

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: P775928

Luminaire Tested: HCDJBS1525CSD-HCD41TRC-2500lm-4000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775928  
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: HCDJBL51525CSD-HCD41TRC-2500lm-4000K  
Description: 4 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

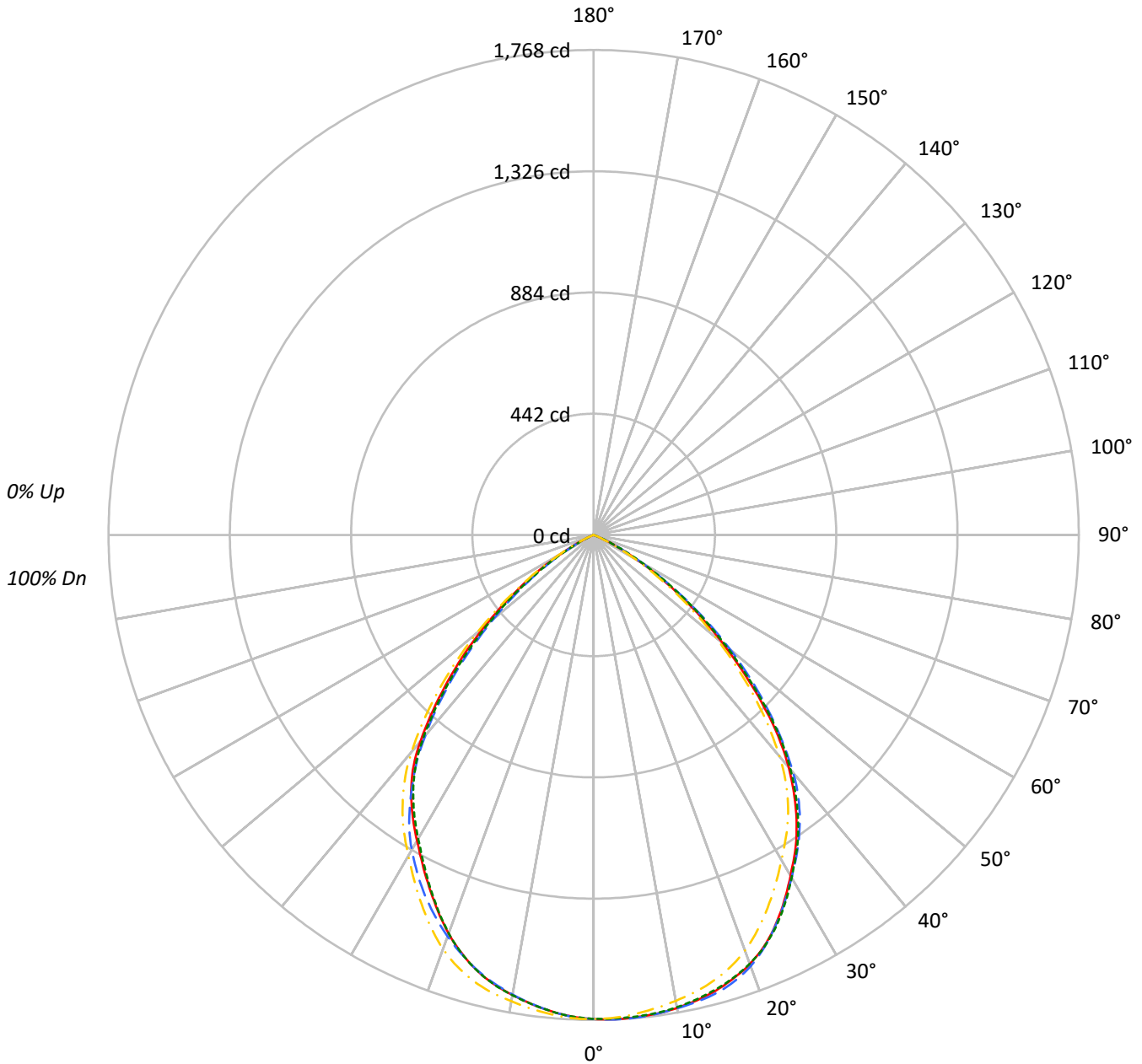
Lumens per Lamp: N/A  
Luminaire Lumens: 3077.3 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.22  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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								
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91								
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81								
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72								
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58								
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52								
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47								
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39								
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36								

