

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: P775929

Luminaire Tested: HCDJBS1525CSD-HCD41TRC-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B028)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD41TRC-2500lm-5000K  
Description: 4 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

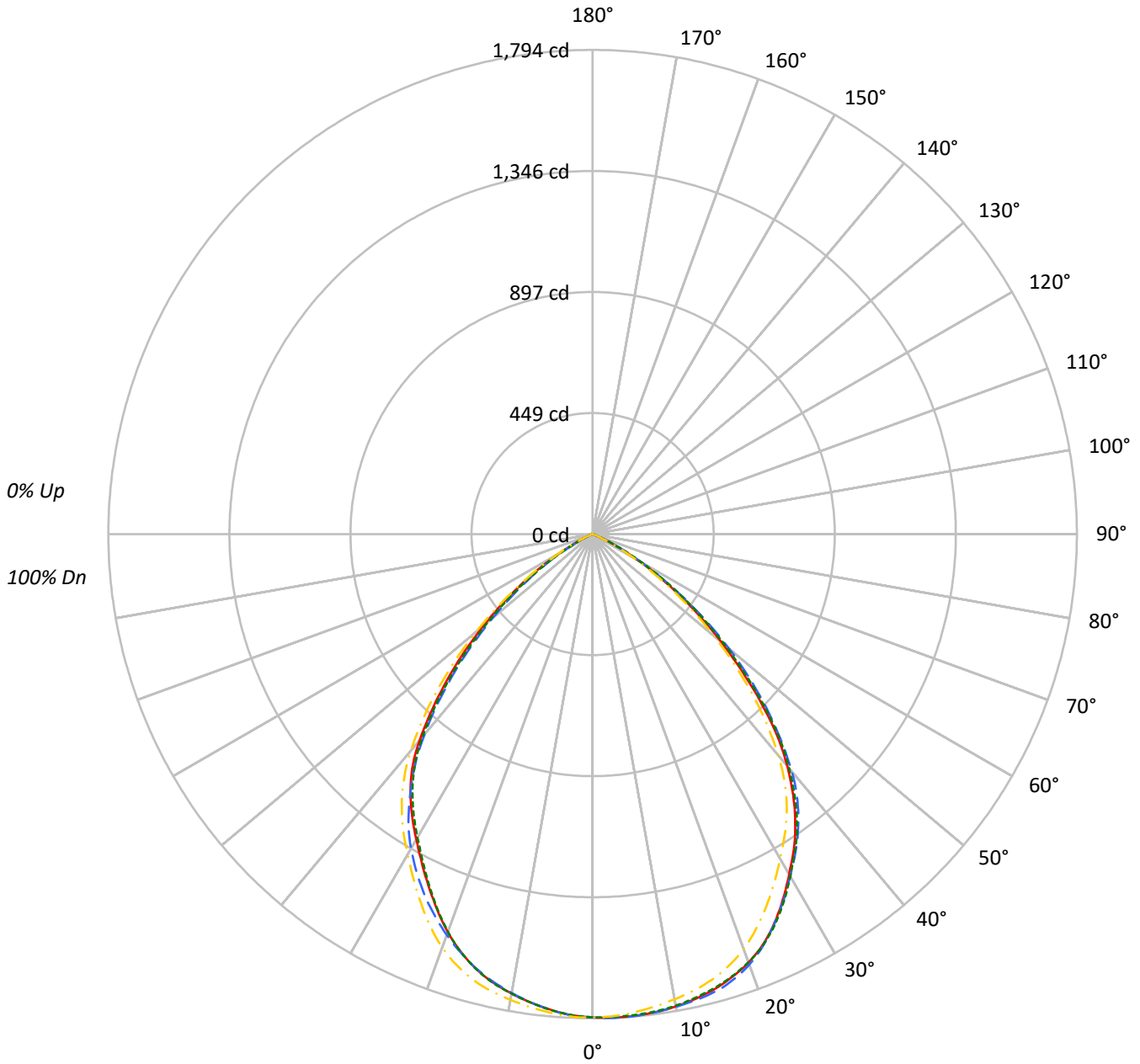
Lumens per Lamp: N/A  
Luminaire Lumens: 3122.9 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



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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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91	91	91	91	91	91		
	2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81	81	81	81	81	81		
	3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72	72	72		
	4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64	64	64		
	5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58	58	58		
	6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52	52	52		
	7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47	47	47		
	8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43	43	43	43	43	43		
	9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39	39	39	39	39		
	10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36	36	36	36	36	36		

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

	0°	90°	180°	270°
0°	225397	225397	225397	225397
5°	226359	225967	223618	223643
10°	227123	226727	220887	220989
15°	227394	226886	217296	217401
20°	226202	226135	210158	209957
25°	220982	221773	199764	199111
30°	211526	212834	189845	188609
35°	201015	202644	180751	178692
40°	184246	186201	163595	161180
45°	156959	159682	135317	131740
50°	121819	125049	103063	98618
55°	85483	88928	69005	64244
60°	49258	52630	35615	31462
65°	17152	19445	9678	7683
70°	552	1251	552	478
75°	486	632	486	486
80°	362	580	362	362
85°	0	433	0	433

