

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: P776182

Luminaire Tested: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776182
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-HCD8TRH-2500lm-3500K
Description: 8 INCH ROUND MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

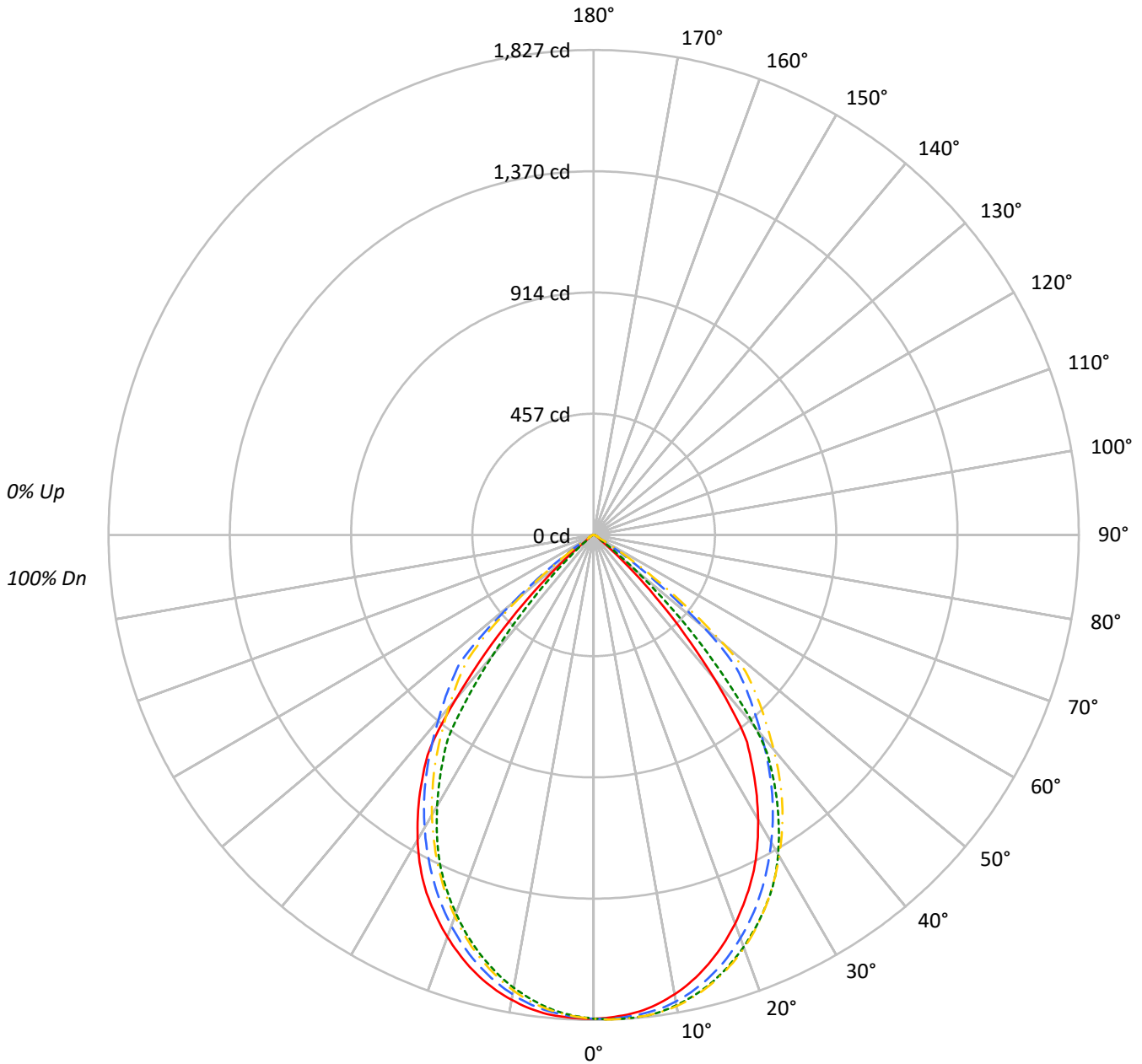
Lumens per Lamp: N/A
Luminaire Lumens: 2526.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776182
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776182

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84																
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76																
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69			69																
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63																
6	83	72	66	61	81	72	65	60	70	64	60	68	63	60	67	63	59	57			57																
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53			53																
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48			48																
9	69	58	51	47	68	57	51	47	56	51	46	56	50	46	55	50	46	45			45																
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	55641	55641	55641	55641
5°	55364	55915	55639	55002
10°	54463	55771	55142	53710
15°	52882	55006	54055	51814
20°	50619	53660	52347	49277
25°	47724	51783	50146	46093
30°	43658	48977	46725	41564
35°	38493	44691	41989	36160
40°	28197	37758	32171	23558
45°	14201	22991	17763	10393
50°	4336	9537	5833	2978
55°	1602	1799	1602	1389
60°	1227	1349	1227	1056
65°	961	1033	939	816
70°	759	830	741	652
75°	625	684	590	507
80°	492	580	492	404
85°	350	525	350	280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 37788 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	6.8
10°-20°	476.2	18.8
20°-30°	668.2	26.5
30°-40°	686.2	27.2
40°-50°	419.6	16.6
50°-60°	81.5	3.2
60°-70°	14.8	0.6
70°-80°	6.6	0.3
80°-90°	1.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1315.9	52.1
0°-40°	2002.2	79.3
0°-60°	2503.2	99.1
0°-90°	2526.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1822	1822	1822	1822	1822	
5°	1806	1824	1816	1795	1806	171
