

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: P776109

Luminaire Tested: HCDJBS1525CSD-HCD6TSQH-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776109
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-5000K
Description: 6 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

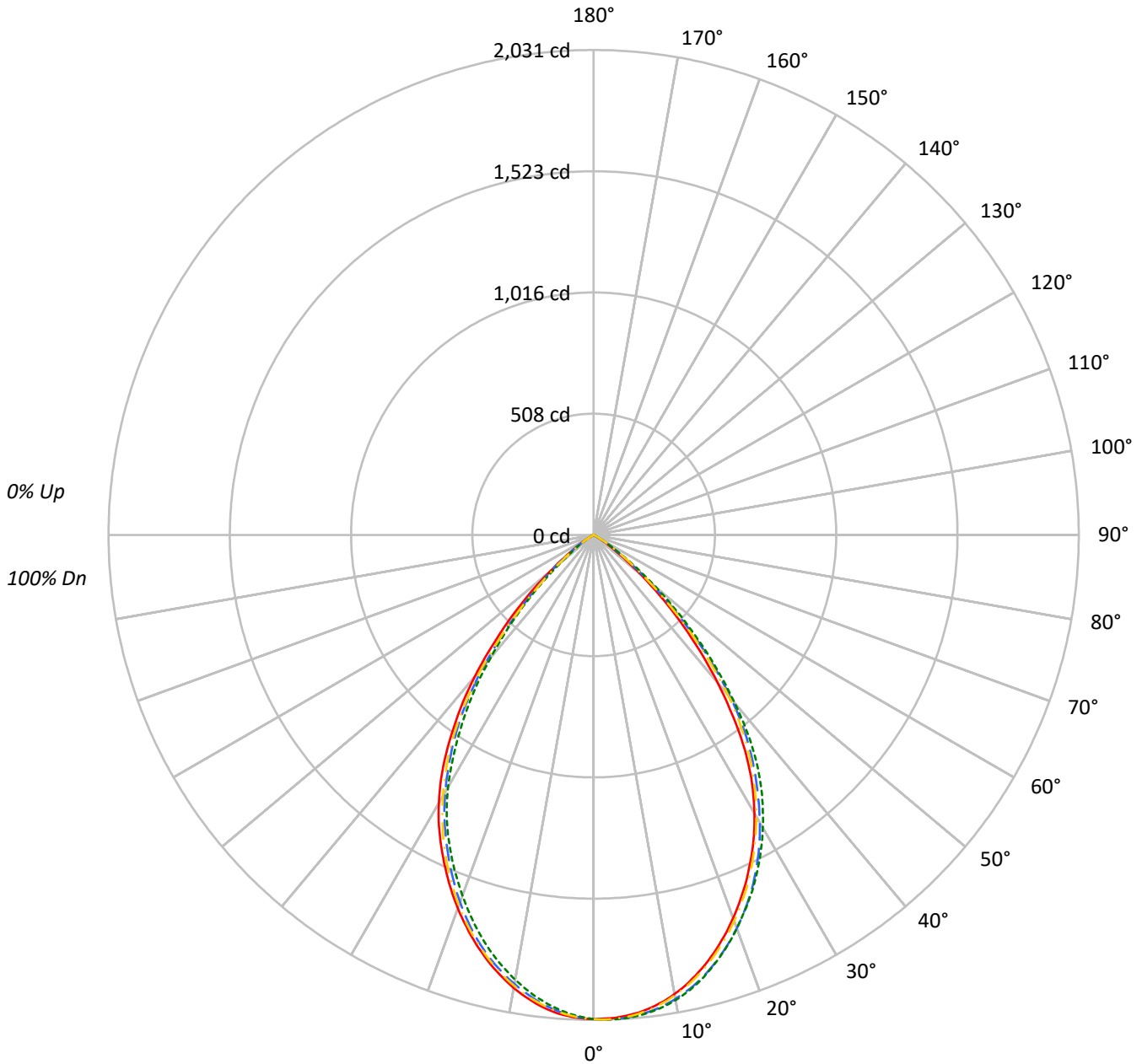
Lumens per Lamp: N/A
Luminaire Lumens: 2550.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	111175	111175	111175	111175
5°	110681	111352	110180	109069
10°	108682	110118	107235	105314
15°	104864	106998	102759	100188
20°	99613	102279	97028	93726
25°	93169	96665	90187	86461
30°	85209	89640	82082	77202
35°	73990	80381	70316	63945
40°	57672	65709	55432	48033
45°	39547	47695	38027	30879
50°	21782	28835	20835	15164
55°	8325	12664	9003	6461
60°	1096	3245	2171	855
65°	143	259	208	143
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: 47695 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	7.4
10°-20°	513.3	20.1
20°-30°	694.3	27.2
30°-40°	666.6	26.1
40°-50°	388.2	15.2
50°-60°	95.5	3.7
60°-70°	3.1	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°	1396.9	54.8
0°-40°	2063.4	80.9
0°-60°	2547.2	99.9
0°-90°	2550.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2028	2028	2028	2028	2028	
5°	2011	2024	2002	1982	2011	190
15°	1848	1885	1811	1765	1848	518
25°	1540	1598	1491	1429	1540	706
35°	1106	1201	1051	956	1106	680
45°	510	615	490	398	510	394
55°	87	132	94	68	87	90
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	



