

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: P776073

Luminaire Tested: HCDJBS1525CSD-HCD62TRMW-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B057-HCD62TRMW)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD62TRMW-2500lm-4000K
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

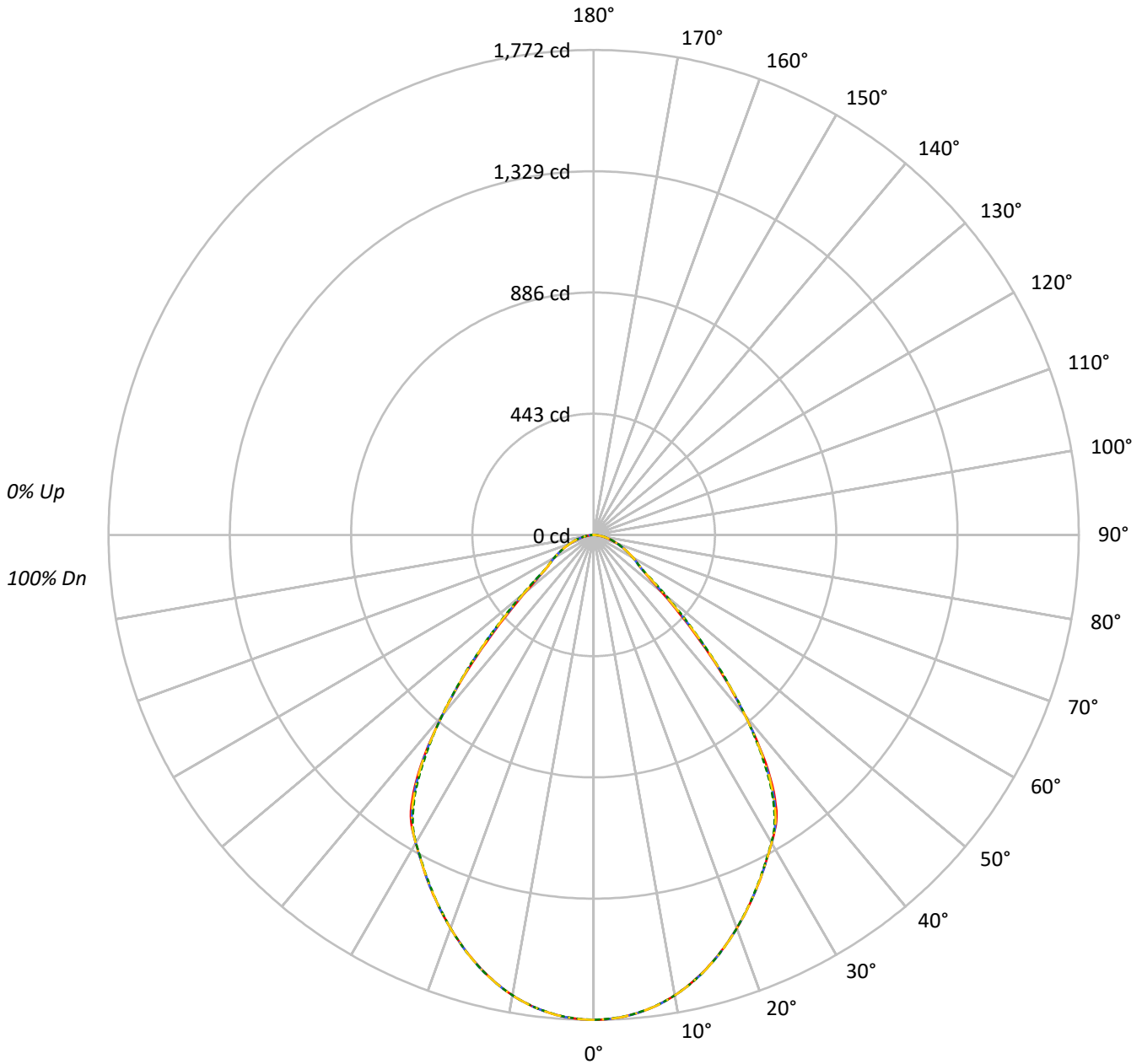
Lumens per Lamp: N/A
Luminaire Lumens: 2820.7 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776073
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMW-2500lm-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40					40			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	97130	97130	97130	97130
5°	96621	96582	96621	96582
10°	95077	95077	95077	95077
15°	92481	92520	92481	92520
20°	89205	89176	89205	89176
25°	85662	85523	85662	85523
30°	82291	82165	82291	82165
35°	76741	75623	76741	75623
40°	61594	61673	61594	61673
45°	43105	44400	43105	44400
50°	27556	29355	27556	29355
55°	20042	20358	20042	20358
60°	18200	18113	18200	18113
65°	16357	16292	16357	16292
70°	14506	14714	14506	14714
75°	12645	13302	12645	13302
80°	10418	11807	10418	11807
85°	6416	9749	6416	9749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 44400 cd/sqm



TEST NUMBER: P776073

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	5.9
10°-20°	458.2	16.2
20°-30°	651.6	23.1
30°-40°	696.6	24.7
40°-50°	440.2	15.6
50°-60°	200.3	7.1
60°-70°	125.5	4.4
70°-80°	65.9	2.3
80°-90°	16.2	0.6
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°	1276.0	45.2
0°-40°	1972.6	69.9
0°-60°	2613.1	92.6
0°-90°	2820.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1772	1772	1772	1772	1772	
5°	1756	1755	1756	1755	1756	166
15°	1630	1630	1630	1630	1630	458
25°	1416	1414	1416	1414	1416	652
35°	1147	1130	1147	1130	1147	700
45°	556	573	556	573	556	434
55°	210	213	210	213	210	198
65°	126	126	126	126	126	125
75°	60	63	60	63	60	64
85°	10	16	10	16	10	14
90°	0	1	0	1	0	



