

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: P776105

Luminaire Tested: HCDJBS1525CSD-HCD6TSQH-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776105
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-HCD6TSQH-2500lm-2700K
Description: 6 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

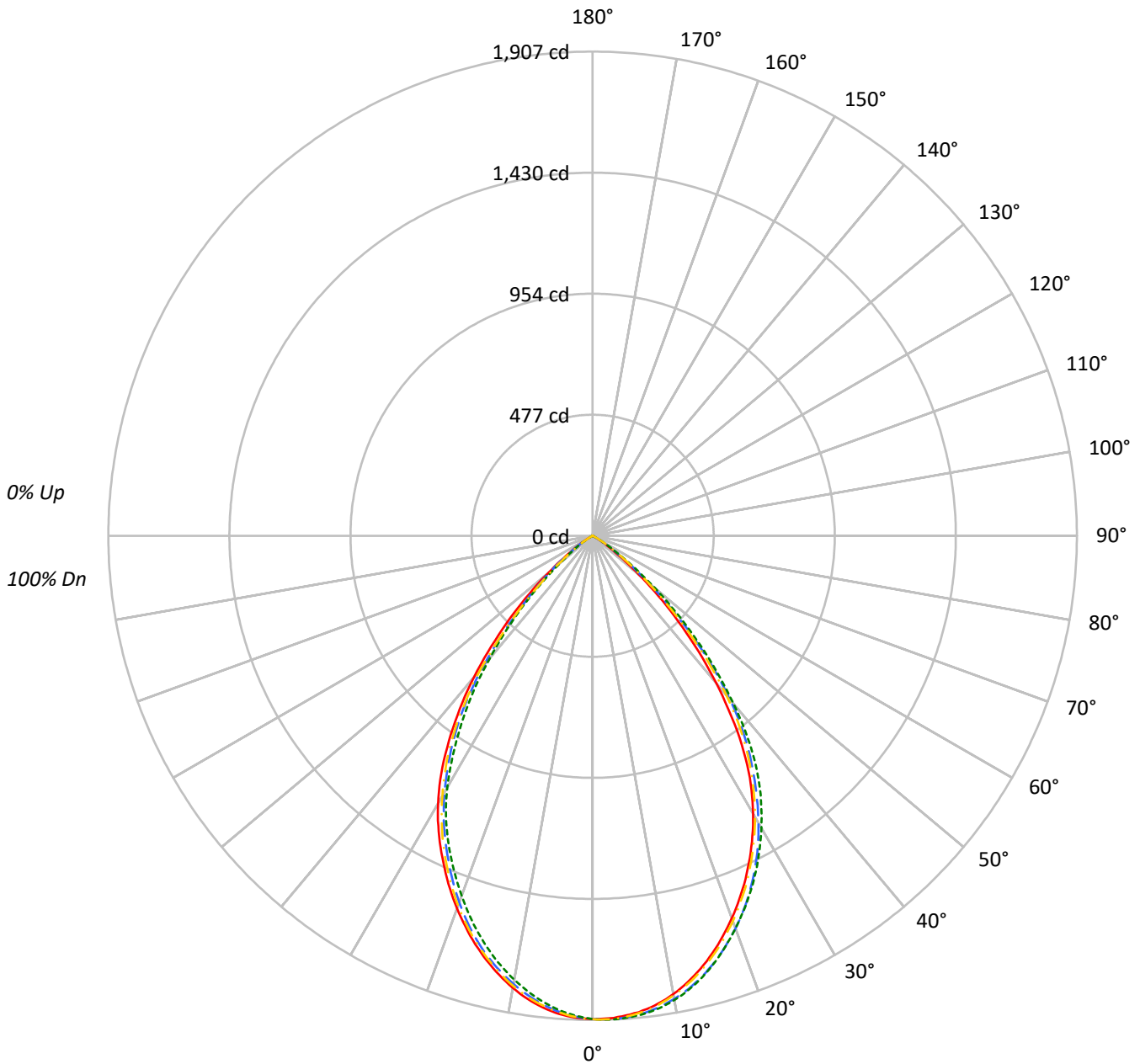
Lumens per Lamp: N/A
Luminaire Lumens: 2394.1 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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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			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	104361	104361	104361	104361
5°	103896	104529	103428	102383
10°	102024	103371	100661	98863
15°	98440	100438	96459	94047
20°	93505	96013	91084	87980
25°	87459	90743	84658	81162
30°	79987	84146	77050	72467
35°	69453	75456	66006	60030
40°	54144	61680	52033	45092
45°	37120	44772	35701	28988
50°	20443	27069	19556	14234
55°	7818	11890	8458	6060
60°	1031	3037	2039	800
65°	130	246	195	130
70°	32	64	64	64
75°	42	42	42	42
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 44772 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	7.4
10°-20°	481.8	20.1
20°-30°	651.7	27.2
30°-40°	625.7	26.1
40°-50°	364.4	15.2
50°-60°	89.7	3.7
60°-70°	2.9	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	1311.3	54.8
0°-40°	1937.0	80.9
0°-60°	2391.1	99.9
0°-90°	2394.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1904	1904	1904	1904	1904	
5°	1888	1900	1880	1860	1888	178
15°	1734	1770	1700	1657	1734	487
25°	1446	1500	1400	1342	1446	662
35°	1038	1128	986	897	1038	639
45°	479	578	460	374	479	370
55°	82	124	88	63	82	84
65°	1	2	2	1	1	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