TEST NUMBER: P776109

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0
0.5°	2027.5	2027.8	2029.3	2030.6	2028.6	2029.5	2030.0	2029.1	2027.1	2026.2	2026.4
1°	2027.1	2028.0	2030.2	2031.8	2030.0	2030.4	2030.4	2028.9	2026.2	2024.4	2024.6
1.5°	2026.4	2028.0	2030.4	2032.4	2030.6	2031.1	2030.2	2028.2	2025.3	2022.6	2022.2
2°	2025.3	2027.8	2030.4	2032.4	2031.1	2031.1	2030.0	2027.1	2023.1	2020.4	2019.3
2.5°	2025.3	2026.9	2029.8	2032.0	2030.6	2030.4	2028.9	2025.5	2021.3	2017.5	2015.7
3°	2022.0	2025.5	2029.1	2031.3	2030.2	2029.8	2027.3	2023.1	2018.2	2014.2	2011.7
3.5°	2020.0	2024.0	2027.8	2030.2	2029.1	2028.0	2025.3	2020.6	2015.1	2010.4	2008.0
4°	2017.5	2022.2	2026.0	2028.6	2027.5	2026.4	2023.1	2017.3	2011.5	2006.4	2002.6
4.5°	2014.4	2020.0	2023.7	2026.6	2025.7	2024.2	2020.0	2013.7	2007.5	2001.3	1997.5
5°	2011.3	2017.1	2021.3	2024.4	2023.5	2021.5	2016.6	2009.7	2002.2	1996.0	1991.7
5.5°	2008.4	2013.7	2018.6	2021.5	2021.1	2018.6	2012.6	2005.1	1996.6	1990.2	1985.3
6°	2003.3	2010.0	2015.3	2018.4	2018.2	2015.1	2008.2	1999.5	1990.9	1984.0	1978.6
6.5°	1998.9	2006.2	2011.5	2015.1	2014.6	2011.1	2004.0	1993.5	1984.4	1977.3	1971.1
7°	1993.7	2001.5	2007.1	2011.3	2010.9	2007.1	1998.4	1987.5	1977.7	1970.0	1964.0
7.5°	1988.0	1996.4	2002.4	2006.6	2006.4	2002.4	1992.9	1980.4	1970.0	1962.0	1955.5
8°	1981.7	1990.9	1997.5	2001.5	2001.7	1997.5	1986.9	1973.3	1962.2	1953.7	1947.3
8.5°	1975.3	1984.9	1992.0	1996.2	1996.6	1991.7	1980.2	1965.7	1954.0	1945.3	1938.2
9°	1968.2	1978.2	1986.2	1990.4	1990.9	1985.7	1973.5	1957.7	1945.1	1936.4	1929.5
9.5°	1960.4	1971.5	1979.5	1984.2	1984.9	1979.5	1965.7	1949.1	1936.4	1926.8	1919.7
10°	1952.4	1964.2	1973.1	1977.5	1978.2	1972.4	1958.0	1940.4	1926.4	1917.3	1909.7
10.5°	1943.7	1956.2	1965.7	1970.4	1970.8	1965.1	1949.7	1930.8	1916.6	1907.3	1899.5