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8
0.5°	1771.6	1771.8	1771.6	1771.6	1770.8	1771.6	1771.6	1771.8	1771.6	1771.8	1771.6
1°	1771.1	1771.3	1771.3	1771.1	1770.3	1771.1	1771.3	1771.3	1771.1	1771.3	1771.3
1.5°	1770.3	1770.6	1770.3	1770.3	1769.5	1770.3	1770.3	1770.6	1770.3	1770.6	1770.3
2°	1769.3	1769.3	1769.3	1769.3	1768.3	1769.3	1769.3	1769.3	1769.3	1769.3	1769.3
2.5°	1767.8	1767.8	1768.0	1767.8	1767.0	1767.8	1768.0	1767.8	1767.8	1767.8	1768.0
3°	1766.0	1766.2	1766.2	1766.2	1765.2	1766.2	1766.2	1766.2	1766.0	1766.2	1766.2
3.5°	1764.0	1764.0	1764.2	1764.2	1763.2	1764.2	1764.2	1764.0	1764.0	1764.0	1764.2
4°	1761.7	1761.7	1761.7	1761.7	1760.9	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7
4.5°	1758.9	1759.1	1759.1	1759.1	1758.1	1759.1	1759.1	1759.1	1758.9	1759.1	1759.1
5°	1755.8	1756.1	1756.1	1756.1	1755.1	1756.1	1756.1	1756.1	1755.8	1756.1	1756.1
5.5°	1752.5	1752.8	1752.8	1752.8	1751.7	1752.8	1752.8	1752.8	1752.5	1752.8	1752.8
6°	1749.0	1749.0	1749.0	1749.0	1748.2	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0
6.5°	1744.9	1744.9	1745.1	1745.1	1744.4	1745.1	1745.1	1744.9	1744.9	1744.9	1745.1
7°	1740.6	1740.8	1740.8	1740.8	1740.1	1740.8	1740.8	1740.8	1740.6	1740.8	1740.8
7.5°	1736.0	1736.0	1736.2	1736.2	1735.5	1736.2	1736.2	1736.0	1736.0	1736.0	1736.2
8°	1730.9	1731.2	1731.4	1731.4	1730.6	1731.4	1731.4	1731.2	1730.9	1731.2	1731.4
8.5°	1725.6	1725.8	1726.1	1726.1	1725.3	1726.1	1726.1	1725.8	1725.6	1725.8	1726.1
9°	1720.0	1720.2	1720.5	1720.7	1720.0	1720.7	1720.5	1720.2	1720.0	1720.2	1720.5
9.5°	1714.1	1714.4	1714.6	1714.9	1714.1	1714.9	1714.6	1714.4	1714.1	1714.4	1714.6
10°	1708.0	1708.0	1708.3	1708.8	1708.0	1708.8	1708.3	1708.0	1708.0	1708.0	1708.3
10.5°	1701.4	1701.4	1701.9	1702.2	1701.4	1702.2	1701.9	1701.4	1701.4	1701.4	1701.9
11°	1694.6	1694.6	1695.1	1695.6	1694.6	1695.6	1695.1	1694.6	1694.6	1694.6	1695.1
11.5°	1687.2	1687.4	1687.9	1688.5	1687.7	1688.5	1687.9	1687.4	1687.2	1687.4	1687.9
12°	1679.8	1680.1	1680.6	1681.1	1680.3	1681.1	1680.6	1680.1	1679.8	1680.1	1680.6
12.5°	1672.2	1672.4	1672.7	1673.2	1672.7	1673.2	1672.7	1672.4	1672.2	1672.4	1672.7
13°	1664.0	1664.3	1664.8	1665.3	1664.8	1665.3	1664.8	1664.3	1664.0	1664.3	1664.8
13.5°	1655.9	1656.2	1656.7	1657.2	1656.4	1657.2	1656.7	1656.2	1655.9	1656.2	1656.7
14°	1647.3	1647.8	1648.3	1648.5	1648.0	1648.5	1648.3	1647.8	1647.3	1647.8	1648.3
14.5°	1638.6	1638.9	1639.4	1639.9	1639.4	1639.9	1639.4	1638.9	1638.6	1638.9	1639.4
15°	1629.5	1630.0	1630.5	1631.0	1630.2	1631.0	1630.5	1630.0	1629.5	1630.0	1630.5
15.5°	1620.3	1620.6	1621.1	1621.6	1620.8	1621.6	1621.1	1620.6	1620.3	1620.6	1621.1
16°	1610.7	1611.2	1611.7	1612.2	1611.4	1612.2	1611.7	1611.2	1610.7	1611.2	1611.7
16.5°	1601.3	1601.5	1602.0	1602.5	1601.8	1602.5	1602.0	1601.5	1601.3	1601.5	1602.0
17°	1591.3	1591.6	1592.1	1592.6	1591.9	1592.6	1592.1	1591.6	1591.3	1591.6	1592.1
17.5°	1581.4	1581.4	1581.9	1582.4	1581.7	1582.4	1581.9	1581.4	1581.4	1581.4	1581.9
18°	1571.0	1571.5	1571.8	1572.0	1571.3	1572.0	1571.8	1571.5	1571.0	1571.5	1571.8
18.5°	1560.6	1561.1	1561.3	1561.6	1560.8	1561.6	1561.3	1561.1	1560.6	1561.1	1561.3
19°	1550.2	1550.7	1550.9	1550.9	1550.4	1550.9	1550.9	1550.7	1550.2	1550.7	1550.9
19.5°	1539.7	1540.0	1540.2	1540.5	1539.7	1540.5	1540.2	1540.0	1539.7	1540.0	1540.2
20°	1529.1	1529.3	1529.6	1529.6	1528.6	1529.6	1529.6	1529.3	1529.1	1529.3	1529.6
20.5°	1518.4	1518.4	1518.4	1518.4	1517.6	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4
21°	1506.9	1507.2	1507.5	1507.2	1506.4	1507.2	1507.5	1507.2	1506.9	1507.2	1507.5