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°	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7
0.5°	1903.3	1903.5	1904.9	1906.2	1904.3	1905.2	1905.6	1904.7	1902.9	1902.0	1902.2
1°	1902.9	1903.7	1905.8	1907.2	1905.6	1906.0	1906.0	1904.5	1902.0	1900.4	1900.6
1.5°	1902.2	1903.7	1906.0	1907.9	1906.2	1906.6	1905.8	1903.9	1901.2	1898.7	1898.3
2°	1901.2	1903.5	1906.0	1907.9	1906.6	1906.6	1905.6	1902.9	1899.1	1896.6	1895.6
2.5°	1901.2	1902.6	1905.4	1907.4	1906.2	1906.0	1904.5	1901.4	1897.4	1893.9	1892.2
3°	1898.1	1901.4	1904.7	1906.8	1905.8	1905.4	1903.1	1899.1	1894.5	1890.8	1888.5
3.5°	1896.2	1899.9	1903.5	1905.8	1904.7	1903.7	1901.2	1896.8	1891.6	1887.2	1884.9
4°	1893.9	1898.3	1901.8	1904.3	1903.3	1902.2	1899.1	1893.7	1888.3	1883.5	1879.9
4.5°	1891.0	1896.2	1899.7	1902.4	1901.6	1900.1	1896.2	1890.3	1884.5	1878.7	1875.1
5°	1888.0	1893.5	1897.4	1900.4	1899.5	1897.6	1893.0	1886.6	1879.5	1873.6	1869.7
5.5°	1885.3	1890.3	1894.9	1897.6	1897.2	1894.9	1889.3	1882.2	1874.3	1868.2	1863.6
6°	1880.5	1886.8	1891.8	1894.7	1894.5	1891.6	1885.1	1877.0	1868.8	1862.4	1857.4
6.5°	1876.4	1883.2	1888.3	1891.6	1891.2	1887.8	1881.2	1871.4	1862.8	1856.1	1850.3
7°	1871.6	1878.9	1884.1	1888.0	1887.6	1884.1	1875.9	1865.7	1856.5	1849.2	1843.6
7.5°	1866.1	1874.1	1879.7	1883.7	1883.5	1879.7	1870.7	1859.0	1849.2	1841.7	1835.7
8°	1860.3	1868.8	1875.1	1878.9	1879.1	1875.1	1865.1	1852.4	1841.9	1834.0	1828.0
8.5°	1854.2	1863.2	1869.9	1873.9	1874.3	1869.7	1858.8	1845.3	1834.2	1826.1	1819.4
9°	1847.6	1857.0	1864.5	1868.4	1868.8	1864.0	1852.6	1837.8	1825.9	1817.7	1811.3
9.5°	1840.3	1850.7	1858.2	1862.6	1863.2	1858.2	1845.3	1829.6	1817.7	1808.8	1802.1
10°	1832.8	1843.8	1852.2	1856.3	1857.0	1851.5	1838.0	1821.5	1808.3	1799.8	1792.7
10.5°	1824.6	1836.3	1845.3	1849.7	1850.1	1844.6	1830.2	1812.5	1799.2	1790.4	1783.1
