

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: P776172

Luminaire Tested: HCDJBL51525CSD-HCD82TRMW-2500lm-3500K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B064-HCD82TRMW)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD82TRMW-2500lm-3500K  
Description: 8 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

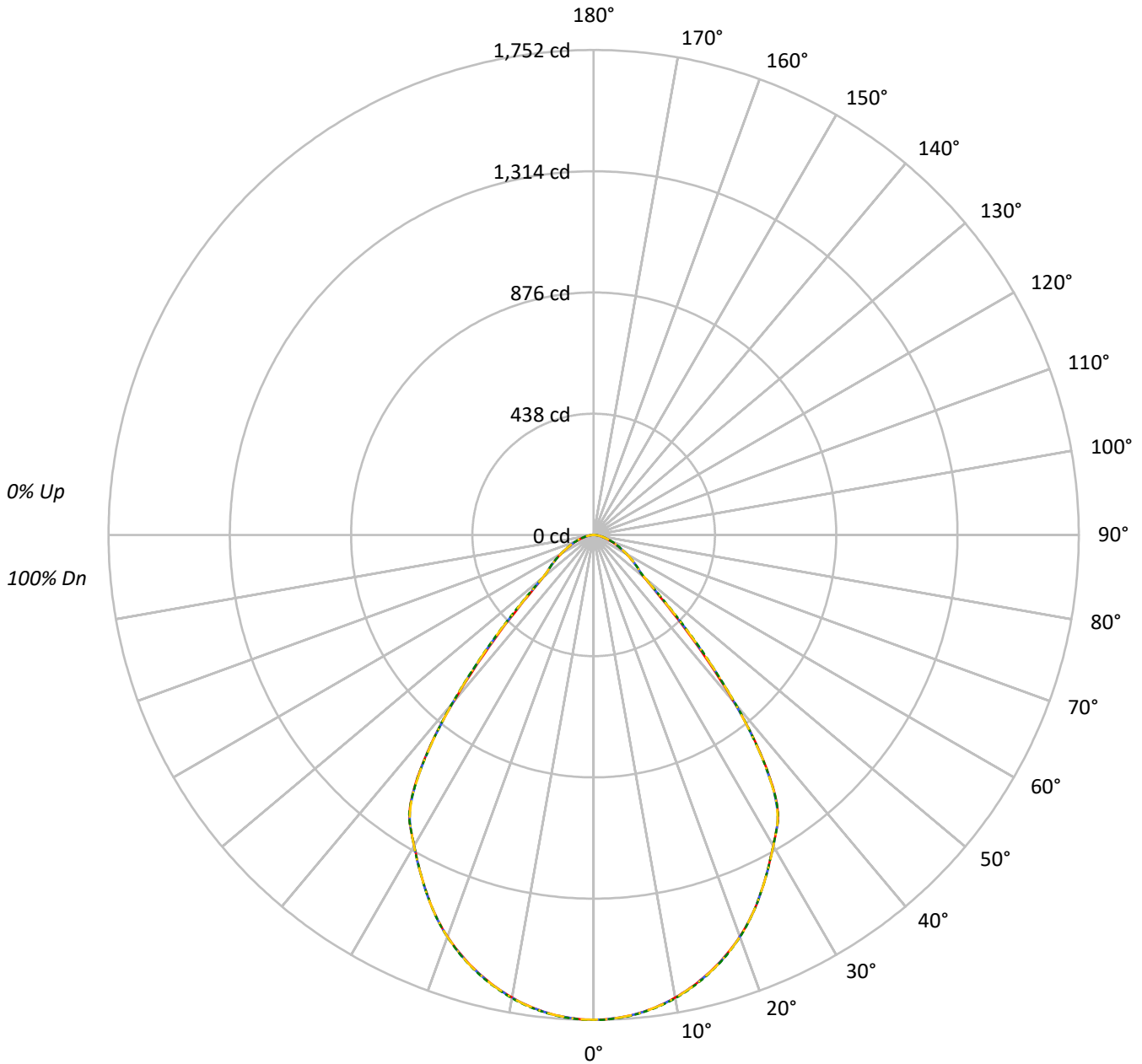
Lumens per Lamp: N/A  
Luminaire Lumens: 2641.4 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P776172  
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P776172

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3500K

**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	96	95	95	93	92	90																			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81																			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72																			
4	91	82	75	70	89	81	74	70	79	73	69	76	72	68	74	70	67	65																			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59																			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																			
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	53477	53477	53477	53477
5°	53258	53304	53258	53304
10°	52612	52690	52612	52690
15°	51580	51659	51580	51659
20°	50167	50216	50167	50216
25°	48084	48091	48084	48091
30°	45731	45731	45731	45731
35°	42485	42399	42485	42399
40°	31397	31768	31397	31768
45°	18458	19360	18458	19360
50°	11299	11442	11299	11442
55°	9682	9698	9682	9698
60°	8255	8335	8255	8335
65°	7015	7181	7015	7181
70°	5954	6231	5954	6231
75°	4978	5355	4978	5355
80°	3973	4501	3973	4501
85°	2452	3433	2452	3433