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

	0°	90°	180°	270°
0°	222100	222100	222100	222100
5°	223049	222670	220346	220384
10°	223814	223417	217667	217756
15°	224072	223576	214130	214235
20°	222907	222827	207091	206890
25°	217760	218538	196848	196209
30°	208445	209739	187069	185848
35°	198096	199694	178124	176080
40°	181568	183490	161213	158831
45°	154681	157351	133341	129818
50°	120037	123229	101555	97189
55°	84232	87633	67996	63300
60°	48528	51875	35087	30984
65°	16884	19177	9559	7564
70°	552	1214	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: 159469 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.6	5.4
10°-20°	473.7	15.4
20°-30°	687.3	22.3
30°-40°	762.2	24.8
40°-50°	618.9	20.1
50°-60°	310.7	10.1
60°-70°	56.5	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°	1327.5	43.1
0°-40°	2089.7	67.9
0°-60°	3019.4	98.1
0°-90°	3077.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1765	1765	1765	1765	1765	
5°	1766	1763	1744	1744	1766	168
15°	1720	1716	1644	1644	1720	485
25°	1568	1574	1418	1413	1568	720
35°	1289	1300	1159	1146	1289	801
45°	869	884	749	729	869	665
55°	384	399	310	288	384	346
65°	57	64	32	25	57	67
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°	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8
0.5°	1765.6	1765.6	1765.9	1766.4	1764.3	1764.8	1765.1	1765.1	1763.8	1763.6	1764.1
1°	1766.4	1766.4	1766.6	1766.9	1764.8	1764.6	1764.6	1764.6	1762.8	1762.3	1763.1
1.5°	1766.9	1766.9	1767.4	1767.4	1765.1	1764.3	1763.8	1763.1	1761.5	1761.0	1761.8
2°	1767.1	1767.4	1767.6	1767.6	1764.8	1763.8	1762.8	1761.3	1760.0	1759.3	1760.0
2.5°	1767.1	1767.9	1768.2	1767.6	1764.6	1763.3	1761.8	1759.8	1758.2	1757.5	1758.2
3°	1767.1	1767.9	1768.2	1767.6	1764.3	1762.6	1760.5	1757.7	1755.9	1755.2	1756.2
3.5°	1767.1	1767.9	1768.2	1767.4	1764.3	1761.5	1758.7	1755.4	1753.1	1752.4	1753.7
4°	1766.6	1767.6	1767.9	1767.4	1763.6	1760.8	1757.0	1753.1	1750.3	1749.8	1750.9
4.5°	1766.1	1767.4	1767.6	1766.9	1763.1	1759.5	1755.2	1750.6	1747.3	1746.5	1747.5
5°	1765.6	1766.6	1766.9	1766.4	1762.6	1758.5	1752.9	1747.5	1744.2	1743.2	1744.2
5.5°	1764.6	1766.1	1766.1	1765.4	1761.8	1757.0	1750.6	1744.5	1740.4	1739.7	1740.7
6°	1763.6	1765.1	1765.1	1764.6	1761.0	1755.4	1748.1	1741.2	1736.9	1736.1	1736.9
6.5°	1762.8	1764.1	1763.8	1763.3	1760.0	1753.9	1745.5	1737.9	1733.3	1732.3	1733.0