11°	1816.3	1828.8	1838.6	1842.6	1843.0	1836.9	1822.1	1803.5	1789.4	1780.6	1773.3
11.5°	1807.5	1820.6	1830.7	1834.8	1835.3	1829.2	1813.8	1794.2	1778.9	1770.6	1763.1
12°	1797.7	1812.1	1823.2	1826.7	1827.1	1820.6	1804.6	1784.3	1768.7	1760.1	1752.4
12.5°	1788.1	1803.1	1814.4	1818.6	1818.6	1811.9	1795.2	1774.3	1758.1	1749.3	1741.8
13°	1778.3	1794.2	1806.0	1810.2	1810.2	1802.9	1786.0	1764.1	1747.2	1738.2	1730.7
13.5°	1767.7	1784.1	1796.9	1800.6	1800.2	1792.9	1775.6	1753.3	1735.5	1727.0	1719.2
14°	1757.2	1774.3	1787.3	1791.2	1790.4	1783.1	1765.4	1742.2	1724.0	1715.1	1707.4
14.5°	1746.0	1763.7	1777.3	1781.4	1779.8	1772.2	1754.7	1730.5	1712.2	1702.6	1695.3
15°	1734.5	1753.3	1766.8	1771.2	1769.7	1761.6	1743.2	1718.8	1699.6	1689.8	1682.7
15.5°	1722.6	1742.0	1756.2	1761.0	1758.5	1750.5	1731.6	1706.7	1686.9	1677.5	1669.8
16°	1710.5	1730.3	1745.1	1749.5	1747.4	1739.1	1720.1	1694.4	1674.2	1664.4	1656.2
16.5°	1698.0	1718.6	1733.4	1738.2	1735.7	1727.0	1707.8	1681.7	1661.0	1650.6	1642.5
17°	1685.2	1706.5	1722.0	1726.8	1723.4	1714.9	1695.5	1668.8	1647.3	1636.4	1628.5
17.5°	1671.9	1694.2	1709.9	1715.1	1711.3	1702.3	1682.5	1655.0	1633.7	1622.2	1613.7
18°	1658.7	1681.3	1697.5	1702.6	1698.4	1689.6	1669.8	1641.6	1619.1	1607.6	1598.6
18.5°	1645.2	1668.1	1684.6	1690.0	1685.4	1676.7	1656.2	1627.4	1604.9	1592.6	1583.8
19°	1631.2	1654.8	1672.1	1677.3	1672.5	1663.5	1642.5	1613.3	1590.5	1578.0	1567.8
19.5°	1617.0	1641.0	1658.5	1664.2	1659.4	1649.8	1628.5	1598.6	1576.3	1562.1	1551.7
20°	1602.8	1627.2	1645.4	1650.8	1645.8	1635.6	1614.7	1584.5	1561.3	1546.5	1535.6
20.5°	1588.0	1612.6	1631.6	1636.4	1631.4	1621.8	1600.1	1569.4	1546.1	1530.6	1519.6
21°	1573.2	1598.0	1617.6	1622.6	1617.4	1607.4	1585.1	1554.6	1531.0	1515.0	1503.5