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 19511 cd/sqm



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.6	6.2
10°-20°	459.5	17.4
20°-30°	656.1	24.8
30°-40°	685.1	25.9
40°-50°	355.9	13.5
50°-60°	163.1	6.2
60°-70°	98.9	3.7
70°-80°	47.4	1.8
80°-90°	10.6	0.4
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°	1280.2	48.5
0°-40°	1965.4	74.4
0°-60°	2484.4	94.1
0°-90°	2641.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1752	1752	1752	1752	1752	
5°	1738	1739	1738	1739	1738	165
15°	1632	1634	1632	1634	1632	459
25°	1427	1428	1427	1428	1427	656
35°	1140	1138	1140	1138	1140	686
45°	428	448	428	448	428	348
55°	182	182	182	182	182	163
65°	97	99	97	99	97	97
75°	42	45	42	45	42	45
85°	7	10	7	10	7	9
90°	0	0	0	0	0	



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBL1525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6
0.5°	1751.3	1750.8	1751.3	1751.3	1752.3	1751.3	1751.3	1750.8	1751.3	1750.8	1751.3
1°	1751.1	1750.6	1751.1	1751.1	1751.8	1751.1	1751.1	1750.6	1751.1	1750.6	1751.1
1.5°	1750.3	1749.8	1750.3	1750.3	1751.3	1750.3	1750.3	1749.8	1750.3	1749.8	1750.3
2°	1749.3	1748.8	1749.3	1749.3	1750.3	1749.3	1749.3	1748.8	1749.3	1748.8	1749.3
2.5°	1748.1	1747.6	1748.1	1748.3	1749.1	1748.3	1748.1	1747.6	1748.1	1747.6	1748.1
3°	1746.5	1746.0	1746.5	1746.8	1747.8	1746.8	1746.5	1746.0	1746.5	1746.0	1746.5
3.5°	1744.8	1744.3	1744.8	1745.0	1746.0	1745.0	1744.8	1744.3	1744.8	1744.3	1744.8
4°	1742.5	1742.3	1742.8	1743.0	1744.0	1743.0	1742.8	1742.3	1742.5	1742.3	1742.8
4.5°	1740.3	1740.0	1740.5	1740.8	1741.8	1740.8	1740.5	1740.0	1740.3	1740.0	1740.5
5°	1737.8	1737.3	1737.8	1738.3	1739.3	1738.3	1737.8	1737.3	1737.8	1737.3	1737.8
5.5°	1734.8	1734.5	1735.0	1735.5	1736.5	1735.5	1735.0	1734.5	1734.8	1734.5	1735.0
6°	1731.7	1731.2	1732.0	1732.5	1733.2	1732.5	1732.0	1731.2	1731.7	1731.2	1732.0
6.5°	1728.2	1728.0	1728.7	1729.2	1730.0	1729.2	1728.7	1728.0	1728.2	1728.0	1728.7
7°	1724.7	1724.2	1725.0	1725.5	1726.5	1725.5	1725.0	1724.2	1724.7	1724.2	1725.0
7.5°	1720.7	1720.2	1721.2	1721.7	1722.7	1721.7	1721.2	1720.2	1720.7	1720.2	1721.2
8°	1716.4	1716.2	1716.9	1717.4	1718.7	1717.4	1716.9	1716.2	1716.4	1716.2	1716.9
8.5°	1711.9	1711.7	1712.7	1713.2	1714.2	1713.2	1712.7	1711.7	1711.9	1711.7	1712.7
9°	1707.4	1707.2	1707.9	1708.7	1709.7	1708.7	1707.9	1707.2	1707.4	1707.2	1707.9
9.5°	1702.1	1702.1	1702.9	1703.6	1704.6	1703.6	1702.9	1702.1	1702.1	1702.1	1702.9
10°	1697.1	1696.9	1697.9	1698.6	1699.6	1698.6	1697.9	1696.9	1697.1	1696.9	1697.9
10.5°	1691.6	1691.3	1692.4	1693.1	1694.4	1693.1	1692.4	1691.3	1691.6	1691.3	1692.4
11°	1685.8	1685.8	1686.6	1687.6	1688.6	1687.6	1686.6	1685.8	1685.8	1685.8	1686.6
11.5°	1680.1	1679.8	1680.8	1681.6	1682.6	1681.6	1680.8	1679.8	1680.1	1679.8	1680.8
12°	1673.8	1673.8	1674.5	1675.5	1676.5	1675.5	1674.5	1673.8	1673.8	1673.8	1674.5
12.5°	1667.3	1667.3	1668.3	1669.3	1670.0	1669.3	1668.3	1667.3	1667.3	1667.3	1668.3
13°	1660.7	1660.7	1661.7	1662.5	1663.5	1662.5	1661.7	1660.7	1660.7	1660.7	1661.7
13.5°	1653.7	1653.7	1654.7	1656.0	1656.5	1656.0	1654.7	1653.7	1653.7	1653.7	1654.7
14°	1646.9	1646.7	1647.7	1648.7	1649.4	1648.7	1647.7	1646.7	1646.9	1646.7	1647.7
14.5°	1639.4	1639.4	1640.4	1641.4	1642.2	1641.4	1640.4	1639.4	1639.4	1639.4	1640.4
15°	1631.9	1632.1	1633.1	1633.9	1634.4	1633.9	1633.1	1632.1	1631.9	1632.1	1633.1
15.5°	1624.1	1624.4	1625.4	1626.1	1626.6	1626.1	1625.4	1624.4	1624.1	1624.4	1625.4
16°	1616.3	1616.3	1617.3	1618.1	1618.6	1618.1	1617.3	1616.3	1616.3	1616.3	1617.3
16.5°	1608.3	1608.3	1609.3	1609.8	1610.6	1609.8	1609.3	1608.3	1608.3	1608.3	1609.3
17°	1599.8	1599.8	1600.8	1601.5	1602.0	1601.5	1600.8	1599.8	1599.8	1599.8	1600.8
17.5°	1591.0	1591.2	1592.2	1592.7	1593.2	1592.7	1592.2	1591.2	1591.0	1591.2	1592.2
18°	1582.2	1582.2	1583.2	1583.7	1584.2	1583.7	1583.2	1582.2	1582.2	1582.2	1583.2
18.5°	1573.2	1573.2	1574.2	1574.4	1574.9	1574.4	1574.2	1573.2	1573.2	1573.2	1574.2
19°	1563.6	1563.6	1564.6	1565.1	1565.4	1565.1	1564.6	1563.6	1563.6	1563.6	1564.6
19.5°	1553.9	1554.1	1554.9	1555.4	1555.6	1555.4	1554.9	1554.1	1553.9	1554.1	1554.9
20°	1544.1	1544.1	1544.8	1545.1	1545.6	1545.1	1544.8	1544.1	1544.1	1544.1	1544.8
20.5°	1533.8	1533.8	1534.5	1534.5	1535.0	1534.5	1534.5	1533.8	1533.8	1533.8	1534.5
21°	1523.2	1523.2	1524.0	1524.0	1524.2	1524.0	1524.0	1523.2	1523.2	1523.2	1524.0



