

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: P776196

Luminaire Tested: HCDJBL51525CSD-HCD8TRMW-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776196
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-HCD8TRMW-2500lm-3000K
Description: 8 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

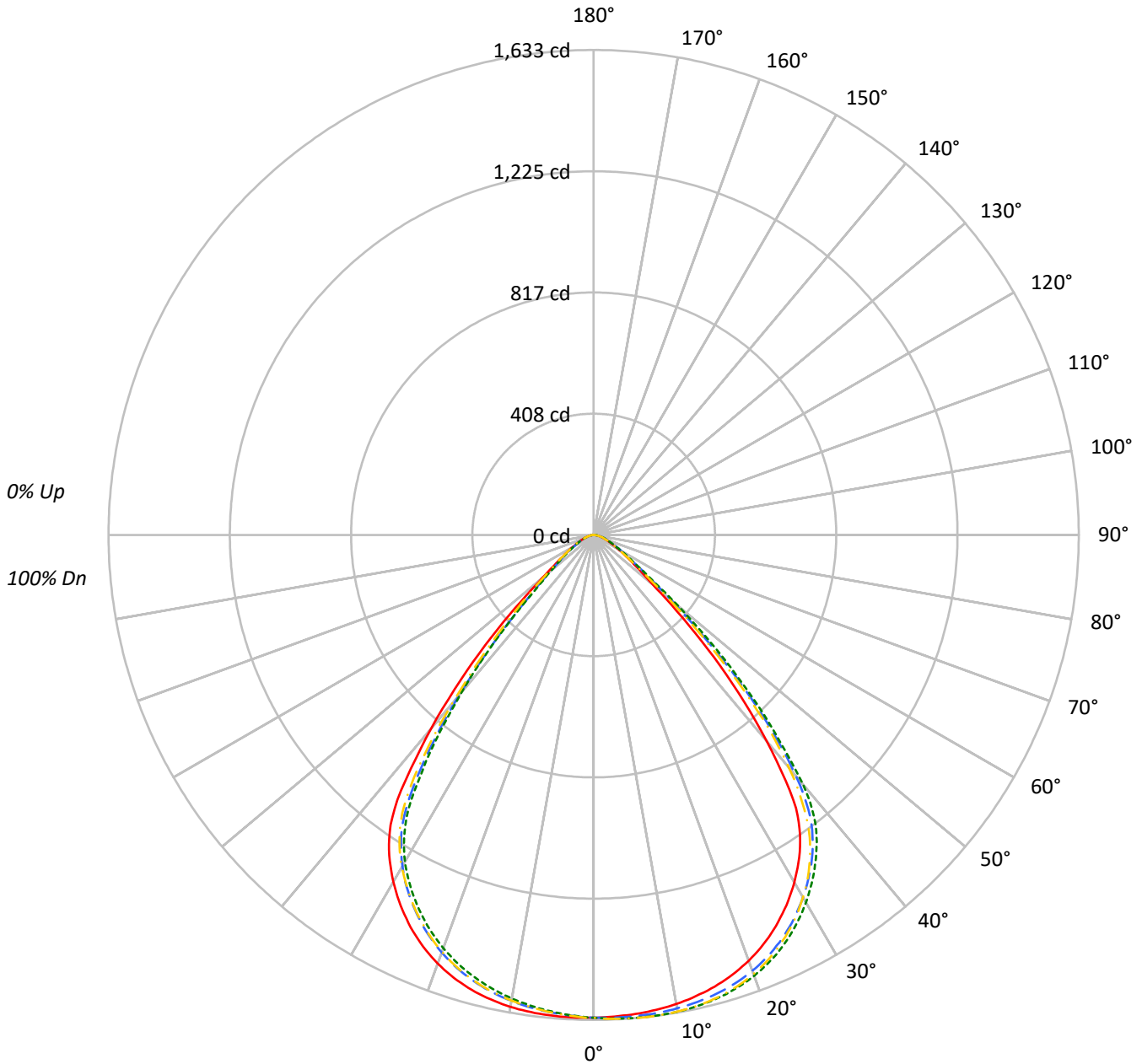
Lumens per Lamp: N/A
Luminaire Lumens: 2633.8 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P776196

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91								
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82								
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74								
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66								
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60								
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55								
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50								
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	49642	49642	49642	49642
5°	49620	50028	49795	49378
10°	49711	50532	50027	49137
15°	49762	51033	50129	48770
20°	49573	51327	49891	48104
25°	48926	51173	49101	46854
30°	47617	50377	47539	44796
35°	45030	48701	44397	39149
40°	36156	43676	33940	27496
45°	23466	30780	20992	15289
50°	12430	17488	10815	8844
55°	8112	9294	6898	6180
60°	5819	6466	4989	4647
65°	4515	4992	3887	3692
70°	3633	4124	3133	2973
75°	2996	3527	2501	2359
80°	2391	3077	1864	1741
85°	1716	2837	1051	876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 31419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	5.9
10°-20°	445.7	16.9
20°-30°	668.6	25.4
30°-40°	723.6	27.5
40°-50°	412.1	15.6
50°-60°	136.8	5.2
60°-70°	60.4	2.3
70°-80°	26.3	1.0
80°-90°	5.8	0.2
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°	1268.6	48.2
0°-40°	1992.3	75.6
0°-60°	2541.2	96.5
0°-90°	2633.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1619	1632	1625	1611	1619	154
15°	1574	1615	1586	1543	1574	444
25°	1452	1519	1458	1391	1452	668
35°	1208	1307	1191	1050	1208	735
45°	544	713	486	354	544	423
55°	152	175	130	116	152	142
65°	62	69	54	51	62	64
75°	25	30	21	20	25	27
85°	5	8	3	2	5	6
90°	0	1	0	0	0	