15°	1673	1740	1710	1639	1673	470
25°	1417	1537	1489	1368	1417	648
35°	1033	1199	1127	970	1033	631
45°	329	532	411	241	329	265
55°	30	34	30	26	30	33
65°	13	14	13	11	13	13
75°	5	6	5	4	5	6
85°	1	2	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1822.5	1822.5	1822.5	1822.5	1822.5	1822.5	1822.5	1822.5	1822.5	1822.5	1822.5
0.5°	1822.0	1821.8	1823.0	1824.0	1823.3	1824.0	1824.5	1824.5	1822.8	1821.5	1821.5
1°	1821.0	1821.5	1823.0	1824.8	1824.3	1825.0	1825.5	1825.0	1822.8	1820.8	1820.5
1.5°	1820.0	1821.0	1823.0	1825.3	1825.0	1826.0	1826.3	1825.3	1822.5	1820.0	1819.3
2°	1818.8	1820.3	1823.0	1825.5	1825.8	1826.5	1826.8	1825.3	1822.0	1819.0	1817.8
2.5°	1817.3	1819.3	1822.5	1825.5	1826.0	1827.0	1826.8	1825.3	1821.5	1817.8	1816.3
3°	1815.5	1818.0	1821.8	1825.0	1826.0	1827.0	1826.8	1825.0	1820.5	1816.5	1814.3
3.5°	1813.5	1816.5	1820.8	1824.3	1826.0	1827.0	1826.5	1824.3	1819.5	1814.8	1812.2
4°	1811.5	1815.0	1819.5	1823.5	1825.5	1826.5	1826.0	1823.8	1818.5	1813.2	1810.0
4.5°	1809.2	1813.2	1818.0	1822.5	1825.0	1826.0	1825.3	1823.0	1817.3	1811.5	1807.2
5°	1806.5	1811.2	1816.5	1821.5	1824.5	1825.3	1824.5	1821.8	1815.5	1809.2	1804.7
5.5°	1803.5	1808.7	1814.5	1820.3	1823.5	1824.5	1823.5	1820.3	1813.7	1807.0	1801.7
6°	1800.0	1806.0	1812.7	1818.8	1822.5	1823.5	1822.3	1818.8	1811.2	1804.2	1798.2
6.5°	1796.0	1802.5	1810.5	1817.0	1821.0	1822.3	1821.0	1816.5	1808.2	1801.0	1794.4
7°	1791.4	1799.0	1808.0	1814.8	1819.0	1820.5	1819.5	1814.0	1805.0	1797.5	1790.4
7.5°	1786.7	1794.7	1805.2	1812.0	1816.5	1818.5	1817.5	1810.7	1801.5	1793.2	1785.9
8°	1781.2	1790.2	1802.2	1809.0	1813.7	1816.0	1815.3	1807.7	1797.7	1789.2	1780.9
8.5°	1775.4	1784.9	1798.5	1805.7	1810.5	1813.0	1812.5	1804.2	1793.2	1784.4	1775.6
9°	1769.6	1779.9	1794.4	1802.0	1807.0	1810.0	1809.5	1800.2	1788.7	1779.2	1769.9
9.5°	1763.1	1774.1	1789.9	1798.0	1803.2	1806.2	1806.0	1796.0	1783.7	1773.9	1763.9
10°	1756.8	1768.6	1784.9	1793.7	1799.0	1802.5	1802.0	1791.4	1778.7	1768.4	1757.3
10.5°	1750.1	1762.4	1779.7	1788.9	1794.2	1798.5	1798.0	1786.9	1773.4	1762.4	1750.6
11°	1742.8	1756.1	1773.9	1783.9	1789.4	1793.7	1793.4	1781.9	1767.6	1756.3	1743.8