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1489.4	1489.4	1489.9	1489.6	1490.1	1489.6	1489.9	1489.4	1489.4	1489.4	1489.9
23°	1477.6	1477.6	1477.8	1477.8	1478.1	1477.8	1477.8	1477.6	1477.6	1477.6	1477.8
23.5°	1465.5	1465.5	1465.8	1465.5	1465.8	1465.5	1465.8	1465.5	1465.5	1465.5	1465.8
24°	1453.2	1453.0	1453.2	1453.0	1453.2	1453.0	1453.2	1453.0	1453.2	1453.0	1453.2
24.5°	1440.2	1440.2	1440.7	1440.4	1440.4	1440.4	1440.7	1440.2	1440.2	1440.2	1440.7
25°	1427.4	1427.4	1427.6	1427.6	1427.6	1427.6	1427.6	1427.4	1427.4	1427.4	1427.6
25.5°	1414.6	1414.4	1414.9	1414.6	1414.6	1414.6	1414.9	1414.4	1414.6	1414.4	1414.9
26°	1401.6	1401.3	1401.6	1401.8	1401.6	1401.8	1401.6	1401.3	1401.6	1401.3	1401.6
26.5°	1388.3	1388.5	1388.5	1388.5	1388.5	1388.5	1388.5	1388.5	1388.3	1388.5	1388.5
27°	1375.2	1375.2	1375.5	1375.5	1375.2	1375.5	1375.5	1375.2	1375.2	1375.2	1375.5
27.5°	1361.9	1361.9	1362.4	1362.4	1361.9	1362.4	1362.4	1361.9	1361.9	1361.9	1362.4
28°	1348.9	1348.9	1349.4	1349.1	1349.1	1349.1	1349.4	1348.9	1348.9	1348.9	1349.4
28.5°	1335.8	1335.8	1336.3	1336.1	1335.8	1336.1	1336.3	1335.8	1335.8	1335.8	1336.3
29°	1322.5	1323.0	1323.3	1323.0	1323.0	1323.0	1323.3	1323.0	1322.5	1323.0	1323.3
29.5°	1309.7	1310.0	1310.5	1310.5	1310.0	1310.5	1310.5	1310.0	1309.7	1310.0	1310.5
30°	1297.2	1297.4	1297.7	1297.7	1297.2	1297.7	1297.7	1297.4	1297.2	1297.4	1297.7
30.5°	1284.6	1285.1	1285.4	1285.1	1284.4	1285.1	1285.4	1285.1	1284.6	1285.1	1285.4
31°	1272.3	1272.6	1273.1	1272.8	1272.6	1272.8	1273.1	1272.6	1272.3	1272.6	1273.1
31.5°	1260.5	1260.5	1260.8	1260.5	1260.0	1260.5	1260.8	1260.5	1260.5	1260.5	1260.8
32°	1248.3	1248.3	1248.3	1248.0	1248.0	1248.0	1248.3	1248.3	1248.3	1248.3	1248.3
32.5°	1236.0	1235.0	1234.7	1234.5	1235.7	1234.5	1234.7	1235.0	1236.0	1235.0	1234.7
33°	1222.4	1219.9	1219.4	1218.6	1222.9	1218.6	1219.4	1219.9	1222.4	1219.9	1219.4
33.5°	1205.8	1202.1	1202.3	1200.8	1206.3	1200.8	1202.3	1202.1	1205.8	1202.1	1202.3
34°	1186.0	1181.8	1183.3	1180.3	1186.8	1180.3	1183.3	1181.8	1186.0	1181.8	1183.3
34.5°	1164.7	1158.7	1161.2	1158.2	1164.2	1158.2	1161.2	1158.7	1164.7	1158.7	1161.2
35°	1139.9	1134.3	1135.6	1133.6	1137.6	1133.6	1135.6	1134.3	1139.9	1134.3	1135.6
35.5°	1112.0	1109.0	1107.5	1105.7	1108.5	1105.7	1107.5	1109.0	1112.0	1109.0	1107.5
36°	1081.4	1081.9	1077.4	1075.4	1079.6	1075.4	1077.4	1081.9	1081.4	1081.9	1077.4
36.5°	1049.3	1051.5	1045.5	1043.3	1047.8	1043.3	1045.5	1051.5	1049.3	1051.5	1045.5
37°	1016.2	1018.2	1012.7	1009.6	1015.2	1009.6	1012.7	1018.2	1016.2	1018.2	1012.7
37.5°	981.8	981.8	978.0	975.3	980.3	975.3	978.0	981.8	981.8	981.8	978.0
38°	945.9	943.4	942.6	940.4	945.2	940.4	942.6	943.4	945.9	943.4	942.6
38.5°	908.5	904.0	906.0	904.3	909.0	904.3	906.0	904.0	908.5	904.0	906.0
39°	869.4	865.1	868.1	867.9	872.9	867.9	868.1	865.1	869.4	865.1	868.1
39.5°	829.5	826.5	830.0	831.0	835.5	831.0	830.0	826.5	829.5	826.5	830.0
40°	787.8	788.6	792.1	794.9	797.1	794.9	792.1	788.6	787.8	788.6	792.1
40.5°	746.2	750.0	753.7	758.5	758.7	758.5	753.7	750.0	746.2	750.0	753.7
41°	705.8	712.1	716.8	722.4	720.6	722.4	716.8	712.1	705.8	712.1	716.8
41.5°	665.9	673.2	680.0	686.5	682.7	686.5	680.0	673.2	665.9	673.2	680.0
42°	627.8	635.3	643.3	650.3	646.3	650.3	643.3	635.3	627.8	635.3	643.3