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1473.9	1473.9	1473.6	1473.4	1472.4	1473.4	1473.6	1473.9	1473.9	1473.9	1473.6
23°	1462.5	1462.5	1462.2	1462.0	1460.9	1462.0	1462.2	1462.5	1462.5	1462.5	1462.2
23.5°	1451.0	1451.0	1450.8	1450.3	1449.5	1450.3	1450.8	1451.0	1451.0	1451.0	1450.8
24°	1439.6	1439.6	1439.3	1438.6	1437.5	1438.6	1439.3	1439.6	1439.6	1439.6	1439.3
24.5°	1428.1	1427.9	1427.6	1426.9	1425.9	1426.9	1427.6	1427.9	1428.1	1427.9	1427.6
25°	1416.2	1416.2	1415.9	1415.2	1413.9	1415.2	1415.9	1416.2	1416.2	1416.2	1415.9
25.5°	1404.5	1404.5	1404.2	1403.2	1402.2	1403.2	1404.2	1404.5	1404.5	1404.5	1404.2
26°	1392.8	1392.8	1392.6	1391.8	1390.5	1391.8	1392.6	1392.8	1392.8	1392.8	1392.6
26.5°	1380.9	1380.9	1380.6	1379.6	1378.6	1379.6	1380.6	1380.9	1380.9	1380.9	1380.6
27°	1368.9	1369.2	1368.9	1367.9	1366.6	1367.9	1368.9	1369.2	1368.9	1369.2	1368.9
27.5°	1357.2	1357.2	1357.0	1356.2	1354.9	1356.2	1357.0	1357.2	1357.2	1357.2	1357.0
28°	1345.0	1345.5	1345.3	1344.5	1343.5	1344.5	1345.3	1345.5	1345.0	1345.5	1345.3
28.5°	1333.6	1334.1	1333.8	1333.1	1332.1	1333.1	1333.8	1334.1	1333.6	1334.1	1333.8
29°	1322.1	1322.6	1322.4	1321.9	1320.6	1321.9	1322.4	1322.6	1322.1	1322.6	1322.4
29.5°	1311.0	1311.2	1311.2	1310.4	1309.4	1310.4	1311.2	1311.2	1311.0	1311.2	1311.2
30°	1300.0	1300.0	1300.0	1299.0	1298.0	1299.0	1300.0	1300.0	1300.0	1300.0	1300.0
30.5°	1288.8	1289.1	1288.6	1287.8	1286.5	1287.8	1288.6	1289.1	1288.8	1289.1	1288.6
31°	1277.9	1277.9	1277.4	1276.1	1274.6	1276.1	1277.4	1277.9	1277.9	1277.9	1277.4
31.5°	1266.2	1266.2	1265.2	1263.9	1261.9	1263.9	1265.2	1266.2	1266.2	1266.2	1265.2
32°	1254.3	1253.5	1251.7	1249.4	1246.6	1249.4	1251.7	1253.5	1254.3	1253.5	1251.7
32.5°	1241.3	1239.5	1236.7	1232.9	1229.6	1232.9	1236.7	1239.5	1241.3	1239.5	1236.7
33°	1226.6	1224.5	1219.7	1215.4	1211.8	1215.4	1219.7	1224.5	1226.6	1224.5	1219.7
33.5°	1209.5	1207.7	1201.1	1196.6	1193.0	1196.6	1201.1	1207.7	1209.5	1207.7	1201.1
34°	1190.2	1189.4	1181.6	1176.5	1173.4	1176.5	1181.6	1189.4	1190.2	1189.4	1181.6
34.5°	1169.1	1167.8	1160.7	1155.1	1152.3	1155.1	1160.7	1167.8	1169.1	1167.8	1160.7
35°	1146.7	1144.7	1138.6	1132.5	1130.0	1132.5	1138.6	1144.7	1146.7	1144.7	1138.6
35.5°	1123.1	1120.3	1115.5	1109.1	1105.8	1109.1	1115.5	1120.3	1123.1	1120.3	1115.5
36°	1097.9	1094.4	1091.3	1085.0	1080.9	1085.0	1091.3	1094.4	1097.9	1094.4	1091.3
36.5°	1071.5	1067.7	1065.6	1059.5	1054.5	1059.5	1065.6	1067.7	1071.5	1067.7	1065.6
37°	1043.8	1040.2	1038.7	1033.1	1028.0	1033.1	1038.7	1040.2	1043.8	1040.2	1038.7
37.5°	1014.8	1012.3	1010.7	1006.2	1001.1	1006.2	1010.7	1012.3	1014.8	1012.3	1010.7
38°	984.8	983.3	981.8	978.7	974.4	978.7	981.8	983.3	984.8	983.3	981.8
38.5°	954.0	954.0	951.5	950.5	946.7	950.5	951.5	954.0	954.0	954.0	951.5
39°	923.5	924.0	921.5	921.3	919.7	921.3	921.5	924.0	923.5	924.0	921.5
39.5°	892.3	893.0	890.5	891.3	891.0	891.3	890.5	893.0	892.3	893.0	890.5
40°	860.7	862.3	860.0	861.3	861.8	861.3	860.0	862.3	860.7	862.3	860.0
40.5°	828.7	831.0	829.5	831.5	832.0	831.5	829.5	831.0	828.7	831.0	829.5
41°	797.5	800.0	799.5	801.3	803.0	801.3	799.5	800.0	797.5	800.0	799.5
41.5°	766.4	768.2	769.7	772.0	772.8	772.0	769.7	768.2	766.4	768.2	769.7
42°	735.4	736.9	740.0	742.0	744.1	742.0	740.0	736.9	735.4	736.9	740.0
42.5°	704.7	706.2	710.5	713.1	714.8	713.1	710.5	706.2	704.7	706.2	710.5
43°	673.9	675.9	681.5	683.8	685.6	683.8	681.5	675.9	673.9	675.9	681.5
43.5°	643.7	645.4	652.3	654.6	656.1	654.6	652.3	645.4	643.7	645.4	652.3