11.5°	1735.3	1749.3	1767.9	1778.4	1784.4	1788.7	1788.4	1776.6	1761.6	1749.6	1736.3
12°	1727.3	1742.6	1761.4	1772.9	1779.2	1783.7	1782.9	1771.1	1755.3	1742.8	1728.8
12.5°	1719.2	1735.3	1754.8	1766.9	1773.4	1778.4	1777.1	1765.4	1748.6	1735.5	1720.7
13°	1710.7	1727.8	1747.8	1760.9	1767.6	1772.9	1771.4	1759.1	1741.8	1728.0	1712.7
13.5°	1701.7	1720.0	1740.3	1754.3	1761.1	1766.9	1765.1	1752.8	1734.3	1720.2	1704.4
14°	1692.4	1711.7	1732.8	1747.6	1754.6	1760.6	1758.3	1746.1	1726.8	1712.2	1695.4
14.5°	1682.6	1702.7	1724.8	1740.3	1747.6	1753.8	1751.6	1738.8	1718.5	1703.4	1686.6
15°	1673.1	1693.9	1716.5	1732.5	1740.3	1746.8	1744.3	1731.5	1710.2	1694.7	1677.4
15.5°	1662.6	1684.6	1708.0	1724.5	1732.8	1739.3	1736.8	1723.8	1701.7	1685.6	1667.8
16°	1652.1	1674.9	1699.2	1716.5	1725.0	1731.8	1729.0	1715.5	1692.7	1676.1	1657.8
16.5°	1641.5	1665.1	1689.9	1708.2	1716.7	1724.0	1721.2	1706.7	1683.4	1666.3	1647.5
17°	1630.5	1655.1	1680.4	1699.4	1708.2	1715.7	1712.7	1698.4	1674.1	1656.1	1636.8
17.5°	1619.0	1644.5	1670.4	1689.9	1699.4	1707.0	1703.9	1689.2	1664.1	1645.8	1626.0
18°	1607.4	1633.5	1660.3	1680.4	1690.4	1698.2	1695.2	1679.6	1654.1	1635.3	1615.0
18.5°	1595.4	1622.2	1649.8	1670.6	1680.9	1688.9	1685.6	1670.1	1643.5	1624.2	1603.2
19°	1583.1	1610.9	1639.0	1660.6	1671.4	1679.1	1675.9	1660.1	1633.0	1613.2	1591.6
19.5°	1570.8	1599.2	1628.0	1650.0	1661.6	1669.4	1666.1	1649.8	1622.2	1601.7	1579.6
20°	1558.0	1587.1	1616.7	1639.8	1651.6	1659.1	1655.8	1639.3	1611.2	1590.1	1567.3
20.5°	1544.8	1574.3	1605.2	1628.7	1641.3	1649.0	1645.3	1628.2	1599.7	1577.8	1554.8
21°	1531.2	1561.6	1593.4	1617.7	1630.5	1638.3	1634.5	1617.2	1588.4	1565.8	1542.0



TEST NUMBER: P776182

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1489.6	1521.7	1556.0	1582.9	1597.7	1605.2	1600.4	1582.9	1551.8	1528.0	1501.9
23°	1475.3	1507.4	1543.3	1570.8	1585.9	1593.4	1588.6	1570.8	1539.5	1514.9	1488.1
23.5°	1461.0	1493.6	1530.2	1558.5	1573.8	1581.9	1576.3	1558.3	1527.2	1501.4	1474.1
24°	1446.5	1479.1	1516.4	1546.0	1562.1	1569.6	1563.8	1545.8	1514.7	1487.9	1460.0