42.5°	590.9	598.2	606.9	615.2	610.5	615.2	606.9	598.2	590.9	598.2	606.9
43°	555.0	562.3	572.1	580.3	576.3	580.3	572.1	562.3	555.0	562.3	572.1
43.5°	520.9	527.4	537.9	547.0	542.7	547.0	537.9	527.4	520.9	527.4	537.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	427.5	432.1	443.6	451.9	448.4	451.9	443.6	432.1	427.5	432.1	443.6
45.5°	400.2	404.2	415.2	423.0	420.3	423.0	415.2	404.2	400.2	404.2	415.2
46°	374.3	378.9	388.4	395.7	393.4	395.7	388.4	378.9	374.3	378.9	388.4
46.5°	350.8	355.8	362.6	370.1	368.3	370.1	362.6	355.8	350.8	355.8	362.6
47°	328.7	334.5	339.2	346.5	344.7	346.5	339.2	334.5	328.7	334.5	339.2
47.5°	309.1	315.1	317.6	324.7	322.7	324.7	317.6	315.1	309.1	315.1	317.6
48°	291.6	296.8	298.3	305.4	302.6	305.4	298.3	296.8	291.6	296.8	298.3
48.5°	275.7	280.0	281.3	287.3	284.0	287.3	281.3	280.0	275.7	280.0	281.3
49°	261.4	264.7	266.0	271.0	268.0	271.0	266.0	264.7	261.4	264.7	266.0
49.5°	249.1	251.4	252.9	256.7	253.2	256.7	252.9	251.4	249.1	251.4	252.9
50°	237.9	239.9	241.6	244.1	240.9	244.1	241.6	239.9	237.9	239.9	241.6
50.5°	228.6	230.1	231.6	233.6	230.3	233.6	231.6	230.1	228.6	230.1	231.6
51°	220.8	222.3	223.1	224.6	221.8	224.6	223.1	222.3	220.8	222.3	223.1
51.5°	214.3	215.5	216.3	216.8	215.0	216.8	216.3	215.5	214.3	215.5	216.3
52°	209.3	209.8	210.3	210.5	209.5	210.5	210.3	209.8	209.3	209.8	210.3
52.5°	204.5	204.7	205.0	205.0	205.0	205.0	205.0	204.7	204.5	204.7	205.0
53°	200.0	200.2	200.2	200.2	200.5	200.2	200.2	200.2	200.0	200.2	200.2
53.5°	195.7	195.7	195.7	195.5	196.0	195.5	195.7	195.7	195.7	195.7	195.7
54°	191.2	191.2	191.2	190.9	191.4	190.9	191.2	191.2	191.2	191.2	191.2
54.5°	186.7	186.7	186.7	186.4	186.9	186.4	186.7	186.7	186.7	186.7	186.7
55°	181.9	181.9	181.9	181.9	182.2	181.9	181.9	181.9	181.9	181.9	181.9
55.5°	177.1	177.1	177.4	177.1	177.4	177.1	177.4	177.1	177.1	177.1	177.4
56°	172.4	172.4	172.6	172.6	172.6	172.6	172.6	172.4	172.4	172.4	172.6
56.5°	167.6	167.9	167.9	167.9	167.9	167.9	167.9	167.9	167.6	167.9	167.9
57°	162.8	163.1	163.1	163.1	163.1	163.1	163.1	163.1	162.8	163.1	163.1
57.5°	158.1	158.3	158.6	158.6	158.6	158.6	158.6	158.3	158.1	158.3	158.6
58°	153.3	153.8	153.8	154.1	154.1	154.1	153.8	153.8	153.3	153.8	153.8
58.5°	148.5	149.3	149.3	149.5	149.5	149.5	149.3	149.3	148.5	149.3	149.3
59°	144.0	144.8	145.0	145.0	145.0	145.0	145.0	144.8	144.0	144.8	145.0
59.5°	139.8	140.5	140.8	140.8	140.8	140.8	140.8	140.5	139.8	140.5	140.8
60°	135.2	136.2	136.5	136.7	136.5	136.7	136.5	136.2	135.2	136.2	136.5
60.5°	131.0	132.0	132.5	132.5	132.5	132.5	132.5	132.0	131.0	132.0	132.5
61°	127.0	128.0	128.5	128.5	128.5	128.5	128.5	128.0	127.0	128.0	128.5
61.5°	122.9	123.9	124.4	124.7	124.7	124.7	124.4	123.9	122.9	123.9	124.4
62°	118.9	119.9	120.7	120.7	120.7	120.7	120.7	119.9	118.9	119.9	120.7
62.5°	115.2	116.2	116.9	116.9	116.9	116.9	116.9	116.2	115.2	116.2	116.9
63°	111.2	112.4	113.4	113.4	113.4	113.4	113.4	112.4	111.2	112.4	113.4
63.5°	107.6	108.9	109.6	109.9	109.9	109.9	109.6	108.9	107.6	108.9	109.6
64°	104.1	105.1	106.1	106.4	106.4	106.4	106.1	105.1	104.1	105.1	106.1
64.5°	100.6	101.6	102.9	102.9	102.9	102.9	102.9	101.6	100.6	101.6	102.9
65°	97.1	98.1	99.4	99.6	99.4	99.6	99.4	98.1	97.1	98.1	99.4
65.5°	93.8	94.8	96.1	96.3	96.3	96.3	96.1	94.8	93.8	94.8	96.1
66°	90.6	91.6	92.8	93.1	93.1	93.1	92.8	91.6	90.6	91.6	92.8