7°	1761.5	1762.8	1762.8	1762.1	1759.0	1751.9	1742.7	1734.3	1729.2	1728.2	1729.0
7.5°	1760.5	1761.3	1761.3	1760.8	1757.5	1750.1	1739.9	1730.8	1725.2	1724.1	1724.4
8°	1759.0	1759.5	1759.8	1759.3	1756.2	1748.1	1737.1	1727.2	1721.1	1719.8	1720.3
8.5°	1757.2	1757.7	1758.0	1757.5	1754.7	1745.8	1734.3	1723.6	1716.8	1715.5	1715.5
9°	1755.4	1755.9	1756.2	1755.4	1752.6	1743.5	1731.3	1719.6	1712.7	1711.2	1710.9
9.5°	1753.4	1753.7	1754.4	1753.1	1750.6	1741.2	1728.0	1715.7	1708.1	1706.6	1706.3
10°	1751.4	1751.4	1752.6	1750.9	1748.3	1738.4	1724.9	1711.7	1703.3	1702.3	1701.5
10.5°	1748.8	1749.1	1750.9	1748.8	1746.0	1735.3	1721.3	1707.6	1698.7	1697.9	1696.7
11°	1746.3	1746.5	1749.1	1746.3	1743.2	1732.0	1717.8	1703.3	1693.6	1693.1	1691.3
11.5°	1743.5	1743.7	1746.8	1743.5	1740.2	1728.5	1714.2	1699.0	1688.5	1688.3	1686.0
12°	1740.9	1741.2	1745.0	1740.7	1737.1	1725.2	1710.4	1694.6	1682.9	1683.2	1680.6
12.5°	1737.9	1738.4	1742.7	1737.4	1734.1	1721.3	1706.6	1690.1	1677.3	1678.1	1675.0
13°	1734.8	1735.6	1740.7	1734.1	1730.8	1717.5	1702.8	1685.5	1671.5	1672.5	1668.9
13.5°	1731.3	1732.3	1738.1	1730.5	1727.2	1713.2	1698.4	1680.6	1665.1	1666.9	1662.6
14°	1727.7	1728.7	1735.6	1726.9	1723.6	1709.1	1693.9	1675.3	1658.5	1661.0	1655.7
14.5°	1724.1	1724.9	1732.5	1723.1	1719.8	1704.6	1689.0	1669.4	1651.4	1654.4	1648.8
15°	1719.8	1721.1	1729.5	1718.8	1716.0	1699.7	1683.9	1663.6	1643.5	1647.8	1641.7
15.5°	1715.5	1716.5	1725.7	1714.2	1711.9	1694.9	1678.6	1657.0	1635.4	1640.7	1634.1
16°	1710.9	1711.4	1721.9	1709.1	1707.4	1689.5	1672.8	1650.4	1627.0	1632.8	1625.9
16.5°	1705.8	1706.1	1717.0	1703.8	1702.8	1683.7	1666.4	1643.0	1618.1	1624.9	1618.3
17°	1700.5	1700.5	1711.9	1697.9	1697.9	1677.8	1659.5	1635.6	1608.6	1616.8	1610.4
17.5°	1694.9	1694.6	1706.3	1692.1	1692.9	1671.2	1652.4	1627.5	1599.2	1607.9	1602.0
18°	1689.5	1688.5	1700.5	1685.7	1687.5	1664.9	1645.5	1618.6	1589.6	1598.7	1593.6
18.5°	1683.7	1682.2	1694.1	1679.1	1681.9	1657.7	1637.6	1609.9	1579.4	1588.5	1584.7
19°	1677.8	1675.6	1687.3	1672.5	1676.3	1650.9	1629.5	1600.5	1568.7	1578.6	1575.8
19.5°	1671.5	1668.7	1680.1	1665.6	1670.2	1643.5	1620.9	1590.6	1557.8	1568.2	1566.7
20°	1664.4	1661.3	1672.8	1658.3	1663.8	1635.6	1611.9	1580.4	1546.3	1557.2	1557.5
20.5°	1657.2	1653.7	1664.4	1650.4	1656.7	1627.5	1602.5	1569.2	1534.9	1545.3	1547.6
21°	1649.3	1645.5	1655.7	1642.5	1649.6	1618.8	1592.6	1557.8	1522.1	1533.3	1537.7