TEST NUMBER: P776196

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0
0.5°	1625.3	1625.8	1625.8	1626.0	1627.0	1627.7	1628.5	1627.5	1626.0	1625.3	1624.5
1°	1625.0	1625.8	1626.0	1626.5	1628.0	1628.7	1629.2	1628.0	1626.2	1625.0	1623.8
1.5°	1624.5	1625.5	1626.5	1627.2	1628.7	1629.7	1630.0	1628.5	1626.2	1624.8	1623.0
2°	1624.0	1625.5	1626.7	1628.0	1629.5	1630.7	1630.7	1629.0	1626.2	1624.3	1622.1
2.5°	1623.5	1625.3	1627.0	1628.5	1630.2	1631.2	1631.2	1629.2	1626.2	1623.8	1621.1
3°	1622.8	1625.0	1627.0	1629.0	1630.9	1632.2	1631.7	1629.5	1626.2	1623.0	1620.1
3.5°	1621.8	1624.8	1627.0	1629.5	1631.4	1632.7	1632.4	1629.5	1625.8	1622.5	1618.8
4°	1621.1	1624.3	1627.0	1629.7	1631.9	1633.2	1632.7	1629.7	1625.5	1621.8	1617.6
4.5°	1620.3	1623.5	1626.7	1630.0	1632.2	1633.7	1632.9	1629.7	1625.3	1620.8	1616.4
5°	1619.1	1622.8	1626.5	1630.0	1632.4	1633.9	1633.2	1629.5	1624.8	1619.8	1614.9
5.5°	1618.1	1622.3	1626.2	1630.2	1632.4	1634.2	1633.2	1629.2	1624.3	1618.8	1613.4
6°	1616.9	1621.3	1625.8	1630.2	1632.7	1634.4	1633.4	1629.0	1623.5	1617.6	1611.7
6.5°	1615.6	1620.6	1625.3	1630.0	1632.7	1634.4	1633.4	1628.5	1622.8	1616.4	1610.0
7°	1614.4	1619.3	1624.8	1629.7	1632.7	1634.4	1633.2	1628.0	1621.8	1614.9	1608.0
7.5°	1612.9	1618.3	1624.0	1629.5	1632.4	1634.4	1632.9	1627.5	1620.8	1613.4	1606.0
8°	1611.2	1617.1	1623.3	1629.0	1632.2	1634.2	1632.4	1626.7	1619.6	1611.9	1603.8
8.5°	1609.5	1615.9	1622.3	1628.5	1631.7	1633.9	1631.9	1625.8	1618.3	1610.0	1601.6
9°	1607.7	1614.4	1621.3	1627.7	1631.2	1633.7	1631.4	1624.8	1616.9	1608.2	1599.1
9.5°	1605.8	1612.7	1620.3	1627.2	1630.7	1632.9	1630.7	1623.5	1615.4	1606.0	1596.4
10°	1603.5	1610.9	1618.8	1626.2	1630.0	1632.4	1629.7	1622.3	1613.7	1603.8	1593.4
10.5°	1601.3	1609.2	1617.6	1625.5	1629.0	1631.4	1628.7	1620.8	1611.7	1601.3	1590.7
11°	1599.1	1607.2	1616.1	1624.3	1628.0	1630.4	1627.5	1619.3	1609.5	1598.6	1587.7
11.5°	1596.4	1605.0	1614.6	1623.3	1627.0	1629.5	1626.2	1617.6	1607.2	1596.1	1584.5
12°	1593.7	1602.8	1612.9	1622.1	1625.8	1628.2	1624.8	1615.6	1604.8	1593.2	1580.8
12.5°	1590.9	1600.6	1610.9	1620.6	1624.3	1627.0	1623.0	1613.4	1602.1	1590.0	1577.4
13°	1587.7	1597.9	1609.0	1618.8	1622.8	1625.5	1621.3	1610.9	1599.3	1586.5	1573.4
13.5°	1584.8	1595.1	1606.7	1617.4	1620.8	1623.8	1619.1	1608.5	1596.4	1583.0	1569.5
14°	1581.6	1592.2	1604.5	1615.4	1619.1	1621.8	1616.9	1605.8	1593.2	1579.3	1565.0
14.5°	1578.1	1589.2	1602.1	1613.4	1616.9	1619.8	1614.6	1602.8	1589.7	1575.4	1560.8
15°	1574.4	1586.2	1599.6	1611.2	1614.6	1617.6	1612.2	1599.6	1586.0	1570.9	1556.1
15.5°	1570.4	1582.8	1596.6	1608.7	1611.9	1615.1	1609.5	1596.4	1582.0	1566.5	1551.2
16°	1566.2	1579.3	1593.7	1606.0	1609.5	1612.4	1606.5	1592.7	1577.9	1561.8	1546.0
16.5°	1562.0	1575.6	1590.4	1603.3	1606.5	1609.7	1603.0	1588.7	1573.4	1556.9	1540.8
17°	1557.4	1571.7	1587.2	1600.3	1603.3	1606.7	1599.6	1584.5	1569.0	1551.7	1534.9
17.5°	1552.9	1567.5	1583.5	1597.1	1600.1	1603.5	1595.9	1580.1	1564.0	1546.5	1529.2
18°	1548.0	1563.3	1579.8	1593.4	1596.6	1600.1	1591.9	1575.4	1558.8	1540.6	1523.0
18.5°	1542.8	1558.6	1575.6	1590.0	1592.7	1596.1	1587.5	1570.7	1553.4	1534.6	1516.9
19°	1537.1	1553.9	1571.4	1586.0	1588.5	1591.9	1583.0	1565.5	1548.0	1528.5	1510.2
19.5°	1531.4	1549.0	1567.0	1581.8	1584.3	1588.0	1578.6	1560.1	1541.8	1522.0	1503.0
20°	1525.8	1543.5	1561.8	1577.4	1579.8	1583.3	1573.7	1554.1	1535.6	1515.1	1495.9
20.5°	1519.6	1538.1	1557.1	1572.7	1574.9	1578.3	1568.2	1548.2	1529.2	1508.2	1488.7
21°	1513.2	1532.4	1551.9	1568.0	1570.0	1573.2	1562.5	1541.8	1522.3	1500.8	1480.6