11°	1934.8	1948.2	1958.6	1962.8	1963.3	1956.8	1941.1	1921.3	1906.2	1896.8	1889.1
11.5°	1925.5	1939.5	1950.2	1954.6	1955.1	1948.6	1932.2	1911.3	1895.1	1886.2	1878.2
12°	1915.1	1930.4	1942.2	1946.0	1946.4	1939.5	1922.4	1900.8	1884.2	1875.1	1866.8
12.5°	1904.8	1920.8	1932.8	1937.3	1937.3	1930.2	1912.4	1890.2	1872.8	1863.5	1855.5
13°	1894.4	1911.3	1924.0	1928.4	1928.4	1920.6	1902.6	1879.3	1861.3	1851.7	1843.7
13.5°	1883.1	1900.6	1914.2	1918.2	1917.7	1909.9	1891.5	1867.7	1848.8	1839.7	1831.5
14°	1871.9	1890.2	1903.9	1908.2	1907.3	1899.5	1880.6	1855.9	1836.6	1827.0	1818.8
14.5°	1859.9	1878.8	1893.3	1897.7	1895.9	1887.9	1869.3	1843.5	1823.9	1813.7	1805.9
15°	1847.7	1867.7	1882.2	1886.8	1885.3	1876.6	1857.0	1831.0	1810.6	1800.1	1792.6
15.5°	1835.0	1855.7	1870.8	1875.9	1873.3	1864.8	1844.6	1818.2	1797.0	1787.0	1778.8
16°	1822.2	1843.3	1859.0	1863.7	1861.5	1852.6	1832.4	1805.0	1783.5	1773.0	1764.4
16.5°	1808.8	1830.8	1846.6	1851.7	1849.0	1839.7	1819.3	1791.5	1769.5	1758.4	1749.7
17°	1795.3	1817.9	1834.4	1839.5	1835.9	1826.8	1806.1	1777.7	1754.8	1743.2	1734.8
17.5°	1781.0	1804.8	1821.5	1827.0	1823.0	1813.5	1792.4	1763.0	1740.4	1728.1	1719.0
18°	1767.0	1791.0	1808.4	1813.7	1809.3	1799.9	1778.8	1748.8	1724.8	1712.6	1703.0
18.5°	1752.6	1777.0	1794.6	1800.4	1795.5	1786.1	1764.4	1733.7	1709.7	1696.6	1687.2
19°	1737.7	1762.8	1781.3	1786.8	1781.7	1772.1	1749.7	1718.6	1694.3	1681.0	1670.1
19.5°	1722.6	1748.1	1766.8	1772.8	1767.7	1757.5	1734.8	1703.0	1679.2	1664.1	1653.0
20°	1707.5	1733.5	1752.8	1758.6	1753.2	1742.4	1720.1	1687.9	1663.2	1647.4	1635.9
20.5°	1691.7	1717.9	1738.1	1743.2	1737.9	1727.7	1704.6	1671.9	1647.0	1630.6	1618.8
21°	1675.9	1702.4	1723.2	1728.6	1723.0	1712.4	1688.6	1656.1	1631.0	1613.9	1601.7