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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°	1623.1	1618.8	1626.7	1615.8	1625.2	1590.1	1560.3	1520.4	1483.7	1494.9	1506.6
23°	1613.5	1609.1	1615.8	1606.4	1615.8	1579.9	1548.6	1507.6	1470.5	1481.4	1495.9
23.5°	1602.8	1599.2	1604.8	1596.7	1605.8	1569.2	1536.9	1494.2	1457.3	1468.0	1485.5
24°	1591.8	1589.1	1593.4	1586.8	1595.7	1558.3	1524.4	1480.7	1443.8	1454.5	1474.8
24.5°	1580.4	1578.9	1581.9	1576.8	1585.0	1546.8	1512.2	1466.9	1430.8	1440.5	1463.9
25°	1568.2	1568.4	1570.2	1566.9	1573.8	1535.9	1499.8	1453.2	1417.6	1426.7	1452.4
25.5°	1556.2	1557.8	1558.3	1556.5	1562.1	1524.2	1487.3	1438.9	1404.3	1412.7	1440.7
26°	1543.8	1547.1	1545.8	1546.1	1550.4	1512.5	1474.6	1425.7	1391.4	1399.0	1428.8
26.5°	1531.0	1536.4	1533.6	1535.6	1538.2	1500.5	1461.6	1412.0	1378.1	1384.8	1416.6
27°	1517.8	1525.4	1521.1	1524.7	1525.2	1488.0	1448.9	1398.2	1364.9	1370.5	1404.1
27.5°	1504.1	1514.3	1508.4	1513.2	1512.2	1475.3	1435.9	1384.5	1351.4	1356.8	1391.1
28°	1490.3	1502.6	1495.4	1501.8	1498.7	1462.6	1422.7	1370.8	1338.2	1343.0	1378.4
28.5°	1476.3	1490.8	1482.2	1489.8	1484.7	1449.6	1409.4	1357.0	1325.5	1329.6	1365.2
29°	1462.4	1478.6	1468.7	1477.6	1471.0	1436.4	1395.7	1343.5	1312.5	1316.3	1351.9
29.5°	1448.6	1466.7	1456.0	1465.4	1457.3	1423.4	1382.5	1330.3	1299.8	1302.8	1338.7
30°	1434.4	1454.7	1443.0	1452.7	1443.3	1410.2	1369.2	1317.1	1287.3	1289.6	1325.2
30.5°	1420.6	1442.3	1429.8	1440.0	1428.8	1397.2	1356.0	1303.9	1275.1	1276.6	1312.0
31°	1406.9	1429.5	1416.3	1427.2	1415.0	1384.5	1343.0	1291.4	1262.9	1263.9	1298.0
31.5°	1393.7	1417.1	1403.8	1414.0	1401.5	1371.3	1330.1	1279.2	1250.4	1250.9	1283.2
32°	1379.4	1404.3	1390.9	1401.3	1388.1	1358.3	1317.3	1266.7	1238.2	1238.5	1267.7
32.5°	1366.4	1391.6	1378.4	1388.1	1374.3	1345.6	1304.6	1254.0	1226.3	1225.2	1251.7
33°	1352.4	1377.9	1364.9	1374.8	1361.1	1332.6	1291.6	1241.3	1213.3	1211.8	1234.4
33.5°	1337.7	1363.6	1351.9	1360.6	1346.6	1319.4	1277.9	1228.0	1200.1	1197.5	1216.6
34°	1321.7	1347.9	1337.9	1345.3	1331.8	1304.9	1264.2	1214.8	1186.8	1183.5	1198.8
34.5°	1305.6	1331.8	1323.2	1329.0	1316.1	1290.4	1249.9	1201.1	1173.1	1168.8	1180.2
35°	1289.4	1314.8	1308.2	1312.3	1299.8	1274.6	1235.4	1187.1	1159.4	1154.0	1161.6
35.5°	1272.6	1297.8	1293.4	1295.5	1283.2	1259.1	1220.4	1172.8	1145.1	1138.5	1143.1
36°	1255.8	1280.2	1278.2	1277.4	1267.0	1243.1	1204.4	1158.3	1130.3	1123.0	1124.0
36.5°	1238.7	1262.4	1262.1	1259.6	1248.6	1225.8	1188.1	1143.1	1115.1	1106.2	1104.7
37°	1220.4	1243.8	1245.1	1241.0	1231.1	1207.9	1171.1	1127.0	1099.1	1089.4	1085.3
37.5°	1202.3	1224.7	1228.6	1222.2	1212.5	1189.6	1153.8	1111.0	1082.5	1071.8	1065.7
38°	1183.0	1204.9	1210.5	1202.9	1193.7	1171.1	1135.9	1093.2	1065.0	1052.2	1045.6
38.5°	1163.9	1185.0	1191.7	1183.0	1174.9	1152.2	1116.4	1074.1	1046.1	1031.4	1024.0
39°	1145.4	1165.5	1172.8	1163.4	1156.3	1132.6	1096.0	1054.5	1025.5	1010.0	1000.6
39.5°	1125.3	1144.6	1152.5	1142.8	1136.7	1112.8	1075.4	1033.7	1003.9	988.4	977.7
40°	1105.2	1123.0	1130.3	1121.4	1116.9	1091.7	1054.0	1012.3	981.3	965.7	954.5
40.5°	1083.8	1100.6	1108.0	1099.1	1096.0	1070.1	1031.9	990.7	958.6	941.8	930.9
41°	1063.4	1077.9	1085.3	1076.4	1075.4	1047.9	1009.2	968.3	935.7	918.2	907.5
41.5°	1041.3	1054.8	1061.9	1053.5	1053.8	1025.3	986.9	945.9	912.3	894.8	883.3