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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°	1492.4	1513.4	1534.4	1551.4	1552.9	1556.4	1544.0	1521.3	1500.3	1477.4	1455.9
23°	1485.0	1506.7	1528.2	1545.5	1547.0	1549.9	1537.4	1513.7	1492.4	1468.7	1446.7
23.5°	1477.1	1499.8	1521.6	1539.3	1540.6	1543.8	1529.9	1506.0	1483.8	1459.8	1437.6
24°	1469.2	1492.4	1514.4	1532.7	1533.7	1536.9	1522.8	1497.8	1475.4	1450.7	1428.2
24.5°	1460.8	1485.0	1507.7	1525.8	1526.5	1529.7	1515.1	1489.5	1466.7	1441.5	1418.3
25°	1452.4	1476.9	1500.1	1518.6	1519.1	1522.3	1507.2	1480.8	1457.6	1431.7	1408.2
25.5°	1443.5	1468.7	1492.4	1511.2	1511.4	1514.6	1498.8	1471.7	1448.0	1421.3	1397.8
26°	1434.1	1460.3	1484.0	1503.5	1503.8	1506.7	1490.2	1462.3	1437.8	1410.9	1387.0
26.5°	1424.8	1451.4	1476.1	1495.4	1495.1	1498.3	1481.1	1452.4	1428.0	1400.8	1376.4
27°	1415.1	1442.5	1467.5	1487.2	1486.7	1489.5	1471.9	1442.5	1417.6	1389.7	1364.8
27.5°	1405.3	1432.9	1458.3	1478.6	1477.8	1480.6	1462.3	1432.2	1407.0	1378.6	1353.1
28°	1395.1	1423.5	1449.5	1469.7	1468.7	1471.2	1452.4	1421.8	1395.9	1367.5	1341.1
28.5°	1384.3	1413.4	1439.6	1460.3	1459.1	1461.8	1442.0	1410.7	1384.5	1355.4	1329.0
29°	1373.4	1403.3	1429.9	1450.9	1449.5	1451.7	1431.2	1399.3	1372.9	1343.3	1315.9
29.5°	1362.0	1392.4	1419.6	1441.3	1439.3	1441.3	1420.3	1387.5	1360.8	1330.7	1302.0
30°	1350.7	1381.8	1409.4	1430.9	1429.0	1430.7	1409.0	1375.6	1348.5	1318.1	1287.7
30.5°	1338.3	1370.7	1398.3	1420.8	1418.1	1419.8	1397.6	1363.5	1335.4	1304.3	1272.7
31°	1326.2	1359.1	1387.5	1409.9	1407.0	1408.7	1385.5	1350.4	1322.8	1290.2	1257.3
31.5°	1313.9	1346.5	1376.1	1398.8	1395.4	1396.9	1373.2	1336.9	1308.7	1275.9	1241.0
32°	1301.0	1334.9	1364.3	1387.2	1384.5	1385.3	1360.1	1322.8	1294.6	1261.0	1224.0
32.5°	1287.5	1322.0	1352.2	1375.9	1372.2	1372.9	1346.2	1308.2	1280.1	1244.7	1205.7
33°	1273.4	1309.0	1340.1	1364.0	1359.8	1360.1	1331.9	1293.4	1265.0	1227.5	1186.0
33.5°	1258.1	1295.6	1327.5	1351.7	1347.0	1347.0	1317.6	1277.3	1248.5	1208.7	1164.0
34°	1242.8	1281.3	1314.1	1339.3	1334.1	1333.1	1301.8	1260.8	1231.2	1188.7	1139.3
34.5°	1226.0	1265.7	1299.8	1326.2	1320.6	1318.6	1286.2	1243.3	1212.4	1164.0	1112.2
35°	1208.2	1249.9	1285.5	1312.9	1306.7	1303.8	1269.4	1224.5	1191.2	1138.1	1082.3
35.5°	1188.2	1232.7	1269.7	1298.8	1292.4	1288.5	1251.9	1203.0	1166.7	1109.9	1049.4
36°	1167.7	1214.4	1253.6	1284.3	1277.8	1272.7	1232.4	1179.3	1140.5	1077.8	1014.6
36.5°	1144.3	1195.1	1236.1	1269.4	1261.8	1255.1	1211.7	1154.4	1110.7	1043.0	978.8
37°	1117.1	1172.6	1217.8	1253.1	1245.0	1236.1	1189.4	1128.4	1076.3	1006.5	942.3
37.5°	1085.0	1147.7	1197.6	1235.1	1225.7	1215.1	1165.0	1099.1	1038.3	968.2	903.7
38°	1050.4	1119.6	1174.4	1215.1	1205.0	1193.1	1139.3	1069.2	999.1	928.2	864.5
38.5°	1014.4	1087.7	1148.7	1193.1	1181.8	1168.7	1113.1	1036.8	959.6	887.7	824.5
39°	978.3	1052.9	1121.5	1168.4	1156.8	1143.3	1084.5	1004.2	923.0	847.2	784.7
39.5°	942.8	1017.8	1091.9	1142.8	1128.2	1114.1	1054.6	967.9	887.4	807.9	745.0
40°	907.2	983.7	1060.0	1113.6	1095.9	1084.7	1022.0	931.9	851.6	769.7	705.0
40.5°	869.9	950.9	1025.5	1082.3	1057.1	1052.1	989.4	893.4	814.4	731.1	665.7
41°	832.9	916.3	989.2	1048.4	1017.3	1019.8	955.6	855.1	775.6	691.6	626.9
41.5°	795.6	881.0	952.1	1012.4	976.6	984.7	921.3	816.6	737.3	652.4	589.7
