

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: P776207

Luminaire Tested: HCDJBS1525CSD-HCD8TSQH-2500lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B005-HCD4TSQC)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TSQH-2500lm-3500K  
Description: 8 INCH SQUARE MEDIUM HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2465.9 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
CIE Type: Direct

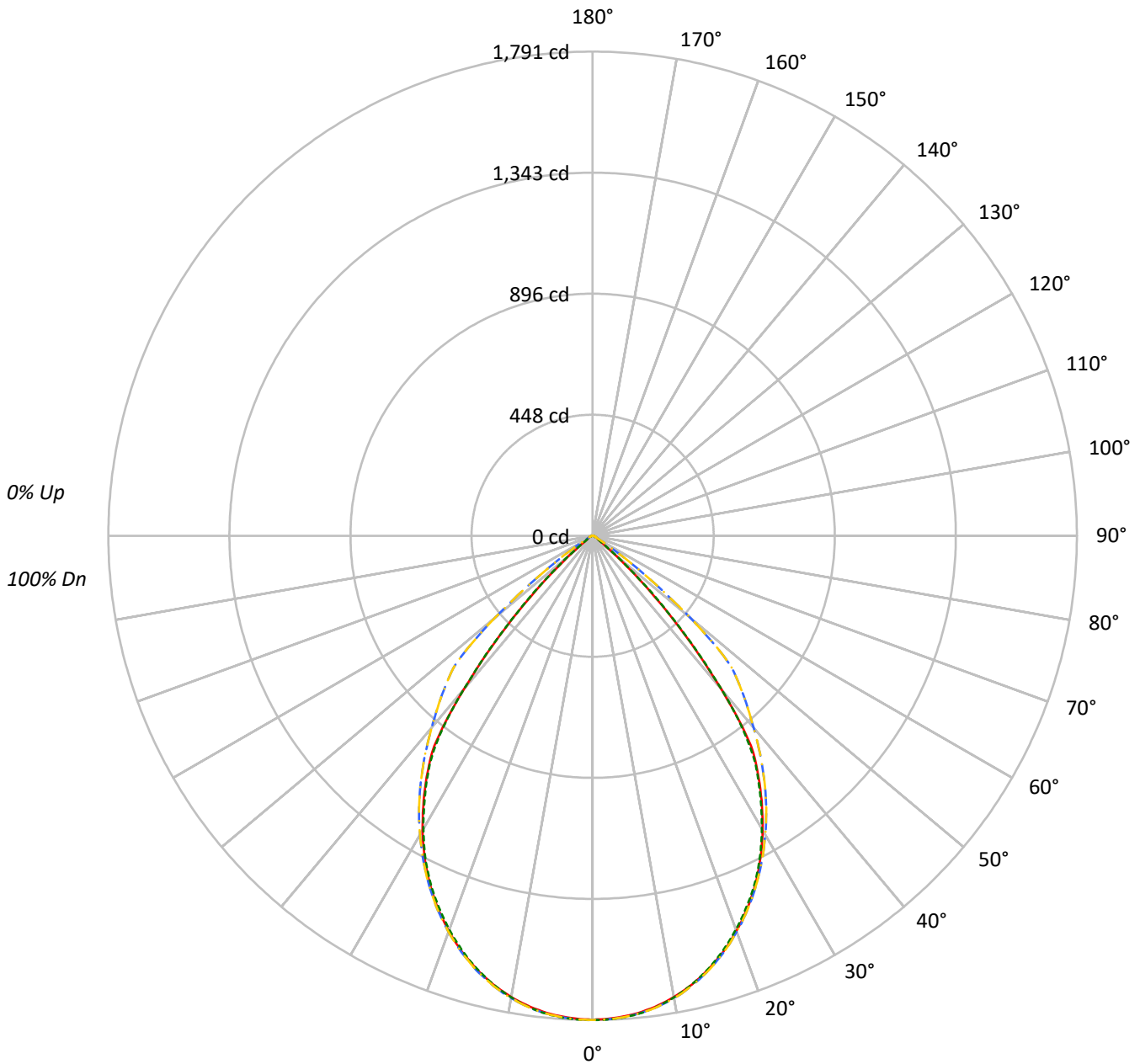
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					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	100	100	100	100		
	1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92	92	92	92	92	92		
	2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84	84	84		
	3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	83	80	78	76	76	76	76	76	76		
	4	94	85	79	74	92	84	78	73	82	77	72	80	75	72	78	74	71	69	69	69	69	69	69		
	5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63	63	63	63	63	63		
	6	83	72	66	61	81	72	65	60	70	64	60	69	63	60	67	63	59	58	58	58	58	58	58		
	7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53	53	53		
	8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48	48	48	48	48	48		
	9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45	45	45		
	10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41	41	41		

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

	0°	90°	180°	270°
0°	42943	42943	42943	42943
5°	42739	42830	42739	42830
10°	42183	42220	42183	42220
15°	41179	41129	41179	41129
20°	39692	39544	39692	39544
25°	37643	37519	37643	37519
30°	34815	34654	34815	34654
35°	31111	30950	31111	30950
40°	23104	23229	23104	23229
45°	12106	12411	12106	12411
50°	3928	4245	3928	4245
55°	1300	1196	1300	1196
60°	988	926	988	926
65°	755	726	755	726
70°	596	582	596	582
75°	491	491	491	491
80°	387	414	387	414
85°	275	275	275	275