42°	1018.9	1031.6	1038.8	1030.9	1031.9	1001.9	964.2	923.0	889.4	870.1	859.1
42.5°	994.7	1008.0	1015.6	1008.0	1008.5	978.7	941.1	899.9	866.0	845.2	834.5
43°	971.6	984.6	992.2	984.3	985.1	955.6	917.9	876.4	842.9	820.7	810.3
43.5°	946.7	960.7	968.3	960.9	959.9	931.1	894.0	853.5	819.5	796.3	785.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	869.1	887.9	896.0	888.9	884.1	857.4	821.5	782.8	749.2	723.0	712.1
45.5°	842.9	863.5	871.6	865.8	857.6	831.9	797.3	760.2	725.8	699.1	688.2
46°	816.7	839.0	847.2	841.3	831.4	806.0	772.6	736.5	702.2	675.0	663.5
46.5°	789.9	814.1	822.8	816.2	805.5	780.5	748.5	713.4	679.3	651.5	639.3
47°	764.0	789.2	797.8	790.7	779.5	755.1	723.5	689.7	655.6	628.1	614.9
47.5°	738.3	763.5	772.9	766.3	753.6	729.4	699.1	666.6	632.5	604.2	591.3
48°	712.6	738.3	748.5	741.4	728.6	703.7	674.4	642.9	609.6	581.3	567.3
48.5°	686.9	713.1	723.3	716.2	703.7	678.0	650.8	620.0	586.7	558.9	543.9
49°	662.7	688.2	698.9	691.0	678.8	653.3	626.4	596.3	563.5	535.8	520.8
49.5°	637.6	663.2	674.2	666.0	653.8	628.6	602.4	573.2	541.1	513.4	498.1
50°	613.1	638.1	649.3	640.9	629.4	604.0	578.5	549.8	518.7	491.3	475.2
50.5°	588.5	612.6	624.6	616.2	605.8	579.0	554.9	526.9	496.9	469.6	453.4
51°	564.8	588.2	599.1	591.0	581.6	555.1	531.2	504.2	474.5	447.5	431.7
51.5°	540.9	564.3	575.0	567.1	557.9	532.0	508.1	481.9	453.1	426.4	410.9
52°	518.0	540.1	550.5	543.2	534.5	508.3	485.2	459.7	432.0	405.5	390.0
52.5°	494.3	515.9	526.4	519.5	510.9	485.9	462.5	437.1	410.6	385.2	369.7
53°	471.9	492.3	502.2	495.8	488.0	462.8	439.6	415.5	389.8	364.3	349.8
53.5°	448.8	469.1	477.5	472.2	465.3	440.4	417.7	394.3	369.2	344.5	331.0
54°	427.2	446.2	453.6	448.8	442.9	418.3	396.1	373.2	348.8	324.9	311.9
54.5°	405.5	423.1	430.2	426.4	420.8	397.1	374.7	352.6	329.0	305.8	293.1
55°	383.9	401.5	407.6	404.0	399.4	376.0	354.1	332.0	309.9	287.0	275.3
55.5°	362.5	379.3	384.4	382.4	378.6	354.9	333.3	311.9	290.5	268.9	257.7
56°	342.2	357.7	362.3	360.8	356.9	334.6	312.9	292.6	272.0	251.1	241.4
56.5°	322.1	336.3	340.7	339.1	336.3	314.5	293.6	273.7	253.6	234.8	225.4
57°	301.7	316.0	319.3	318.8	316.0	295.1	274.3	254.7	236.9	218.5	209.4
57.5°	282.4	295.9	298.2	298.4	296.6	276.3	255.4	237.4	220.1	202.3	193.1
58°	263.6	275.8	277.8	278.8	277.1	257.7	238.4	220.3	203.3	186.0	177.1
58.5°	245.3	256.7	258.5	259.5	258.2	240.7	221.3	203.0	186.5	169.4	162.6
59°	227.4	238.1	239.4	240.4	240.9	223.9	204.3	185.7	169.7	154.9	148.6
59.5°	209.6	220.1	221.1	222.4	223.4	206.8	187.2	168.7	154.2	140.7	134.6
60°	192.8	202.3	203.5	204.8	206.1	189.8	170.5	153.2	139.4	127.0	121.9
60.5°	176.3	185.0	186.2	187.8	188.5	173.0	155.4	138.4	125.4	114.2	109.4
61°	160.3	168.7	169.7	170.7	171.2	157.7	140.2	124.4	111.7	101.8	97.9
61.5°	145.5	152.9	154.4	155.2	155.4	142.7	126.4	110.9	99.0	90.3	87.0
62°	130.5	137.9	139.7	139.9	140.4	128.7	113.2	97.9	86.8	79.4	76.6
62.5°	116.5	123.1	125.4	125.4	125.7	115.0	100.5	86.0	75.3	68.9	66.9
63°	103.5	109.4	111.7	111.4	111.9	101.8	88.3	75.1	64.1	59.5	58.0
63.5°	90.8	96.4	99.2	98.2	99.0	89.6	77.3	64.4	54.4	50.6	49.6
64°	79.4	85.5	87.0	86.5	86.8	77.8	66.9	55.0	45.5	42.7	42.5
64.5°	67.9	74.8	76.8	76.1	75.1	67.2	57.2	45.8	37.4	35.9	35.6
65°	56.7	63.9	66.7	65.6	64.4	57.2	48.3	37.9	32.1	30.8	30.8
65.5°	45.3	52.9	56.5	55.2	54.4	47.8	39.9	32.6	27.0	25.9	25.9
66°	33.8	42.2	46.3	44.8	45.3	39.4	34.1	27.0	21.6	21.1	21.4