42°	758.3	844.0	914.9	973.6	938.3	947.7	885.7	779.8	699.3	615.8	551.6
42.5°	721.3	805.0	876.6	933.4	903.0	909.2	847.4	741.0	662.3	579.3	515.1
43°	685.5	766.2	836.8	891.6	867.2	871.2	807.4	703.0	626.7	544.7	481.3
43.5°	649.9	727.9	798.1	851.2	829.7	832.4	767.9	664.7	591.9	511.4	447.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	543.5	615.6	678.8	727.7	712.9	718.8	646.9	553.9	486.2	417.8	361.3
45.5°	509.4	578.5	638.5	689.4	675.1	681.3	606.0	517.8	452.9	387.9	335.6
46°	475.8	541.8	598.1	649.7	638.8	643.2	569.4	482.5	420.5	360.5	312.9
46.5°	443.5	505.7	559.8	612.9	603.0	605.2	530.6	447.9	390.1	332.9	291.4
47°	411.9	470.6	521.8	576.3	567.2	567.9	495.1	415.3	361.7	308.4	271.9
47.5°	380.3	436.1	487.7	541.5	530.9	530.9	460.8	383.5	333.8	285.9	253.8
48°	352.4	404.0	454.1	507.7	495.1	495.3	428.4	353.6	307.7	265.4	237.8
48.5°	325.7	373.4	422.0	475.8	460.8	460.5	395.6	325.0	283.2	246.2	225.4
49°	301.5	344.5	392.6	443.5	428.2	425.9	365.7	299.0	261.0	232.4	212.8
49.5°	279.5	319.3	365.0	413.1	397.5	393.1	337.8	275.6	241.2	218.5	200.3
50°	261.7	295.3	339.5	383.2	368.2	361.0	311.9	254.6	227.7	204.7	187.7
50.5°	245.7	274.6	315.1	354.6	339.8	332.1	286.4	236.1	214.1	190.9	175.1
51°	231.1	256.1	293.1	328.2	311.4	304.7	264.5	222.0	200.5	177.3	167.2
51.5°	217.8	240.5	272.9	303.7	287.2	281.2	244.2	207.7	186.9	168.9	159.8
52°	206.2	225.9	254.3	281.0	264.0	259.3	229.9	193.3	173.6	161.5	152.6
52.5°	195.1	213.3	238.0	260.5	243.2	239.8	215.6	179.3	165.7	154.3	145.2
53°	184.5	201.5	222.5	242.2	229.4	224.9	201.5	170.1	158.3	146.9	138.3
53.5°	174.8	190.6	208.7	225.7	215.8	210.4	187.2	162.5	150.9	139.8	131.6
54°	167.4	180.3	195.6	210.1	202.0	195.6	173.1	155.1	143.7	132.8	125.4
54.5°	160.0	171.9	184.2	196.8	188.2	181.0	164.9	147.4	136.5	126.4	119.5
55°	152.4	164.0	174.3	184.5	174.6	171.9	157.3	140.0	129.6	120.3	113.8
55.5°	145.2	156.6	166.4	174.3	166.2	164.2	149.6	133.1	123.2	114.6	108.9
56°	138.3	149.1	158.5	166.2	158.8	156.3	142.0	126.2	117.5	109.4	104.0
56.5°	131.6	142.0	151.4	158.5	150.9	148.6	134.8	120.0	112.1	104.4	99.5
57°	125.2	135.1	143.7	150.9	143.2	141.2	128.2	114.3	106.7	100.0	95.3
57.5°	119.5	128.4	136.8	143.5	136.1	133.8	121.7	109.1	102.0	95.8	91.4
58°	113.8	122.2	129.9	136.1	129.1	127.2	115.8	104.0	97.5	91.6	87.7
58.5°	108.9	116.5	123.7	129.4	122.7	121.0	110.4	99.3	93.3	87.9	84.0
59°	104.0	111.4	117.8	123.0	116.8	115.1	105.2	94.8	89.4	84.2	80.5
59.5°	99.8	106.4	112.4	117.0	111.1	109.6	100.3	90.9	85.4	80.7	77.3
60°	95.3	101.7	107.2	111.6	105.9	104.4	95.8	87.2	81.7	77.5	74.3
60.5°	91.1	97.3	102.5	106.4	101.2	99.8	91.9	83.5	78.5	74.3	71.4
61°	87.7	93.3	98.0	101.5	96.8	95.3	87.9	80.0	75.1	71.4	68.6
61.5°	84.2	89.1	93.8	97.0	92.6	91.4	84.2	76.8	71.9	68.6	65.9
62°	80.7	85.9	89.9	92.8	88.6	87.2	80.7	73.6	68.9	65.7	63.5
62.5°	77.3	82.5	86.7	88.6	84.9	83.7	77.3	70.6	66.2	63.2	61.0
63°	73.8	79.3	83.2	85.4	81.2	80.0	74.3	67.9	63.5	60.7	58.5
63.5°	70.9	75.8	80.0	82.0	78.0	76.8	71.4	65.2	61.0	58.3	56.3
64°	67.9	72.6	76.5	78.8	74.8	73.8	68.4	62.5	58.3	55.8	54.1
64.5°	65.2	69.6	73.1	75.6	71.9	70.9	65.9	60.0	56.1	53.8	51.9
65°	62.5	66.7	70.4	72.3	69.1	68.2	63.2	57.5	53.8	51.4	49.9
65.5°	59.8	64.2	67.4	69.6	66.2	65.4	60.7	55.3	51.6	49.4	47.9
66°	57.5	61.5	64.9	66.9	63.7	63.0	58.3	53.1	49.4	47.4	45.9