24.5°	1431.7	1464.8	1502.6	1533.2	1549.8	1557.0	1551.0	1533.2	1501.9	1474.1	1445.5
25°	1416.7	1450.0	1488.6	1519.9	1537.2	1544.3	1538.5	1520.2	1488.6	1460.0	1430.4
25.5°	1400.6	1435.2	1474.6	1506.9	1525.0	1531.7	1525.2	1507.2	1474.8	1446.0	1415.7
26°	1384.1	1420.4	1460.3	1493.4	1512.4	1518.7	1511.9	1494.1	1460.3	1431.9	1400.6
26.5°	1367.3	1405.4	1445.5	1480.1	1499.1	1505.1	1498.1	1480.8	1445.0	1417.2	1385.3
27°	1350.0	1389.6	1430.7	1466.3	1485.1	1491.6	1484.6	1467.0	1429.2	1402.1	1369.8
27.5°	1332.2	1373.0	1415.4	1452.0	1470.6	1478.3	1470.6	1452.8	1412.9	1386.6	1353.7
28°	1314.1	1356.0	1400.1	1437.5	1455.3	1464.5	1456.3	1437.5	1396.3	1369.8	1337.9
28.5°	1295.8	1338.9	1384.8	1422.9	1439.5	1450.0	1441.7	1421.9	1379.3	1353.2	1322.1
29°	1276.5	1321.1	1368.8	1407.6	1423.4	1435.0	1427.4	1406.1	1362.0	1336.4	1306.1
29.5°	1257.7	1303.8	1353.2	1391.8	1406.6	1419.4	1412.4	1389.8	1343.7	1319.1	1289.8
30°	1238.4	1285.5	1337.2	1375.0	1389.3	1403.6	1397.4	1372.5	1325.4	1301.3	1273.0
30.5°	1218.6	1267.2	1321.4	1358.2	1371.5	1386.8	1382.1	1355.2	1306.9	1283.3	1256.7
31°	1198.8	1248.2	1304.8	1340.9	1353.5	1370.5	1367.0	1337.7	1288.1	1265.0	1240.2
31.5°	1178.7	1229.9	1288.8	1323.4	1334.9	1353.0	1351.2	1319.9	1269.0	1246.4	1223.4
32°	1158.9	1210.3	1272.0	1305.3	1316.4	1335.4	1335.7	1301.8	1249.4	1227.9	1206.3
32.5°	1138.6	1191.8	1255.5	1286.5	1297.6	1317.4	1319.9	1283.3	1230.1	1209.6	1189.3
33°	1117.8	1172.5	1238.7	1268.2	1278.3	1299.6	1304.1	1264.2	1210.1	1190.3	1171.7
33.5°	1097.0	1152.9	1221.9	1248.7	1258.5	1280.8	1288.1	1245.2	1189.8	1171.5	1153.7
34°	1076.2	1133.1	1203.6	1230.4	1239.2	1262.2	1271.8	1226.1	1169.2	1152.7	1135.6
34.5°	1054.7	1113.8	1186.5	1210.8	1219.1	1243.7	1255.2	1206.8	1147.7	1133.4	1116.6
35°	1032.8	1093.5	1168.5	1191.5	1199.1	1224.9	1238.4	1187.3	1126.6	1113.6	1098.0
35.5°	1012.3	1073.5	1150.9	1171.7	1178.0	1205.6	1221.1	1167.5	1105.5	1094.0	1079.0
36°	990.2	1053.4	1132.4	1153.2	1157.2	1186.8	1203.3	1147.4	1084.7	1074.2	1060.2
36.5°	970.9	1032.8	1114.1	1133.4	1136.1	1167.5	1185.3	1127.1	1062.7	1054.2	1041.4
37°	939.3	1012.3	1095.3	1113.6	1114.6	1147.2	1167.0	1106.8	1038.6	1033.8	1021.8
