

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: P775995

Luminaire Tested: HCDJBL51525CSD-HCD4TRMW-2500lm-2700K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775995  
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-HCD4TRMW-2500lm-2700K  
Description: 4 INCH ROUND MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

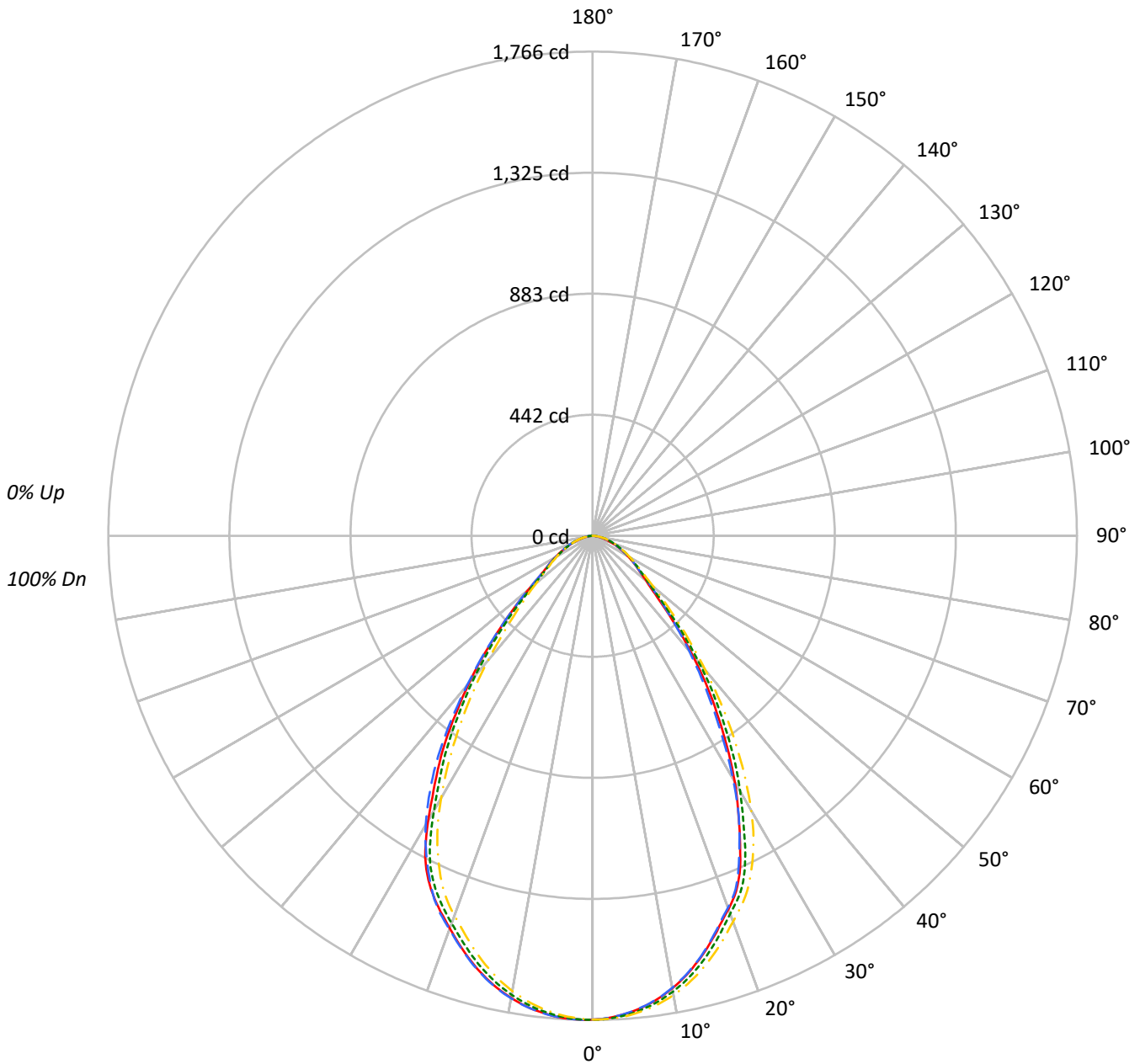
Lumens per Lamp: N/A  
Luminaire Lumens: 2461.9 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.02  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P775995  
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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					70					50					30				
RW	70	50	30	10	70	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	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72		
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53		
7	75	64	57	51	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41		
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°	222112	222112	222112	222112
5°	219727	220548	221773	221104
10°	214153	215699	218740	217283
15°	204958	207394	212697	210456
20°	194046	196537	204064	201372
25°	176935	182726	195209	191668
30°	150608	156378	174266	168163
35°	121601	128116	146091	139945
40°	92509	99195	115033	109266
45°	65354	71049	84700	79361
50°	49848	52784	59559	55486
55°	42456	44277	45747	43619
60°	37126	39139	39743	38032
65°	31744	34543	33977	33173
70°	26898	30761	28958	29400
75°	21687	27424	24264	25917
80°	15075	23844	18626	22105
85°	5198	18916	8375	16028

