499.6	491.4	478.5	468.2	458.4
55.5°	388.2	400.3	410.6	423.3	452.4	469.7	477.7	468.7	456.3	444.9	435.6
56°	366.5	377.6	387.4	399.3	428.9	446.5	454.5	444.9	433.3	421.5	413.2
56.5°	345.1	355.9	363.9	376.3	406.0	424.0	431.8	422.5	410.9	398.5	390.7
57°	323.9	333.4	340.7	353.3	383.0	400.3	408.8	400.0	388.4	376.0	368.8
57.5°	302.7	311.8	318.5	331.4	361.3	377.8	386.4	378.1	367.0	353.6	346.1
58°	282.1	290.1	296.8	309.2	339.4	354.9	363.1	355.6	345.1	331.1	324.4
58.5°	262.0	269.2	275.1	288.3	318.2	332.9	340.4	334.2	324.4	310.0	303.2
59°	242.1	248.0	254.0	267.4	296.8	310.7	317.7	312.3	303.0	289.1	281.8
59.5°	223.5	228.1	233.8	246.7	275.9	289.3	295.2	291.9	281.8	268.9	261.4
60°	204.4	207.8	214.0	227.1	255.2	267.9	273.6	270.2	261.4	250.1	242.1
60.5°	186.1	188.9	194.9	208.0	235.9	248.0	253.2	250.6	242.3	231.2	223.0
61°	168.5	170.3	176.0	188.7	216.8	228.1	232.8	231.2	223.2	212.4	203.9
61.5°	151.5	153.0	158.5	171.9	197.4	208.3	212.4	211.6	204.1	193.6	184.8
62°	134.7	135.8	141.9	154.3	178.1	188.4	192.0	192.0	185.0	174.7	165.7
62.5°	119.2	119.8	125.7	137.8	160.0	168.5	171.6	172.4	165.9	157.7	148.9
63°	104.0	104.3	110.7	122.3	142.7	150.5	153.3	154.3	146.3	141.4	132.7
63.5°	88.5	90.3	96.0	107.4	125.9	132.7	135.8	136.5	128.0	125.7	117.4
64°	75.6	79.0	84.7	92.9	110.2	116.4	119.2	120.0	110.2	110.5	103.0
64.5°	62.7	67.9	73.3	81.3	95.0	100.7	103.5	103.7	92.9	96.3	89.3
65°	49.8	57.0	61.9	69.7	81.0	85.7	88.8	88.8	76.4	82.3	76.7
65.5°	36.9	45.9	50.6	58.1	67.6	72.0	74.8	74.3	61.7	69.7	65.3
66°	27.1	34.8	39.2	46.5	55.2	59.1	61.9	60.9	48.0	57.6	53.9



TEST NUMBER: P776034

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	8.5	14.7	17.0	18.8	28.9	31.2	33.6	32.8	21.9	32.0	30.2
68°	6.7	10.1	11.9	12.6	21.4	23.2	25.0	24.8	13.2	24.5	23.5
68.5°	4.9	7.7	7.2	8.0	13.7	15.2	16.8	16.8	4.4	17.0	16.5
69°	3.1	5.7	5.7	6.2	6.2	7.5	8.5	8.8	2.1	9.8	9.8
69.5°	1.3	3.4	4.1	4.4	3.1	3.9	4.4	4.9	1.3	5.9	5.7
70°	1.0	1.3	2.6	2.6	1.5	1.8	2.1	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: P776034
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-5000K