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 25735 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.4	6.8
10°-20°	466.6	18.9
20°-30°	653.6	26.5
30°-40°	671.4	27.2
40°-50°	406.7	16.5
50°-60°	76.4	3.1
60°-70°	14.8	0.6
70°-80°	6.6	0.3
80°-90°	1.5	0.1
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°	1288.5	52.3
0°-40°	1959.9	79.5
0°-60°	2443.0	99.1
0°-90°	2465.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1791	1791	1791	1791	1791	
5°	1776	1779	1776	1779	1776	168
15°	1659	1657	1659	1657	1659	466
25°	1423	1418	1423	1418	1423	652
35°	1063	1057	1063	1057	1063	649
45°	357	366	357	366	357	285
55°	31	29	31	29	31	36
65°	13	13	13	13	13	14
75°	5	5	5	5	5	6
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1790.9	1790.9	1790.9	1790.9	1790.9	1790.9	1790.9	1790.9	1790.9	1790.9	1790.9
0.5°	1789.1	1789.9	1791.1	1791.9	1791.4	1791.9	1791.1	1789.9	1789.1	1789.9	1791.1
1°	1788.9	1789.6	1790.6	1791.4	1791.1	1791.4	1790.6	1789.6	1788.9	1789.6	1790.6
1.5°	1788.1	1788.9	1790.1	1790.9	1790.6	1790.9	1790.1	1788.9	1788.1	1788.9	1790.1
2°	1787.1	1787.9	1789.1	1790.1	1789.6	1790.1	1789.1	1787.9	1787.1	1787.9	1789.1
2.5°	1785.9	1786.6	1788.1	1788.9	1788.6	1788.9	1788.1	1786.6	1785.9	1786.6	1788.1
3°	1784.4	1785.4	1786.6	1787.6	1787.4	1787.6	1786.6	1785.4	1784.4	1785.4	1786.6
3.5°	1782.6	1783.6	1785.1	1786.1	1785.9	1786.1	1785.1	1783.6	1782.6	1783.6	1785.1
4°	1780.6	1781.6	1783.1	1784.4	1784.1	1784.4	1783.1	1781.6	1780.6	1781.6	1783.1
4.5°	1778.4	1779.1	1780.9	1782.1	1781.9	1782.1	1780.9	1779.1	1778.4	1779.1	1780.9
5°	1775.6	1776.6	1778.6	1779.9	1779.4	1779.9	1778.6	1776.6	1775.6	1776.6	1778.6
5.5°	1772.8	1773.8	1775.8	1777.1	1776.3	1777.1	1775.8	1773.8	1772.8	1773.8	1775.8
6°	1769.3	1770.6	1772.8	1774.1	1773.3	1774.1	1772.8	1770.6	1769.3	1770.6	1772.8
6.5°	1765.8	1767.3	1769.6	1770.6	1769.6	1770.6	1769.6	1767.3	1765.8	1767.3	1769.6
7°	1762.1	1763.6	1765.8	1766.6	1765.6	1766.6	1765.8	1763.6	1762.1	1763.6	1765.8
7.5°	1757.8	1759.5	1761.8	1762.3	1761.1	1762.3	1761.8	1759.5	1757.8	1759.5	1761.8
8°	1753.3	1755.3	1757.5	1757.8	1756.5	1757.8	1757.5	1755.3	1753.3	1755.3	1757.5
8.5°	1748.5	1750.5	1752.8	1752.5	1751.3	1752.5	1752.8	1750.5	1748.5	1750.5	1752.8
9°	1743.5	1745.5	1747.8	1747.3	1745.8	1747.3	1747.8	1745.5	1743.5	1745.5	1747.8
9.5°	1738.2	1740.2	1742.5	1741.5	1740.0	1741.5	1742.5	1740.2	1738.2	1740.2	1742.5
10°	1732.5	1735.0	1736.7	1735.7	1734.0	1735.7	1736.7	1735.0	1732.5	1735.0	1736.7
10.5°	1726.5	1729.0	1730.7	1729.5	1727.7	1729.5	1730.7	1729.0	1726.5	1729.0	1730.7
11°	1720.2	1722.9	1724.4	1722.9	1720.9	1722.9	1724.4	1722.9	1720.2	1722.9	1724.4
11.5°	1713.7	1716.4	1717.7	1715.9	1713.9	1715.9	1717.7	1716.4	1713.7	1716.4	1717.7
12°	1706.6	1709.7	1710.7	1708.9	1706.9	1708.9	1710.7	1709.7	1706.6	1709.7	1710.7
12.5°	1699.4	1702.6	1703.4	1701.4	1699.1	1701.4	1703.4	1702.6	1699.4	1702.6	1703.4
13°	1691.9	1695.1	1695.9	1693.6	1691.4	1693.6	1695.9	1695.1	1691.9	1695.1	1695.9
13.5°	1684.1	1687.3	1687.8	1685.6	1683.1	1685.6	1687.8	1687.3	1684.1	1687.3	1687.8
14°	1675.8	1679.6	1679.8	1677.3	1674.6	1677.3	1679.8	1679.6	1675.8	1679.6	1679.8
14.5°	1667.5	1671.0	1671.3	1668.5	1665.8	1668.5	1671.3	1671.0	1667.5	1671.0	1671.3
15°	1658.8	1662.5	1662.8	1659.5	1656.8	1659.5	1662.8	1662.5	1658.8	1662.5	1662.8
15.5°	1649.7	1653.7	1653.5	1650.2	1647.2	1650.2	1653.5	1653.7	1649.7	1653.7	1653.5
16°	1640.5	1644.5	1644.2	1640.7	1637.7	1640.7	1644.2	1644.5	1640.5	1644.5	1644.2
16.5°	1630.9	1634.9	1634.4	1630.9	1627.7	1630.9	1634.4	1634.9	1630.9	1634.9	1634.4
17°	1621.2	1625.2	1624.7	1620.6	1617.4	1620.6	1624.7	1625.2	1621.2	1625.2	1624.7
17.5°	1610.9	1615.1	1614.4	1610.4	1606.9	1610.4	1614.4	1615.1	1610.9	1615.1	1614.4
18°	1600.3	1604.6	1603.6	1599.6	1595.8	1599.6	1603.6	1604.6	1600.3	1604.6	1603.6
18.5°	1589.6	1593.8	1593.1	1588.8	1584.5	1588.8	1593.1	1593.8	1589.6	1593.8	1593.1
19°	1578.5	1583.0	1582.0	1577.5	1573.3	1577.5	1582.0	1583.0	1578.5	1583.0	1582.0
19.5°	1567.0	1571.8	1570.5	1566.0	1561.5	1566.0	1570.5	1571.8	1567.0	1571.8	1570.5
20°	1555.5	1560.2	1559.0	1554.5	1549.7	1554.5	1559.0	1560.2	1555.5	1560.2	1559.0
20.5°	1543.7	1548.4	1547.2	1542.2	1537.4	1542.2	1547.2	1548.4	1543.7	1548.4	1547.2
21°	1531.4	1536.2	1535.2	1529.9	1524.9	1529.9	1535.2	1536.2	1531.4	1536.2	1535.2



TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1493.0	1498.3	1497.0	1491.5	1486.8	1491.5	1497.0	1498.3	1493.0	1498.3	1497.0
23°	1479.7	1485.0	1484.0	1478.2	1473.5	1478.2	1484.0	1485.0	1479.7	1485.0	1484.0
23.5°	1466.0	1471.7	1470.7	1465.0	1460.4	1465.0	1470.7	1471.7	1466.0	1471.7	1470.7
24°	1452.2	1457.7	1457.2	1451.4	1446.9	1451.4	1457.2	1457.7	1452.2	1457.7	1457.2
24.5°	1437.6	1443.6	1443.4	1437.9	1432.6	1437.9	1443.4	1443.6	1437.6	1443.6	1443.4
25°	1422.8	1429.3	1429.1	1424.1	1418.1	1424.1	1429.1	1429.3	1422.8	1429.3	1429.1
25.5°	1408.0	1414.8	1414.8	1409.5	1403.5	1409.5	1414.8	1414.8	1408.0	1414.8	1414.8
26°	1392.5	1399.8	1400.3	1395.5	1388.5	1395.5	1400.3	1399.8	1392.5	1399.8	1400.3
26.5°	1376.9	1384.5	1385.5	1380.7	1372.7	1380.7	1385.5	1384.5	1376.9	1384.5	1385.5
27°	1360.7	1368.9	1370.4	1365.7	1356.4	1365.7	1370.4	1368.9	1360.7	1368.9	1370.4
27.5°	1344.6	1353.1	1355.4	1350.1	1340.1	1350.1	1355.4	1353.1	1344.6	1353.1	1355.4
28°	1327.8	1336.8	1340.1	1334.1	1322.8	1334.1	1340.1	1336.8	1327.8	1336.8	1340.1
28.5°	1310.8	1320.3	1324.3	1317.8	1305.2	1317.8	1324.3	1320.3	1310.8	1320.3	1324.3
29°	1293.0	1304.0	1308.8	1301.2	1287.7	1301.2	1308.8	1304.0	1293.0	1304.0	1308.8
29.5°	1275.2	1287.2	1293.2	1283.9	1269.6	1283.9	1293.2	1287.2	1275.2	1287.2	1293.2
30°	1257.4	1269.9	1276.9	1266.6	1251.6	1266.6	1276.9	1269.9	1257.4	1269.9	1276.9
30.5°	1239.1	1252.3	1260.9	1248.8	1233.0	1248.8	1260.9	1252.3	1239.1	1252.3	1260.9
31°	1220.0	1234.5	1244.3	1231.3	1214.5	1231.3	1244.3	1234.5	1220.0	1234.5	1244.3
31.5°	1201.4	1216.7	1228.0	1213.2	1195.4	1213.2	1228.0	1216.7	1201.4	1216.7	1228.0
32°	1182.4	1198.4	1211.5	1195.2	1176.1	1195.2	1211.5	1198.4	1182.4	1198.4	1211.5
32.5°	1163.1	1179.9	1194.7	1176.4	1156.8	1176.4	1194.7	1179.9	1163.1	1179.9	1194.7
33°	1143.5	1161.3	1177.6	1158.3	1137.5	1158.3	1177.6	1161.3	1143.5	1161.3	1177.6
33.5°	1124.0	1143.0	1160.3	1139.8	1117.7	1139.8	1160.3	1143.0	1124.0	1143.0	1160.3
34°	1103.7	1124.2	1142.8	1121.2	1097.6	1121.2	1142.8	1124.2	1103.7	1124.2	1142.8
34.5°	1083.6	1105.2	1125.2	1102.7	1077.3	1102.7	1125.2	1105.2	1083.6	1105.2	1125.2
35°	1062.8	1086.1	1107.7	1083.6	1057.3	1083.6	1107.7	1086.1	1062.8	1086.1	1107.7
35.5°	1042.7	1067.3	1089.4	1064.8	1037.2	1064.8	1089.4	1067.3	1042.7	1067.3	1089.4
36°	1021.9	1048.0	1071.1	1045.7	1013.4	1045.7	1071.1	1048.0	1021.9	1048.0	1071.1
36.5°	999.6	1028.2	1053.3	1026.4	986.6	1026.4	1053.3	1028.2	999.6	1028.2	1053.3
37°	972.8	1008.9	1035.0	1007.1	957.0	1007.1	1035.0	1008.9	972.8	1008.9	1035.0
37.5°	937.7	989.1	1016.9	987.6	926.4	987.6	1016.9	989.1	937.7	989.1	1016.9
38°	902.3	969.5	998.1	968.3	893.8	968.3	998.1	969.5	902.3	969.5	998.1
38.5°	863.2	949.7	980.1	947.0	860.5	947.0	980.1	949.7	863.2	949.7	980.1
39°	822.6	929.2	962.0	922.1	823.1	922.1	962.0	929.2	822.6	929.2	962.0
39.5°	780.2	899.3	944.2	894.3	783.7	894.3	944.2	899.3	780.2	899.3	944.2
40°	738.1	867.2	926.2	864.0	742.1	864.0	926.2	867.2	738.1	867.2	926.2
40.5°	696.0	830.9	908.4	831.6	701.0	831.6	908.4	830.9	696.0	830.9	908.4
41°	656.1	793.3	891.1	797.0	661.4	797.0	891.1	793.3	656.1	793.3	891.1
41.5°	616.5	754.7	874.3	760.7	622.0	760.7	874.3	754.7	616.5	754.7	874.3
42°	577.9	716.1	857.5	722.6	583.9	722.6	857.5	716.1	577.9	716.1	857.5
42.5°	539.3	677.9	840.9	684.5	545.3	684.5	840.9	677.9	539.3	677.9	840.9
43°	501.2	639.3	824.4	646.1	508.0	646.1	824.4	639.3	501.2	639.3	824.4
43.5°	462.8	601.7	808.1	608.5	470.3	608.5	808.1	601.7	462.8	601.7	808.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	357.0	492.4	758.9	500.9	366.0	500.9	758.9	492.4	357.0	492.4	758.9
45.5°	323.9	456.6	742.6	465.3	334.2	465.3	742.6	456.6	323.9	456.6	742.6
46°	293.1	422.0	726.1	430.2	303.6	430.2	726.1	422.0	293.1	422.0	726.1
46.5°	262.8	388.4	709.0	396.1	272.5	396.1	709.0	388.4	262.8	388.4	709.0
47°	232.9	355.3	685.2	362.8	242.4	362.8	685.2	355.3	232.9	355.3	685.2
47.5°	204.3	323.4	656.1	331.7	215.6	331.7	656.1	323.4	204.3	323.4	656.1
48°	180.0	292.6	621.5	301.1	192.1	301.1	621.5	292.6	180.0	292.6	621.5
48.5°	157.7	263.3	584.9	271.5	170.0	271.5	584.9	263.3	157.7	263.3	584.9
49°	137.9	234.7	546.6	242.4	149.9	242.4	546.6	234.7	137.9	234.7	546.6
49.5°	120.6	207.1	507.2	216.4	131.1	216.4	507.2	207.1	120.6	207.1	507.2
50°	105.3	181.3	467.3	191.3	113.8	191.3	467.3	181.3	105.3	181.3	467.3
50.5°	91.0	158.0	428.0	168.2	97.5	168.2	428.0	158.0	91.0	158.0	428.0
51°	78.0	137.1	389.1	146.7	82.0	146.7	389.1	137.1	78.0	137.1	389.1
51.5°	67.4	118.8	352.8	127.1	68.9	127.1	352.8	118.8	67.4	118.8	352.8
52°	56.9	102.8	319.4	110.1	58.7	110.1	319.4	102.8	56.9	102.8	319.4
52.5°	47.9	88.5	286.8	94.3	51.6	94.3	286.8	88.5	47.9	88.5	286.8
53°	41.4	75.5	256.5	79.7	44.9	79.7	256.5	75.5	41.4	75.5	256.5
53.5°	35.4	64.4	226.7	66.2	37.9	66.2	226.7	64.4	35.4	64.4	226.7
54°	33.8	53.9	199.3	54.2	31.1	54.2	199.3	53.9	33.8	53.9	199.3
54.5°	32.3	45.1	173.2	44.9	29.6	44.9	173.2	45.1	32.3	45.1	173.2
55°	31.1	37.4	150.2	37.6	28.6	37.6	150.2	37.4	31.1	37.4	150.2
55.5°	29.8	31.8	129.4	32.3	27.3	32.3	129.4	31.8	29.8	31.8	129.4
56°	28.6	29.3	110.6	28.3	26.3	28.3	110.6	29.3	28.6	29.3	110.6
56.5°	27.3	28.1	93.8	26.3	25.3	26.3	93.8	28.1	27.3	28.1	93.8
57°	26.3	27.1	79.7	25.3	24.3	25.3	79.7	27.1	26.3	27.1	79.7
57.5°	25.1	26.1	67.4	24.3	23.3	24.3	67.4	26.1	25.1	26.1	67.4
58°	24.1	25.1	57.4	23.6	22.6	23.6	57.4	25.1	24.1	25.1	57.4
58.5°	23.1	24.1	48.4	22.6	21.6	22.6	48.4	24.1	23.1	24.1	48.4
59°	22.3	23.3	41.1	21.8	20.8	21.8	41.1	23.3	22.3	23.3	41.1
59.5°	21.3	22.6	34.8	21.1	20.1	21.1	34.8	22.6	21.3	22.6	34.8
60°	20.6	21.6	29.3	20.3	19.3	20.3	29.3	21.6	20.6	21.6	29.3
60.5°	19.6	20.8	26.1	19.6	18.3	19.6	26.1	20.8	19.6	20.8	26.1
61°	18.8	20.1	23.6	19.1	17.8	19.1	23.6	20.1	18.8	20.1	23.6
61.5°	18.1	19.3	21.6	18.3	17.0	18.3	21.6	19.3	18.1	19.3	21.6
62°	17.3	18.8	20.3	17.6	16.3	17.6	20.3	18.8	17.3	18.8	20.3
62.5°	16.5	18.1	19.3	17.0	15.8	17.0	19.3	18.1	16.5	18.1	19.3
63°	15.8	17.3	18.6	16.5	15.0	16.5	18.6	17.3	15.8	17.3	18.6
63.5°	15.3	16.8	17.8	15.8	14.5	15.8	17.8	16.8	15.3	16.8	17.8
64°	14.5	16.0	17.3	15.3	13.8	15.3	17.3	16.0	14.5	16.0	17.3
64.5°	14.0	15.5	16.5	14.8	13.3	14.8	16.5	15.5	14.0	15.5	16.5
65°	13.3	15.0	16.0	14.3	12.8	14.3	16.0	15.0	13.3	15.0	16.0
65.5°	12.8	14.3	15.3	13.8	12.3	13.8	15.3	14.3	12.8	14.3	15.3
66°	12.3	13.8	14.8	13.3	11.8	13.3	14.8	13.8	12.3	13.8	14.8





TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.8	12.3	13.3	11.8	10.3	11.8	13.3	12.3	10.8	12.3	13.3
68°	10.3	11.8	12.8	11.3	10.0	11.3	12.8	11.8	10.3	11.8	12.8
68.5°	9.8	11.3	12.3	11.0	9.5	11.0	12.3	11.3	9.8	11.3	12.3
69°	9.5	10.8	11.8	10.5	9.0	10.5	11.8	10.8	9.5	10.8	11.8
69.5°	9.0	10.5	11.3	10.0	8.8	10.0	11.3	10.5	9.0	10.5	11.3
70°	8.5	10.0	10.8	9.8	8.3	9.8	10.8	10.0	8.5	10.0	10.8
70.5°	8.3	9.5	10.5	9.3	8.0	9.3	10.5	9.5	8.3	9.5	10.5
71°	7.8	9.3	10.0	9.0	7.8	9.0	10.0	9.3	7.8	9.3	10.0
71.5°	7.5	8.8	9.5	8.5	7.3	8.5	9.5	8.8	7.5	8.8	9.5
72°	7.0	8.5	9.3	8.3	7.0	8.3	9.3	8.5	7.0	8.5	9.3
72.5°	6.8	8.0	8.8	7.8	6.8	7.8	8.8	8.0	6.8	8.0	8.8
73°	6.5	7.8	8.3	7.5	6.3	7.5	8.3	7.8	6.5	7.8	8.3
73.5°	6.0	7.3	8.0	7.3	6.0	7.3	8.0	7.3	6.0	7.3	8.0
74°	5.8	7.0	7.5	6.8	5.8	6.8	7.5	7.0	5.8	7.0	7.5
74.5°	5.5	6.8	7.3	6.5	5.5	6.5	7.3	6.8	5.5	6.8	7.3
75°	5.3	6.3	6.8	6.3	5.3	6.3	6.8	6.3	5.3	6.3	6.8
75.5°	5.0	6.0	6.5	6.0	5.0	6.0	6.5	6.0	5.0	6.0	6.5
76°	4.8	5.8	6.3	5.5	4.8	5.5	6.3	5.8	4.8	5.8	6.3
76.5°	4.5	5.3	5.8	5.3	4.5	5.3	5.8	5.3	4.5	5.3	5.8
77°	4.0	5.0	5.5	5.0	4.3	5.0	5.5	5.0	4.0	5.0	5.5
77.5°	3.8	4.8	5.3	4.8	4.0	4.8	5.3	4.8	3.8	4.8	5.3
78°	3.8	4.5	4.8	4.5	3.8	4.5	4.8	4.5	3.8	4.5	4.8
78.5°	3.5	4.3	4.5	4.3	3.5	4.3	4.5	4.3	3.5	4.3	4.5
79°	3.3	4.0	4.3	4.0	3.3	4.0	4.3	4.0	3.3	4.0	4.3
79.5°	3.0	3.5	4.0	3.8	3.0	3.8	4.0	3.5	3.0	3.5	4.0
80°	2.8	3.3	3.8	3.5	3.0	3.5	3.8	3.3	2.8	3.3	3.8
80.5°	2.5	3.0	3.5	3.3	2.8	3.3	3.5	3.0	2.5	3.0	3.5
81°	2.3	2.8	3.3	3.0	2.5	3.0	3.3	2.8	2.3	2.8	3.3
81.5°	2.3	2.5	3.0	2.8	2.3	2.8	3.0	2.5	2.3	2.5	3.0
82°	2.0	2.3	2.8	2.5	2.3	2.5	2.8	2.3	2.0	2.3	2.8
82.5°	1.8	2.0	2.5	2.3	2.0	2.3	2.5	2.0	1.8	2.0	2.5
83°	1.5	2.0	2.3	2.0	1.8	2.0	2.3	2.0	1.5	2.0	2.3
83.5°	1.5	1.8	2.0	2.0	1.5	2.0	2.0	1.8	1.5	1.8	2.0
84°	1.3	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.3	1.5	1.8
84.5°	1.0	1.3	1.5	1.5	1.3	1.5	1.5	1.3	1.0	1.3	1.5
85°	1.0	1.0	1.3	1.3	1.0	1.3	1.3	1.0	1.0	1.0	1.3
85.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.0
86°	0.5	0.8	1.0	1.0	0.8	1.0	1.0	0.8	0.5	0.8	1.0
86.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
87°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
87.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
88°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
88.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3



TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQH-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1790.9	1790.9	1790.9	1790.9	1790.9	1790.9
0.5°	1791.9	1791.4	1791.9	1791.1	1789.9	1789.1
1°	1791.4	1791.1	1791.4	1790.6	1789.6	1788.9
1.5°	1790.9	1790.6	1790.9	1790.1	1788.9	1788.1
2°	1790.1	1789.6	1790.1	1789.1	1787.9	1787.1
2.5°	1788.9	1788.6	1788.9	1788.1	1786.6	1785.9
3°	1787.6	1787.4	1787.6	1786.6	1785.4	1784.4
3.5°	1786.1	1785.9	1786.1	1785.1	1783.6	1782.6
4°	1784.4	1784.1	1784.4	1783.1	1781.6	1780.6
4.5°	1782.1	1781.9	1782.1	1780.9	1779.1	1778.4
5°	1779.9	1779.4	1779.9	1778.6	1776.6	1775.6
5.5°	1777.1	1776.3	1777.1	1775.8	1773.8	1772.8
6°	1774.1	1773.3	1774.1	1772.8	1770.6	1769.3
6.5°	1770.6	1769.6	1770.6	1769.6	1767.3	1765.8
7°	1766.6	1765.6	1766.6	1765.8	1763.6	1762.1
7.5°	1762.3	1761.1	1762.3	1761.8	1759.5	1757.8
8°	1757.8	1756.5	1757.8	1757.5	1755.3	1753.3
8.5°	1752.5	1751.3	1752.5	1752.8	1750.5	1748.5
9°	1747.3	1745.8	1747.3	1747.8	1745.5	1743.5
9.5°	1741.5	1740.0	1741.5	1742.5	1740.2	1738.2
10°	1735.7	1734.0	1735.7	1736.7	1735.0	1732.5
10.5°	1729.5	1727.7	1729.5	1730.7	1729.0	1726.5
11°	1722.9	1720.9	1722.9	1724.4	1722.9	1720.2
11.5°	1715.9	1713.9	1715.9	1717.7	1716.4	1713.7
12°	1708.9	1706.9	1708.9	1710.7	1709.7	1706.6
12.5°	1701.4	1699.1	1701.4	1703.4	1702.6	1699.4
13°	1693.6	1691.4	1693.6	1695.9	1695.1	1691.9
13.5°	1685.6	1683.1	1685.6	1687.8	1687.3	1684.1
14°	1677.3	1674.6	1677.3	1679.8	1679.6	1675.8
14.5°	1668.5	1665.8	1668.5	1671.3	1671.0	1667.5
15°	1659.5	1656.8	1659.5	1662.8	1662.5	1658.8
15.5°	1650.2	1647.2	1650.2	1653.5	1653.7	1649.7
16°	1640.7	1637.7	1640.7	1644.2	1644.5	1640.5
16.5°	1630.9	1627.7	1630.9	1634.4	1634.9	1630.9
17°	1620.6	1617.4	1620.6	1624.7	1625.2	1621.2
17.5°	1610.4	1606.9	1610.4	1614.4	1615.1	1610.9
18°	1599.6	1595.8	1599.6	1603.6	1604.6	1600.3
18.5°	1588.8	1584.5	1588.8	1593.1	1593.8	1589.6
19°	1577.5	1573.3	1577.5	1582.0	1583.0	1578.5
19.5°	1566.0	1561.5	1566.0	1570.5	1571.8	1567.0
20°	1554.5	1549.7	1554.5	1559.0	1560.2	1555.5
20.5°	1542.2	1537.4	1542.2	1547.2	1548.4	1543.7
21°	1529.9	1524.9	1529.9	1535.2	1536.2	1531.4



TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1491.5	1486.8	1491.5	1497.0	1498.3	1493.0
23°	1478.2	1473.5	1478.2	1484.0	1485.0	1479.7
23.5°	1465.0	1460.4	1465.0	1470.7	1471.7	1466.0
24°	1451.4	1446.9	1451.4	1457.2	1457.7	1452.2
24.5°	1437.9	1432.6	1437.9	1443.4	1443.6	1437.6
25°	1424.1	1418.1	1424.1	1429.1	1429.3	1422.8
25.5°	1409.5	1403.5	1409.5	1414.8	1414.8	1408.0
26°	1395.5	1388.5	1395.5	1400.3	1399.8	1392.5
26.5°	1380.7	1372.7	1380.7	1385.5	1384.5	1376.9
27°	1365.7	1356.4	1365.7	1370.4	1368.9	1360.7
27.5°	1350.1	1340.1	1350.1	1355.4	1353.1	1344.6
28°	1334.1	1322.8	1334.1	1340.1	1336.8	1327.8
28.5°	1317.8	1305.2	1317.8	1324.3	1320.3	1310.8
29°	1301.2	1287.7	1301.2	1308.8	1304.0	1293.0
29.5°	1283.9	1269.6	1283.9	1293.2	1287.2	1275.2
30°	1266.6	1251.6	1266.6	1276.9	1269.9	1257.4
30.5°	1248.8	1233.0	1248.8	1260.9	1252.3	1239.1
31°	1231.3	1214.5	1231.3	1244.3	1234.5	1220.0
31.5°	1213.2	1195.4	1213.2	1228.0	1216.7	1201.4
32°	1195.2	1176.1	1195.2	1211.5	1198.4	1182.4
32.5°	1176.4	1156.8	1176.4	1194.7	1179.9	1163.1
33°	1158.3	1137.5	1158.3	1177.6	1161.3	1143.5
33.5°	1139.8	1117.7	1139.8	1160.3	1143.0	1124.0
34°	1121.2	1097.6	1121.2	1142.8	1124.2	1103.7
34.5°	1102.7	1077.3	1102.7	1125.2	1105.2	1083.6
35°	1083.6	1057.3	1083.6	1107.7	1086.1	1062.8
35.5°	1064.8	1037.2	1064.8	1089.4	1067.3	1042.7
36°	1045.7	1013.4	1045.7	1071.1	1048.0	1021.9
36.5°	1026.4	986.6	1026.4	1053.3	1028.2	999.6
37°	1007.1	957.0	1007.1	1035.0	1008.9	972.8
37.5°	987.6	926.4	987.6	1016.9	989.1	937.7
38°	968.3	893.8	968.3	998.1	969.5	902.3
38.5°	947.0	860.5	947.0	980.1	949.7	863.2
39°	922.1	823.1	922.1	962.0	929.2	822.6
39.5°	894.3	783.7	894.3	944.2	899.3	780.2
40°	864.0	742.1	864.0	926.2	867.2	738.1
40.5°	831.6	701.0	831.6	908.4	830.9	696.0
41°	797.0	661.4	797.0	891.1	793.3	656.1
41.5°	760.7	622.0	760.7	874.3	754.7	616.5
42°	722.6	583.9	722.6	857.5	716.1	577.9
42.5°	684.5	545.3	684.5	840.9	677.9	539.3
43°	646.1	508.0	646.1	824.4	639.3	501.2
43.5°	608.5	470.3	608.5	808.1	601.7	462.8



TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	500.9	366.0	500.9	758.9	492.4	357.0
45.5°	465.3	334.2	465.3	742.6	456.6	323.9
46°	430.2	303.6	430.2	726.1	422.0	293.1
46.5°	396.1	272.5	396.1	709.0	388.4	262.8
47°	362.8	242.4	362.8	685.2	355.3	232.9
47.5°	331.7	215.6	331.7	656.1	323.4	204.3
48°	301.1	192.1	301.1	621.5	292.6	180.0
48.5°	271.5	170.0	271.5	584.9	263.3	157.7
49°	242.4	149.9	242.4	546.6	234.7	137.9
49.5°	216.4	131.1	216.4	507.2	207.1	120.6
50°	191.3	113.8	191.3	467.3	181.3	105.3
50.5°	168.2	97.5	168.2	428.0	158.0	91.0
51°	146.7	82.0	146.7	389.1	137.1	78.0
51.5°	127.1	68.9	127.1	352.8	118.8	67.4
52°	110.1	58.7	110.1	319.4	102.8	56.9
52.5°	94.3	51.6	94.3	286.8	88.5	47.9
53°	79.7	44.9	79.7	256.5	75.5	41.4
53.5°	66.2	37.9	66.2	226.7	64.4	35.4
54°	54.2	31.1	54.2	199.3	53.9	33.8
54.5°	44.9	29.6	44.9	173.2	45.1	32.3
55°	37.6	28.6	37.6	150.2	37.4	31.1
55.5°	32.3	27.3	32.3	129.4	31.8	29.8
56°	28.3	26.3	28.3	110.6	29.3	28.6
56.5°	26.3	25.3	26.3	93.8	28.1	27.3
57°	25.3	24.3	25.3	79.7	27.1	26.3
57.5°	24.3	23.3	24.3	67.4	26.1	25.1
58°	23.6	22.6	23.6	57.4	25.1	24.1
58.5°	22.6	21.6	22.6	48.4	24.1	23.1
59°	21.8	20.8	21.8	41.1	23.3	22.3
59.5°	21.1	20.1	21.1	34.8	22.6	21.3
60°	20.3	19.3	20.3	29.3	21.6	20.6
60.5°	19.6	18.3	19.6	26.1	20.8	19.6
61°	19.1	17.8	19.1	23.6	20.1	18.8
61.5°	18.3	17.0	18.3	21.6	19.3	18.1
62°	17.6	16.3	17.6	20.3	18.8	17.3
62.5°	17.0	15.8	17.0	19.3	18.1	16.5
63°	16.5	15.0	16.5	18.6	17.3	15.8
63.5°	15.8	14.5	15.8	17.8	16.8	15.3
64°	15.3	13.8	15.3	17.3	16.0	14.5
64.5°	14.8	13.3	14.8	16.5	15.5	14.0
65°	14.3	12.8	14.3	16.0	15.0	13.3
65.5°	13.8	12.3	13.8	15.3	14.3	12.8
66°	13.3	11.8	13.3	14.8	13.8	12.3



TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	11.8	10.3	11.8	13.3	12.3	10.8
68°	11.3	10.0	11.3	12.8	11.8	10.3
68.5°	11.0	9.5	11.0	12.3	11.3	9.8
69°	10.5	9.0	10.5	11.8	10.8	9.5
69.5°	10.0	8.8	10.0	11.3	10.5	9.0
70°	9.8	8.3	9.8	10.8	10.0	8.5
70.5°	9.3	8.0	9.3	10.5	9.5	8.3
71°	9.0	7.8	9.0	10.0	9.3	7.8
71.5°	8.5	7.3	8.5	9.5	8.8	7.5
72°	8.3	7.0	8.3	9.3	8.5	7.0
72.5°	7.8	6.8	7.8	8.8	8.0	6.8
73°	7.5	6.3	7.5	8.3	7.8	6.5
73.5°	7.3	6.0	7.3	8.0	7.3	6.0
74°	6.8	5.8	6.8	7.5	7.0	5.8
74.5°	6.5	5.5	6.5	7.3	6.8	5.5
75°	6.3	5.3	6.3	6.8	6.3	5.3
75.5°	6.0	5.0	6.0	6.5	6.0	5.0
76°	5.5	4.8	5.5	6.3	5.8	4.8
76.5°	5.3	4.5	5.3	5.8	5.3	4.5
77°	5.0	4.3	5.0	5.5	5.0	4.0
77.5°	4.8	4.0	4.8	5.3	4.8	3.8
78°	4.5	3.8	4.5	4.8	4.5	3.8
78.5°	4.3	3.5	4.3	4.5	4.3	3.5
79°	4.0	3.3	4.0	4.3	4.0	3.3
79.5°	3.8	3.0	3.8	4.0	3.5	3.0
80°	3.5	3.0	3.5	3.8	3.3	2.8
80.5°	3.3	2.8	3.3	3.5	3.0	2.5
81°	3.0	2.5	3.0	3.3	2.8	2.3
81.5°	2.8	2.3	2.8	3.0	2.5	2.3
82°	2.5	2.3	2.5	2.8	2.3	2.0
82.5°	2.3	2.0	2.3	2.5	2.0	1.8
83°	2.0	1.8	2.0	2.3	2.0	1.5
83.5°	2.0	1.5	2.0	2.0	1.8	1.5
84°	1.8	1.5	1.8	1.8	1.5	1.3
84.5°	1.5	1.3	1.5	1.5	1.3	1.0
85°	1.3	1.0	1.3	1.3	1.0	1.0
85.5°	1.0	1.0	1.0	1.0	0.8	0.8
86°	1.0	0.8	1.0	1.0	0.8	0.5
86.5°	0.8	0.8	0.8	0.8	0.5	0.5
87°	0.5	0.5	0.5	0.5	0.5	0.3
87.5°	0.5	0.5	0.5	0.5	0.3	0.3
88°	0.3	0.3	0.3	0.3	0.3	0.3
88.5°	0.3	0.3	0.3	0.3	0.0	0.0



TEST NUMBER: P776207

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQH-2500lm-3500K

**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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Scaled Data Report





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

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Scaled Data Report





21.5°	1519.1	1523.9	1522.6	1517.4	1512.6	1517.4	1522.6	1523.9	1519.1	1523.9	1522.6
22°	1505.8	1511.3	1509.8	1504.6	1499.6	1504.6	1509.8	1511.3	1505.8	1511.3	1509.8



44°	426.0	565.1	791.5	572.4	433.7	572.4	791.5	565.1	426.0	565.1	791.5
44.5°	391.4	529.3	775.5	536.5	397.9	536.5	775.5	529.3	391.4	529.3	775.5



66.5°	11.8	13.3	14.3	12.8	11.3	12.8	14.3	13.3	11.8	13.3	14.3
67°	11.3	12.8	13.8	12.3	10.8	12.3	13.8	12.8	11.3	12.8	13.8



89°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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21.5°	1517.4	1512.6	1517.4	1522.6	1523.9	1519.1
22°	1504.6	1499.6	1504.6	1509.8	1511.3	1505.8



44°	572.4	433.7	572.4	791.5	565.1	426.0
44.5°	536.5	397.9	536.5	775.5	529.3	391.4



66.5°	12.8	11.3	12.8	14.3	13.3	11.8
67°	12.3	10.8	12.3	13.8	12.8	11.3

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89°	0.0	0.3	0.0	0.0	0.0	0.0
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)