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 202.5°  
 Vertical Angle: 45°  
 Luminance: 85875 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.1	6.7
10°-20°	449.7	18.3
20°-30°	609.6	24.8
30°-40°	541.4	22.0
40°-50°	331.5	13.5
50°-60°	183.8	7.5
60°-70°	112.8	4.6
70°-80°	55.8	2.3
80°-90°	12.1	0.5
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°	1224.4	49.7
0°-40°	1765.8	71.7
0°-60°	2281.2	92.7
0°-90°	2461.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1765	1765	1765	1765	1765	
5°	1739	1746	1756	1750	1739	164
15°	1573	1592	1632	1615	1573	441
25°	1274	1316	1406	1380	1274	579
35°	792	834	951	911	792	493
45°	367	399	476	446	367	293
55°	194	202	208	199	194	175
65°	107	116	114	111	107	107
75°	45	56	50	53	45	48
85°	4	13	6	11	4	7
90°	0	0	0	0	0	



TEST NUMBER: P775995

CATALOG NUMBER: HCDJBL1525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9
0.5°	1764.2	1764.5	1764.0	1763.0	1765.4	1764.7	1764.7	1765.2	1765.7	1766.1	1765.7
1°	1763.0	1763.2	1762.8	1761.8	1764.7	1764.5	1764.5	1765.4	1765.9	1766.4	1765.9
1.5°	1761.3	1761.3	1760.8	1760.1	1763.5	1763.7	1763.7	1765.2	1765.9	1766.4	1765.9
2°	1759.4	1759.1	1758.6	1758.2	1762.0	1762.5	1763.0	1764.2	1765.4	1766.1	1765.4
2.5°	1756.9	1756.7	1756.2	1755.7	1760.1	1761.1	1761.8	1763.5	1764.7	1765.4	1764.7
3°	1754.0	1754.0	1753.6	1753.1	1757.9	1759.1	1760.3	1762.3	1763.5	1764.2	1763.5
3.5°	1750.9	1750.9	1750.2	1750.2	1755.5	1756.9	1758.4	1760.6	1762.0	1762.8	1762.0
4°	1747.5	1747.3	1746.5	1746.8	1752.6	1754.5	1756.0	1758.6	1760.3	1761.1	1760.3
4.5°	1743.9	1743.4	1742.7	1743.1	1749.4	1751.4	1753.3	1756.2	1758.2	1759.1	1758.2
5°	1739.3	1739.0	1738.5	1739.0	1745.8	1748.2	1750.4	1753.6	1755.5	1756.7	1755.7
5.5°	1734.7	1734.2	1733.7	1734.4	1741.4	1744.4	1746.8	1750.6	1752.6	1753.8	1753.1
6°	1729.8	1729.1	1728.6	1729.3	1737.1	1740.5	1743.4	1747.3	1749.4	1750.6	1750.2
6.5°	1724.2	1723.5	1723.5	1724.2	1732.2	1735.9	1739.3	1743.4	1746.0	1747.3	1746.8
7°	1718.7	1718.0	1717.7	1718.7	1727.2	1731.0	1734.9	1739.3	1742.4	1743.6	1742.9
7.5°	1712.4	1711.4	1711.2	1712.6	1721.6	1725.9	1730.1	1734.9	1738.1	1739.5	1738.8
8°	1706.1	1705.1	1704.6	1706.1	1715.3	1720.4	1725.0	1730.1	1733.2	1734.9	1734.2
8.5°	1699.1	1698.1	1697.6	1699.1	1709.2	1714.6	1719.4	1725.0	1728.4	1729.8	1729.6
9°	1691.8	1690.6	1690.1	1692.0	1702.4	1708.3	1713.6	1719.2	1723.3	1725.0	1724.5
9.5°	1683.8	1682.3	1682.1	1684.3	1695.2	1701.7	1707.3	1713.6	1717.7	1719.4	1718.9
10°	1675.8	1674.1	1673.9	1676.0	1687.9	1694.7	1700.8	1707.3	1711.7	1713.8	1713.1
10.5°	1667.3	1665.6	1665.4	1667.6	1680.2	1687.4	1693.7	1700.8	1705.1	1707.5	1707.1
11°	1658.4	1656.7	1656.2	1658.9	1671.4	1679.4	1686.2	1694.0	1698.6	1701.0	1700.5
11.5°	1648.9	1646.7	1646.7	1649.6	1663.2	1671.2	1678.7	1686.2	1691.8	1694.0	1693.7
12°	1639.2	1637.3	1637.1	1640.0	1654.3	1662.7	1670.5	1678.7	1684.5	1686.9	1686.2
12.5°	1629.1	1626.9	1626.9	1629.5	1644.3	1653.5	1661.8	1670.7	1676.5	1679.2	1678.5
13°	1618.6	1616.5	1616.0	1619.4	1634.6	1644.3	1653.0	1662.5	1668.5	1671.4	1670.7
13.5°	1607.3	1604.8	1605.3	1608.5	1624.7	1634.4	1643.8	1653.8	1660.1	1663.0	1662.5
14°	1596.6	1593.9	1593.7	1597.1	1614.0	1624.2	1633.9	1644.3	1651.3	1654.3	1653.3
14.5°	1585.0	1582.3	1582.1	1585.9	1602.9	1613.8	1624.2	1634.9	1642.4	1645.0	1644.1
15°	1573.1	1570.0	1569.7	1573.8	1591.8	1602.9	1614.0	1624.9	1632.5	1635.6	1634.6
15.5°	1560.8	1557.9	1557.9	1561.7	1579.9	1591.8	1603.1	1615.0	1622.5	1625.9	1625.2
16°	1548.2	1545.3	1545.0	1549.1	1568.0	1580.4	1592.2	1604.8	1612.6	1616.0	1615.0
16.5°	1535.6	1532.2	1532.2	1536.8	1555.9	1568.5	1581.1	1593.9	1602.2	1605.6	1604.6
17°	1523.0	1519.1	1519.3	1523.9	1543.3	1556.4	1569.7	1583.0	1591.3	1594.9	1594.2
17.5°	1510.1	1506.0	1506.0	1510.9	1530.5	1544.3	1557.9	1571.7	1580.4	1584.3	1583.0
18°	1496.6	1492.7	1492.5	1497.5	1517.9	1531.7	1546.0	1560.0	1569.2	1573.1	1572.1
18.5°	1484.0	1479.6	1479.1	1484.5	1504.8	1518.9	1533.6	1548.4	1557.9	1561.7	1560.8
19°	1471.9	1467.3	1466.5	1471.6	1491.7	1506.5	1521.3	1536.5	1546.5	1550.6	1549.4
19.5°	1460.2	1455.4	1454.7	1459.8	1479.4	1494.2	1508.9	1524.9	1534.6	1539.2	1538.2
20°	1448.9	1443.8	1443.3	1448.1	1467.5	1482.5	1497.8	1513.3	1523.7	1528.1	1527.6
20.5°	1436.8	1431.7	1431.2	1436.3	1455.9	1470.9	1486.2	1501.9	1512.3	1517.4	1516.9
21°	1424.6	1419.6	1419.3	1424.6	1444.3	1460.0	1475.0	1490.5	1501.4	1507.0	1506.5