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 161836 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.0	5.4
10°-20°	480.7	15.4
20°-30°	697.5	22.3
30°-40°	773.5	24.8
40°-50°	628.1	20.1
50°-60°	315.3	10.1
60°-70°	57.3	1.8
70°-80°	1.2	0.0
80°-90°	0.3	0.0
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°	1347.2	43.1
0°-40°	2120.7	67.9
0°-60°	3064.1	98.1
0°-90°	3122.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1791	1791	1791	1791	1791	
5°	1792	1789	1770	1770	1792	171
15°	1745	1741	1668	1669	1745	492
25°	1591	1597	1439	1434	1591	730
35°	1308	1319	1176	1163	1308	813
45°	882	897	760	740	882	675
55°	390	405	314	293	390	351
65°	58	65	32	26	58	68
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	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°	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0
0.5°	1791.8	1791.8	1792.0	1792.5	1790.5	1791.0	1791.2	1791.2	1789.9	1789.7	1790.2
1°	1792.5	1792.5	1792.8	1793.0	1791.0	1790.7	1790.7	1790.7	1788.9	1788.4	1789.2
1.5°	1793.0	1793.0	1793.6	1793.6	1791.2	1790.5	1789.9	1789.2	1787.6	1787.1	1787.9
2°	1793.3	1793.6	1793.8	1793.8	1791.0	1789.9	1788.9	1787.4	1786.1	1785.3	1786.1
2.5°	1793.3	1794.1	1794.3	1793.8	1790.5	1788.7	1786.6	1783.8	1781.9	1781.2	1782.2
3°	1793.3	1794.1	1794.3	1793.6	1790.5	1787.6	1784.8	1781.4	1779.1	1778.3	1779.6
3.5°	1792.8	1793.8	1794.1	1793.6	1789.7	1786.9	1783.0	1779.1	1776.3	1775.7	1776.8
4°	1792.3	1793.6	1793.8	1793.0	1789.2	1785.6	1781.2	1776.5	1773.2	1772.4	1773.4
4.5°	1791.8	1792.8	1793.0	1792.5	1788.7	1784.5	1778.8	1773.4	1770.1	1769.0	1770.1
5°	1790.7	1792.3	1792.3	1791.5	1787.9	1783.0	1776.5	1770.3	1766.2	1765.4	1766.5
5.5°	1789.7	1791.2	1791.2	1790.7	1787.1	1781.4	1773.9	1767.0	1762.6	1761.8	1762.6
6°	1788.9	1790.2	1789.9	1789.4	1786.1	1779.9	1771.4	1763.6	1759.0	1757.9	1758.7
6.5°	1787.6	1788.9	1788.9	1788.1	1785.0	1777.8	1768.5	1760.0	1754.8	1753.8	1754.6
7°	1786.6	1787.4	1787.4	1786.9	1783.5	1776.0	1765.7	1756.4	1750.7	1749.7	1749.9
7.5°	1785.0	1785.6	1785.8	1785.3	1782.2	1773.9	1762.8	1752.8	1746.6	1745.3	1745.8
8°	1783.2	1783.8	1784.0	1783.5	1780.7	1771.6	1760.0	1749.2	1742.2	1740.9	1740.9
8.5°	1781.4	1781.9	1782.2	1781.4	1778.6	1769.3	1756.9	1745.0	1738.1	1736.5	1736.2
9°	1779.4	1779.6	1780.4	1779.1	1776.5	1767.0	1753.5	1741.2	1733.4	1731.9	1731.6
9.5°	1777.3	1777.3	1778.6	1776.8	1774.2	1764.1	1750.4	1737.0	1728.5	1727.5	1726.7
10°	1774.7	1775.0	1776.8	1774.7	1771.9	1761.0	1746.8	1732.9	1723.9	1723.1	1721.8
10.5°	1772.1	1772.4	1775.0	1772.1	1769.0	1757.7	1743.2	1728.5	1718.7	1718.2	1716.4
11°	1769.3	1769.6	1772.7	1769.3	1765.9	1754.1	1739.6	1724.1	1713.5	1713.3	1710.9
11.5°	1766.7	1767.0	1770.8	1766.5	1762.8	1750.7	1735.7	1719.7	1707.8	1708.1	1705.5
12°	1763.6	1764.1	1768.5	1763.1	1759.7	1746.8	1731.9	1715.1	1702.2	1702.9	1699.8
12.5°	1760.5	1761.3	1766.5	1759.7	1756.4	1743.0	1728.0	1710.4	1696.2	1697.3	1693.6
13°	1756.9	1757.9	1763.9	1756.1	1752.8	1738.6	1723.6	1705.5	1689.8	1691.6	1687.2
13.5°	1753.3	1754.3	1761.3	1752.5	1749.2	1734.4	1719.0	1700.1	1683.1	1685.6	1680.2
14°	1749.7	1750.4	1758.2	1748.6	1745.3	1729.8	1714.0	1694.2	1675.8	1678.9	1673.3
14.5°	1745.3	1746.6	1755.1	1744.3	1741.4	1724.9	1708.9	1688.2	1667.8	1672.2	1666.0
15°	1740.9	1741.9	1751.2	1739.6	1737.3	1720.0	1703.5	1681.5	1659.6	1665.0	1658.3
15.5°	1736.2	1736.8	1747.3	1734.4	1732.6	1714.6	1697.5	1674.8	1651.0	1657.0	1650.0
16°	1731.1	1731.3	1742.4	1729.0	1728.0	1708.6	1691.1	1667.3	1642.0	1649.0	1642.3
16.5°	1725.7	1725.7	1737.3	1723.1	1723.1	1702.7	1684.1	1659.8	1632.5	1640.7	1634.3
17°	1720.0	1719.7	1731.6	1717.1	1717.9	1696.0	1676.9	1651.6	1622.9	1631.7	1625.7