37.5°	907.5	991.7	1077.0	1093.3	1093.3	1127.6	1148.4	1085.7	1008.5	1013.8	1002.8
38°	865.9	971.2	1057.9	1073.2	1070.5	1107.3	1129.9	1065.2	974.4	993.5	984.0
38.5°	827.5	950.9	1039.4	1052.4	1047.4	1087.0	1111.1	1044.9	935.8	972.9	965.7
39°	788.7	930.1	1020.1	1032.8	1017.1	1066.9	1092.0	1023.8	894.2	949.9	946.6
39.5°	749.3	897.5	1001.5	1012.0	985.2	1046.1	1073.0	1003.5	850.1	921.8	928.1
40°	707.5	860.9	982.7	991.7	947.4	1025.8	1053.9	973.9	807.2	889.7	910.0
40.5°	666.3	822.5	964.2	971.4	905.2	1005.3	1035.1	943.4	766.1	853.1	892.7
41°	624.5	784.9	945.6	943.9	862.4	976.7	1015.8	908.3	724.7	814.7	875.4
41.5°	583.6	747.6	927.6	917.5	819.3	949.9	997.8	869.9	685.1	775.1	858.6
42°	544.8	709.5	909.8	884.4	776.6	915.3	979.2	830.5	643.5	735.3	841.3
42.5°	508.4	669.6	892.2	849.1	735.0	878.4	961.4	788.7	603.7	697.2	824.8
43°	472.1	629.5	874.9	811.2	694.9	838.8	944.1	750.1	562.0	659.6	807.5
43.5°	434.9	589.9	857.1	771.6	654.3	797.9	926.6	711.2	522.7	622.5	790.7



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CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	328.9	479.3	806.0	656.1	532.5	679.4	875.2	596.4	411.4	510.2	740.0
45.5°	296.8	443.5	788.9	619.7	493.9	641.0	857.9	557.5	375.8	473.8	723.0
46°	266.2	408.4	771.6	583.1	456.8	602.9	840.1	519.7	341.4	438.2	706.7
46.5°	235.6	373.8	754.8	546.0	420.2	564.1	823.3	482.6	307.8	404.9	679.6
47°	207.3	339.2	734.5	508.7	384.3	524.7	805.7	446.2	275.5	370.8	647.5
47.5°	181.2	307.3	708.7	472.3	349.0	487.6	787.7	411.4	247.9	338.4	609.9
48°	157.4	276.5	678.4	437.2	315.6	451.5	769.6	377.5	220.6	306.3	568.3
48.5°	136.9	246.9	645.3	403.4	283.3	416.1	744.8	343.9	193.3	276.3	527.0
49°	119.1	218.6	613.7	370.8	255.7	381.3	713.0	310.9	166.0	248.9	484.6
49.5°	104.0	191.8	576.6	338.2	228.4	347.5	679.9	279.5	143.1	221.6	443.5
50°	91.3	166.5	540.5	306.1	200.8	313.9	640.8	252.7	122.8	194.0	403.1
50.5°	81.2	143.4	500.4	275.0	173.5	282.8	598.9	225.9	104.3	167.0	365.5
51°	70.9	123.8	458.5	245.4	146.4	255.2	555.5	199.3	88.0	144.6	328.4
51.5°	60.9	107.0	417.9	217.3	125.6	227.6	511.9	172.5	73.7	124.1	294.3
52°	50.9	93.0	378.5	191.5	105.8	200.1	469.5	145.9	60.2	105.0	265.7