TEST NUMBER: P776196

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	50.6	54.3	57.5	59.3	56.5	55.8	51.9	46.9	43.5	41.7	40.5
68°	48.4	52.1	55.3	57.0	54.3	53.6	49.9	44.9	41.7	40.0	38.8
68.5°	46.4	49.9	53.1	54.8	52.1	51.4	47.7	43.0	40.0	38.3	37.3
69°	44.4	47.9	50.9	52.6	50.1	49.4	45.9	41.2	38.3	36.5	35.6
69.5°	42.7	45.9	48.9	50.4	48.2	47.4	44.0	39.5	36.5	35.1	34.1
70°	40.7	44.0	46.9	48.4	46.2	45.4	42.2	37.8	35.1	33.3	32.6
70.5°	39.0	42.2	44.9	46.4	44.2	43.7	40.5	36.1	33.3	31.9	31.1
71°	37.3	40.2	43.2	44.7	42.5	42.0	38.8	34.6	31.9	30.4	29.6
71.5°	35.6	38.5	41.5	42.7	40.7	40.2	37.3	33.1	30.4	28.9	28.1
72°	34.1	37.0	39.8	41.0	39.0	38.5	35.6	31.6	28.9	27.4	26.9
72.5°	32.6	35.3	38.0	39.3	37.5	36.8	34.1	30.1	27.7	26.2	25.4
73°	31.1	33.8	36.3	37.8	35.8	35.3	32.6	28.6	26.2	24.9	24.2
73.5°	29.6	32.1	34.8	36.1	34.3	33.8	31.1	27.4	24.9	23.5	23.0
74°	28.1	30.6	33.3	34.6	32.8	32.3	29.6	25.9	23.7	22.2	21.7
74.5°	26.7	29.1	31.6	33.1	31.4	30.9	28.4	24.7	22.5	21.0	20.7
75°	25.4	27.9	30.4	31.6	29.9	29.4	26.9	23.5	21.2	20.0	19.5
75.5°	24.0	26.4	28.9	30.1	28.6	28.1	25.7	22.2	20.0	18.8	18.3
76°	22.7	24.9	27.4	28.9	27.2	26.9	24.4	21.0	18.8	17.5	17.3
76.5°	21.5	23.7	26.2	27.4	25.9	25.4	23.2	19.8	17.8	16.5	16.1
77°	20.2	22.5	24.7	26.2	24.7	24.2	22.0	18.8	16.5	15.3	15.1
77.5°	19.0	21.2	23.5	24.7	23.5	23.0	20.7	17.5	15.6	14.3	13.8
78°	18.0	20.0	22.2	23.5	22.2	21.7	19.5	16.3	14.3	13.3	12.8
78.5°	16.8	18.8	21.0	22.5	21.0	20.7	18.5	15.3	13.3	12.3	11.9
79°	15.8	17.8	20.0	21.2	19.8	19.5	17.3	14.3	12.3	11.4	11.1
79.5°	14.6	16.5	18.8	20.0	18.8	18.5	16.1	13.3	11.6	10.4	10.1
80°	13.6	15.6	17.5	18.8	17.5	17.3	15.1	12.3	10.6	9.4	9.1
80.5°	12.6	14.3	16.5	17.8	16.5	16.1	14.1	11.4	9.6	8.6	8.4
81°	11.6	13.3	15.3	16.5	15.6	15.3	13.1	10.4	8.9	7.7	7.4
81.5°	10.6	12.3	14.3	15.6	14.3	14.1	12.1	9.4	7.9	6.9	6.7
82°	9.9	11.4	13.3	14.6	13.3	13.1	11.4	8.6	7.2	6.2	5.9
82.5°	8.9	10.4	12.3	13.6	12.6	12.3	10.4	7.7	6.4	5.4	5.2
83°	8.1	9.6	11.4	12.6	11.6	11.4	9.4	6.9	5.7	4.7	4.4
83.5°	7.2	8.6	10.6	11.6	10.6	10.4	8.6	6.2	4.9	4.0	4.0
84°	6.4	7.9	9.6	10.9	9.9	9.6	7.9	5.4	4.2	3.2	3.2
84.5°	5.7	6.9	8.9	9.9	8.9	8.6	7.2	4.7	3.5	2.5	2.7
85°	4.9	6.2	7.9	9.1	8.1	7.9	6.2	4.0	3.0	2.0	2.0
85.5°	4.2	5.4	7.2	8.4	7.4	7.2	5.4	3.2	2.2	1.5	1.5
86°	3.5	4.7	6.2	7.4	6.7	6.4	4.9	2.7	1.7	1.2	1.0
86.5°	2.7	4.0	5.4	6.7	5.9	5.7	4.2	2.2	1.2	0.7	0.5
87°	2.2	3.2	4.9	5.9	5.2	4.9	3.5	1.7	1.0	0.5	0.0
87.5°	1.7	2.5	4.2	5.2	4.4	4.2	3.0	1.2	0.5	0.2	0.0
88°	1.2	2.0	3.5	4.4	3.7	3.7	2.5	1.0	0.2	0.0	0.0
88.5°	0.7	1.5	3.0	3.7	3.2	3.0	1.7	0.5	0.0	0.0	0.0