17.5°	1714.6	1713.5	1725.7	1710.7	1712.5	1689.5	1669.9	1642.5	1613.1	1622.4	1617.2
18°	1708.6	1707.1	1719.2	1704.0	1706.8	1682.3	1661.9	1633.8	1602.8	1612.1	1608.2
18.5°	1702.7	1700.4	1712.2	1697.3	1701.1	1675.3	1653.6	1624.2	1591.9	1602.0	1599.2
19°	1696.2	1693.4	1705.0	1690.3	1694.9	1667.8	1644.9	1614.1	1580.8	1591.4	1589.9
19.5°	1689.0	1685.9	1697.5	1682.8	1688.5	1659.8	1635.8	1603.8	1569.2	1580.3	1580.6
20°	1681.8	1678.2	1689.0	1674.8	1681.3	1651.6	1626.3	1592.4	1557.6	1568.2	1570.5
20.5°	1673.8	1669.9	1680.2	1666.8	1674.0	1642.8	1616.2	1580.8	1544.7	1556.0	1560.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1647.2	1642.8	1650.8	1639.7	1649.2	1613.6	1583.4	1542.9	1505.7	1517.1	1528.9
23°	1637.4	1633.0	1639.7	1630.1	1639.7	1603.3	1571.5	1530.0	1492.3	1503.4	1518.1
23.5°	1626.5	1622.9	1628.6	1620.3	1629.6	1592.4	1559.7	1516.3	1478.8	1489.7	1507.5
24°	1615.4	1612.6	1617.0	1610.3	1619.3	1581.3	1547.0	1502.6	1465.2	1476.0	1496.7
24.5°	1603.8	1602.3	1605.4	1600.2	1608.4	1569.7	1534.6	1488.7	1452.0	1461.8	1485.6
25°	1591.4	1591.7	1593.5	1590.1	1597.1	1558.6	1522.0	1474.7	1438.6	1447.9	1473.9
25.5°	1579.3	1580.8	1581.3	1579.5	1585.2	1546.7	1509.3	1460.3	1425.1	1433.7	1462.1
26°	1566.6	1570.0	1568.7	1568.9	1573.3	1534.9	1496.4	1446.8	1412.0	1419.7	1449.9
26.5°	1553.7	1559.1	1556.3	1558.4	1560.9	1522.7	1483.2	1432.9	1398.6	1405.3	1437.5
27°	1540.3	1548.0	1543.6	1547.3	1547.8	1510.1	1470.3	1418.9	1385.1	1390.8	1424.9
27.5°	1526.3	1536.7	1530.7	1535.6	1534.6	1497.2	1457.2	1405.0	1371.4	1376.9	1411.7
28°	1512.4	1524.8	1517.6	1524.0	1520.9	1484.3	1443.7	1391.1	1358.0	1362.9	1398.8
28.5°	1498.2	1512.9	1504.1	1511.9	1506.7	1471.1	1430.3	1377.1	1345.1	1349.2	1385.4
29°	1484.0	1500.5	1490.5	1499.5	1492.8	1457.7	1416.4	1363.4	1331.9	1335.8	1372.0
29.5°	1470.1	1488.4	1477.6	1487.1	1478.8	1444.5	1402.9	1350.0	1319.0	1322.1	1358.5
30°	1455.6	1476.3	1464.4	1474.2	1464.6	1431.1	1389.5	1336.6	1306.4	1308.7	1344.8
30.5°	1441.7	1463.6	1451.0	1461.3	1449.9	1417.9	1376.1	1323.2	1294.0	1295.5	1331.4
31°	1427.7	1450.7	1437.3	1448.4	1436.0	1405.0	1362.9	1310.5	1281.6	1282.6	1317.2
31.5°	1414.3	1438.1	1424.6	1435.0	1422.3	1391.6	1349.8	1298.1	1268.9	1269.5	1302.3
32°	1399.8	1425.1	1411.5	1422.0	1408.6	1378.4	1336.8	1285.5	1256.6	1256.8	1286.5
32.5°	1386.7	1412.2	1398.8	1408.6	1394.7	1365.5	1323.9	1272.6	1244.4	1243.4	1270.2
33°	1372.5	1398.3	1385.1	1395.2	1381.3	1352.3	1310.8	1259.7	1231.3	1229.7	1252.7
33.5°	1357.5	1383.8	1372.0	1380.7	1366.5	1338.9	1296.8	1246.2	1217.8	1215.2	1234.6
34°	1341.2	1367.8	1357.8	1365.2	1351.6	1324.2	1282.9	1232.8	1204.4	1201.0	1216.5
34.5°	1325.0	1351.6	1342.8	1348.7	1335.6	1309.5	1268.4	1218.9	1190.5	1186.1	1197.7
35°	1308.4	1334.3	1327.6	1331.7	1319.0	1293.5	1253.7	1204.7	1176.5	1171.1	1178.8
35.5°	1291.4	1317.0	1312.6	1314.6	1302.3	1277.7	1238.5	1190.2	1162.1	1155.3	1160.0
36°	1274.4	1299.2	1297.1	1296.3	1285.7	1261.5	1222.2	1175.5	1147.1	1139.6	1140.6
36.5°	1257.1	1281.1	1280.8	1278.2	1267.1	1243.9	1205.7	1160.0	1131.6	1122.6	1121.0
37°	1238.5	1262.2	1263.5	1259.4	1249.3	1225.8	1188.4	1143.7	1115.3	1105.5	1101.4
37.5°	1220.1	1242.9	1246.7	1240.3	1230.5	1207.2	1170.8	1127.5	1098.5	1087.7	1081.5
38°	1200.5	1222.7	1228.4	1220.7	1211.4	1188.4	1152.8	1109.4	1080.7	1067.8	1061.1
38.5°	1181.2	1202.6	1209.3	1200.5	1192.3	1169.3	1132.9	1090.0	1061.6	1046.7	1039.2
39°	1162.3	1182.7	1190.2	1180.6	1173.4	1149.4	1112.2	1070.1	1040.7	1025.0	1015.4
39.5°	1141.9	1161.5	1169.5	1159.7	1153.5	1129.3	1091.3	1049.0	1018.8	1003.0	992.2
40°	1121.5	1139.6	1147.1	1138.0	1133.4	1107.8	1069.6	1027.3	995.8	980.0	968.7