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	556.0	559.0	566.6	571.0	572.7	571.0	566.6	559.0	556.0	559.0	566.6
45.5°	527.7	531.5	539.4	544.3	546.0	544.3	539.4	531.5	527.7	531.5	539.4
46°	500.8	505.1	512.7	518.3	520.6	518.3	512.7	505.1	500.8	505.1	512.7
46.5°	474.6	479.4	486.8	493.2	495.7	493.2	486.8	479.4	474.6	479.4	486.8
47°	449.2	454.5	461.6	468.5	471.3	468.5	461.6	454.5	449.2	454.5	461.6
47.5°	425.0	430.1	437.7	444.9	447.4	444.9	437.7	430.1	425.0	430.1	437.7
48°	402.2	407.2	414.9	422.2	425.0	422.2	414.9	407.2	402.2	407.2	414.9
48.5°	380.8	385.1	392.8	400.4	403.4	400.4	392.8	385.1	380.8	385.1	392.8
49°	360.2	364.3	371.7	379.8	382.6	379.8	371.7	364.3	360.2	364.3	371.7
49.5°	340.9	344.5	352.1	359.7	363.0	359.7	352.1	344.5	340.9	344.5	352.1
50°	323.1	325.6	333.5	341.1	344.2	341.1	333.5	325.6	323.1	325.6	333.5
50.5°	306.6	308.4	316.2	323.4	326.4	323.4	316.2	308.4	306.6	308.4	316.2
51°	291.3	292.8	300.0	306.3	309.9	306.3	300.0	292.8	291.3	292.8	300.0
51.5°	277.1	278.4	285.0	290.8	294.1	290.8	285.0	278.4	277.1	278.4	285.0
52°	264.1	265.4	271.5	276.3	279.1	276.3	271.5	265.4	264.1	265.4	271.5
52.5°	252.2	253.2	258.5	262.6	265.1	262.6	258.5	253.2	252.2	253.2	258.5
53°	241.2	243.0	246.8	250.1	252.2	250.1	246.8	243.0	241.2	243.0	246.8
53.5°	232.6	233.6	236.2	239.0	240.5	239.0	236.2	233.6	232.6	233.6	236.2
54°	224.5	224.7	226.5	228.5	229.8	228.5	226.5	224.7	224.5	224.7	226.5
54.5°	217.1	217.1	217.9	219.4	220.9	219.4	217.9	217.1	217.1	217.1	217.9
55°	209.7	210.0	211.0	212.0	213.0	212.0	211.0	210.0	209.7	210.0	211.0
55.5°	202.9	203.9	204.9	205.7	207.4	205.7	204.9	203.9	202.9	203.9	204.9
56°	198.0	198.5	199.3	199.8	201.8	199.8	199.3	198.5	198.0	198.5	199.3
56.5°	194.0	194.0	194.0	194.5	196.2	194.5	194.0	194.0	194.0	194.0	194.0
57°	190.1	190.1	189.6	189.4	190.7	189.4	189.6	190.1	190.1	190.1	189.6
57.5°	186.6	186.3	185.8	185.3	185.1	185.3	185.8	186.3	186.6	186.3	185.8
58°	182.8	182.5	182.0	181.5	181.0	181.5	182.0	182.5	182.8	182.5	182.0
58.5°	178.7	178.5	177.9	177.4	177.2	177.4	177.9	178.5	178.7	178.5	177.9
59°	174.6	174.4	174.1	173.6	173.1	173.6	174.1	174.4	174.6	174.4	174.1
59.5°	170.3	170.3	169.8	169.6	169.3	169.6	169.8	170.3	170.3	170.3	169.8
60°	166.0	166.0	165.7	165.5	165.2	165.5	165.7	166.0	166.0	166.0	165.7
60.5°	161.7	161.7	161.4	161.2	160.9	161.2	161.4	161.7	161.7	161.7	161.4
61°	157.6	157.6	157.4	157.1	156.8	157.1	157.4	157.6	157.6	157.6	157.4
61.5°	153.5	153.5	153.3	153.0	152.8	153.0	153.3	153.5	153.5	153.5	153.3
62°	149.5	149.5	149.2	149.0	148.7	149.0	149.2	149.5	149.5	149.5	149.2
62.5°	145.4	145.4	145.2	144.9	144.6	144.9	145.2	145.4	145.4	145.4	145.2
63°	141.6	141.3	141.3	140.8	140.8	140.8	141.3	141.3	141.6	141.3	141.3
63.5°	137.5	137.5	137.3	137.0	137.0	137.0	137.3	137.5	137.5	137.5	137.3
64°	133.7	133.7	133.5	133.2	133.0	133.2	133.5	133.7	133.7	133.7	133.5
64.5°	129.9	129.9	129.6	129.4	129.4	129.4	129.6	129.9	129.9	129.9	129.6
65°	126.1	126.3	126.1	125.8	125.6	125.8	126.1	126.3	126.1	126.3	126.1
65.5°	122.3	122.5	122.5	122.3	122.0	122.3	122.5	122.5	122.3	122.5	122.5
66°	118.7	119.0	118.7	118.5	118.5	118.5	118.7	119.0	118.7	119.0	118.7