TEST NUMBER: P775995

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1381.0	1373.8	1373.3	1381.5	1407.7	1424.2	1440.1	1456.6	1467.8	1473.6	1472.8
23°	1363.1	1355.6	1353.9	1363.8	1393.2	1410.1	1426.6	1444.7	1456.4	1461.7	1459.8
23.5°	1344.0	1336.2	1333.1	1345.2	1376.4	1394.6	1412.5	1432.4	1444.5	1448.6	1446.2
24°	1322.4	1314.9	1310.8	1324.9	1357.8	1378.1	1397.3	1419.1	1432.2	1435.1	1431.4
24.5°	1299.2	1293.1	1288.5	1303.3	1337.9	1360.5	1381.0	1405.3	1419.1	1420.5	1416.2
25°	1274.2	1270.1	1265.8	1280.8	1315.9	1341.6	1364.1	1390.2	1405.8	1405.3	1399.9
25.5°	1249.8	1245.9	1243.7	1257.3	1292.9	1320.5	1346.2	1374.7	1391.5	1389.0	1382.7
26°	1225.1	1221.2	1221.9	1233.1	1268.9	1298.7	1328.0	1358.0	1375.7	1372.3	1365.5
26.5°	1200.4	1195.0	1199.9	1208.4	1243.2	1275.9	1308.6	1339.9	1358.8	1354.2	1347.9
27°	1175.9	1169.6	1177.1	1183.6	1218.0	1252.4	1289.7	1321.2	1340.8	1336.0	1330.7
27.5°	1152.6	1143.9	1153.9	1158.0	1193.8	1228.7	1270.1	1301.8	1321.2	1317.1	1313.2
28°	1129.6	1117.8	1128.9	1132.8	1169.6	1204.2	1249.5	1281.3	1299.9	1298.7	1294.8
28.5°	1106.9	1093.1	1103.2	1108.1	1146.1	1181.2	1228.0	1260.4	1276.4	1279.1	1276.7
29°	1083.1	1068.4	1076.8	1083.1	1122.9	1158.7	1204.7	1238.1	1251.7	1259.0	1258.0
29.5°	1060.1	1043.9	1050.4	1058.2	1099.6	1136.4	1181.0	1214.9	1226.0	1238.1	1238.1
30°	1036.4	1019.2	1023.6	1033.2	1076.1	1114.1	1156.3	1190.7	1199.2	1216.8	1217.8
30.5°	1012.4	995.2	996.2	1008.1	1053.1	1092.1	1131.3	1164.3	1171.8	1193.6	1195.8
31°	987.5	970.3	969.5	982.9	1029.9	1069.3	1105.4	1137.4	1144.7	1170.6	1173.7
31.5°	962.8	945.6	943.1	958.2	1005.6	1046.3	1079.3	1109.3	1118.5	1146.6	1150.2
32°	936.6	921.3	916.5	933.5	981.9	1023.1	1054.1	1081.0	1093.8	1121.9	1127.2
32.5°	911.4	896.4	889.9	908.5	957.9	999.3	1028.9	1052.9	1069.6	1095.7	1104.2
33°	886.7	871.7	864.2	884.3	932.5	974.4	1002.2	1024.5	1045.6	1069.1	1081.2
33.5°	862.2	848.2	838.5	860.3	907.3	949.4	975.6	997.4	1021.9	1042.7	1056.7
34°	838.5	823.5	813.1	836.1	882.3	923.8	949.0	972.2	998.8	1016.8	1033.2
34.5°	814.8	799.3	788.1	811.9	858.1	897.4	922.8	945.8	974.9	990.6	1007.3
35°	791.5	774.6	762.9	787.9	833.9	871.0	896.4	919.2	950.9	965.7	981.7
35.5°	768.8	751.6	739.2	763.9	810.9	845.8	870.5	893.7	925.7	941.2	954.8
36°	746.2	727.1	716.4	739.7	786.9	819.9	843.6	868.1	899.5	916.7	928.4
36.5°	723.2	703.4	694.2	715.0	764.4	794.9	818.2	842.4	873.6	892.0	901.0
37°	700.0	680.6	672.4	691.2	741.4	769.7	791.3	816.2	847.2	867.1	873.6
37.5°	676.7	657.8	650.6	667.5	718.6	745.5	765.4	790.3	821.1	843.1	846.7
38°	653.5	635.5	629.0	644.3	696.1	721.3	739.0	764.9	796.1	817.7	819.6
38.5°	630.2	613.0	607.4	622.7	673.3	697.5	713.8	739.9	772.6	792.7	792.0
39°	607.9	592.2	586.9	601.4	648.6	673.8	688.6	715.0	747.7	767.3	765.4
39.5°	585.2	571.4	566.5	580.6	626.1	650.1	665.1	691.5	724.2	742.1	738.7
40°	563.1	550.8	545.9	559.7	603.8	626.3	640.1	668.0	700.2	716.7	712.6
40.5°	541.8	530.7	526.8	539.9	580.6	601.6	616.4	645.5	678.7	691.7	686.4
41°	521.2	511.0	508.4	520.3	558.5	578.1	592.9	622.9	654.9	667.3	661.7
41.5°	500.4	491.7	490.2	501.4	537.2	555.1	570.9	601.4	630.7	643.1	637.5
42°	479.8	473.3	473.5	482.7	516.9	532.6	548.8	580.6	607.0	619.1	613.7
42.5°	460.2	455.6	456.8	464.5	496.0	510.3	528.0	559.7	584.9	595.8	590.7
43°	440.6	438.4	440.6	447.1	475.9	489.3	507.7	538.9	561.4	572.1	567.5
43.5°	421.2	421.4	424.3	430.2	455.8	468.9	488.5	519.0	538.9	549.1	545.0