40.5°	1099.8	1116.9	1124.4	1115.3	1112.2	1085.9	1047.2	1005.3	972.8	955.8	944.7
41°	1079.2	1093.9	1101.4	1092.4	1091.3	1063.4	1024.2	982.6	949.6	931.8	920.9
41.5°	1056.7	1070.4	1077.6	1069.1	1069.4	1040.5	1001.5	959.9	925.8	908.0	896.4
42°	1034.0	1046.9	1054.1	1046.1	1047.2	1016.7	978.5	936.7	902.6	883.0	871.9
42.5°	1009.5	1022.9	1030.6	1022.9	1023.4	993.2	955.0	913.2	878.8	857.7	846.8
43°	986.0	999.1	1006.9	998.9	999.7	969.7	931.5	889.4	855.3	832.9	822.3
43.5°	960.7	974.9	982.6	975.1	974.1	944.9	907.2	866.2	831.6	808.1	797.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	881.9	901.0	909.3	902.1	897.2	870.1	833.7	794.4	760.3	733.7	722.6
45.5°	855.3	876.3	884.5	878.6	870.3	844.2	809.1	771.4	736.6	709.5	698.4
46°	828.8	851.5	859.7	853.8	843.7	817.9	784.1	747.4	712.6	684.9	673.3
46.5°	801.6	826.2	834.9	828.2	817.4	792.1	759.6	723.9	689.3	661.2	648.8
47°	775.3	800.9	809.6	802.4	791.1	766.3	734.3	699.9	665.3	637.4	624.0
47.5°	749.2	774.8	784.3	777.6	764.7	740.2	709.5	676.4	641.8	613.2	600.0
48°	723.2	749.2	759.6	752.3	739.4	714.1	684.4	652.4	618.6	589.9	575.7
48.5°	697.1	723.7	734.0	726.8	714.1	688.0	660.4	629.2	595.4	567.2	552.0
49°	672.6	698.4	709.2	701.2	688.8	663.0	635.6	605.2	571.9	543.7	528.5
49.5°	647.0	673.1	684.2	675.9	663.5	638.0	611.4	581.7	549.1	521.0	505.5
50°	622.2	647.5	658.9	650.4	638.7	612.9	587.1	557.9	526.4	498.5	482.3
50.5°	597.2	621.7	633.8	625.3	614.7	587.6	563.1	534.7	504.2	476.6	460.1
51°	573.2	596.9	608.0	599.7	590.2	563.3	539.1	511.7	481.5	454.1	438.1
51.5°	548.9	572.6	583.5	575.5	566.2	539.9	515.6	489.0	459.8	432.7	417.0
52°	525.7	548.1	558.7	551.2	542.4	515.8	492.3	466.5	438.4	411.5	395.8
52.5°	501.6	523.6	534.2	527.2	518.4	493.1	469.4	443.6	416.7	390.9	375.1
53°	478.9	499.6	509.6	503.2	495.2	469.6	446.1	421.6	395.5	369.7	355.0
53.5°	455.4	476.1	484.6	479.2	472.2	446.9	423.9	400.2	374.6	349.6	335.9
54°	433.5	452.8	460.3	455.4	449.5	424.4	402.0	378.7	354.0	329.7	316.5
54.5°	411.5	429.4	436.6	432.7	427.0	403.0	380.3	357.8	333.8	310.3	297.4
55°	389.6	407.4	413.6	410.0	405.3	381.6	359.4	336.9	314.5	291.2	279.3
55.5°	367.9	384.9	390.1	388.0	384.2	360.2	338.2	316.5	294.8	272.9	261.5
56°	347.2	363.0	367.6	366.1	362.2	339.5	317.6	296.9	276.0	254.8	245.0
56.5°	326.9	341.3	345.7	344.2	341.3	319.1	297.9	277.8	257.4	238.3	228.7
57°	306.2	320.7	324.0	323.5	320.7	299.5	278.3	258.4	240.4	221.8	212.5
57.5°	286.6	300.3	302.6	302.8	301.0	280.4	259.2	240.9	223.3	205.3	196.0
58°	267.5	279.9	281.9	283.0	281.2	261.5	241.9	223.6	206.3	188.7	179.7
58.5°	248.9	260.5	262.3	263.3	262.1	244.2	224.6	206.0	189.2	171.9	165.0
59°	230.8	241.7	242.9	244.0	244.5	227.2	207.3	188.5	172.2	157.2	150.8
59.5°	212.7	223.3	224.4	225.6	226.7	209.9	190.0	171.2	156.5	142.8	136.6
60°	195.7	205.3	206.5	207.8	209.1	192.6	173.0	155.4	141.5	128.8	123.7
60.5°	178.9	187.7	189.0	190.5	191.3	175.6	157.7	140.4	127.3	115.9	111.0
61°	162.7	171.2	172.2	173.2	173.8	160.1	142.3	126.2	113.3	103.3	99.4
61.5°	147.7	155.2	156.7	157.5	157.7	144.8	128.3	112.6	100.4	91.7	88.3
62°	132.4	139.9	141.7	142.0	142.5	130.6	114.9	99.4	88.0	80.6	77.7
62.5°	118.2	125.0	127.3	127.3	127.5	116.7	102.0	87.3	76.4	70.0	67.9
63°	105.1	111.0	113.3	113.1	113.6	103.3	89.6	76.2	65.1	60.4	58.9
63.5°	92.2	97.8	100.7	99.7	100.4	90.9	78.5	65.3	55.3	51.4	50.3
64°	80.6	86.7	88.3	87.8	88.0	79.0	67.9	55.8	46.2	43.4	43.1
64.5°	68.9	75.9	78.0	77.2	76.2	68.2	58.1	46.5	38.0	36.4	36.1
65°	57.6	64.8	67.6	66.6	65.3	58.1	49.1	38.5	32.5	31.2	31.2
65.5°	46.0	53.7	57.3	56.0	55.3	48.5	40.5	33.0	27.4	26.3	26.3
66°	34.3	42.9	47.0	45.4	46.0	40.0	34.6	27.4	21.9	21.4	21.7