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CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1527.5	1552.5	1573.6	1578.4	1575.7	1562.6	1539.6	1510.0	1483.5	1465.7	1451.1
23°	1511.9	1536.7	1558.2	1563.2	1560.9	1546.7	1524.6	1493.9	1466.6	1448.6	1433.6
23.5°	1496.0	1520.4	1542.5	1547.5	1546.1	1530.8	1509.3	1477.8	1450.1	1431.1	1415.5
24°	1479.5	1504.3	1526.0	1531.5	1531.3	1515.0	1493.1	1461.6	1433.2	1413.8	1397.5
24.5°	1462.8	1487.9	1509.8	1515.4	1516.4	1501.6	1476.2	1445.1	1416.9	1396.3	1379.2
25°	1445.9	1471.2	1493.1	1498.9	1500.2	1485.1	1459.1	1428.6	1399.6	1378.7	1361.4
25.5°	1429.0	1453.4	1476.2	1481.8	1483.9	1468.2	1442.0	1411.5	1382.5	1360.8	1343.1
26°	1412.1	1436.5	1458.6	1465.1	1467.8	1451.8	1424.6	1394.8	1365.4	1343.1	1324.9
26.5°	1394.2	1419.2	1440.7	1447.8	1451.6	1434.2	1406.7	1377.5	1348.1	1325.1	1306.3
27°	1376.6	1400.9	1423.0	1430.3	1435.1	1417.3	1389.2	1360.4	1329.9	1307.2	1288.0
27.5°	1358.3	1382.3	1404.4	1412.5	1417.8	1399.6	1371.4	1342.8	1312.6	1288.8	1269.0
28°	1340.1	1363.7	1385.2	1394.2	1400.4	1382.1	1353.5	1324.9	1294.4	1269.4	1249.4
28.5°	1321.6	1344.9	1366.0	1375.8	1383.3	1364.1	1335.3	1307.2	1276.3	1249.8	1229.1
29°	1302.6	1325.7	1346.4	1357.0	1365.8	1346.2	1316.6	1288.6	1257.3	1230.4	1208.9
29.5°	1283.2	1305.7	1326.2	1338.0	1347.4	1328.2	1297.8	1269.2	1237.5	1210.1	1187.4
30°	1263.6	1285.5	1305.9	1318.6	1329.3	1309.9	1278.6	1249.8	1217.2	1189.7	1166.1
30.5°	1243.5	1265.0	1285.5	1298.2	1310.7	1290.9	1259.2	1229.6	1197.2	1168.2	1144.4
31°	1223.1	1244.2	1263.8	1278.6	1292.6	1271.9	1239.2	1209.3	1175.7	1146.7	1122.3
31.5°	1202.0	1222.9	1243.1	1257.9	1273.0	1252.7	1218.9	1188.5	1153.8	1125.0	1100.0
32°	1180.1	1200.8	1221.2	1236.9	1253.5	1233.1	1198.7	1167.2	1131.3	1102.7	1077.0
32.5°	1158.6	1179.7	1199.5	1215.4	1233.9	1212.9	1177.8	1145.5	1108.5	1080.0	1054.5
33°	1136.1	1157.4	1178.0	1194.3	1213.9	1192.4	1156.7	1122.7	1085.2	1056.4	1032.0
33.5°	1112.9	1135.0	1156.9	1172.8	1192.8	1171.8	1135.5	1099.8	1061.2	1032.8	1009.2
34°	1088.5	1112.1	1134.6	1151.1	1172.2	1150.5	1113.8	1076.6	1037.0	1009.4	986.1
34.5°	1063.7	1089.6	1112.3	1129.2	1149.6	1128.2	1092.3	1052.8	1011.3	984.4	962.3
35°	1037.8	1066.0	1089.6	1106.2	1127.5	1106.0	1070.1	1028.4	986.3	959.4	938.7
35.5°	1011.9	1042.4	1067.9	1083.5	1104.2	1083.7	1048.0	1004.2	961.4	934.5	914.5
36°	984.2	1018.6	1044.1	1060.8	1080.8	1061.0	1025.3	979.8	936.4	909.3	889.5
36.5°	956.4	993.4	1021.7	1038.0	1055.8	1037.4	1001.7	955.0	911.0	883.6	863.6
37°	927.9	967.7	998.0	1014.0	1030.3	1013.0	977.5	930.4	884.7	857.7	836.5
37.5°	899.5	941.0	973.5	989.4	1004.0	987.9	953.1	904.9	859.8	831.5	810.0
38°	870.1	913.7	948.1	962.9	976.9	961.7	927.6	879.7	833.8	804.5	782.0
38.5°	842.1	886.3	922.6	938.1	948.3	935.2	901.8	854.2	807.9	777.4	754.3
39°	812.9	858.0	895.7	911.0	920.1	907.8	874.9	828.5	781.4	750.1	726.5
39.5°	784.7	829.6	868.4	883.8	891.1	879.4	847.5	802.0	755.1	722.5	697.7
40°	756.6	799.5	839.8	855.7	861.9	849.6	819.6	774.9	727.1	694.2	668.9
40.5°	728.6	770.3	812.3	826.9	833.1	819.8	791.6	747.8	699.8	666.2	639.5
41°	700.2	742.8	784.1	797.4	804.3	789.3	761.6	720.5	671.8	638.5	610.3
41.5°	672.3	714.2	755.3	768.2	776.6	759.3	732.1	693.5	643.9	612.0	581.5
42°	644.1	685.4	725.7	750.9	748.2	729.0	702.3	665.0	615.7	584.2	553.1
42.5°	615.9	656.8	696.0	719.2	720.9	699.0	672.9	636.8	589.6	557.3	525.8
43°	587.3	628.0	666.4	686.9	693.1	669.3	643.7	608.0	562.7	530.6	499.5
43.5°	559.4	600.3	637.0	654.7	663.7	640.3	614.5	580.0	537.5	504.3	473.6