TEST NUMBER: P775995

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	367.2	375.2	380.0	383.4	399.2	413.0	432.1	459.7	475.9	482.5	480.5
45.5°	351.7	360.9	366.2	369.1	381.7	395.8	415.4	440.8	456.6	461.4	459.9
46°	337.1	347.3	353.4	355.6	365.0	378.8	398.7	422.4	437.2	440.8	440.1
46.5°	323.3	334.2	340.3	342.2	349.3	363.5	382.4	404.7	418.8	420.7	421.0
47°	310.7	321.6	328.4	329.4	335.0	348.3	367.2	387.8	400.6	400.8	402.3
47.5°	299.4	309.5	316.6	317.3	321.6	334.0	352.6	371.1	382.9	382.7	384.9
48°	289.2	298.6	305.2	305.9	309.1	320.9	339.1	355.6	366.2	365.2	367.4
48.5°	279.5	288.0	294.3	295.0	297.7	308.6	326.0	340.8	349.7	348.8	351.0
49°	270.8	278.0	284.6	284.6	287.5	297.4	313.2	326.5	333.8	332.8	335.0
49.5°	262.3	268.6	274.7	274.7	278.0	286.5	301.5	313.2	318.7	318.0	320.2
50°	254.6	259.6	265.2	265.2	269.6	276.6	290.2	300.3	304.2	304.0	305.7
50.5°	247.3	251.2	255.8	256.5	261.1	267.4	279.5	288.2	291.1	291.1	292.1
51°	240.3	243.4	247.5	248.0	253.1	258.9	269.3	276.8	278.8	279.0	279.5
51.5°	233.2	235.7	239.3	240.3	245.8	250.9	259.6	266.2	267.4	267.9	267.4
52°	226.7	228.4	231.5	232.5	239.1	243.2	250.7	256.3	256.7	257.2	256.3
52.5°	220.2	221.4	224.0	225.5	232.0	235.9	242.0	246.6	247.0	247.3	245.8
53°	213.9	215.1	217.0	218.5	225.2	228.9	234.0	237.6	238.3	238.1	236.1
53.5°	208.1	209.0	210.5	211.9	218.7	222.1	226.2	229.6	229.9	229.6	227.7
54°	202.7	203.5	204.4	205.9	212.7	216.0	219.0	221.9	222.1	221.6	219.9
54.5°	198.1	198.6	199.3	200.8	206.6	209.5	212.2	214.6	215.1	214.1	212.7
55°	193.5	194.0	194.7	195.9	201.8	204.7	206.8	208.1	208.5	207.8	207.3
55.5°	188.9	189.4	190.1	191.3	196.9	199.6	201.8	203.0	203.5	202.7	202.0
56°	184.3	184.8	185.5	186.5	192.1	194.7	196.7	197.9	198.1	197.4	196.7
56.5°	179.5	180.2	180.9	182.1	187.2	189.6	191.3	192.8	192.8	192.3	191.6
57°	174.9	175.6	176.3	177.3	182.9	184.8	186.3	187.5	187.5	187.0	186.3
57.5°	170.3	171.0	171.5	172.7	178.0	180.0	181.4	182.6	183.1	182.1	181.2
58°	165.7	166.4	166.9	168.1	173.4	175.4	176.6	177.8	178.0	177.3	176.1
58.5°	161.1	161.8	162.5	163.7	168.8	170.5	171.7	173.2	172.9	172.4	171.2
59°	156.7	157.4	158.2	159.4	164.2	165.9	167.1	168.3	167.8	167.4	166.4
59.5°	152.1	153.1	153.8	154.8	159.9	161.3	162.3	163.5	163.0	162.5	161.5
60°	147.5	149.0	149.4	150.7	155.5	157.2	157.9	158.9	157.9	157.9	156.9
60.5°	143.1	144.6	145.3	146.3	151.4	152.6	153.6	154.3	153.1	153.1	152.3
61°	138.8	140.2	141.2	142.2	147.0	148.5	149.2	149.9	148.5	148.5	148.0
61.5°	134.7	136.1	137.3	138.3	142.9	144.4	144.8	145.6	143.9	143.9	143.6
62°	130.3	132.0	133.5	134.2	138.8	140.2	140.7	141.4	139.3	139.5	139.5
62.5°	126.2	128.1	129.3	130.3	134.7	136.1	136.8	137.1	134.9	135.1	135.4
63°	122.1	124.0	125.7	126.7	130.8	132.2	132.7	133.0	130.5	130.8	131.3
63.5°	118.2	120.1	121.8	122.8	126.9	128.4	128.9	128.6	126.2	126.7	127.4
64°	114.3	116.3	118.4	119.2	123.3	124.5	125.0	124.5	122.1	122.6	123.5
64.5°	110.4	112.6	114.8	115.8	119.6	120.9	121.3	120.6	118.0	118.7	119.9
65°	106.6	108.7	111.4	112.1	116.0	117.2	117.7	116.7	114.1	114.8	116.0
65.5°	102.9	105.1	107.8	108.7	112.6	113.6	114.3	112.9	110.0	110.9	112.4
66°	99.3	101.7	104.4	105.4	109.0	110.2	110.7	109.2	106.3	107.3	109.0