TEST NUMBER: P776172

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	81.0	82.3	83.6	84.1	83.8	84.1	83.6	82.3	81.0	82.3	83.6
68°	78.0	79.3	80.8	81.0	81.0	81.0	80.8	79.3	78.0	79.3	80.8
68.5°	75.3	76.3	77.8	78.0	78.0	78.0	77.8	76.3	75.3	76.3	77.8
69°	72.3	73.5	75.0	75.3	75.3	75.3	75.0	73.5	72.3	73.5	75.0
69.5°	69.5	70.5	72.3	72.5	72.5	72.5	72.3	70.5	69.5	70.5	72.3
70°	66.7	67.7	69.5	69.8	69.8	69.8	69.5	67.7	66.7	67.7	69.5
70.5°	64.0	65.0	66.7	67.0	67.0	67.0	66.7	65.0	64.0	65.0	66.7
71°	61.5	62.5	64.0	64.5	64.5	64.5	64.0	62.5	61.5	62.5	64.0
71.5°	58.7	59.7	61.5	62.0	61.7	62.0	61.5	59.7	58.7	59.7	61.5
72°	56.2	57.2	59.0	59.5	59.2	59.5	59.0	57.2	56.2	57.2	59.0
72.5°	53.7	54.7	56.5	57.0	56.7	57.0	56.5	54.7	53.7	54.7	56.5
73°	51.2	52.2	53.9	54.4	54.4	54.4	53.9	52.2	51.2	52.2	53.9
73.5°	48.9	49.9	51.7	52.2	52.2	52.2	51.7	49.9	48.9	49.9	51.7
74°	46.7	47.7	49.2	49.9	49.7	49.9	49.2	47.7	46.7	47.7	49.2
74.5°	44.4	45.2	46.9	47.7	47.4	47.7	46.9	45.2	44.4	45.2	46.9
75°	42.2	42.9	44.7	45.4	45.4	45.4	44.7	42.9	42.2	42.9	44.7
75.5°	39.9	40.9	42.4	43.2	43.2	43.2	42.4	40.9	39.9	40.9	42.4
76°	37.9	38.6	40.4	41.1	40.9	41.1	40.4	38.6	37.9	38.6	40.4
76.5°	35.6	36.6	38.1	38.9	38.9	38.9	38.1	36.6	35.6	36.6	38.1
77°	33.6	34.6	36.1	36.9	36.9	36.9	36.1	34.6	33.6	34.6	36.1
77.5°	31.9	32.6	34.1	34.9	34.9	34.9	34.1	32.6	31.9	32.6	34.1
78°	29.9	30.6	32.1	33.1	32.9	33.1	32.1	30.6	29.9	30.6	32.1
78.5°	27.9	28.6	30.4	31.1	31.1	31.1	30.4	28.6	27.9	28.6	30.4
79°	26.1	26.8	28.4	29.4	29.1	29.4	28.4	26.8	26.1	26.8	28.4
79.5°	24.3	24.8	26.6	27.3	27.3	27.3	26.6	24.8	24.3	24.8	26.6
80°	22.6	23.1	24.8	25.6	25.6	25.6	24.8	23.1	22.6	23.1	24.8
80.5°	20.8	21.3	23.1	23.8	23.8	23.8	23.1	21.3	20.8	21.3	23.1
81°	19.1	19.6	21.3	22.1	22.1	22.1	21.3	19.6	19.1	19.6	21.3
81.5°	17.6	17.8	19.6	20.6	20.6	20.6	19.6	17.8	17.6	17.8	19.6
82°	15.8	16.3	17.8	18.8	18.8	18.8	17.8	16.3	15.8	16.3	17.8
82.5°	14.3	14.6	16.3	17.3	17.3	17.3	16.3	14.6	14.3	14.6	16.3
83°	12.8	13.0	14.8	15.8	15.6	15.8	14.8	13.0	12.8	13.0	14.8
83.5°	11.3	11.5	13.3	14.1	14.1	14.1	13.3	11.5	11.3	11.5	13.3
84°	9.8	10.0	11.8	12.5	12.5	12.5	11.8	10.0	9.8	10.0	11.8
84.5°	8.3	8.5	10.3	11.3	11.3	11.3	10.3	8.5	8.3	8.5	10.3
85°	7.0	7.3	9.0	9.8	9.8	9.8	9.0	7.3	7.0	7.3	9.0
85.5°	5.8	6.0	7.8	8.3	8.3	8.3	7.8	6.0	5.8	6.0	7.8
86°	4.5	5.0	6.5	7.0	7.0	7.0	6.5	5.0	4.5	5.0	6.5
86.5°	3.5	4.0	5.3	5.8	5.8	5.8	5.3	4.0	3.5	4.0	5.3
87°	2.8	3.0	4.0	4.5	4.5	4.5	4.0	3.0	2.8	3.0	4.0
87.5°	2.0	2.3	3.0	3.5	3.3	3.5	3.0	2.3	2.0	2.3	3.0
88°	1.3	1.5	2.3	2.5	2.0	2.5	2.3	1.5	1.3	1.5	2.3
88.5°	0.8	1.0	1.5	1.8	1.3	1.8	1.5	1.0	0.8	1.0	1.5