TEST NUMBER: P775929

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	11.6	20.7	24.3	23.2	26.1	22.2	17.3	10.6	7.7	8.3	8.5
68°	9.6	15.2	18.1	17.6	20.1	16.3	11.4	7.7	4.9	5.7	5.7
68.5°	7.5	10.8	12.9	12.7	14.5	10.3	7.7	5.2	2.8	3.6	3.6
69°	5.4	9.0	8.8	8.8	8.5	7.0	5.2	3.4	1.8	2.3	2.3
69.5°	3.4	7.2	7.0	7.0	5.4	4.4	2.8	2.1	1.5	1.5	1.5
70°	1.5	5.4	5.2	5.2	3.4	2.3	1.8	1.5	1.5	1.5	1.5
70.5°	1.3	3.4	3.4	3.4	2.1	1.5	1.5	1.3	1.3	1.5	1.5
71°	1.3	1.5	1.8	1.8	1.5	1.5	1.3	1.3	1.3	1.3	1.5
71.5°	1.3	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3
72°	1.3	1.3	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
73°	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.0	1.3	1.3	1.3
73.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.3	1.3
74°	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.3
74.5°	1.0	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76°	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76.5°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.0
77°	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	1.0
77.5°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.8	0.8	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
79°	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
79.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
80°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
80.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
83°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.0	0.3	0.3
85°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
85.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
86°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
86.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775929  
CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-5000K