TEST NUMBER: P775995

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	88.9	91.3	94.5	95.7	99.1	100.0	100.5	98.3	95.4	96.4	98.6
68°	85.7	87.9	91.3	92.5	95.9	96.9	97.4	94.9	92.0	93.0	95.2
68.5°	82.6	85.0	88.4	89.4	92.8	93.7	94.0	91.6	88.4	89.6	92.0
69°	79.4	81.9	85.3	86.5	89.6	90.6	90.8	88.2	85.3	86.5	88.9
69.5°	76.3	78.7	82.3	83.6	86.7	87.7	87.7	85.0	81.9	83.3	85.7
70°	73.1	75.6	79.4	80.9	83.6	84.5	84.8	81.9	78.7	80.2	82.6
70.5°	70.0	72.4	76.5	78.0	80.9	81.6	81.9	78.7	75.6	77.0	79.7
71°	67.1	69.5	73.6	75.1	78.0	78.7	78.7	75.6	72.7	73.9	76.8
71.5°	64.2	66.6	70.7	72.4	75.1	76.1	75.8	72.4	69.5	71.0	73.9
72°	61.0	63.7	67.8	69.5	72.2	73.1	72.9	69.5	66.6	68.1	71.0
72.5°	58.1	60.8	65.2	66.8	69.5	70.5	70.2	66.6	63.7	65.2	68.3
73°	55.2	57.9	62.2	64.2	66.8	67.6	67.3	63.7	60.8	62.2	65.4
73.5°	52.6	55.0	59.6	61.5	64.2	64.9	64.4	60.8	57.9	59.3	62.7
74°	49.9	52.3	56.9	59.1	61.5	62.5	62.0	58.1	55.2	56.7	60.1
74.5°	47.2	49.7	54.3	56.4	58.9	59.8	59.1	55.5	52.6	54.0	57.4
75°	44.6	47.0	51.6	54.0	56.4	57.2	56.7	52.6	49.9	51.3	54.7
75.5°	41.9	44.3	49.2	51.3	54.0	54.7	54.0	50.1	47.2	48.7	52.3
76°	39.5	41.9	46.5	49.2	51.3	52.3	51.3	47.2	44.6	46.0	49.9
76.5°	37.1	39.2	44.1	46.5	48.9	49.9	48.9	44.8	42.1	43.6	47.2
77°	34.6	36.8	41.7	44.3	46.5	47.5	46.5	42.1	39.5	40.9	44.8
77.5°	32.2	34.4	39.2	41.9	44.3	45.3	44.1	39.7	37.1	38.5	42.4
78°	29.8	32.0	37.1	39.7	41.9	42.9	41.7	37.3	34.6	36.3	40.0
78.5°	27.4	29.5	34.6	37.3	39.7	40.4	39.2	34.9	32.5	33.9	37.8
79°	25.2	27.1	32.5	35.1	37.3	38.3	37.1	32.5	30.0	31.5	35.6
79.5°	23.0	24.9	30.0	32.9	35.1	36.1	34.9	30.3	27.9	29.1	33.2
80°	20.8	22.8	27.9	30.8	32.9	33.9	32.5	27.9	25.7	26.9	31.0
80.5°	18.6	20.6	25.9	28.8	31.0	31.7	30.5	25.7	23.5	24.7	28.8
81°	16.5	18.4	23.7	26.6	28.8	29.5	28.3	23.5	21.3	22.8	26.9
81.5°	14.5	16.2	21.8	24.5	26.6	27.6	26.2	21.6	19.4	20.6	24.7
82°	12.4	14.3	19.9	22.5	24.7	25.4	24.2	19.6	17.2	18.4	22.8
82.5°	10.4	12.4	17.9	20.6	22.5	23.5	22.3	17.7	15.3	16.5	21.1
83°	8.5	10.7	16.2	18.6	20.8	21.6	20.6	15.7	13.1	14.3	19.4
83.5°	7.3	9.0	14.3	16.7	18.9	19.6	18.6	13.6	11.1	12.6	17.4
84°	6.1	8.0	12.8	15.0	17.0	17.7	16.7	11.9	9.2	10.9	15.7
84.5°	4.8	7.0	11.1	13.1	15.0	15.7	15.0	10.4	7.5	9.2	14.0
85°	3.6	5.8	9.4	11.1	13.1	13.8	13.1	9.0	5.8	8.0	12.4
85.5°	2.9	4.8	8.0	9.4	11.1	12.1	11.6	7.8	4.8	7.0	10.7
86°	2.2	3.9	6.5	7.8	9.4	10.4	9.9	6.8	4.1	6.1	9.2
86.5°	1.7	2.9	5.1	6.1	7.8	8.5	8.5	5.6	3.4	5.1	7.8
87°	1.0	1.9	3.4	4.4	6.1	6.8	6.8	4.6	2.7	4.1	6.3
87.5°	0.5	1.2	1.9	2.7	4.4	5.3	5.3	3.6	2.2	3.1	4.8
88°	0.2	0.5	0.7	1.2	2.9	3.6	3.9	2.7	1.5	2.4	3.4
88.5°	0.0	0.2	0.2	0.5	1.5	1.9	2.4	1.7	1.0	1.5	1.9