TEST NUMBER: P776109

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1627.2	1653.9	1676.3	1681.5	1678.6	1664.6	1640.1	1608.6	1580.3	1561.4	1545.9
23°	1610.6	1637.0	1659.9	1665.2	1662.8	1647.7	1624.1	1591.4	1562.3	1543.2	1527.2
23.5°	1593.7	1619.7	1643.2	1648.6	1647.0	1630.8	1607.9	1574.3	1544.8	1524.5	1507.9
24°	1576.1	1602.6	1625.7	1631.4	1631.2	1613.9	1590.5	1557.0	1526.8	1506.1	1488.8
24.5°	1558.3	1585.0	1608.3	1614.3	1615.4	1599.7	1572.5	1539.4	1509.4	1487.4	1469.2
25°	1540.3	1567.2	1590.5	1596.8	1598.1	1582.1	1554.3	1521.9	1491.0	1468.7	1450.3
25.5°	1522.3	1548.3	1572.5	1578.5	1580.8	1564.1	1536.1	1503.6	1472.7	1449.6	1430.7
26°	1504.3	1530.3	1553.9	1560.8	1563.7	1546.5	1517.6	1485.9	1454.5	1430.7	1411.4
26.5°	1485.2	1511.9	1534.8	1542.3	1546.3	1527.9	1498.5	1467.4	1436.1	1411.6	1391.6
27°	1466.5	1492.3	1515.9	1523.6	1528.8	1509.9	1479.9	1449.2	1416.7	1392.5	1372.1
27.5°	1447.0	1472.5	1496.1	1504.8	1510.3	1491.0	1461.0	1430.5	1398.3	1372.9	1351.8
28°	1427.6	1452.7	1475.6	1485.2	1491.9	1472.3	1441.9	1411.4	1379.0	1352.3	1330.9
28.5°	1407.8	1432.7	1455.2	1465.6	1473.6	1453.2	1422.5	1392.5	1359.6	1331.4	1309.4
29°	1387.6	1412.3	1434.3	1445.6	1455.0	1434.1	1402.5	1372.7	1339.4	1310.7	1287.8
29.5°	1366.9	1391.0	1412.7	1425.4	1435.4	1415.0	1382.5	1352.1	1318.3	1289.2	1264.9
30°	1346.1	1369.4	1391.2	1404.7	1416.1	1395.4	1362.1	1331.4	1296.7	1267.4	1242.3
30.5°	1324.7	1347.6	1369.4	1383.0	1396.3	1375.2	1341.4	1309.8	1275.4	1244.5	1219.1
31°	1302.9	1325.4	1346.3	1362.1	1376.9	1354.9	1320.0	1288.3	1252.5	1221.6	1195.6
31.5°	1280.5	1302.7	1324.3	1340.1	1356.1	1334.5	1298.5	1266.0	1229.1	1198.5	1171.8
32°	1257.1	1279.2	1300.9	1317.6	1335.4	1313.6	1276.9	1243.4	1205.1	1174.7	1147.3
32.5°	1234.3	1256.7	1277.8	1294.7	1314.5	1292.0	1254.7	1220.3	1180.9	1150.5	1123.3
33°	1210.2	1232.9	1254.9	1272.3	1293.2	1270.3	1232.3	1196.0	1156.0	1125.3	1099.3
33.5°	1185.6	1209.1	1232.5	1249.4	1270.7	1248.3	1209.6	1171.6	1130.5	1100.2	1075.1
34°	1159.6	1184.7	1208.7	1226.3	1248.7	1225.6	1186.5	1146.9	1104.7	1075.3	1050.4
34.5°	1133.1	1160.7	1184.9	1202.9	1224.7	1201.8	1163.6	1121.6	1077.3	1048.7	1025.1
35°	1105.6	1135.6	1160.7	1178.5	1201.1	1178.2	1140.0	1095.6	1050.7	1022.0	1000.0
35.5°	1078.0	1110.5	1137.6	1154.2	1176.2	1154.5	1116.5	1069.8	1024.2	995.5	974.2
36°	1048.4	1085.1	1112.2	1130.0	1151.3	1130.2	1092.2	1043.8	997.5	968.6	947.5
36.5°	1018.9	1058.2	1088.4	1105.8	1124.7	1105.1	1067.1	1017.3	970.4	941.3	920.0
37°	988.4	1030.9	1063.1	1080.2	1097.6	1079.1	1041.3	991.1	942.4	913.7	891.1
37.5°	958.2	1002.4	1037.1	1054.0	1069.6	1052.4	1015.3	964.0	916.0	885.7	862.8
38°	926.9	973.3	1010.0	1025.8	1040.7	1024.4	988.2	937.1	888.2	857.1	833.1
38.5°	897.1	944.2	982.9	999.3	1010.2	996.2	960.6	910.0	860.6	828.2	803.5
39°	866.0	914.0	954.2	970.4	980.2	967.1	932.0	882.6	832.4	799.1	773.9
39.5°	835.9	883.7	925.1	941.5	949.3	936.9	902.9	854.4	804.4	769.7	743.3
40°	805.9	851.7	894.6	911.5	918.2	905.1	873.1	825.5	774.6	739.5	712.6
40.5°	776.2	820.6	865.3	880.8	887.5	873.3	843.3	796.6	745.5	709.7	681.3
41°	745.9	791.3	835.3	849.5	856.8	840.8	811.3	767.5	715.7	680.1	650.1
41.5°	716.1	760.8	804.6	818.4	827.3	808.8	779.9	738.8	685.9	651.9	619.5
42°	686.1	730.2	773.0	799.9	797.1	776.6	748.2	708.4	655.9	622.4	589.2
42.5°	656.1	699.7	741.5	766.2	767.9	744.6	716.8	678.4	628.1	593.7	560.1
43°	625.7	669.0	709.9	731.7	738.4	713.0	685.7	647.7	599.5	565.2	532.1
43.5°	595.9	639.5	678.6	697.5	707.0	682.1	654.6	617.9	572.6	537.2	504.5