TEST NUMBER: P775928  
 CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	11.4	20.4	23.9	22.9	25.7	21.9	17.0	10.4	7.6	8.1	8.4
68°	9.4	15.0	17.8	17.3	19.8	16.0	11.2	7.6	4.8	5.6	5.6
68.5°	7.4	10.7	12.7	12.5	14.2	10.2	7.6	5.1	2.8	3.6	3.6
69°	5.3	8.9	8.6	8.6	8.4	6.9	5.1	3.3	1.8	2.3	2.3
69.5°	3.3	7.1	6.9	6.9	5.3	4.3	2.8	2.0	1.5	1.5	1.5
70°	1.5	5.3	5.1	5.1	3.3	2.3	1.8	1.5	1.5	1.5	1.5
70.5°	1.3	3.3	3.3	3.3	2.0	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: P775928  
CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P775928

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8
0.5°	1764.6	1763.3	1764.3	1765.1	1765.9	1765.6
1°	1763.6	1762.3	1763.8	1765.1	1766.4	1766.4
1.5°	1762.3	1761.0	1763.1	1765.1	1766.4	1766.9
2°	1761.0	1759.5	1761.8	1764.3	1766.1	1767.1
2.5°	1759.3	1757.7	1760.5	1763.3	1765.9	1767.1
3°	1757.2	1755.7	1758.5	1762.1	1765.4	1767.1
3.5°	1754.9	1753.4	1756.5	1760.5	1764.6	1767.1
4°	1752.1	1750.6	1754.2	1759.0	1763.6	1766.6
4.5°	1749.1	1747.8	1751.4	1757.0	1762.6	1766.1
5°	1745.8	1744.5	1748.6	1754.7	1761.5	1765.6
5.5°	1742.2	1740.9	1745.5	1752.4	1760.3	1764.6
6°	1738.4	1737.4	1742.2	1749.8	1758.7	1763.6
6.5°	1734.6	1733.6	1738.9	1747.3	1757.0	1762.8
7°	1730.5	1729.7	1735.6	1744.8	1755.4	1761.5
7.5°	1726.4	1725.7	1731.8	1742.0	1753.4	1760.5
8°	1722.4	1721.6	1728.2	1739.2	1751.6	1759.0
8.5°	1718.0	1717.5	1724.4	1736.4	1749.3	1757.2
9°	1713.7	1713.2	1720.6	1733.3	1746.8	1755.4
9.5°	1709.4	1708.6	1716.5	1730.0	1744.0	1753.4
10°	1705.1	1704.0	1712.2	1726.7	1741.2	1751.4
10.5°	1700.5	1699.5	1708.1	1723.4	1738.1	1748.8
11°	1695.9	1694.6	1703.8	1720.1	1734.8	1746.3
11.5°	1691.1	1689.3	1699.0	1716.5	1731.5	1743.5
12°	1686.2	1684.2	1694.4	1712.9	1728.2	1740.9
12.5°	1681.1	1678.3	1689.3	1708.9	1724.4	1737.9
13°	1675.8	1672.5	1683.9	1705.1	1720.3	1734.8
13.5°	1670.5	1665.9	1678.6	1700.5	1716.3	1731.3
14°	1664.4	1659.0	1672.5	1695.6	1711.7	1727.7
14.5°	1658.0	1651.9	1665.9	1690.6	1706.8	1724.1
15°	1651.4	1644.3	1659.0	1684.7	1701.8	1719.8
15.5°	1644.0	1636.1	1651.6	1678.6	1695.9	1715.5
16°	1636.4	1627.5	1643.7	1672.2	1690.1	1710.9
16.5°	1628.2	1618.6	1635.4	1665.4	1683.4	1705.8
17°	1619.8	1609.1	1626.7	1658.0	1677.1	1700.5
17.5°	1611.2	1599.5	1617.5	1650.1	1670.2	1694.9
18°	1601.8	1589.3	1608.1	1642.2	1663.1	1689.5
18.5°	1592.1	1578.9	1598.7	1633.6	1655.7	1683.7
19°	1581.9	1568.2	1588.3	1624.7	1648.3	1677.8
19.5°	1571.2	1556.7	1577.6	1615.3	1640.4	1671.5
20°	1560.0	1544.8	1566.4	1605.3	1632.3	1664.4
20.5°	1548.3	1532.8	1555.0	1595.2	1623.4	1657.2
21°	1536.4	1520.1	1543.0	1584.2	1614.0	1649.3