TEST NUMBER: P775995  
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P775995

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9
0.5°	1764.5	1765.7	1764.7	1763.7	1764.0	1764.2
1°	1764.7	1765.4	1764.0	1762.8	1762.8	1763.0
1.5°	1764.2	1764.7	1763.0	1761.5	1761.3	1761.3
2°	1763.7	1763.7	1761.8	1759.9	1759.4	1759.4
2.5°	1762.8	1762.3	1760.3	1758.2	1757.2	1756.9
3°	1761.5	1760.6	1758.2	1756.0	1754.5	1754.0
3.5°	1760.1	1758.6	1756.0	1753.3	1751.6	1750.9
4°	1758.2	1756.5	1753.1	1750.6	1748.5	1747.5
4.5°	1756.0	1753.3	1750.2	1747.0	1744.8	1743.9
5°	1753.6	1750.2	1746.5	1743.4	1740.7	1739.3
5.5°	1750.4	1746.8	1742.9	1739.3	1736.4	1734.7
6°	1747.0	1743.1	1738.5	1734.9	1731.8	1729.8
6.5°	1743.6	1739.3	1734.2	1730.3	1726.4	1724.2
7°	1739.7	1734.7	1729.3	1725.0	1720.9	1718.7
7.5°	1735.6	1729.6	1724.2	1719.4	1715.0	1712.4
8°	1730.8	1724.7	1718.7	1713.3	1708.7	1706.1
8.5°	1725.9	1719.2	1712.9	1707.3	1702.2	1699.1
9°	1720.6	1713.1	1706.6	1700.3	1694.7	1691.8
9.5°	1715.0	1707.1	1700.0	1693.5	1687.4	1683.8
10°	1709.0	1700.3	1693.0	1686.2	1679.7	1675.8
10.5°	1702.7	1693.5	1685.5	1678.5	1671.7	1667.3
11°	1695.7	1686.2	1677.7	1670.2	1663.0	1658.4
11.5°	1688.6	1678.7	1669.8	1661.8	1653.5	1648.9
12°	1681.1	1670.5	1661.3	1652.3	1644.3	1639.2
12.5°	1673.4	1662.0	1652.3	1642.9	1634.4	1629.1
13°	1665.2	1653.3	1643.4	1633.4	1624.5	1618.6
13.5°	1656.7	1644.6	1633.7	1623.5	1613.6	1607.3
14°	1647.7	1635.1	1624.0	1613.1	1602.4	1596.6
14.5°	1638.5	1625.4	1613.8	1602.4	1591.3	1585.0
15°	1628.8	1615.3	1603.1	1591.0	1579.7	1573.1
15.5°	1618.9	1604.6	1592.2	1579.9	1568.0	1560.8
16°	1608.7	1594.2	1581.1	1568.3	1556.2	1548.2
16.5°	1598.3	1583.3	1569.7	1556.6	1543.6	1535.6
17°	1587.4	1571.7	1558.1	1544.8	1531.2	1523.0
17.5°	1576.5	1560.8	1546.2	1532.2	1518.4	1510.1
18°	1565.4	1549.1	1534.6	1520.1	1505.8	1496.6
18.5°	1554.0	1537.3	1522.7	1508.0	1493.4	1484.0
19°	1542.1	1526.4	1511.1	1496.3	1481.8	1471.9
19.5°	1531.2	1514.7	1499.7	1485.2	1470.4	1460.2
20°	1520.6	1503.6	1489.1	1473.8	1459.0	1448.9
20.5°	1509.9	1492.9	1477.4	1462.4	1447.2	1436.8
21°	1499.0	1481.6	1466.3	1450.8	1435.3	1424.6