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-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	0.3	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.3



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBL1525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6
0.5°	1751.3	1752.3	1751.3	1751.3	1750.8	1751.3
1°	1751.1	1751.8	1751.1	1751.1	1750.6	1751.1
1.5°	1750.3	1751.3	1750.3	1750.3	1749.8	1750.3
2°	1749.3	1750.3	1749.3	1749.3	1748.8	1749.3
2.5°	1748.3	1749.1	1748.3	1748.1	1747.6	1748.1
3°	1746.8	1747.8	1746.8	1746.5	1746.0	1746.5
3.5°	1745.0	1746.0	1745.0	1744.8	1744.3	1744.8
4°	1743.0	1744.0	1743.0	1742.8	1742.3	1742.5
4.5°	1740.8	1741.8	1740.8	1740.5	1740.0	1740.3
5°	1738.3	1739.3	1738.3	1737.8	1737.3	1737.8
5.5°	1735.5	1736.5	1735.5	1735.0	1734.5	1734.8
6°	1732.5	1733.2	1732.5	1732.0	1731.2	1731.7
6.5°	1729.2	1730.0	1729.2	1728.7	1728.0	1728.2
7°	1725.5	1726.5	1725.5	1725.0	1724.2	1724.7
7.5°	1721.7	1722.7	1721.7	1721.2	1720.2	1720.7
8°	1717.4	1718.7	1717.4	1716.9	1716.2	1716.4
8.5°	1713.2	1714.2	1713.2	1712.7	1711.7	1711.9
9°	1708.7	1709.7	1708.7	1707.9	1707.2	1707.4
9.5°	1703.6	1704.6	1703.6	1702.9	1702.1	1702.1
10°	1698.6	1699.6	1698.6	1697.9	1696.9	1697.1
10.5°	1693.1	1694.4	1693.1	1692.4	1691.3	1691.6
11°	1687.6	1688.6	1687.6	1686.6	1685.8	1685.8
11.5°	1681.6	1682.6	1681.6	1680.8	1679.8	1680.1
12°	1675.5	1676.5	1675.5	1674.5	1673.8	1673.8
12.5°	1669.3	1670.0	1669.3	1668.3	1667.3	1667.3
13°	1662.5	1663.5	1662.5	1661.7	1660.7	1660.7
13.5°	1656.0	1656.5	1656.0	1654.7	1653.7	1653.7
14°	1648.7	1649.4	1648.7	1647.7	1646.7	1646.9
14.5°	1641.4	1642.2	1641.4	1640.4	1639.4	1639.4
15°	1633.9	1634.4	1633.9	1633.1	1632.1	1631.9
15.5°	1626.1	1626.6	1626.1	1625.4	1624.4	1624.1
16°	1618.1	1618.6	1618.1	1617.3	1616.3	1616.3
16.5°	1609.8	1610.6	1609.8	1609.3	1608.3	1608.3
17°	1601.5	1602.0	1601.5	1600.8	1599.8	1599.8
17.5°	1592.7	1593.2	1592.7	1592.2	1591.2	1591.0
18°	1583.7	1584.2	1583.7	1583.2	1582.2	1582.2
18.5°	1574.4	1574.9	1574.4	1574.2	1573.2	1573.2
19°	1565.1	1565.4	1565.1	1564.6	1563.6	1563.6
19.5°	1555.4	1555.6	1555.4	1554.9	1554.1	1553.9
20°	1545.1	1545.6	1545.1	1544.8	1544.1	1544.1
20.5°	1534.5	1535.0	1534.5	1534.5	1533.8	1533.8
21°	1524.0	1524.2	1524.0	1524.0	1523.2	1523.2