TEST NUMBER: P776109

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	510.1	550.8	583.7	601.9	615.2	590.6	562.1	528.8	490.5	455.4	426.5
45.5°	483.0	521.2	552.6	572.3	585.0	559.9	531.9	501.0	463.7	429.4	402.1
46°	455.0	492.5	521.7	542.8	555.9	530.6	502.5	472.3	437.4	403.6	378.3
46.5°	427.4	464.1	491.0	513.4	527.7	501.7	473.0	444.5	410.8	379.9	355.4
47°	400.5	435.9	461.7	483.9	499.4	473.4	444.5	416.3	385.0	355.2	333.0
47.5°	374.3	408.1	433.4	455.2	471.4	445.9	416.8	389.6	360.1	332.5	311.8
48°	348.7	381.2	405.6	427.0	443.9	419.9	389.9	362.7	336.1	310.3	291.6
48.5°	324.3	355.2	378.3	399.6	416.8	394.7	364.1	337.2	312.5	289.6	272.5
49°	300.3	329.6	352.5	372.7	389.9	369.6	338.7	312.1	288.9	268.9	254.1
49.5°	277.2	304.7	327.2	346.7	363.2	345.4	315.4	288.3	266.3	249.4	235.8
50°	255.4	280.1	302.7	320.5	338.1	321.2	292.3	265.6	244.3	230.9	219.2
50.5°	233.8	256.1	278.7	295.6	313.4	298.3	270.5	244.1	223.6	214.7	203.8
51°	213.6	233.8	256.5	271.6	289.4	275.8	249.8	223.8	205.6	198.7	188.5
51.5°	193.6	212.7	234.7	248.9	266.9	254.5	230.0	206.7	187.8	182.5	173.4
52°	174.9	192.9	214.3	227.4	245.2	233.6	213.6	189.6	169.8	166.5	158.0
52.5°	157.1	173.8	194.3	206.3	224.0	215.8	196.9	172.3	152.0	150.5	143.8
53°	140.7	156.5	175.8	186.5	205.2	197.8	180.3	155.1	138.0	136.7	131.1
53.5°	125.1	140.5	157.8	168.0	186.3	180.0	163.6	140.7	125.4	124.2	118.7
54°	111.4	125.6	141.6	151.1	167.1	162.0	146.9	127.6	114.0	112.5	107.4
54.5°	98.7	111.6	125.6	135.1	148.5	144.3	133.4	115.6	103.8	101.1	95.8
55°	87.1	99.1	111.4	120.7	132.5	130.5	120.5	104.9	94.2	90.9	85.4
55.5°	76.0	86.9	97.8	107.1	118.0	116.2	108.2	94.2	84.9	80.7	75.1
56°	67.3	75.8	85.8	94.5	104.7	103.8	96.5	84.7	76.0	71.3	65.8
56.5°	58.5	66.9	75.3	82.5	92.5	91.8	85.4	75.6	67.6	62.5	56.9
57°	49.8	58.2	66.2	72.9	81.1	80.7	75.1	66.7	59.3	54.2	48.9
57.5°	41.1	49.3	56.9	63.6	70.2	70.0	65.3	58.2	51.8	46.7	41.3
58°	32.9	40.5	47.8	54.0	60.5	60.2	56.5	50.5	44.5	38.9	33.1
58.5°	24.9	31.8	38.7	44.7	51.6	51.3	48.2	42.9	36.7	33.1	28.2
59°	18.2	24.0	30.0	35.3	42.9	43.3	40.0	34.7	31.1	27.3	23.1
59.5°	13.3	17.6	22.0	26.4	36.2	37.3	33.8	29.3	25.6	21.3	18.2
60°	10.0	12.7	16.0	19.3	29.6	31.3	27.8	24.0	19.8	15.6	13.3
60.5°	7.3	9.6	11.6	13.8	22.9	25.3	21.6	18.7	14.2	9.8	8.2
61°	6.2	8.2	8.7	10.2	16.2	19.3	15.3	13.3	8.9	7.6	6.4
61.5°	5.1	6.9	7.3	7.6	9.6	13.3	9.3	8.0	6.7	6.0	5.1
62°	4.0	5.6	6.0	6.4	7.1	7.3	7.1	6.0	5.1	4.7	4.2
62.5°	2.9	4.2	4.7	5.3	5.6	5.6	5.3	4.9	4.0	3.8	3.3
63°	2.4	3.1	3.6	4.2	4.4	4.4	4.2	3.8	3.3	3.1	2.9
63.5°	2.0	2.4	2.9	3.1	3.6	3.6	3.3	3.1	2.7	2.7	2.4
64°	1.6	2.0	2.4	2.7	2.9	2.9	2.9	2.7	2.2	2.2	2.0
64.5°	1.3	1.8	2.0	2.2	2.4	2.4	2.2	2.2	1.8	1.8	1.8
65°	1.1	1.6	1.8	1.8	2.0	2.0	2.0	1.8	1.6	1.6	1.6
65.5°	1.1	1.3	1.3	1.6	1.8	1.6	1.6	1.6	1.3	1.3	1.3
66°	0.9	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.1