**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	0.3	0.3



TEST NUMBER: P775929

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1791.0	1791.0	1791.0	1791.0	1791.0	1791.0
0.5°	1790.7	1789.4	1790.5	1791.2	1792.0	1791.8
1°	1789.7	1788.4	1789.9	1791.2	1792.5	1792.5
1.5°	1788.4	1787.1	1789.2	1791.2	1792.5	1793.0
2°	1787.1	1785.6	1787.9	1790.5	1792.3	1793.3
2.5°	1785.3	1783.8	1786.6	1789.4	1792.0	1793.3
3°	1783.2	1781.7	1784.5	1788.1	1791.5	1793.3
3.5°	1780.9	1779.4	1782.5	1786.6	1790.7	1793.3
4°	1778.1	1776.5	1780.1	1785.0	1789.7	1792.8
4.5°	1775.0	1773.7	1777.3	1783.0	1788.7	1792.3
5°	1771.6	1770.3	1774.5	1780.7	1787.6	1791.8
5.5°	1768.0	1766.7	1771.4	1778.3	1786.3	1790.7
6°	1764.1	1763.1	1768.0	1775.7	1784.8	1789.7
6.5°	1760.3	1759.2	1764.6	1773.2	1783.0	1788.9
7°	1756.1	1755.4	1761.3	1770.6	1781.4	1787.6
7.5°	1752.0	1751.2	1757.4	1767.7	1779.4	1786.6
8°	1747.9	1747.1	1753.8	1764.9	1777.6	1785.0
8.5°	1743.5	1743.0	1749.9	1762.1	1775.2	1783.2
9°	1739.1	1738.6	1746.1	1759.0	1772.7	1781.4
9.5°	1734.7	1733.9	1741.9	1755.6	1769.8	1779.4
10°	1730.3	1729.3	1737.5	1752.3	1767.0	1777.3
10.5°	1725.7	1724.6	1733.4	1748.9	1763.9	1774.7
11°	1721.0	1719.7	1729.0	1745.5	1760.5	1772.1
11.5°	1716.1	1714.3	1724.1	1741.9	1757.2	1769.3
12°	1711.2	1709.1	1719.5	1738.3	1753.8	1766.7
12.5°	1706.0	1703.2	1714.3	1734.2	1749.9	1763.6
13°	1700.6	1697.3	1708.9	1730.3	1745.8	1760.5
13.5°	1695.2	1690.6	1703.5	1725.7	1741.7	1756.9
14°	1689.0	1683.6	1697.3	1720.8	1737.0	1753.3
14.5°	1682.5	1676.4	1690.6	1715.6	1732.1	1749.7
15°	1675.8	1668.6	1683.6	1709.7	1727.0	1745.3
15.5°	1668.3	1660.3	1676.1	1703.5	1721.0	1740.9
16°	1660.6	1651.6	1668.1	1697.0	1715.1	1736.2
16.5°	1652.3	1642.5	1659.6	1690.0	1708.4	1731.1
17°	1643.8	1633.0	1650.8	1682.5	1701.9	1725.7
17.5°	1635.0	1623.2	1641.5	1674.5	1694.9	1720.0
18°	1625.5	1612.8	1631.9	1666.5	1687.7	1714.6
18.5°	1615.7	1602.3	1622.4	1657.8	1680.2	1708.6
19°	1605.4	1591.4	1611.8	1648.7	1672.7	1702.7
19.5°	1594.5	1579.8	1601.0	1639.2	1664.7	1696.2
20°	1583.1	1567.7	1589.6	1629.1	1656.5	1689.0
20.5°	1571.3	1555.5	1578.0	1618.8	1647.4	1681.8
21°	1559.1	1542.6	1565.9	1607.7	1637.9	1673.8