TEST NUMBER: P776196
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	1.2	2.0	1.2	1.2	0.2	0.0	0.0	0.0	0.0



TEST NUMBER: P776196

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0
0.5°	1624.0	1625.3	1625.5	1626.5	1626.2	1625.3
1°	1623.0	1624.0	1624.3	1625.5	1625.5	1625.0
1.5°	1621.8	1622.5	1623.0	1624.3	1624.5	1624.5
2°	1620.6	1621.3	1621.6	1623.0	1623.8	1624.0
2.5°	1619.1	1619.8	1620.1	1621.8	1622.8	1623.5
3°	1617.9	1618.3	1618.6	1620.3	1621.6	1622.8
3.5°	1616.1	1616.6	1616.9	1619.1	1620.6	1621.8
4°	1614.6	1614.9	1615.4	1617.6	1619.6	1621.1
4.5°	1612.9	1613.2	1613.4	1616.1	1618.3	1620.3
5°	1610.9	1611.2	1611.4	1614.4	1617.1	1619.1
5.5°	1609.0	1609.2	1609.5	1612.9	1615.6	1618.1
6°	1606.7	1606.7	1607.2	1610.9	1614.1	1616.9
6.5°	1604.5	1604.8	1605.0	1609.0	1612.4	1615.6
7°	1602.1	1602.3	1602.8	1607.0	1610.9	1614.4
7.5°	1599.6	1599.8	1600.1	1605.0	1609.2	1612.9
8°	1597.1	1596.9	1597.6	1602.5	1607.2	1611.2
8.5°	1594.1	1594.1	1594.9	1600.3	1605.3	1609.5
9°	1591.4	1591.2	1591.9	1597.9	1603.3	1607.7
9.5°	1588.2	1588.5	1588.7	1594.9	1601.1	1605.8
10°	1585.0	1585.0	1585.8	1592.2	1598.6	1603.5
10.5°	1581.8	1581.6	1582.3	1589.2	1596.1	1601.3
11°	1578.1	1578.1	1578.8	1586.2	1593.4	1599.1
11.5°	1574.4	1574.4	1574.9	1583.0	1590.7	1596.4
12°	1570.4	1570.4	1571.2	1579.6	1587.7	1593.7
12.5°	1566.5	1566.2	1567.0	1575.9	1584.3	1590.9
13°	1562.3	1562.0	1562.5	1571.9	1581.1	1587.7
13.5°	1557.9	1557.6	1558.3	1568.0	1577.6	1584.8
14°	1553.2	1552.9	1553.7	1563.8	1573.9	1581.6
14.5°	1548.2	1548.2	1548.7	1559.3	1570.0	1578.1
15°	1543.3	1543.0	1543.8	1554.6	1565.8	1574.4
15.5°	1538.1	1537.6	1538.3	1549.5	1561.6	1570.4
16°	1532.4	1532.4	1532.7	1544.3	1556.9	1566.2
16.5°	1526.7	1526.7	1527.0	1538.8	1552.2	1562.0
17°	1520.6	1520.8	1521.1	1533.2	1547.0	1557.4
17.5°	1514.6	1514.6	1514.6	1527.5	1541.8	1552.9
18°	1508.0	1508.5	1508.2	1521.1	1536.1	1548.0
18.5°	1501.3	1501.6	1501.3	1514.6	1530.4	1542.8
19°	1494.4	1494.6	1494.4	1507.7	1524.3	1537.1
19.5°	1487.0	1488.0	1487.2	1501.1	1517.8	1531.4
20°	1479.6	1480.6	1479.3	1493.4	1511.2	1525.8
20.5°	1471.9	1472.7	1471.7	1486.2	1504.5	1519.6
21°	1463.8	1464.8	1463.5	1478.3	1497.6	1513.2