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1489.6	1490.1	1489.6	1489.9	1489.4	1489.4
23°	1477.8	1478.1	1477.8	1477.8	1477.6	1477.6
23.5°	1465.5	1465.8	1465.5	1465.8	1465.5	1465.5
24°	1453.0	1453.2	1453.0	1453.2	1453.0	1453.2
24.5°	1440.4	1440.4	1440.4	1440.7	1440.2	1440.2
25°	1427.6	1427.6	1427.6	1427.6	1427.4	1427.4
25.5°	1414.6	1414.6	1414.6	1414.9	1414.4	1414.6
26°	1401.8	1401.6	1401.8	1401.6	1401.3	1401.6
26.5°	1388.5	1388.5	1388.5	1388.5	1388.5	1388.3
27°	1375.5	1375.2	1375.5	1375.5	1375.2	1375.2
27.5°	1362.4	1361.9	1362.4	1362.4	1361.9	1361.9
28°	1349.1	1349.1	1349.1	1349.4	1348.9	1348.9
28.5°	1336.1	1335.8	1336.1	1336.3	1335.8	1335.8
29°	1323.0	1323.0	1323.0	1323.3	1323.0	1322.5
29.5°	1310.5	1310.0	1310.5	1310.5	1310.0	1309.7
30°	1297.7	1297.2	1297.7	1297.7	1297.4	1297.2
30.5°	1285.1	1284.4	1285.1	1285.4	1285.1	1284.6
31°	1272.8	1272.6	1272.8	1273.1	1272.6	1272.3
31.5°	1260.5	1260.0	1260.5	1260.8	1260.5	1260.5
32°	1248.0	1248.0	1248.0	1248.3	1248.3	1248.3
32.5°	1234.5	1235.7	1234.5	1234.7	1235.0	1236.0
33°	1218.6	1222.9	1218.6	1219.4	1219.9	1222.4
33.5°	1200.8	1206.3	1200.8	1202.3	1202.1	1205.8
34°	1180.3	1186.8	1180.3	1183.3	1181.8	1186.0
34.5°	1158.2	1164.2	1158.2	1161.2	1158.7	1164.7
35°	1133.6	1137.6	1133.6	1135.6	1134.3	1139.9
35.5°	1105.7	1108.5	1105.7	1107.5	1109.0	1112.0
36°	1075.4	1079.6	1075.4	1077.4	1081.9	1081.4
36.5°	1043.3	1047.8	1043.3	1045.5	1051.5	1049.3
37°	1009.6	1015.2	1009.6	1012.7	1018.2	1016.2
37.5°	975.3	980.3	975.3	978.0	981.8	981.8
38°	940.4	945.2	940.4	942.6	943.4	945.9
38.5°	904.3	909.0	904.3	906.0	904.0	908.5
39°	867.9	872.9	867.9	868.1	865.1	869.4
39.5°	831.0	835.5	831.0	830.0	826.5	829.5
40°	794.9	797.1	794.9	792.1	788.6	787.8
40.5°	758.5	758.7	758.5	753.7	750.0	746.2
41°	722.4	720.6	722.4	716.8	712.1	705.8
41.5°	686.5	682.7	686.5	680.0	673.2	665.9
42°	650.3	646.3	650.3	643.3	635.3	627.8
42.5°	615.2	610.5	615.2	606.9	598.2	590.9
43°	580.3	576.3	580.3	572.1	562.3	555.0
43.5°	547.0	542.7	547.0	537.9	527.4	520.9



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	451.9	448.4	451.9	443.6	432.1	427.5
45.5°	423.0	420.3	423.0	415.2	404.2	400.2
46°	395.7	393.4	395.7	388.4	378.9	374.3
46.5°	370.1	368.3	370.1	362.6	355.8	350.8
47°	346.5	344.7	346.5	339.2	334.5	328.7
47.5°	324.7	322.7	324.7	317.6	315.1	309.1
48°	305.4	302.6	305.4	298.3	296.8	291.6
48.5°	287.3	284.0	287.3	281.3	280.0	275.7
49°	271.0	268.0	271.0	266.0	264.7	261.4
49.5°	256.7	253.2	256.7	252.9	251.4	249.1
50°	244.1	240.9	244.1	241.6	239.9	237.9
50.5°	233.6	230.3	233.6	231.6	230.1	228.6
51°	224.6	221.8	224.6	223.1	222.3	220.8
51.5°	216.8	215.0	216.8	216.3	215.5	214.3
52°	210.5	209.5	210.5	210.3	209.8	209.3
52.5°	205.0	205.0	205.0	205.0	204.7	204.5
53°	200.2	200.5	200.2	200.2	200.2	200.0
53.5°	195.5	196.0	195.5	195.7	195.7	195.7
54°	190.9	191.4	190.9	191.2	191.2	191.2
54.5°	186.4	186.9	186.4	186.7	186.7	186.7
55°	181.9	182.2	181.9	181.9	181.9	181.9
55.5°	177.1	177.4	177.1	177.4	177.1	177.1
56°	172.6	172.6	172.6	172.6	172.4	172.4
56.5°	167.9	167.9	167.9	167.9	167.9	167.6
57°	163.1	163.1	163.1	163.1	163.1	162.8
57.5°	158.6	158.6	158.6	158.6	158.3	158.1
58°	154.1	154.1	154.1	153.8	153.8	153.3
58.5°	149.5	149.5	149.5	149.3	149.3	148.5
59°	145.0	145.0	145.0	145.0	144.8	144.0
59.5°	140.8	140.8	140.8	140.8	140.5	139.8
60°	136.7	136.5	136.7	136.5	136.2	135.2
60.5°	132.5	132.5	132.5	132.5	132.0	131.0
61°	128.5	128.5	128.5	128.5	128.0	127.0
61.5°	124.7	124.7	124.7	124.4	123.9	122.9
62°	120.7	120.7	120.7	120.7	119.9	118.9
62.5°	116.9	116.9	116.9	116.9	116.2	115.2
63°	113.4	113.4	113.4	113.4	112.4	111.2
63.5°	109.9	109.9	109.9	109.6	108.9	107.6
64°	106.4	106.4	106.4	106.1	105.1	104.1
64.5°	102.9	102.9	102.9	102.9	101.6	100.6
65°	99.6	99.4	99.6	99.4	98.1	97.1
65.5°	96.3	96.3	96.3	96.1	94.8	93.8
66°	93.1	93.1	93.1	92.8	91.6	90.6