TEST NUMBER: P775929

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1519.9	1503.1	1527.4	1572.3	1607.9	1647.2
23°	1506.2	1489.2	1513.7	1559.4	1597.1	1637.4
23.5°	1492.3	1475.5	1500.5	1546.5	1586.2	1626.5
24°	1478.3	1461.8	1486.8	1533.6	1574.6	1615.4
24.5°	1463.9	1447.9	1473.2	1520.2	1562.8	1603.8
25°	1449.7	1433.9	1459.5	1506.5	1550.6	1591.4
25.5°	1435.5	1420.0	1446.1	1493.3	1539.0	1579.3
26°	1420.8	1406.3	1431.9	1479.9	1526.6	1566.6
26.5°	1406.0	1392.1	1418.2	1466.5	1514.0	1553.7
27°	1391.6	1378.2	1404.2	1452.5	1501.3	1540.3
27.5°	1377.4	1364.2	1390.5	1438.8	1488.4	1526.3
28°	1363.2	1350.8	1376.3	1424.9	1475.0	1512.4
28.5°	1349.2	1337.4	1363.2	1411.2	1461.8	1498.2
29°	1335.0	1323.4	1349.8	1397.5	1448.1	1484.0
29.5°	1321.4	1310.5	1336.3	1384.4	1434.7	1470.1
30°	1308.2	1297.9	1322.9	1370.9	1421.3	1455.6
30.5°	1295.3	1285.0	1310.3	1357.8	1408.4	1441.7
31°	1282.1	1272.3	1297.6	1344.6	1395.5	1427.7
31.5°	1268.7	1259.1	1284.4	1331.9	1382.0	1414.3
32°	1255.8	1246.5	1271.5	1318.3	1368.6	1399.8
32.5°	1242.6	1233.6	1258.6	1305.3	1355.4	1386.7
33°	1228.4	1219.9	1245.2	1291.9	1342.0	1372.5
33.5°	1214.0	1206.2	1231.3	1277.5	1327.6	1357.5
34°	1199.5	1191.8	1217.3	1262.7	1312.1	1341.2
34.5°	1184.8	1177.6	1202.6	1247.8	1295.8	1325.0
35°	1169.3	1163.1	1187.9	1232.3	1279.5	1308.4
35.5°	1154.1	1148.4	1173.2	1216.8	1262.7	1291.4
36°	1137.5	1132.6	1158.2	1200.5	1245.7	1274.4
36.5°	1120.8	1116.6	1142.4	1184.5	1227.9	1257.1
37°	1102.7	1100.1	1125.7	1167.2	1209.6	1238.5
37.5°	1085.1	1083.3	1108.9	1148.9	1190.5	1220.1
38°	1066.0	1065.2	1091.3	1130.6	1171.1	1200.5
38.5°	1045.1	1045.9	1072.5	1111.7	1151.7	1181.2
39°	1023.4	1025.5	1052.3	1091.3	1131.6	1162.3
39.5°	1001.5	1003.8	1030.9	1069.6	1111.2	1141.9
40°	977.5	981.1	1008.7	1047.2	1089.8	1121.5
40.5°	953.5	957.6	986.2	1024.7	1067.8	1099.8
41°	928.9	933.6	963.3	1001.7	1044.6	1079.2
41.5°	904.7	909.0	939.5	978.8	1020.8	1056.7
42°	879.6	885.8	916.5	955.3	998.1	1034.0
42.5°	854.6	861.3	892.8	931.2	974.4	1009.5
43°	829.5	837.5	869.3	907.2	950.4	986.0
43.5°	805.3	812.2	845.3	883.0	925.1	960.7



TEST NUMBER: P775929

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	728.8	740.2	773.5	809.1	849.9	881.9
45.5°	704.8	715.7	749.7	784.6	824.4	855.3
46°	679.5	691.9	726.3	760.1	798.5	828.8
46.5°	655.0	667.9	702.0	734.5	772.2	801.6
47°	630.7	644.2	678.2	710.0	746.4	775.3
47.5°	607.2	619.6	654.0	685.2	720.6	749.2
48°	583.2	596.4	630.0	660.7	694.8	723.2
48.5°	560.0	572.6	605.7	635.6	668.7	697.1
49°	536.5	549.7	581.9	612.1	643.6	672.6
49.5°	514.8	526.7	558.2	587.4	618.3	647.0
50°	491.3	503.7	534.7	563.1	593.3	622.2
50.5°	469.1	480.7	510.7	539.1	568.0	597.2
51°	446.9	458.5	488.0	515.6	543.7	573.2
51.5°	425.2	436.6	465.0	491.8	519.7	548.9
52°	404.3	415.2	442.5	469.1	496.5	525.7
52.5°	383.1	394.0	419.8	445.9	472.7	501.6
53°	362.5	372.6	398.1	423.2	450.0	478.9
53.5°	342.3	351.9	376.4	400.2	427.5	455.4
54°	322.7	331.8	355.0	378.5	405.3	433.5
54.5°	303.1	312.1	334.3	357.3	383.9	411.5
55°	284.5	292.8	313.9	335.6	362.5	389.6
55.5°	266.2	273.4	293.5	314.5	341.8	367.9
56°	248.4	255.1	273.9	294.8	321.4	347.2
56.5°	231.6	237.0	254.8	275.2	301.8	326.9
57°	215.1	219.5	236.2	255.9	282.4	306.2
57.5°	198.5	201.9	217.6	237.0	263.1	286.6
58°	182.0	185.9	200.9	218.9	245.0	267.5
58.5°	166.8	169.6	183.6	201.6	227.7	248.9
59°	152.1	154.1	167.3	184.9	210.4	230.8
59.5°	137.9	139.4	151.6	168.8	193.9	212.7
60°	124.4	125.0	136.6	152.8	177.9	195.7
60.5°	111.8	111.5	122.4	138.6	161.9	178.9
61°	99.4	98.4	108.7	124.4	146.6	162.7
61.5°	88.0	87.5	95.8	111.3	132.4	147.7
62°	77.2	77.2	85.7	98.4	118.5	132.4
62.5°	67.1	66.9	75.4	87.8	105.1	118.2
63°	58.1	56.5	65.3	77.7	92.7	105.1
63.5°	49.6	46.0	55.0	67.6	82.4	92.2
64°	42.1	38.2	44.9	57.6	72.3	80.6
64.5°	35.4	31.8	37.2	47.5	62.2	68.9
65°	30.7	25.8	30.5	39.8	51.9	57.6
65.5°	25.8	20.9	24.5	32.5	41.8	46.0
66°	20.9	16.5	19.4	26.1	33.8	34.3