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	107.8	108.3	108.3	108.0	108.0	108.0	108.3	108.3	107.8	108.3	108.3
68°	104.2	104.7	105.0	104.7	104.7	104.7	105.0	104.7	104.2	104.7	105.0
68.5°	100.9	101.4	101.7	101.4	101.4	101.4	101.7	101.4	100.9	101.4	101.7
69°	97.4	98.1	98.4	98.4	98.1	98.4	98.4	98.1	97.4	98.1	98.4
69.5°	93.8	94.8	95.3	95.1	95.1	95.1	95.3	94.8	93.8	94.8	95.3
70°	90.5	91.3	92.0	92.0	91.8	92.0	92.0	91.3	90.5	91.3	92.0
70.5°	87.2	88.2	89.0	88.7	88.7	88.7	89.0	88.2	87.2	88.2	89.0
71°	84.1	85.2	85.9	85.9	85.7	85.9	85.9	85.2	84.1	85.2	85.9
71.5°	80.8	81.9	82.9	82.9	82.6	82.9	82.9	81.9	80.8	81.9	82.9
72°	77.8	78.8	79.8	79.8	79.6	79.8	79.8	78.8	77.8	78.8	79.8
72.5°	74.7	75.8	77.0	76.8	76.8	76.8	77.0	75.8	74.7	75.8	77.0
73°	71.4	72.7	74.0	74.0	73.7	74.0	74.0	72.7	71.4	72.7	74.0
73.5°	68.4	69.7	71.2	71.2	70.9	71.2	71.2	69.7	68.4	69.7	71.2
74°	65.6	66.6	68.1	68.4	68.1	68.4	68.1	66.6	65.6	66.6	68.1
74.5°	62.5	63.8	65.3	65.6	65.3	65.6	65.3	63.8	62.5	63.8	65.3
75°	59.7	60.8	62.5	62.8	62.8	62.8	62.5	60.8	59.7	60.8	62.5
75.5°	56.9	58.0	60.0	60.0	60.0	60.0	60.0	58.0	56.9	58.0	60.0
76°	54.1	55.2	57.2	57.5	57.5	57.5	57.2	55.2	54.1	55.2	57.2
76.5°	51.4	52.4	54.4	54.9	54.7	54.9	54.4	52.4	51.4	52.4	54.4
77°	48.6	49.8	51.9	52.4	52.1	52.4	51.9	49.8	48.6	49.8	51.9
77.5°	45.8	47.0	49.3	49.8	49.6	49.8	49.3	47.0	45.8	47.0	49.3
78°	43.2	44.5	46.5	47.3	47.0	47.3	46.5	44.5	43.2	44.5	46.5
78.5°	40.7	41.7	44.0	44.7	44.7	44.7	44.0	41.7	40.7	41.7	44.0
79°	38.1	39.1	41.4	42.2	42.2	42.2	41.4	39.1	38.1	39.1	41.4
79.5°	35.6	36.6	39.1	39.9	39.9	39.9	39.1	36.6	35.6	36.6	39.1
80°	33.0	34.1	36.6	37.4	37.4	37.4	36.6	34.1	33.0	34.1	36.6
80.5°	30.8	31.8	34.3	35.1	35.1	35.1	34.3	31.8	30.8	31.8	34.3
81°	28.2	29.2	31.8	32.8	32.8	32.8	31.8	29.2	28.2	29.2	31.8
81.5°	25.9	26.7	29.5	30.5	30.5	30.5	29.5	26.7	25.9	26.7	29.5
82°	23.6	24.4	27.2	28.2	28.2	28.2	27.2	24.4	23.6	24.4	27.2
82.5°	21.1	22.1	24.9	26.2	26.2	26.2	24.9	22.1	21.1	22.1	24.9
83°	18.8	19.8	22.6	23.9	23.9	23.9	22.6	19.8	18.8	19.8	22.6
83.5°	16.5	17.5	20.6	21.9	21.6	21.9	20.6	17.5	16.5	17.5	20.6
84°	14.5	15.3	18.6	19.6	19.6	19.6	18.6	15.3	14.5	15.3	18.6
84.5°	12.2	13.0	16.5	17.5	17.5	17.5	16.5	13.0	12.2	13.0	16.5
85°	10.2	10.9	14.5	15.5	15.5	15.5	14.5	10.9	10.2	10.9	14.5
85.5°	8.1	9.2	12.5	13.5	13.5	13.5	12.5	9.2	8.1	9.2	12.5
86°	6.6	7.4	10.7	11.4	11.4	11.4	10.7	7.4	6.6	7.4	10.7
86.5°	5.3	6.1	8.6	9.4	9.7	9.4	8.6	6.1	5.3	6.1	8.6
87°	4.1	4.8	7.1	7.6	7.6	7.6	7.1	4.8	4.1	4.8	7.1
87.5°	3.1	3.6	5.3	5.8	5.8	5.8	5.3	3.6	3.1	3.6	5.3
88°	2.0	2.5	3.8	4.1	4.3	4.1	3.8	2.5	2.0	2.5	3.8
88.5°	1.0	1.5	2.5	3.1	3.3	3.1	2.5	1.5	1.0	1.5	2.5