TEST NUMBER: P776105

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	478.8	517.0	547.9	565.0	577.5	554.4	527.7	496.4	460.5	427.5	400.4
45.5°	453.4	489.3	518.7	537.3	549.2	525.6	499.3	470.3	435.2	403.1	377.4
46°	427.1	462.4	489.7	509.5	521.8	498.0	471.7	443.4	410.6	378.9	355.1
46.5°	401.2	435.7	460.9	482.0	495.3	470.9	444.0	417.3	385.6	356.6	333.6
47°	376.0	409.2	433.4	454.2	468.8	444.4	417.3	390.8	361.4	333.4	312.6
47.5°	351.4	383.1	406.9	427.3	442.5	418.5	391.2	365.8	338.0	312.1	292.7
48°	327.4	357.8	380.8	400.8	416.7	394.1	366.0	340.5	315.5	291.3	273.7
48.5°	304.4	333.4	355.1	375.1	391.2	370.6	341.8	316.5	293.4	271.9	255.8
49°	281.9	309.4	330.9	349.9	366.0	347.0	318.0	292.9	271.2	252.5	238.5
49.5°	260.2	286.1	307.1	325.5	340.9	324.2	296.1	270.6	250.0	234.1	221.4
50°	239.7	262.9	284.2	300.9	317.4	301.5	274.4	249.3	229.3	216.8	205.7
50.5°	219.5	240.4	261.6	277.5	294.2	280.0	253.9	229.1	209.9	201.6	191.3
51°	200.5	219.5	240.8	255.0	271.7	258.9	234.5	210.1	193.0	186.5	176.9
51.5°	181.7	199.7	220.3	233.7	250.6	238.9	215.9	194.0	176.3	171.3	162.7
52°	164.2	181.1	201.1	213.4	230.1	219.3	200.5	178.0	159.4	156.3	148.3
52.5°	147.5	163.2	182.4	193.6	210.3	202.6	184.9	161.7	142.7	141.3	135.0
53°	132.1	146.9	165.0	175.1	192.6	185.7	169.2	145.6	129.6	128.3	123.1
53.5°	117.5	131.9	148.1	157.7	174.8	169.0	153.6	132.1	117.7	116.6	111.4
54°	104.5	117.9	132.9	141.9	156.9	152.1	137.9	119.8	107.0	105.6	100.8
54.5°	92.6	104.7	117.9	126.9	139.4	135.4	125.2	108.5	97.4	94.9	89.9
55°	81.8	93.1	104.5	113.3	124.4	122.5	113.1	98.5	88.5	85.3	80.1
55.5°	71.4	81.6	91.8	100.6	110.8	109.1	101.6	88.5	79.7	75.7	70.5
56°	63.2	71.1	80.5	88.7	98.3	97.4	90.6	79.5	71.4	67.0	61.8
56.5°	54.9	62.8	70.7	77.4	86.8	86.2	80.1	70.9	63.4	58.6	53.4
57°	46.7	54.7	62.2	68.4	76.2	75.7	70.5	62.6	55.7	50.9	45.9
57.5°	38.6	46.3	53.4	59.7	65.9	65.7	61.3	54.7	48.6	43.8	38.8
58°	30.9	38.0	44.9	50.7	56.8	56.5	53.0	47.4	41.7	36.5	31.1
58.5°	23.4	29.8	36.3	41.9	48.4	48.2	45.3	40.3	34.4	31.1	26.5
59°	17.1	22.5	28.2	33.2	40.3	40.7	37.6	32.5	29.2	25.7	21.7
59.5°	12.5	16.5	20.7	24.8	34.0	35.1	31.7	27.5	24.0	20.0	17.1
60°	9.4	11.9	15.0	18.2	27.7	29.4	26.1	22.5	18.6	14.6	12.5
60.5°	6.9	9.0	10.8	12.9	21.5	23.8	20.2	17.5	13.4	9.2	7.7
61°	5.8	7.7	8.1	9.6	15.2	18.2	14.4	12.5	8.3	7.1	6.1
61.5°	4.8	6.5	6.9	7.1	9.0	12.5	8.8	7.5	6.3	5.6	4.8
62°	3.8	5.2	5.6	6.1	6.7	6.9	6.7	5.6	4.8	4.4	4.0
62.5°	2.7	4.0	4.4	5.0	5.2	5.2	5.0	4.6	3.8	3.5	3.1
63°	2.3	2.9	3.3	4.0	4.2	4.2	4.0	3.5	3.1	2.9	2.7
63.5°	1.9	2.3	2.7	2.9	3.3	3.3	3.1	2.9	2.5	2.5	2.3
64°	1.5	1.9	2.3	2.5	2.7	2.7	2.7	2.5	2.1	2.1	1.9
64.5°	1.3	1.7	1.9	2.1	2.3	2.3	2.1	2.1	1.7	1.7	1.7
65°	1.0	1.5	1.7	1.7	1.9	1.9	1.9	1.7	1.5	1.5	1.5
65.5°	1.0	1.3	1.3	1.5	1.7	1.5	1.5	1.5	1.3	1.3	1.3
66°	0.8	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0