TEST NUMBER: P775928

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1497.7	1481.2	1505.1	1549.4	1584.5	1623.1
23°	1484.2	1467.4	1491.6	1536.6	1573.8	1613.5
23.5°	1470.5	1454.0	1478.6	1523.9	1563.1	1602.8
24°	1456.8	1440.5	1465.2	1511.2	1551.7	1591.8
24.5°	1442.5	1426.7	1451.7	1498.0	1539.9	1580.4
25°	1428.5	1413.0	1438.2	1484.5	1528.0	1568.2
25.5°	1414.5	1399.3	1425.0	1471.5	1516.5	1556.2
26°	1400.0	1385.8	1411.0	1458.3	1504.3	1543.8
26.5°	1385.5	1371.8	1397.5	1445.1	1491.9	1531.0
27°	1371.3	1358.0	1383.7	1431.3	1479.4	1517.8
27.5°	1357.3	1344.3	1370.3	1417.8	1466.7	1504.1
28°	1343.3	1331.1	1356.3	1404.1	1453.4	1490.3
28.5°	1329.6	1317.8	1343.3	1390.6	1440.5	1476.3
29°	1315.6	1304.1	1330.1	1377.1	1427.0	1462.4
29.5°	1302.1	1291.4	1316.8	1364.2	1413.8	1448.6
30°	1289.1	1278.9	1303.6	1350.9	1400.5	1434.4
30.5°	1276.4	1266.2	1291.1	1337.9	1387.8	1420.6
31°	1263.4	1253.7	1278.7	1325.0	1375.1	1406.9
31.5°	1250.2	1240.8	1265.7	1312.5	1361.9	1393.7
32°	1237.5	1228.3	1253.0	1299.0	1348.6	1379.4
32.5°	1224.5	1215.6	1240.3	1286.3	1335.7	1366.4
33°	1210.5	1202.1	1227.0	1273.1	1322.4	1352.4
33.5°	1196.2	1188.6	1213.3	1258.8	1308.2	1337.7
34°	1182.0	1174.4	1199.5	1244.3	1292.9	1321.7
34.5°	1167.5	1160.4	1185.0	1229.6	1276.9	1305.6
35°	1152.2	1146.1	1170.5	1214.3	1260.9	1289.4
35.5°	1137.2	1131.6	1156.0	1199.0	1244.3	1272.6
36°	1120.9	1116.1	1141.3	1183.0	1227.5	1255.8
36.5°	1104.4	1100.3	1125.8	1167.2	1210.0	1238.7
37°	1086.6	1084.0	1109.2	1150.2	1191.9	1220.4
37.5°	1069.3	1067.5	1092.7	1132.1	1173.1	1202.3
38°	1050.5	1049.7	1075.4	1114.1	1154.0	1183.0
38.5°	1029.9	1030.6	1056.8	1095.5	1134.9	1163.9
39°	1008.5	1010.5	1037.0	1075.4	1115.1	1145.4
39.5°	986.9	989.1	1015.9	1054.0	1095.0	1125.3
40°	963.2	966.8	994.0	1031.9	1073.9	1105.2
40.5°	939.5	943.6	971.8	1009.8	1052.2	1083.8
41°	915.4	919.9	949.2	987.1	1029.3	1063.4
41.5°	891.5	895.8	925.8	964.5	1005.9	1041.3
42°	866.8	872.9	903.2	941.3	983.6	1018.9
42.5°	842.1	848.7	879.8	917.7	960.1	994.7
43°	817.4	825.3	856.6	894.0	936.5	971.6
43.5°	793.5	800.4	832.9	870.1	911.6	946.7