TEST NUMBER: P776196

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1438.1	1439.1	1437.6	1453.2	1474.6	1492.4
23°	1428.7	1430.2	1428.2	1444.5	1466.2	1485.0
23.5°	1419.1	1420.8	1419.1	1435.1	1457.8	1477.1
24°	1409.2	1411.2	1409.2	1425.7	1449.0	1469.2
24.5°	1399.3	1401.3	1399.1	1416.4	1440.1	1460.8
25°	1388.7	1390.9	1388.7	1406.0	1430.7	1452.4
25.5°	1378.1	1380.6	1378.1	1395.9	1421.3	1443.5
26°	1366.7	1369.7	1367.5	1385.3	1411.4	1434.1
26.5°	1355.9	1358.8	1356.1	1374.6	1401.5	1424.8
27°	1344.0	1347.2	1344.5	1363.5	1390.9	1415.1
27.5°	1332.2	1335.4	1332.9	1352.2	1380.3	1405.3
28°	1319.8	1323.3	1320.6	1340.3	1369.4	1395.1
28.5°	1306.7	1311.2	1308.5	1328.5	1358.3	1384.3
29°	1292.4	1298.1	1295.6	1316.4	1346.7	1373.4
29.5°	1277.6	1284.8	1282.3	1304.0	1334.6	1362.0
30°	1262.5	1270.7	1268.0	1291.4	1322.8	1350.7
30.5°	1246.5	1255.4	1252.9	1278.1	1310.4	1338.3
31°	1229.7	1239.6	1236.6	1263.8	1297.8	1326.2
31.5°	1211.9	1222.3	1220.3	1248.9	1284.8	1313.9
32°	1192.6	1204.0	1203.0	1232.9	1270.4	1301.0
32.5°	1172.4	1184.5	1185.0	1216.4	1255.9	1287.5
33°	1150.4	1163.3	1165.7	1198.6	1240.3	1273.4
33.5°	1124.7	1140.8	1144.3	1180.1	1224.0	1258.1
34°	1095.6	1114.6	1120.3	1159.8	1207.0	1242.8
34.5°	1063.0	1084.5	1090.9	1137.3	1188.5	1226.0
35°	1029.2	1050.4	1057.3	1111.4	1168.9	1208.2
35.5°	994.1	1015.1	1021.3	1082.0	1147.2	1188.2
36°	958.1	981.3	983.0	1050.2	1121.8	1167.7
36.5°	923.5	948.7	944.2	1015.6	1093.1	1144.3
37°	888.9	914.6	906.2	980.0	1061.0	1117.1
37.5°	853.9	877.1	869.7	941.5	1025.7	1085.0
38°	817.8	838.1	834.1	901.8	989.2	1050.4
38.5°	778.8	798.6	796.3	862.5	951.6	1014.4
39°	740.3	760.8	759.0	823.0	913.9	978.3
39.5°	700.8	725.0	721.3	784.0	874.4	942.8
40°	662.7	689.9	684.5	743.2	835.8	907.2
40.5°	624.0	655.3	647.7	703.5	797.1	869.9
41°	586.4	619.3	612.9	664.5	759.3	832.9
41.5°	549.9	583.0	578.3	628.9	722.7	795.6
42°	513.4	546.9	543.5	592.6	685.7	758.3
42.5°	477.1	512.6	510.1	558.3	646.9	721.3
43°	442.2	480.0	478.0	525.2	610.6	685.5
43.5°	410.4	447.2	446.4	493.6	575.3	649.9



TEST NUMBER: P776196

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	327.7	354.1	362.5	407.7	475.6	543.5
45.5°	304.5	326.2	337.8	382.2	445.5	509.4
46°	283.2	301.2	314.8	358.3	416.6	475.8
46.5°	264.7	280.0	293.6	335.8	390.1	443.5
47°	248.4	261.7	274.1	314.6	364.2	411.9
47.5°	233.3	245.7	256.6	294.3	340.5	380.3
48°	221.7	231.9	240.8	275.6	318.0	352.4
48.5°	210.4	219.5	226.7	258.5	297.8	325.7
49°	198.8	208.2	213.3	242.5	278.5	301.5
49.5°	187.2	196.8	201.2	227.7	260.5	279.5
50°	175.8	186.2	189.9	213.3	244.2	261.7
50.5°	168.2	176.8	179.8	200.5	229.1	245.7
51°	160.7	168.9	171.1	188.7	215.3	231.1
51.5°	153.6	161.7	163.7	178.0	202.2	217.8
52°	146.4	154.6	156.6	169.6	190.4	206.2
52.5°	139.5	147.4	149.4	162.5	180.0	195.1
53°	132.8	140.3	142.2	155.1	171.4	184.5
53.5°	126.4	133.8	135.3	147.7	164.0	174.8
54°	120.7	127.4	128.9	140.5	156.3	167.4
54.5°	115.3	121.5	123.2	133.8	148.9	160.0
55°	110.1	116.1	117.5	127.4	141.7	152.4
55.5°	105.4	110.9	112.4	121.7	135.1	145.2
56°	100.7	105.9	107.2	116.1	128.6	138.3
56.5°	96.5	101.5	102.7	110.9	122.7	131.6
57°	92.6	97.0	98.3	106.2	117.0	125.2
57.5°	88.9	93.1	94.1	101.5	111.9	119.5
58°	84.9	89.1	90.4	97.3	106.9	113.8
58.5°	81.7	85.7	87.2	93.1	102.2	108.9
59°	78.3	82.5	83.7	89.1	97.8	104.0
59.5°	75.3	79.3	80.5	85.9	93.8	99.8
60°	72.3	76.1	77.3	82.7	89.9	95.3
60.5°	69.4	73.1	73.8	79.5	86.7	91.1
61°	66.7	70.1	70.9	76.3	83.5	87.7
61.5°	64.2	67.4	68.2	73.1	80.0	84.2
62°	61.7	64.9	65.7	70.4	76.8	80.7
62.5°	59.3	62.2	63.0	67.7	73.6	77.3
63°	56.8	59.8	60.5	64.9	70.6	73.8
63.5°	54.6	57.5	58.3	62.2	67.9	70.9
64°	52.6	55.3	55.8	60.0	64.9	67.9
64.5°	50.4	53.1	53.8	57.5	62.5	65.2
65°	48.4	51.1	51.6	55.3	60.0	62.5
65.5°	46.4	48.9	49.6	53.1	57.5	59.8
66°	44.7	46.9	47.4	51.1	55.3	57.5