TEST NUMBER: P775929

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	8.3	7.7	8.5	11.6	15.2	11.6
68°	5.7	5.9	6.7	8.3	10.8	9.6
68.5°	3.6	4.1	4.9	6.5	8.8	7.5
69°	2.3	2.1	3.4	4.6	7.0	5.4
69.5°	1.5	1.5	1.5	3.1	5.2	3.4
70°	1.5	1.3	1.3	1.3	3.1	1.5
70.5°	1.5	1.3	1.3	1.3	1.3	1.3
71°	1.3	1.3	1.3	1.3	1.3	1.3
71.5°	1.3	1.3	1.3	1.3	1.3	1.3
72°	1.3	1.3	1.0	1.0	1.3	1.3
72.5°	1.3	1.3	1.0	1.0	1.0	1.3
73°	1.3	1.0	1.0	1.0	1.0	1.3
73.5°	1.3	1.0	1.0	1.0	1.0	1.0
74°	1.0	1.0	1.0	1.0	1.0	1.0
74.5°	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0
75.5°	1.0	1.0	0.8	0.8	0.8	1.0
76°	1.0	1.0	0.8	0.8	0.8	1.0
76.5°	1.0	0.8	0.8	0.8	0.8	0.8
77°	1.0	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8
78°	0.8	0.8	0.8	0.8	0.8	0.8
78.5°	0.8	0.8	0.8	0.8	0.8	0.8
79°	0.8	0.8	0.8	0.5	0.5	0.8
79.5°	0.8	0.8	0.5	0.5	0.5	0.5
80°	0.8	0.5	0.5	0.5	0.5	0.5
80.5°	0.5	0.5	0.5	0.5	0.5	0.5
81°	0.5	0.5	0.5	0.5	0.5	0.5
81.5°	0.5	0.5	0.5	0.5	0.5	0.5
82°	0.5	0.5	0.5	0.5	0.3	0.5
82.5°	0.5	0.5	0.5	0.3	0.3	0.3
83°	0.5	0.5	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.3	0.3
84.5°	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.0
85.5°	0.3	0.3	0.3	0.3	0.0	0.0
86°	0.3	0.3	0.3	0.3	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775929

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.3	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°	1665.2	1661.1	1670.7	1658.0	1666.3	1633.5	1605.6	1568.7	1531.8	1543.1	1550.1
22°	1656.7	1652.1	1660.9	1649.2	1658.0	1623.9	1595.0	1556.0	1518.9	1530.2	1539.8



44°	934.9	950.6	958.4	951.1	949.6	919.6	882.5	841.9	807.3	783.1	772.5
44.5°	907.2	926.1	933.8	927.1	922.5	894.6	858.2	818.4	783.8	758.0	747.7



66.5°	25.6	34.3	38.5	37.2	37.7	34.1	28.9	21.7	16.5	16.3	16.8
67°	17.6	27.1	31.0	29.7	31.8	28.1	23.0	16.3	11.4	11.4	11.9



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



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21.5°	1546.5	1530.0	1553.5	1596.1	1628.3	1665.2
22°	1533.1	1516.3	1540.5	1584.4	1618.3	1656.7



44°	778.7	788.2	821.0	858.7	900.3	934.9
44.5°	753.6	763.9	797.3	833.9	875.5	907.2

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66.5°	16.0	12.9	15.0	20.7	26.6	25.6
67°	11.4	9.8	11.4	15.7	20.4	17.6

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

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Scaled Data Report



(END OF REPORT)