TEST NUMBER: P775995

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1465.6	1447.2	1430.2	1410.6	1392.7	1381.0
23°	1453.2	1435.3	1417.6	1395.8	1376.4	1363.1
23.5°	1440.1	1422.5	1403.8	1379.6	1358.3	1344.0
24°	1425.9	1409.9	1389.0	1362.6	1338.9	1322.4
24.5°	1411.1	1395.1	1373.5	1344.5	1318.3	1299.2
25°	1395.3	1380.3	1356.8	1326.1	1297.0	1274.2
25.5°	1378.9	1364.1	1339.4	1307.2	1274.5	1249.8
26°	1361.7	1347.4	1321.0	1288.3	1251.2	1225.1
26.5°	1343.0	1327.8	1301.1	1268.2	1227.2	1200.4
27°	1324.9	1307.9	1280.5	1247.3	1203.8	1175.9
27.5°	1306.4	1285.4	1259.2	1226.0	1180.0	1152.6
28°	1287.3	1261.6	1236.9	1203.5	1157.0	1129.6
28.5°	1267.7	1236.4	1213.4	1180.0	1134.2	1106.9
29°	1247.3	1211.0	1189.0	1155.6	1111.7	1083.1
29.5°	1227.0	1184.1	1163.5	1130.6	1089.4	1060.1
30°	1205.0	1157.2	1137.1	1105.2	1067.1	1036.4
30.5°	1182.2	1131.1	1109.5	1079.7	1044.1	1012.4
31°	1158.5	1105.4	1080.7	1054.1	1020.2	987.5
31.5°	1134.0	1080.7	1053.1	1027.4	996.4	962.8
32°	1109.1	1056.5	1025.7	1001.3	972.4	936.6
32.5°	1083.1	1032.8	998.8	974.9	947.7	911.4
33°	1056.7	1009.3	973.2	948.7	921.1	886.7
33.5°	1030.1	985.8	947.0	922.1	895.4	862.2
34°	1004.2	962.0	922.1	895.9	868.5	838.5
34.5°	978.5	936.4	896.6	869.0	842.1	814.8
35°	953.3	910.9	871.2	842.6	815.3	791.5
35.5°	928.6	885.3	845.5	816.7	790.3	768.8
36°	903.9	859.3	819.6	791.3	764.9	746.2
36.5°	879.2	833.9	793.9	765.8	740.4	723.2
37°	854.7	807.7	768.3	739.7	716.2	700.0
37.5°	829.3	782.8	743.1	714.5	693.2	676.7
38°	804.1	758.6	718.1	689.3	669.0	653.5
38.5°	779.2	735.1	693.7	664.8	645.5	630.2
39°	754.5	711.8	670.7	640.1	621.5	607.9
39.5°	728.8	688.3	647.7	616.2	597.3	585.2
40°	703.8	665.1	625.4	592.4	573.5	563.1
40.5°	678.7	641.8	603.6	569.4	550.3	541.8
41°	655.4	618.1	581.8	546.9	527.3	521.2
41.5°	630.7	595.3	560.7	525.8	505.2	500.4
42°	607.2	572.1	539.4	504.8	484.4	479.8
42.5°	583.5	549.6	520.0	485.4	464.5	460.2
43°	561.2	527.3	499.2	466.0	445.2	440.6
43.5°	537.7	506.2	479.3	447.1	426.5	421.2

TEST NUMBER: P775995

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	473.0	445.9	421.9	395.3	375.4	367.2
45.5°	451.7	427.0	404.2	379.5	360.2	351.7
46°	431.8	408.8	387.3	364.8	345.4	337.1
46.5°	412.0	390.7	370.6	350.2	331.6	323.3
47°	393.1	373.5	354.6	335.9	318.5	310.7
47.5°	375.2	356.5	339.8	322.9	306.4	299.4
48°	357.7	340.5	325.0	310.7	295.2	289.2
48.5°	342.0	324.8	311.5	299.1	284.6	279.5
49°	326.0	310.3	298.9	288.0	274.9	270.8
49.5°	311.7	296.5	286.8	277.3	265.9	262.3
50°	298.2	283.4	275.1	267.2	257.5	254.6
50.5°	285.3	271.0	264.2	257.7	249.5	247.3
51°	273.2	260.1	254.3	248.7	241.7	240.3
51.5°	262.3	250.0	244.9	240.5	234.5	233.2
52°	251.9	240.5	236.4	232.3	227.7	226.7
52.5°	242.2	232.0	228.2	224.8	220.9	220.2
53°	233.2	224.0	220.4	217.5	214.6	213.9
53.5°	224.8	216.8	213.1	211.0	208.5	208.1
54°	217.0	210.0	206.8	204.9	203.2	202.7
54.5°	210.2	204.2	201.5	199.8	198.4	198.1
55°	205.1	198.8	196.7	195.2	193.8	193.5
55.5°	199.8	194.2	191.8	190.4	188.9	188.9
56°	194.7	189.4	187.0	185.8	184.3	184.3
56.5°	189.6	184.6	182.4	180.9	179.5	179.5
57°	184.3	179.5	177.5	176.1	174.9	174.9
57.5°	179.5	174.4	172.4	171.2	170.3	170.3
58°	174.6	169.8	167.8	166.6	165.7	165.7
58.5°	169.8	164.9	163.0	162.0	161.1	161.1
59°	164.7	160.3	158.4	157.4	156.7	156.7
59.5°	160.1	155.5	153.8	153.1	152.3	152.1
60°	155.5	151.1	149.4	148.7	148.0	147.5
60.5°	150.9	146.5	145.1	144.6	143.9	143.1
61°	146.5	142.4	141.0	140.2	139.8	138.8
61.5°	142.2	138.3	136.8	136.1	135.4	134.7
62°	138.1	134.2	133.0	132.2	131.5	130.3
62.5°	133.9	130.1	128.6	128.4	127.4	126.2
63°	129.8	126.2	125.0	124.5	123.5	122.1
63.5°	126.2	122.3	121.1	120.9	119.6	118.2
64°	122.3	118.7	117.5	117.2	115.8	114.3
64.5°	118.4	115.0	113.8	113.6	112.1	110.4
65°	114.8	111.4	110.4	110.2	108.5	106.6
65.5°	111.2	108.0	107.1	106.6	104.9	102.9
66°	107.8	104.6	103.7	103.4	101.2	99.3