TEST NUMBER: P776109

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.7
68°	0.4	0.7	0.7	0.7	0.9	0.7	0.9	0.7	0.7	0.7	0.7
68.5°	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
69°	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4
69.5°	0.4	0.4	0.4	0.4	0.7	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: P776109

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQH-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	0.0	0.0



TEST NUMBER: P776109

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0
0.5°	2027.3	2024.9	2026.2	2027.3	2028.0	2027.5
1°	2025.1	2022.2	2023.7	2025.5	2026.6	2027.1
1.5°	2022.2	2019.1	2021.1	2023.1	2025.5	2026.4
2°	2018.6	2015.3	2017.5	2020.4	2023.1	2025.3
2.5°	2014.9	2011.1	2013.3	2017.3	2020.9	2025.3
3°	2010.4	2006.2	2009.1	2013.3	2018.6	2022.0
3.5°	2005.5	2000.9	2004.0	2009.5	2015.5	2020.0
4°	2000.4	1995.3	1998.6	2005.1	2012.4	2017.5
4.5°	1994.6	1988.9	1992.9	2000.2	2008.4	2014.4
5°	1988.2	1982.0	1986.4	1994.6	2004.2	2011.3
5.5°	1981.3	1975.1	1979.5	1988.9	1999.3	2008.4
6°	1974.0	1967.5	1972.6	1982.9	1994.4	2003.3
6.5°	1966.2	1959.1	1964.8	1976.0	1988.9	1998.9
7°	1958.2	1951.1	1956.8	1968.8	1983.1	1993.7
7.5°	1949.5	1942.0	1948.4	1961.7	1976.6	1988.0
8°	1940.8	1932.4	1939.7	1953.7	1969.7	1981.7
8.5°	1931.5	1922.6	1930.4	1945.3	1962.0	1975.3
9°	1922.2	1912.8	1920.6	1936.6	1954.2	1968.2
9.5°	1911.7	1902.4	1910.8	1927.3	1945.7	1960.4
10°	1901.5	1891.9	1900.4	1918.0	1937.1	1952.4
10.5°	1890.6	1880.4	1889.9	1907.9	1928.0	1943.7
11°	1879.5	1868.8	1878.8	1897.3	1918.4	1934.8
11.5°	1868.2	1857.3	1867.3	1886.4	1908.4	1925.5
12°	1856.2	1844.8	1855.5	1875.3	1897.7	1915.1
12.5°	1844.2	1832.6	1843.5	1863.5	1886.8	1904.8
13°	1831.5	1819.7	1830.8	1851.7	1875.9	1894.4
13.5°	1818.6	1806.6	1817.7	1839.3	1864.2	1883.1
14°	1805.0	1793.3	1804.4	1827.0	1852.4	1871.9
14.5°	1791.3	1779.5	1790.8	1814.2	1839.9	1859.9
15°	1777.0	1765.3	1776.8	1800.8	1827.9	1847.7
15.5°	1763.3	1750.4	1762.4	1787.0	1814.4	1835.0
16°	1748.4	1735.9	1747.9	1773.5	1801.3	1822.2
16.5°	1733.5	1720.4	1732.8	1759.7	1787.9	1808.8
17°	1717.9	1705.2	1717.7	1745.2	1774.1	1795.3
17.5°	1702.8	1689.2	1702.1	1729.9	1759.3	1781.0
18°	1687.2	1673.0	1686.6	1714.8	1744.6	1767.0
18.5°	1671.0	1656.6	1670.8	1699.2	1729.7	1752.6
19°	1655.0	1640.6	1654.1	1683.2	1714.1	1737.7
19.5°	1638.8	1623.9	1638.1	1667.5	1698.6	1722.6
20°	1622.6	1606.6	1621.9	1650.8	1682.6	1707.5
20.5°	1606.6	1589.7	1605.2	1633.9	1665.9	1691.7
21°	1589.2	1572.5	1588.3	1617.0	1649.2	1675.9