TEST NUMBER: P776105

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6
68°	0.4	0.6	0.6	0.6	0.8	0.6	0.8	0.6	0.6	0.6	0.6
68.5°	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
69°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4
69.5°	0.4	0.4	0.4	0.4	0.6	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71.5°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
77°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P776105

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776105

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1903.7	1903.7	1903.7	1903.7	1903.7	1903.7
0.5°	1903.1	1900.8	1902.0	1903.1	1903.7	1903.3
1°	1901.0	1898.3	1899.7	1901.4	1902.4	1902.9
1.5°	1898.3	1895.3	1897.2	1899.1	1901.4	1902.2
2°	1894.9	1891.8	1893.9	1896.6	1899.1	1901.2
2.5°	1891.4	1887.8	1889.9	1893.7	1897.0	1901.2
3°	1887.2	1883.2	1886.0	1889.9	1894.9	1898.1
3.5°	1882.6	1878.2	1881.2	1886.4	1892.0	1896.2
4°	1877.8	1873.0	1876.1	1882.2	1889.1	1893.9
4.5°	1872.4	1867.0	1870.7	1877.6	1885.3	1891.0
5°	1866.3	1860.5	1864.7	1872.4	1881.4	1888.0
5.5°	1859.9	1854.0	1858.2	1867.0	1876.8	1885.3
6°	1853.0	1846.9	1851.7	1861.3	1872.2	1880.5
6.5°	1845.7	1839.0	1844.4	1854.9	1867.0	1876.4
7°	1838.2	1831.5	1836.9	1848.2	1861.5	1871.6
7.5°	1830.0	1822.9	1829.0	1841.5	1855.5	1866.1
8°	1821.9	1814.0	1820.9	1834.0	1849.0	1860.3
8.5°	1813.1	1804.8	1812.1	1826.1	1841.7	1854.2
9°	1804.4	1795.6	1802.9	1817.9	1834.4	1847.6
9.5°	1794.6	1785.8	1793.7	1809.2	1826.5	1840.3
10°	1785.0	1776.0	1783.9	1800.4	1818.4	1832.8
10.5°	1774.7	1765.1	1774.1	1791.0	1809.8	1824.6
11°	1764.3	1754.3	1763.7	1781.0	1800.8	1816.3
11.5°	1753.7	1743.4	1752.8	1770.8	1791.4	1807.5
12°	1742.4	1731.8	1741.8	1760.4	1781.4	1797.7
12.5°	1731.1	1720.3	1730.5	1749.3	1771.2	1788.1
13°	1719.2	1708.2	1718.6	1738.2	1761.0	1778.3
13.5°	1707.1	1695.9	1706.3	1726.5	1749.9	1767.7
14°	1694.4	1683.4	1693.8	1715.1	1738.9	1757.2
14.5°	1681.5	1670.4	1681.1	1703.0	1727.2	1746.0
15°	1668.1	1657.1	1667.9	1690.5	1715.9	1734.5
15.5°	1655.2	1643.1	1654.4	1677.5	1703.2	1722.6
16°	1641.2	1629.5	1640.8	1664.8	1690.9	1710.5
16.5°	1627.2	1614.9	1626.6	1651.9	1678.4	1698.0
17°	1612.6	1600.7	1612.4	1638.3	1665.4	1685.2
17.5°	1598.4	1585.7	1597.8	1623.9	1651.4	1671.9
18°	1583.8	1570.5	1583.2	1609.7	1637.7	1658.7
18.5°	1568.6	1555.0	1568.4	1595.1	1623.7	1645.2
19°	1553.6	1540.0	1552.7	1580.1	1609.1	1631.2
19.5°	1538.4	1524.4	1537.7	1565.3	1594.5	1617.0
20°	1523.1	1508.1	1522.5	1549.6	1579.5	1602.8
20.5°	1508.1	1492.2	1506.8	1533.8	1563.8	1588.0
21°	1491.8	1476.2	1491.0	1517.9	1548.2	1573.2