TEST NUMBER: P775995

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	97.9	94.7	94.0	93.5	90.8	88.9
68°	94.5	91.6	90.8	90.6	87.2	85.7
68.5°	91.6	88.6	87.4	87.2	84.3	82.6
69°	88.4	85.7	84.8	84.3	81.4	79.4
69.5°	85.3	82.8	81.9	81.4	78.2	76.3
70°	82.3	79.9	79.2	78.7	75.3	73.1
70.5°	79.4	77.3	76.3	75.8	72.2	70.0
71°	76.8	74.4	73.4	72.9	69.3	67.1
71.5°	73.9	71.5	70.7	70.0	66.4	64.2
72°	71.2	68.8	68.1	67.3	63.5	61.0
72.5°	68.3	66.1	65.4	64.4	60.6	58.1
73°	65.6	63.5	62.7	61.8	57.9	55.2
73.5°	63.0	60.8	60.1	59.1	55.0	52.6
74°	60.6	58.4	57.6	56.4	52.3	49.9
74.5°	57.9	55.7	55.0	54.0	49.7	47.2
75°	55.5	53.3	52.6	51.3	47.0	44.6
75.5°	53.0	50.9	50.1	48.9	44.6	41.9
76°	50.6	48.4	47.7	46.3	41.9	39.5
76.5°	48.2	46.0	45.3	43.8	39.2	37.1
77°	45.8	43.8	43.1	41.4	36.8	34.6
77.5°	43.6	41.4	40.7	39.2	34.4	32.2
78°	41.2	39.2	38.5	36.8	32.0	29.8
78.5°	39.0	37.1	36.3	34.6	29.8	27.4
79°	36.8	34.9	34.2	32.2	27.4	25.2
79.5°	34.6	32.7	32.0	30.0	25.2	23.0
80°	32.5	30.5	29.8	28.1	23.0	20.8
80.5°	30.3	28.6	27.9	25.9	20.8	18.6
81°	28.3	26.4	25.7	23.7	18.6	16.5
81.5°	26.2	24.5	23.7	21.8	16.7	14.5
82°	24.2	22.5	21.8	19.9	14.8	12.4
82.5°	22.3	20.6	19.9	18.2	12.8	10.4
83°	20.6	18.6	17.9	16.2	11.1	8.5
83.5°	18.6	16.7	16.0	14.5	9.7	7.3
84°	16.7	14.8	14.0	12.8	8.5	6.1
84.5°	14.8	13.1	12.4	11.1	7.5	4.8
85°	13.1	11.1	10.7	9.4	6.3	3.6
85.5°	11.1	9.4	8.7	8.0	5.1	2.9
86°	9.4	8.0	7.3	6.3	4.1	2.2
86.5°	7.8	6.3	5.6	4.8	3.1	1.7
87°	6.3	4.6	3.9	3.1	2.2	1.0
87.5°	4.6	2.9	2.2	1.7	1.2	0.5
88°	2.9	1.5	1.0	0.7	0.5	0.2
88.5°	1.5	0.5	0.2	0.2	0.2	0.0



TEST NUMBER: P775995  
CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.2	0.0



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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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Scaled Data Report





21.5°	1412.0	1405.5	1406.0	1411.8	1432.9	1448.4	1463.9	1479.4	1490.0	1495.9	1495.6
22°	1397.5	1390.2	1390.7	1397.3	1421.0	1437.0	1453.0	1468.0	1479.1	1485.2	1484.7



44°	402.3	405.4	409.3	414.2	436.2	449.8	468.9	498.7	517.1	526.6	522.9
44.5°	384.6	389.9	393.8	398.7	417.6	431.1	449.8	479.3	496.8	504.0	501.4



66.5°	95.9	98.1	101.2	102.0	105.6	106.8	107.1	105.4	102.5	103.4	105.4
67°	92.3	94.7	97.9	98.8	102.5	103.4	103.9	102.0	99.1	100.0	102.0



89°	0.0	0.2	0.0	0.0	0.5	0.7	1.0	1.0	0.5	0.7	0.7
89.5°	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2



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21.5°	1487.9	1469.9	1454.7	1438.4	1422.2	1412.0
22°	1477.2	1459.0	1442.8	1424.9	1408.2	1397.5



44°	515.9	485.1	459.9	429.2	408.6	402.3
44.5°	493.9	465.3	441.1	411.7	391.6	384.6



66.5°	104.4	101.2	100.3	100.0	97.6	95.9
67°	101.0	97.9	97.1	96.9	94.2	92.3

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89°	0.5	0.0	0.0	0.0	0.2	0.0
89.5°	0.0	0.0	0.0	0.0	0.2	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)