TEST NUMBER: P776109

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1536.1	1520.5	1536.1	1563.4	1597.0	1627.2
23°	1517.9	1502.5	1517.9	1545.2	1579.0	1610.6
23.5°	1499.9	1484.7	1500.5	1527.0	1560.8	1593.7
24°	1481.2	1466.5	1481.9	1508.3	1542.1	1576.1
24.5°	1462.5	1448.3	1463.9	1489.2	1523.9	1558.3
25°	1443.9	1429.4	1445.0	1470.1	1505.2	1540.3
25.5°	1424.7	1410.7	1426.3	1451.0	1486.1	1522.3
26°	1406.1	1391.8	1406.5	1430.7	1467.2	1504.3
26.5°	1386.5	1372.3	1386.5	1411.4	1447.9	1485.2
27°	1366.5	1352.3	1366.3	1390.3	1428.3	1466.5
27.5°	1346.1	1332.3	1345.4	1369.6	1408.3	1447.0
28°	1325.2	1310.3	1323.4	1348.5	1387.8	1427.6
28.5°	1303.4	1288.5	1302.5	1327.2	1367.2	1407.8
29°	1281.6	1266.0	1280.0	1305.6	1346.3	1387.6
29.5°	1259.4	1243.4	1257.1	1283.2	1324.9	1366.9
30°	1236.3	1219.6	1233.8	1260.9	1303.6	1346.1
30.5°	1212.7	1194.2	1210.2	1238.0	1281.2	1324.7
31°	1188.7	1168.9	1185.4	1215.1	1258.7	1302.9
31.5°	1164.2	1143.1	1160.5	1192.5	1236.0	1280.5
32°	1139.6	1116.7	1134.5	1168.0	1213.1	1257.1
32.5°	1113.8	1090.4	1108.7	1144.7	1189.8	1234.3
33°	1087.6	1063.1	1082.2	1120.7	1165.4	1210.2
33.5°	1060.9	1036.2	1055.8	1096.4	1141.1	1185.6
34°	1034.0	1009.3	1029.5	1071.3	1116.0	1159.6
34.5°	1006.4	982.2	1002.7	1044.9	1090.9	1133.1
35°	979.3	955.5	975.3	1018.4	1064.2	1105.6
35.5°	952.0	928.6	949.1	991.3	1037.8	1078.0
36°	924.0	902.2	922.4	963.8	1009.1	1048.4
36.5°	896.2	875.3	895.5	935.5	980.0	1018.9
37°	868.0	848.0	868.2	904.4	950.0	988.4
37.5°	839.5	819.9	840.4	875.3	920.6	958.2
38°	810.8	792.4	811.7	844.4	888.6	926.9
38.5°	781.3	762.2	781.9	814.6	857.1	897.1
39°	752.6	731.9	752.2	797.5	824.4	866.0
39.5°	723.3	701.5	722.4	762.8	787.5	835.9
40°	693.7	671.2	692.4	727.9	756.8	805.9
40.5°	664.4	642.1	662.6	693.3	726.1	776.2
41°	635.2	614.1	631.5	658.6	695.7	745.9
41.5°	607.5	586.3	601.5	627.9	665.0	716.1
42°	578.1	559.4	572.1	597.0	634.1	686.1
42.5°	549.9	532.1	543.9	566.6	603.9	656.1
43°	522.1	505.2	515.9	536.3	573.0	625.7
43.5°	493.9	478.1	487.2	506.8	543.2	595.9