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: P776034

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1718.3	1718.3	1718.3	1718.3	1718.3	1718.3
0.5°	1717.3	1718.1	1717.3	1716.3	1716.5	1717.0
1°	1716.5	1716.8	1715.7	1714.7	1715.0	1715.7
1.5°	1715.2	1715.0	1713.7	1712.6	1712.9	1714.2
2°	1713.9	1713.2	1711.6	1710.6	1711.1	1712.1
2.5°	1712.1	1710.8	1709.3	1708.0	1708.5	1710.1
3°	1710.1	1708.5	1706.7	1705.4	1705.9	1707.7
3.5°	1708.0	1705.7	1703.9	1702.6	1703.1	1704.9
4°	1705.4	1702.8	1700.8	1699.5	1700.0	1701.8
4.5°	1702.6	1699.5	1697.4	1695.9	1696.6	1698.4
5°	1699.5	1696.1	1694.1	1692.5	1693.0	1695.1
5.5°	1696.1	1692.3	1690.2	1688.4	1688.9	1691.2
6°	1692.5	1688.4	1686.1	1684.5	1684.8	1686.8
6.5°	1688.4	1684.3	1681.9	1680.1	1680.1	1682.7
7°	1684.3	1679.6	1677.3	1675.5	1675.7	1678.1
7.5°	1679.9	1674.7	1672.4	1670.6	1670.8	1672.9
8°	1675.0	1669.8	1667.2	1665.4	1665.4	1667.7
8.5°	1669.8	1664.4	1662.1	1660.0	1660.0	1662.1
9°	1664.4	1658.7	1656.4	1654.6	1654.1	1656.4
9.5°	1658.7	1652.8	1650.4	1648.6	1648.1	1650.2
10°	1652.8	1646.6	1644.2	1642.4	1641.7	1643.7
10.5°	1646.6	1640.1	1637.8	1636.0	1635.2	1637.0
11°	1639.9	1633.4	1631.1	1629.3	1628.2	1630.1
11.5°	1633.2	1626.2	1624.1	1622.3	1621.3	1622.8
12°	1626.4	1619.2	1616.9	1615.1	1613.8	1615.6
12.5°	1619.0	1611.5	1609.4	1607.6	1606.3	1607.9
13°	1611.5	1603.7	1601.9	1600.1	1598.3	1599.9
13.5°	1603.5	1595.5	1593.9	1591.9	1590.3	1591.9
14°	1595.5	1587.2	1585.7	1583.6	1582.1	1583.6
14.5°	1587.5	1579.0	1577.4	1575.3	1573.5	1575.1
15°	1578.7	1570.2	1568.6	1566.6	1564.5	1566.3
15.5°	1569.9	1561.4	1559.6	1557.8	1555.7	1557.5
16°	1561.1	1552.1	1550.3	1548.5	1546.7	1548.2
16.5°	1552.1	1542.8	1541.3	1539.5	1537.1	1539.2
17°	1543.1	1533.5	1531.7	1529.9	1527.9	1529.4
17.5°	1533.8	1523.7	1521.9	1520.1	1517.8	1519.9
18°	1524.0	1513.9	1512.1	1510.3	1508.0	1510.0
18.5°	1514.2	1503.9	1501.8	1500.2	1497.9	1500.2
19°	1504.1	1493.8	1491.7	1489.9	1487.9	1490.2
19.5°	1494.3	1483.7	1481.4	1479.6	1477.5	1480.4
20°	1484.2	1473.1	1470.6	1468.8	1466.9	1469.8
20.5°	1473.9	1462.6	1460.0	1458.2	1456.4	1459.5
21°	1463.6	1451.5	1449.1	1447.1	1445.5	1448.9



TEST NUMBER: P776034

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1431.6	1418.9	1415.6	1413.5	1412.7	1416.6
23°	1420.7	1407.6	1404.2	1401.4	1401.7	1406.0
23.5°	1409.9	1396.2	1392.6	1390.3	1390.3	1394.9
24°	1398.8	1384.9	1380.7	1378.2	1378.9	1383.8
24.5°	1387.5	1373.5	1369.1	1366.6	1367.1	1372.7
25°	1376.4	1362.2	1357.0	1354.2	1355.5	1361.4
25.5°	1365.0	1350.6	1345.1	1342.6	1344.1	1350.3
26°	1353.4	1338.7	1332.7	1329.6	1332.2	1338.7
26.5°	1341.8	1326.5	1320.9	1317.8	1320.4	1327.1
27°	1330.2	1314.7	1308.2	1305.1	1308.2	1315.7
27.5°	1318.5	1302.5	1295.8	1292.5	1295.8	1303.8
28°	1306.7	1290.2	1283.2	1279.8	1283.4	1292.0
28.5°	1294.5	1277.8	1270.5	1266.9	1271.1	1279.8
29°	1282.4	1265.4	1257.6	1253.8	1258.7	1267.7
29.5°	1270.3	1252.7	1244.7	1240.9	1245.8	1255.6
30°	1257.9	1240.1	1231.3	1228.0	1232.9	1243.4
30.5°	1245.3	1227.2	1218.2	1214.5	1220.0	1230.5
31°	1232.9	1214.0	1204.7	1200.9	1206.8	1217.6
31.5°	1219.7	1200.9	1191.3	1187.4	1193.4	1205.0
32°	1206.5	1187.7	1177.4	1173.8	1180.2	1192.1
32.5°	1193.6	1174.3	1163.7	1160.1	1166.5	1178.9
33°	1180.2	1160.3	1150.0	1146.4	1152.9	1165.5
33.5°	1166.8	1146.4	1136.1	1132.2	1139.2	1152.1
34°	1152.9	1132.5	1122.1	1118.0	1125.2	1138.1
34.5°	1138.9	1118.3	1107.4	1103.8	1111.0	1124.2
35°	1125.0	1103.8	1093.0	1089.4	1096.6	1110.0
35.5°	1110.8	1089.1	1078.8	1074.9	1082.1	1095.3
36°	1096.6	1074.1	1063.8	1060.2	1067.4	1080.6
36.5°	1081.6	1059.2	1049.1	1045.2	1052.7	1065.4
37°	1066.4	1043.7	1033.6	1030.3	1037.5	1050.4
37.5°	1051.2	1027.9	1018.1	1015.0	1022.0	1034.9
38°	1035.4	1012.2	1002.7	999.3	1006.3	1018.7
38.5°	1019.4	995.7	986.4	983.3	990.0	1002.4
39°	1002.7	979.2	970.4	967.3	974.0	985.4
39.5°	986.1	961.9	953.1	950.5	956.2	967.8
40°	968.8	944.3	935.3	932.7	938.1	949.7
40.5°	950.5	926.0	917.0	914.4	919.3	930.1
41°	931.7	907.2	898.4	895.5	901.0	911.3
41.5°	912.8	888.3	879.5	877.2	881.9	892.7
42°	894.8	870.5	861.5	858.6	863.8	873.9
42.5°	876.2	851.9	842.6	839.0	843.9	853.2
43°	857.4	832.6	823.5	820.7	825.1	834.6
43.5°	838.0	813.7	805.0	802.1	807.0	817.4