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	84.1	83.8	84.1	83.6	82.3	81.0
68°	81.0	81.0	81.0	80.8	79.3	78.0
68.5°	78.0	78.0	78.0	77.8	76.3	75.3
69°	75.3	75.3	75.3	75.0	73.5	72.3
69.5°	72.5	72.5	72.5	72.3	70.5	69.5
70°	69.8	69.8	69.8	69.5	67.7	66.7
70.5°	67.0	67.0	67.0	66.7	65.0	64.0
71°	64.5	64.5	64.5	64.0	62.5	61.5
71.5°	62.0	61.7	62.0	61.5	59.7	58.7
72°	59.5	59.2	59.5	59.0	57.2	56.2
72.5°	57.0	56.7	57.0	56.5	54.7	53.7
73°	54.4	54.4	54.4	53.9	52.2	51.2
73.5°	52.2	52.2	52.2	51.7	49.9	48.9
74°	49.9	49.7	49.9	49.2	47.7	46.7
74.5°	47.7	47.4	47.7	46.9	45.2	44.4
75°	45.4	45.4	45.4	44.7	42.9	42.2
75.5°	43.2	43.2	43.2	42.4	40.9	39.9
76°	41.1	40.9	41.1	40.4	38.6	37.9
76.5°	38.9	38.9	38.9	38.1	36.6	35.6
77°	36.9	36.9	36.9	36.1	34.6	33.6
77.5°	34.9	34.9	34.9	34.1	32.6	31.9
78°	33.1	32.9	33.1	32.1	30.6	29.9
78.5°	31.1	31.1	31.1	30.4	28.6	27.9
79°	29.4	29.1	29.4	28.4	26.8	26.1
79.5°	27.3	27.3	27.3	26.6	24.8	24.3
80°	25.6	25.6	25.6	24.8	23.1	22.6
80.5°	23.8	23.8	23.8	23.1	21.3	20.8
81°	22.1	22.1	22.1	21.3	19.6	19.1
81.5°	20.6	20.6	20.6	19.6	17.8	17.6
82°	18.8	18.8	18.8	17.8	16.3	15.8
82.5°	17.3	17.3	17.3	16.3	14.6	14.3
83°	15.8	15.6	15.8	14.8	13.0	12.8
83.5°	14.1	14.1	14.1	13.3	11.5	11.3
84°	12.5	12.5	12.5	11.8	10.0	9.8
84.5°	11.3	11.3	11.3	10.3	8.5	8.3
85°	9.8	9.8	9.8	9.0	7.3	7.0
85.5°	8.3	8.3	8.3	7.8	6.0	5.8
86°	7.0	7.0	7.0	6.5	5.0	4.5
86.5°	5.8	5.8	5.8	5.3	4.0	3.5
87°	4.5	4.5	4.5	4.0	3.0	2.8
87.5°	3.5	3.3	3.5	3.0	2.3	2.0
88°	2.5	2.0	2.5	2.3	1.5	1.3
88.5°	1.8	1.3	1.8	1.5	1.0	0.8



TEST NUMBER: P776172

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.0	0.3	0.3	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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Cooper Lighting Solutions Photometric Lab  
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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1512.2	1512.5	1513.0	1513.0	1513.2	1513.0	1513.0	1512.5	1512.2	1512.5	1513.0
22°	1501.2	1501.2	1501.4	1501.4	1501.9	1501.4	1501.4	1501.2	1501.2	1501.2	1501.4



44°	488.3	493.8	505.3	513.9	510.1	513.9	505.3	493.8	488.3	493.8	505.3
44.5°	457.4	461.9	473.7	482.5	478.5	482.5	473.7	461.9	457.4	461.9	473.7



66.5°	87.1	88.3	89.6	89.8	90.1	89.8	89.6	88.3	87.1	88.3	89.6
67°	84.1	85.1	86.6	87.1	87.1	87.1	86.6	85.1	84.1	85.1	86.6



89°	0.3	0.5	0.8	1.3	0.8	1.3	0.8	0.5	0.3	0.5	0.8
89.5°	0.0	0.3	0.5	0.8	0.3	0.8	0.5	0.3	0.0	0.3	0.5



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21.5°	1513.0	1513.2	1513.0	1513.0	1512.5	1512.2
22°	1501.4	1501.9	1501.4	1501.4	1501.2	1501.2



44°	513.9	510.1	513.9	505.3	493.8	488.3
44.5°	482.5	478.5	482.5	473.7	461.9	457.4



66.5°	89.8	90.1	89.8	89.6	88.3	87.1
67°	87.1	87.1	87.1	86.6	85.1	84.1

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Scaled Data Report



89°	1.3	0.8	1.3	0.8	0.5	0.3
89.5°	0.8	0.3	0.8	0.5	0.3	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)