TEST NUMBER: P776196

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	39.3	41.5	42.0	45.2	48.6	50.6
68°	37.8	39.8	40.2	43.2	46.7	48.4
68.5°	36.1	38.0	38.5	41.5	44.7	46.4
69°	34.6	36.5	37.0	39.8	42.7	44.4
69.5°	33.1	34.8	35.3	38.0	41.0	42.7
70°	31.6	33.3	33.8	36.5	39.3	40.7
70.5°	30.1	31.9	32.3	34.8	37.5	39.0
71°	28.6	30.4	30.9	33.3	35.8	37.3
71.5°	27.4	29.1	29.4	31.9	34.3	35.6
72°	26.2	27.7	27.9	30.4	32.6	34.1
72.5°	24.7	26.4	26.7	28.9	31.1	32.6
73°	23.5	24.9	25.4	27.7	29.6	31.1
73.5°	22.5	23.7	24.0	26.2	28.1	29.6
74°	21.0	22.5	22.7	24.9	26.9	28.1
74.5°	20.0	21.2	21.5	23.5	25.4	26.7
75°	18.8	20.0	20.5	22.2	24.2	25.4
75.5°	17.8	19.0	19.3	21.0	22.7	24.0
76°	16.5	17.8	18.0	20.0	21.7	22.7
76.5°	15.6	16.8	17.0	18.8	20.5	21.5
77°	14.6	15.6	15.8	17.5	19.3	20.2
77.5°	13.3	14.6	14.8	16.5	18.0	19.0
78°	12.6	13.6	13.8	15.3	16.8	18.0
78.5°	11.6	12.6	12.8	14.3	15.8	16.8
79°	10.6	11.6	11.9	13.3	14.6	15.8
79.5°	9.9	10.9	10.9	12.3	13.6	14.6
80°	8.9	9.9	10.1	11.4	12.6	13.6
80.5°	8.1	9.1	9.1	10.4	11.6	12.6
81°	7.2	8.1	8.4	9.6	10.6	11.6
81.5°	6.4	7.4	7.7	8.6	9.6	10.6
82°	5.7	6.7	6.9	7.9	8.9	9.9
82.5°	4.9	5.9	6.2	7.2	7.9	8.9
83°	4.2	5.2	5.2	6.2	7.2	8.1
83.5°	3.7	4.4	4.4	5.4	6.2	7.2
84°	3.0	3.7	4.0	4.7	5.4	6.4
84.5°	2.2	3.0	3.2	4.2	4.7	5.7
85°	1.7	2.5	2.5	3.5	4.0	4.9
85.5°	1.0	1.7	2.0	2.7	3.2	4.2
86°	0.5	1.2	1.2	2.2	2.7	3.5
86.5°	0.0	0.5	0.5	1.5	2.2	2.7
87°	0.0	0.0	0.0	1.0	1.7	2.2
87.5°	0.0	0.0	0.0	0.5	1.2	1.7
88°	0.0	0.0	0.0	0.0	0.7	1.2
88.5°	0.0	0.0	0.0	0.0	0.5	0.7



TEST NUMBER: P776196
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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

Scaled Data Report





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

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1506.5	1526.2	1546.2	1562.8	1564.5	1567.7	1556.6	1535.4	1515.1	1493.4	1472.7
22°	1499.3	1520.1	1540.3	1557.4	1558.8	1562.3	1550.4	1528.2	1508.0	1485.3	1464.5



44°	614.3	690.2	759.0	809.4	790.9	794.9	728.2	628.2	556.8	480.5	417.3
44.5°	578.3	652.9	719.5	769.9	751.4	757.6	687.4	590.4	521.5	447.9	388.4



66.5°	55.1	59.0	62.5	64.2	61.2	60.2	56.1	50.9	47.4	45.4	44.2
67°	52.8	56.5	59.8	61.7	58.8	58.0	53.8	48.9	45.4	43.5	42.2



89°	0.2	1.2	2.2	3.2	2.5	2.5	1.2	0.2	0.0	0.0	0.0
89.5°	0.0	0.7	1.7	2.5	2.0	1.7	0.7	0.0	0.0	0.0	0.0

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21.5°	1455.6	1456.4	1455.1	1469.9	1490.2	1506.5
22°	1446.7	1448.0	1446.5	1462.0	1482.3	1499.3



44°	381.3	415.3	416.8	463.0	540.3	614.3
44.5°	353.3	383.7	388.2	435.1	507.2	578.3



66.5°	42.7	45.2	45.7	48.9	52.8	55.1
67°	41.0	43.2	43.7	47.2	50.9	52.8

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89°	0.0	0.0	0.0	0.0	0.0	0.2
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)