TEST NUMBER: P776034

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	788.2	766.0	757.7	755.4	760.6	771.4
45.5°	773.5	751.3	743.0	741.2	746.4	757.0
46°	759.5	737.6	729.6	727.5	733.0	743.5
46.5°	745.6	724.4	716.2	714.4	719.5	730.1
47°	733.0	711.5	703.0	701.2	706.4	717.0
47.5°	719.5	697.9	690.1	688.1	693.5	703.8
48°	706.6	685.5	677.2	675.1	680.3	690.4
48.5°	693.7	671.8	664.3	661.7	666.6	675.4
49°	679.5	658.1	650.1	647.3	651.4	659.1
49.5°	663.8	642.1	635.4	632.3	635.1	642.6
50°	647.5	626.6	619.4	616.3	617.9	623.8
50.5°	630.0	608.6	602.4	598.2	598.8	603.9
51°	610.9	590.0	583.3	578.9	579.1	583.5
51.5°	591.8	569.8	563.4	558.0	559.0	562.9
52°	572.4	549.7	542.2	536.6	537.1	541.7
52.5°	552.0	528.3	520.6	514.9	515.1	520.3
53°	531.4	507.1	498.6	492.4	492.9	498.4
53.5°	510.0	485.5	476.2	470.0	470.5	476.4
54°	488.8	464.0	454.0	447.5	448.0	454.2
54.5°	467.4	442.9	432.0	425.1	425.6	432.3
55°	446.5	421.5	409.6	402.4	403.4	410.4
55.5°	424.8	399.5	387.9	379.4	381.7	388.2
56°	402.9	378.4	366.0	357.2	360.0	366.5
56.5°	381.7	357.4	344.8	335.5	338.9	345.1
57°	359.8	336.8	323.1	313.8	317.4	323.9
57.5°	338.9	316.4	302.5	292.9	296.5	302.7
58°	318.0	296.3	282.3	272.8	276.1	282.1
58.5°	296.8	276.1	262.7	252.7	256.8	262.0
59°	276.1	256.8	243.6	233.6	236.7	242.1
59.5°	256.8	238.0	224.5	215.0	218.3	223.5
60°	237.7	219.4	206.2	196.9	200.3	204.4
60.5°	218.6	200.5	188.7	179.9	182.5	186.1
61°	199.5	183.0	171.4	163.6	164.9	168.5
61.5°	180.4	165.7	155.4	148.4	149.4	151.5
62°	162.6	148.7	139.6	132.9	133.7	134.7
62.5°	145.6	132.4	124.7	119.0	118.5	119.2
63°	129.0	116.9	110.5	105.3	104.0	104.0
63.5°	113.3	102.2	97.3	92.9	91.1	88.5
64°	98.3	88.0	86.2	82.6	80.5	75.6
64.5°	84.9	76.4	75.4	72.0	69.9	62.7
65°	71.7	64.8	64.5	61.7	59.1	49.8
65.5°	59.9	53.4	53.4	51.4	48.5	36.9
66°	49.0	41.8	42.6	41.0	37.7	27.1



TEST NUMBER: P776034

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	26.8	18.8	19.9	19.6	16.3	8.5
68°	20.6	13.4	14.5	13.9	11.4	6.7
68.5°	14.5	9.3	9.5	9.3	9.3	4.9
69°	8.3	7.2	7.5	7.2	7.2	3.1
69.5°	4.9	5.2	5.4	5.2	5.2	1.3
70°	2.6	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: P776034

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-2500lm-5000K

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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Scaled Data Report





21.5°	1438.3	1450.4	1468.8	1487.3	1510.6	1519.1	1518.0	1510.0	1497.4	1483.2	1467.2
22°	1427.5	1439.8	1458.2	1477.3	1500.2	1509.0	1508.0	1499.7	1487.3	1472.9	1456.6



44°	801.1	817.6	833.4	847.8	868.5	874.9	876.5	872.8	865.6	853.0	838.3
44.5°	785.9	802.1	817.9	831.8	851.9	858.1	859.7	856.6	849.1	836.4	821.0



66.5°	19.6	26.8	30.7	34.8	44.1	47.2	50.1	48.8	39.2	46.7	44.1
67°	13.4	20.1	23.5	26.3	36.6	39.2	41.8	40.8	30.5	39.2	37.2



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°	1453.3	1440.6	1438.0	1436.0	1434.9	1438.3
22°	1442.2	1429.8	1426.9	1424.4	1423.6	1427.5



44°	820.2	797.0	788.7	785.6	791.0	801.1
44.5°	803.7	781.2	772.7	770.4	775.5	785.9

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66.5°	39.5	32.8	34.3	33.0	29.7	19.6
67°	33.0	25.0	26.6	25.8	22.5	13.4



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)