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1771.8	1771.8	1771.8	1771.8	1771.8	1771.8
0.5°	1771.6	1770.8	1771.6	1771.6	1771.8	1771.6
1°	1771.1	1770.3	1771.1	1771.3	1771.3	1771.1
1.5°	1770.3	1769.5	1770.3	1770.3	1770.6	1770.3
2°	1769.3	1768.3	1769.3	1769.3	1769.3	1769.3
2.5°	1767.8	1767.0	1767.8	1768.0	1767.8	1767.8
3°	1766.2	1765.2	1766.2	1766.2	1766.2	1766.0
3.5°	1764.2	1763.2	1764.2	1764.2	1764.0	1764.0
4°	1761.7	1760.9	1761.7	1761.7	1761.7	1761.7
4.5°	1759.1	1758.1	1759.1	1759.1	1759.1	1758.9
5°	1756.1	1755.1	1756.1	1756.1	1756.1	1755.8
5.5°	1752.8	1751.7	1752.8	1752.8	1752.8	1752.5
6°	1749.0	1748.2	1749.0	1749.0	1749.0	1749.0
6.5°	1745.1	1744.4	1745.1	1745.1	1744.9	1744.9
7°	1740.8	1740.1	1740.8	1740.8	1740.8	1740.6
7.5°	1736.2	1735.5	1736.2	1736.2	1736.0	1736.0
8°	1731.4	1730.6	1731.4	1731.4	1731.2	1730.9
8.5°	1726.1	1725.3	1726.1	1726.1	1725.8	1725.6
9°	1720.7	1720.0	1720.7	1720.5	1720.2	1720.0
9.5°	1714.9	1714.1	1714.9	1714.6	1714.4	1714.1
10°	1708.8	1708.0	1708.8	1708.3	1708.0	1708.0
10.5°	1702.2	1701.4	1702.2	1701.9	1701.4	1701.4
11°	1695.6	1694.6	1695.6	1695.1	1694.6	1694.6
11.5°	1688.5	1687.7	1688.5	1687.9	1687.4	1687.2
12°	1681.1	1680.3	1681.1	1680.6	1680.1	1679.8
12.5°	1673.2	1672.7	1673.2	1672.7	1672.4	1672.2
13°	1665.3	1664.8	1665.3	1664.8	1664.3	1664.0
13.5°	1657.2	1656.4	1657.2	1656.7	1656.2	1655.9
14°	1648.5	1648.0	1648.5	1648.3	1647.8	1647.3
14.5°	1639.9	1639.4	1639.9	1639.4	1638.9	1638.6
15°	1631.0	1630.2	1631.0	1630.5	1630.0	1629.5
15.5°	1621.6	1620.8	1621.6	1621.1	1620.6	1620.3
16°	1612.2	1611.4	1612.2	1611.7	1611.2	1610.7
16.5°	1602.5	1601.8	1602.5	1602.0	1601.5	1601.3
17°	1592.6	1591.9	1592.6	1592.1	1591.6	1591.3
17.5°	1582.4	1581.7	1582.4	1581.9	1581.4	1581.4
18°	1572.0	1571.3	1572.0	1571.8	1571.5	1571.0
18.5°	1561.6	1560.8	1561.6	1561.3	1561.1	1560.6
19°	1550.9	1550.4	1550.9	1550.9	1550.7	1550.2
19.5°	1540.5	1539.7	1540.5	1540.2	1540.0	1539.7
20°	1529.6	1528.6	1529.6	1529.6	1529.3	1529.1
20.5°	1518.4	1517.6	1518.4	1518.4	1518.4	1518.4
21°	1507.2	1506.4	1507.2	1507.5	1507.2	1506.9