TEST NUMBER: P776105

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1442.0	1427.4	1442.0	1467.6	1499.1	1527.5
23°	1424.8	1410.5	1424.8	1450.5	1482.2	1511.9
23.5°	1407.9	1393.8	1408.6	1433.4	1465.1	1496.0
24°	1390.4	1376.6	1391.0	1415.9	1447.6	1479.5
24.5°	1372.9	1359.5	1374.1	1397.9	1430.5	1462.8
25°	1355.4	1341.8	1356.4	1380.0	1413.0	1445.9
25.5°	1337.4	1324.3	1338.9	1362.0	1395.0	1429.0
26°	1319.9	1306.5	1320.3	1343.1	1377.3	1412.1
26.5°	1301.5	1288.2	1301.5	1324.9	1359.1	1394.2
27°	1282.8	1269.4	1282.5	1305.1	1340.8	1376.6
27.5°	1263.6	1250.6	1262.9	1285.7	1322.0	1358.3
28°	1244.0	1230.0	1242.3	1265.9	1302.8	1340.1
28.5°	1223.5	1209.5	1222.7	1245.8	1283.4	1321.6
29°	1203.1	1188.5	1201.6	1225.6	1263.8	1302.6
29.5°	1182.2	1167.2	1180.1	1204.5	1243.7	1283.2
30°	1160.5	1144.8	1158.2	1183.7	1223.7	1263.6
30.5°	1138.4	1121.1	1136.1	1162.2	1202.6	1243.5
31°	1115.8	1097.3	1112.7	1140.7	1181.6	1223.1
31.5°	1092.9	1073.1	1089.3	1119.4	1160.3	1202.0
32°	1069.7	1048.2	1064.9	1096.4	1138.8	1180.1
32.5°	1045.5	1023.6	1040.7	1074.5	1116.9	1158.6
33°	1020.9	998.0	1015.9	1052.0	1093.9	1136.1
33.5°	995.9	972.7	991.1	1029.3	1071.2	1112.9
34°	970.6	947.5	966.5	1005.7	1047.6	1088.5
34.5°	944.8	922.0	941.2	980.8	1024.0	1063.7
35°	919.3	897.0	915.5	956.0	999.0	1037.8
35.5°	893.6	871.7	890.9	930.6	974.2	1011.9
36°	867.3	846.9	865.9	904.7	947.3	984.2
36.5°	841.3	821.6	840.6	878.2	919.9	956.4
37°	814.8	796.0	815.0	849.0	891.8	927.9
37.5°	788.1	769.7	788.9	821.6	864.2	899.5
38°	761.1	743.8	762.0	792.6	834.2	870.1
38.5°	733.4	715.4	734.0	764.7	804.5	842.1
39°	706.5	687.1	706.1	748.6	773.9	812.9
39.5°	678.9	658.5	678.1	716.1	739.2	784.7
40°	651.2	630.1	649.9	683.3	710.4	756.6
40.5°	623.6	602.8	622.0	650.8	681.6	728.6
41°	596.3	576.5	592.8	618.2	653.1	700.2
41.5°	570.2	550.4	564.6	589.4	624.3	672.3
42°	542.7	525.2	537.1	560.4	595.3	644.1
42.5°	516.2	499.5	510.6	531.8	566.9	615.9
43°	490.1	474.3	484.3	503.5	537.9	587.3
43.5°	463.6	448.8	457.4	475.7	509.9	559.4