TEST NUMBER: P776109

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	415.4	398.3	404.7	421.2	459.0	510.1
45.5°	390.3	373.4	377.6	394.5	433.0	483.0
46°	365.9	349.0	351.9	369.0	407.2	455.0
46.5°	343.2	324.3	326.5	344.3	382.7	427.4
47°	319.6	301.0	302.5	320.3	357.9	400.5
47.5°	298.1	278.1	279.6	297.6	334.7	374.3
48°	277.4	256.1	257.4	275.8	311.2	348.7
48.5°	257.4	234.5	236.7	255.2	288.7	324.3
49°	238.5	214.7	216.9	235.6	266.5	300.3
49.5°	220.5	195.6	198.3	216.7	245.8	277.2
50°	204.5	177.8	181.4	199.2	225.2	255.4
50.5°	188.7	161.8	165.1	182.3	206.0	233.8
51°	172.7	147.4	150.7	166.7	188.0	213.6
51.5°	156.9	134.2	137.1	151.6	170.9	193.6
52°	143.4	122.5	124.9	138.0	154.9	174.9
52.5°	130.2	111.8	113.4	125.1	139.8	157.1
53°	117.8	101.6	103.1	112.7	125.4	140.7
53.5°	106.7	92.2	93.1	100.9	112.0	125.1
54°	96.0	83.4	83.8	90.2	99.8	111.4
54.5°	85.8	75.3	75.8	80.0	88.5	98.7
55°	76.5	67.6	67.8	71.6	77.1	87.1
55.5°	67.1	59.8	60.0	63.1	68.5	76.0
56°	58.7	52.0	52.0	54.7	59.8	67.3
56.5°	50.9	44.2	44.0	46.5	51.1	58.5
57°	43.6	36.2	36.0	38.0	42.5	49.8
57.5°	35.6	28.2	28.2	29.8	34.2	41.1
58°	30.2	21.6	21.3	22.7	26.2	32.9
58.5°	24.9	16.2	15.8	16.7	19.6	24.9
59°	19.6	12.0	11.8	12.4	14.4	18.2
59.5°	14.2	9.1	8.9	9.3	10.7	13.3
60°	8.9	7.8	7.6	8.0	8.0	10.0
60.5°	6.9	6.2	6.2	6.7	6.9	7.3
61°	5.6	4.9	4.7	5.6	5.6	6.2
61.5°	4.4	3.6	3.3	4.2	4.4	5.1
62°	3.6	2.9	2.9	2.9	3.3	4.0
62.5°	2.9	2.4	2.2	2.4	2.7	2.9
63°	2.4	2.0	2.0	2.0	2.2	2.4
63.5°	2.0	1.8	1.6	1.6	1.8	2.0
64°	1.8	1.6	1.3	1.3	1.6	1.6
64.5°	1.6	1.3	1.1	1.1	1.3	1.3
65°	1.3	1.1	0.9	1.1	1.1	1.1
65.5°	1.1	0.9	0.9	0.9	0.9	1.1
66°	0.9	0.9	0.7	0.7	0.9	0.9



TEST NUMBER: P776109

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.7	0.7	0.4	0.4	0.7	0.7
68°	0.7	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: P776109

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-2500lm-5000K

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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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21.5°	1659.7	1686.3	1708.1	1713.2	1708.4	1696.8	1672.6	1640.3	1615.0	1597.2	1583.2
22°	1643.7	1670.3	1692.1	1697.5	1693.2	1681.5	1656.3	1624.3	1597.4	1579.4	1565.0



44°	566.3	609.7	647.0	662.8	676.1	651.7	623.0	587.2	544.1	509.0	477.9
44.5°	537.9	580.3	615.2	632.4	645.5	621.2	593.0	557.9	518.1	482.5	452.5



66.5°	0.7	0.9	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9
67°	0.7	0.9	0.9	0.9	1.1	1.1	1.1	0.9	0.9	0.9	0.9



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°	1571.4	1555.4	1571.0	1599.2	1631.9	1659.7
22°	1553.9	1537.9	1553.7	1581.7	1614.6	1643.7



44°	467.2	450.8	459.2	477.7	514.8	566.3
44.5°	441.4	424.1	432.1	449.2	486.8	537.9

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66.5°	0.9	0.7	0.7	0.7	0.7	0.7
67°	0.7	0.7	0.7	0.7	0.7	0.7

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Scaled Data Report



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)