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1473.4	1472.4	1473.4	1473.6	1473.9	1473.9
23°	1462.0	1460.9	1462.0	1462.2	1462.5	1462.5
23.5°	1450.3	1449.5	1450.3	1450.8	1451.0	1451.0
24°	1438.6	1437.5	1438.6	1439.3	1439.6	1439.6
24.5°	1426.9	1425.9	1426.9	1427.6	1427.9	1428.1
25°	1415.2	1413.9	1415.2	1415.9	1416.2	1416.2
25.5°	1403.2	1402.2	1403.2	1404.2	1404.5	1404.5
26°	1391.8	1390.5	1391.8	1392.6	1392.8	1392.8
26.5°	1379.6	1378.6	1379.6	1380.6	1380.9	1380.9
27°	1367.9	1366.6	1367.9	1368.9	1369.2	1368.9
27.5°	1356.2	1354.9	1356.2	1357.0	1357.2	1357.2
28°	1344.5	1343.5	1344.5	1345.3	1345.5	1345.0
28.5°	1333.1	1332.1	1333.1	1333.8	1334.1	1333.6
29°	1321.9	1320.6	1321.9	1322.4	1322.6	1322.1
29.5°	1310.4	1309.4	1310.4	1311.2	1311.2	1311.0
30°	1299.0	1298.0	1299.0	1300.0	1300.0	1300.0
30.5°	1287.8	1286.5	1287.8	1288.6	1289.1	1288.8
31°	1276.1	1274.6	1276.1	1277.4	1277.9	1277.9
31.5°	1263.9	1261.9	1263.9	1265.2	1266.2	1266.2
32°	1249.4	1246.6	1249.4	1251.7	1253.5	1254.3
32.5°	1232.9	1229.6	1232.9	1236.7	1239.5	1241.3
33°	1215.4	1211.8	1215.4	1219.7	1224.5	1226.6
33.5°	1196.6	1193.0	1196.6	1201.1	1207.7	1209.5
34°	1176.5	1173.4	1176.5	1181.6	1189.4	1190.2
34.5°	1155.1	1152.3	1155.1	1160.7	1167.8	1169.1
35°	1132.5	1130.0	1132.5	1138.6	1144.7	1146.7
35.5°	1109.1	1105.8	1109.1	1115.5	1120.3	1123.1
36°	1085.0	1080.9	1085.0	1091.3	1094.4	1097.9
36.5°	1059.5	1054.5	1059.5	1065.6	1067.7	1071.5
37°	1033.1	1028.0	1033.1	1038.7	1040.2	1043.8
37.5°	1006.2	1001.1	1006.2	1010.7	1012.3	1014.8
38°	978.7	974.4	978.7	981.8	983.3	984.8
38.5°	950.5	946.7	950.5	951.5	954.0	954.0
39°	921.3	919.7	921.3	921.5	924.0	923.5
39.5°	891.3	891.0	891.3	890.5	893.0	892.3
40°	861.3	861.8	861.3	860.0	862.3	860.7
40.5°	831.5	832.0	831.5	829.5	831.0	828.7
41°	801.3	803.0	801.3	799.5	800.0	797.5
41.5°	772.0	772.8	772.0	769.7	768.2	766.4
42°	742.0	744.1	742.0	740.0	736.9	735.4
42.5°	713.1	714.8	713.1	710.5	706.2	704.7
43°	683.8	685.6	683.8	681.5	675.9	673.9
43.5°	654.6	656.1	654.6	652.3	645.4	643.7



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	571.0	572.7	571.0	566.6	559.0	556.0
45.5°	544.3	546.0	544.3	539.4	531.5	527.7
46°	518.3	520.6	518.3	512.7	505.1	500.8
46.5°	493.2	495.7	493.2	486.8	479.4	474.6
47°	468.5	471.3	468.5	461.6	454.5	449.2
47.5°	444.9	447.4	444.9	437.7	430.1	425.0
48°	422.2	425.0	422.2	414.9	407.2	402.2
48.5°	400.4	403.4	400.4	392.8	385.1	380.8
49°	379.8	382.6	379.8	371.7	364.3	360.2
49.5°	359.7	363.0	359.7	352.1	344.5	340.9
50°	341.1	344.2	341.1	333.5	325.6	323.1
50.5°	323.4	326.4	323.4	316.2	308.4	306.6
51°	306.3	309.9	306.3	300.0	292.8	291.3
51.5°	290.8	294.1	290.8	285.0	278.4	277.1
52°	276.3	279.1	276.3	271.5	265.4	264.1
52.5°	262.6	265.1	262.6	258.5	253.2	252.2
53°	250.1	252.2	250.1	246.8	243.0	241.2
53.5°	239.0	240.5	239.0	236.2	233.6	232.6
54°	228.5	229.8	228.5	226.5	224.7	224.5
54.5°	219.4	220.9	219.4	217.9	217.1	217.1
55°	212.0	213.0	212.0	211.0	210.0	209.7
55.5°	205.7	207.4	205.7	204.9	203.9	202.9
56°	199.8	201.8	199.8	199.3	198.5	198.0
56.5°	194.5	196.2	194.5	194.0	194.0	194.0
57°	189.4	190.7	189.4	189.6	190.1	190.1
57.5°	185.3	185.1	185.3	185.8	186.3	186.6
58°	181.5	181.0	181.5	182.0	182.5	182.8
58.5°	177.4	177.2	177.4	177.9	178.5	178.7
59°	173.6	173.1	173.6	174.1	174.4	174.6
59.5°	169.6	169.3	169.6	169.8	170.3	170.3
60°	165.5	165.2	165.5	165.7	166.0	166.0
60.5°	161.2	160.9	161.2	161.4	161.7	161.7
61°	157.1	156.8	157.1	157.4	157.6	157.6
61.5°	153.0	152.8	153.0	153.3	153.5	153.5
62°	149.0	148.7	149.0	149.2	149.5	149.5
62.5°	144.9	144.6	144.9	145.2	145.4	145.4
63°	140.8	140.8	140.8	141.3	141.3	141.6
63.5°	137.0	137.0	137.0	137.3	137.5	137.5
64°	133.2	133.0	133.2	133.5	133.7	133.7
64.5°	129.4	129.4	129.4	129.6	129.9	129.9
65°	125.8	125.6	125.8	126.1	126.3	126.1
65.5°	122.3	122.0	122.3	122.5	122.5	122.3
66°	118.5	118.5	118.5	118.7	119.0	118.7