TEST NUMBER: P776105

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	390.0	373.9	379.9	395.4	430.9	478.8
45.5°	366.4	350.5	354.5	370.3	406.4	453.4
46°	343.4	327.6	330.3	346.4	382.2	427.1
46.5°	322.2	304.4	306.5	323.2	359.3	401.2
47°	300.0	282.5	284.0	300.7	335.9	376.0
47.5°	279.8	261.0	262.5	279.4	314.2	351.4
48°	260.4	240.4	241.6	258.9	292.1	327.4
48.5°	241.6	220.1	222.2	239.5	271.0	304.4
49°	223.9	201.6	203.6	221.2	250.2	281.9
49.5°	207.0	183.6	186.1	203.4	230.8	260.2
50°	192.0	166.9	170.3	186.9	211.4	239.7
50.5°	177.1	151.9	155.0	171.1	193.4	219.5
51°	162.1	138.3	141.5	156.5	176.5	200.5
51.5°	147.3	126.0	128.7	142.3	160.4	181.7
52°	134.6	115.0	117.3	129.6	145.4	164.2
52.5°	122.3	104.9	106.4	117.5	131.2	147.5
53°	110.6	95.4	96.8	105.8	117.7	132.1
53.5°	100.2	86.6	87.4	94.7	105.2	117.5
54°	90.1	78.2	78.7	84.7	93.7	104.5
54.5°	80.5	70.7	71.1	75.1	83.0	92.6
55°	71.8	63.4	63.6	67.2	72.4	81.8
55.5°	63.0	56.1	56.3	59.3	64.3	71.4
56°	55.1	48.8	48.8	51.3	56.1	63.2
56.5°	47.8	41.5	41.3	43.6	48.0	54.9
57°	40.9	34.0	33.8	35.7	39.9	46.7
57.5°	33.4	26.5	26.5	28.0	32.1	38.6
58°	28.4	20.2	20.0	21.3	24.6	30.9
58.5°	23.4	15.2	14.8	15.6	18.4	23.4
59°	18.4	11.3	11.1	11.7	13.6	17.1
59.5°	13.4	8.6	8.3	8.8	10.0	12.5
60°	8.3	7.3	7.1	7.5	7.5	9.4
60.5°	6.5	5.8	5.8	6.3	6.5	6.9
61°	5.2	4.6	4.4	5.2	5.2	5.8
61.5°	4.2	3.3	3.1	4.0	4.2	4.8
62°	3.3	2.7	2.7	2.7	3.1	3.8
62.5°	2.7	2.3	2.1	2.3	2.5	2.7
63°	2.3	1.9	1.9	1.9	2.1	2.3
63.5°	1.9	1.7	1.5	1.5	1.7	1.9
64°	1.7	1.5	1.3	1.3	1.5	1.5
64.5°	1.5	1.3	1.0	1.0	1.3	1.3
65°	1.3	1.0	0.8	1.0	1.0	1.0
65.5°	1.0	0.8	0.8	0.8	0.8	1.0
66°	0.8	0.8	0.6	0.6	0.8	0.8



TEST NUMBER: P776105

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQH-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.6	0.6	0.4	0.4	0.6	0.6
68°	0.6	0.4	0.4	0.4	0.4	0.4
68.5°	0.4	0.4	0.4	0.4	0.4	0.4
69°	0.4	0.4	0.4	0.4	0.4	0.4
69.5°	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.2	0.2	0.2	0.2
70.5°	0.4	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.0	0.0	0.2
75.5°	0.2	0.0	0.0	0.0	0.0	0.0
76°	0.2	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	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: P776105

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-2700K

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



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21.5°	1558.0	1583.0	1603.4	1608.2	1603.7	1592.8	1570.1	1539.8	1516.0	1499.3	1486.2
22°	1542.9	1568.0	1588.4	1593.4	1589.5	1578.4	1554.8	1524.8	1499.5	1482.6	1469.1



44°	531.6	572.3	607.4	622.2	634.7	611.8	584.8	551.2	510.8	477.8	448.6
44.5°	504.9	544.8	577.5	593.6	605.9	583.2	556.7	523.7	486.4	453.0	424.8



66.5°	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
67°	0.6	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8



89°	0.0	0.0	0.0	0.0	0.0	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°	1475.1	1460.1	1474.7	1501.2	1531.9	1558.0
22°	1458.6	1443.6	1458.4	1484.7	1515.6	1542.9



44°	438.6	423.1	431.1	448.4	483.2	531.6
44.5°	414.4	398.1	405.6	421.7	456.9	504.9

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66.5°	0.8	0.6	0.6	0.6	0.6	0.6
67°	0.6	0.6	0.6	0.6	0.6	0.6

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89°	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

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Scaled Data Report



(END OF REPORT)