TEST NUMBER: P775928

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	718.2	729.4	762.2	797.3	837.5	869.1
45.5°	694.5	705.2	738.8	773.2	812.3	842.9
46°	669.6	681.8	715.7	749.0	786.9	816.7
46.5°	645.4	658.2	691.7	723.8	760.9	789.9
47°	621.5	634.8	668.3	699.6	735.5	764.0
47.5°	598.4	610.6	644.4	675.2	710.1	738.3
48°	574.7	587.7	620.8	651.0	684.6	712.6
48.5°	551.8	564.3	596.8	626.4	658.9	686.9
49°	528.7	541.6	573.4	603.2	634.2	662.7
49.5°	507.3	519.0	550.0	578.8	609.3	637.6
50°	484.1	496.4	526.9	554.9	584.6	613.1
50.5°	462.3	473.7	503.2	531.2	559.7	588.5
51°	440.4	451.8	480.8	508.1	535.8	564.8
51.5°	419.0	430.2	458.2	484.7	512.1	540.9
52°	398.4	409.1	436.1	462.3	489.2	518.0
52.5°	377.5	388.2	413.7	439.4	465.8	494.3
53°	357.2	367.1	392.3	417.0	443.4	471.9
53.5°	337.3	346.8	370.9	394.3	421.3	448.8
54°	318.0	326.9	349.8	373.0	399.4	427.2
54.5°	298.7	307.6	329.5	352.1	378.3	405.5
55°	280.4	288.5	309.4	330.7	357.2	383.9
55.5°	262.3	269.4	289.3	309.9	336.8	362.5
56°	244.7	251.4	269.9	290.5	316.7	342.2
56.5°	228.2	233.5	251.1	271.2	297.4	322.1
57°	211.9	216.2	232.8	252.1	278.3	301.7
57.5°	195.6	198.9	214.5	233.5	259.2	282.4
58°	179.4	183.2	197.9	215.7	241.4	263.6
58.5°	164.3	167.1	180.9	198.7	224.4	245.3
59°	149.8	151.9	164.9	182.2	207.3	227.4
59.5°	135.9	137.4	149.3	166.4	191.1	209.6
60°	122.6	123.1	134.6	150.6	175.3	192.8
60.5°	110.2	109.9	120.6	136.6	159.5	176.3
61°	97.9	96.9	107.1	122.6	144.5	160.3
61.5°	86.8	86.2	94.4	109.7	130.5	145.5
62°	76.1	76.1	84.5	96.9	116.8	130.5
62.5°	66.1	65.9	74.3	86.5	103.5	116.5
63°	57.2	55.7	64.4	76.6	91.3	103.5
63.5°	48.8	45.3	54.2	66.7	81.2	90.8
64°	41.5	37.7	44.3	56.7	71.2	79.4
64.5°	34.9	31.3	36.6	46.8	61.3	67.9
65°	30.3	25.4	30.0	39.2	51.1	56.7
65.5°	25.4	20.6	24.2	32.1	41.2	45.3
66°	20.6	16.3	19.1	25.7	33.3	33.8



TEST NUMBER: P775928

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	8.1	7.6	8.4	11.4	15.0	11.4
68°	5.6	5.9	6.6	8.1	10.7	9.4
68.5°	3.6	4.1	4.8	6.4	8.6	7.4
69°	2.3	2.0	3.3	4.6	6.9	5.3
69.5°	1.5	1.5	1.5	3.1	5.1	3.3
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: P775928

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRC-2500lm-4000K

**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



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1641.0	1636.9	1646.3	1633.8	1642.0	1609.7	1582.2	1545.8	1509.4	1520.6	1527.5
22°	1632.6	1628.0	1636.6	1625.2	1633.8	1600.2	1571.8	1533.3	1496.7	1507.9	1517.3



44°	921.2	936.7	944.4	937.2	935.7	906.2	869.6	829.6	795.5	771.6	761.2
44.5°	894.0	912.6	920.2	913.6	909.0	881.5	845.7	806.5	772.4	747.0	736.8



66.5°	25.2	33.8	37.9	36.6	37.1	33.6	28.5	21.4	16.3	16.0	16.5
67°	17.3	26.7	30.5	29.3	31.3	27.7	22.6	16.0	11.2	11.2	11.7



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°	1523.9	1507.6	1530.8	1572.8	1604.6	1641.0
22°	1510.7	1494.2	1518.1	1561.3	1594.6	1632.6



44°	767.3	776.7	809.0	846.2	887.1	921.2
44.5°	742.6	752.8	785.6	821.7	862.7	894.0



66.5°	15.8	12.7	14.8	20.4	26.2	25.2
67°	11.2	9.7	11.2	15.5	20.1	17.3

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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)