TEST NUMBER: P776073

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	108.0	108.0	108.0	108.3	108.3	107.8
68°	104.7	104.7	104.7	105.0	104.7	104.2
68.5°	101.4	101.4	101.4	101.7	101.4	100.9
69°	98.4	98.1	98.4	98.4	98.1	97.4
69.5°	95.1	95.1	95.1	95.3	94.8	93.8
70°	92.0	91.8	92.0	92.0	91.3	90.5
70.5°	88.7	88.7	88.7	89.0	88.2	87.2
71°	85.9	85.7	85.9	85.9	85.2	84.1
71.5°	82.9	82.6	82.9	82.9	81.9	80.8
72°	79.8	79.6	79.8	79.8	78.8	77.8
72.5°	76.8	76.8	76.8	77.0	75.8	74.7
73°	74.0	73.7	74.0	74.0	72.7	71.4
73.5°	71.2	70.9	71.2	71.2	69.7	68.4
74°	68.4	68.1	68.4	68.1	66.6	65.6
74.5°	65.6	65.3	65.6	65.3	63.8	62.5
75°	62.8	62.8	62.8	62.5	60.8	59.7
75.5°	60.0	60.0	60.0	60.0	58.0	56.9
76°	57.5	57.5	57.5	57.2	55.2	54.1
76.5°	54.9	54.7	54.9	54.4	52.4	51.4
77°	52.4	52.1	52.4	51.9	49.8	48.6
77.5°	49.8	49.6	49.8	49.3	47.0	45.8
78°	47.3	47.0	47.3	46.5	44.5	43.2
78.5°	44.7	44.7	44.7	44.0	41.7	40.7
79°	42.2	42.2	42.2	41.4	39.1	38.1
79.5°	39.9	39.9	39.9	39.1	36.6	35.6
80°	37.4	37.4	37.4	36.6	34.1	33.0
80.5°	35.1	35.1	35.1	34.3	31.8	30.8
81°	32.8	32.8	32.8	31.8	29.2	28.2
81.5°	30.5	30.5	30.5	29.5	26.7	25.9
82°	28.2	28.2	28.2	27.2	24.4	23.6
82.5°	26.2	26.2	26.2	24.9	22.1	21.1
83°	23.9	23.9	23.9	22.6	19.8	18.8
83.5°	21.9	21.6	21.9	20.6	17.5	16.5
84°	19.6	19.6	19.6	18.6	15.3	14.5
84.5°	17.5	17.5	17.5	16.5	13.0	12.2
85°	15.5	15.5	15.5	14.5	10.9	10.2
85.5°	13.5	13.5	13.5	12.5	9.2	8.1
86°	11.4	11.4	11.4	10.7	7.4	6.6
86.5°	9.4	9.7	9.4	8.6	6.1	5.3
87°	7.6	7.6	7.6	7.1	4.8	4.1
87.5°	5.8	5.8	5.8	5.3	3.6	3.1
88°	4.1	4.3	4.1	3.8	2.5	2.0
88.5°	3.1	3.3	3.1	2.5	1.5	1.0



TEST NUMBER: P776073
CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.8	0.5	0.3	0.3	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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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1496.0	1496.3	1496.0	1496.0	1495.3	1496.0	1496.0	1496.3	1496.0	1496.3	1496.0
22°	1485.1	1485.1	1485.1	1484.6	1483.8	1484.6	1485.1	1485.1	1485.1	1485.1	1485.1



44°	613.7	615.4	623.1	626.4	627.9	626.4	623.1	615.4	613.7	615.4	623.1
44.5°	584.2	587.0	594.3	598.4	599.9	598.4	594.3	587.0	584.2	587.0	594.3



66.5°	114.9	115.4	115.4	115.2	114.9	115.2	115.4	115.4	114.9	115.4	115.4
67°	111.3	111.9	111.9	111.6	111.3	111.6	111.9	111.9	111.3	111.9	111.9



89°	0.5	0.8	1.5	2.0	2.3	2.0	1.5	0.8	0.5	0.8	1.5
89.5°	0.3	0.3	0.8	1.3	1.5	1.3	0.8	0.3	0.3	0.3	0.8

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21.5°	1496.0	1495.3	1496.0	1496.0	1496.3	1496.0
22°	1484.6	1483.8	1484.6	1485.1	1485.1	1485.1



44°	626.4	627.9	626.4	623.1	615.4	613.7
44.5°	598.4	599.9	598.4	594.3	587.0	584.2



66.5°	115.2	114.9	115.2	115.4	115.4	114.9
67°	111.6	111.3	111.6	111.9	111.9	111.3



89°	2.0	2.3	2.0	1.5	0.8	0.5
89.5°	1.3	1.5	1.3	0.8	0.3	0.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)