52.5°	40.9	82.5	340.2	166.7	88.0	172.5	428.9	124.6	48.1	87.7	237.4
53°	35.6	72.2	305.6	143.6	72.7	145.2	390.3	105.3	38.6	72.7	209.1
53.5°	33.8	61.7	271.7	122.1	59.2	123.3	352.5	88.5	34.3	59.4	180.5
54°	32.6	51.4	240.2	103.0	46.4	103.3	316.9	73.5	32.8	47.4	152.2
54.5°	31.3	41.1	210.1	85.0	37.1	86.2	282.3	60.2	31.6	36.6	130.1
55°	30.1	33.6	183.5	71.9	33.8	70.4	252.2	47.9	30.1	29.3	111.1
55.5°	28.8	30.3	157.9	59.2	32.6	56.4	222.6	36.9	28.8	28.1	94.0
56°	27.6	29.1	135.1	46.1	31.1	43.9	192.8	29.8	27.8	27.1	79.2
56.5°	26.6	27.8	114.8	33.3	29.6	33.6	162.9	28.6	26.6	26.1	66.2
57°	25.6	26.8	96.8	28.6	28.3	28.8	139.4	27.3	25.6	25.1	55.4
57.5°	24.6	25.8	82.2	27.6	27.3	27.6	117.8	26.3	24.6	24.1	46.6
58°	23.6	24.8	71.7	26.6	26.1	26.6	98.3	25.3	23.6	23.3	39.6
58.5°	22.6	24.1	61.2	25.6	25.1	25.6	81.2	24.6	22.6	22.3	34.1
59°	21.6	23.1	50.6	24.6	24.1	24.6	66.2	23.6	21.6	21.6	29.6
59.5°	20.8	22.3	40.1	23.8	23.1	23.6	53.6	22.8	20.8	20.8	26.3
60°	20.1	21.6	34.8	22.8	22.1	22.8	44.1	22.1	20.1	20.1	23.8
60.5°	19.3	20.8	30.3	22.1	21.1	22.1	36.9	21.1	19.1	19.6	21.6
61°	18.6	20.1	26.8	21.3	20.3	21.1	31.3	20.6	18.3	18.8	20.3
61.5°	17.8	19.3	23.8	20.6	19.6	20.3	27.3	19.8	17.5	18.0	19.6
62°	17.0	18.6	21.8	19.8	18.8	19.8	24.3	19.1	16.8	17.5	18.8
62.5°	16.3	18.0	20.3	19.1	18.0	19.1	22.1	18.3	16.0	16.8	18.0
63°	15.5	17.3	19.6	18.6	17.0	18.3	20.3	17.8	15.3	16.3	17.3
63.5°	15.0	16.8	19.1	17.8	16.3	17.5	19.6	17.0	14.8	15.5	16.8
64°	14.3	16.0	18.3	17.0	15.8	17.0	18.8	16.5	14.0	15.0	16.0
64.5°	13.8	15.5	17.8	16.5	15.0	16.3	18.0	15.8	13.5	14.5	15.5
65°	13.3	15.0	17.0	16.0	14.3	15.8	17.3	15.3	13.0	14.0	15.0
65.5°	12.8	14.5	16.5	15.3	13.8	15.3	16.5	14.8	12.3	13.5	14.5
66°	12.0	13.8	15.8	14.8	13.3	14.5	16.0	14.0	11.8	13.0	14.0



TEST NUMBER: P776182

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.8	12.3	14.3	13.3	11.5	13.0	14.5	12.5	10.3	11.5	12.5
68°	10.3	11.8	13.8	12.8	11.0	12.5	13.8	12.0	10.0	11.0	12.0
68.5°	9.8	11.5	13.3	12.3	10.5	12.0	13.3	11.5	9.5	10.5	11.5
69°	9.3	11.0	12.8	11.8	10.0	11.5	12.8	11.3	9.0	10.3	11.0
69.5°	9.0	10.5	12.3	11.3	9.8	11.3	12.3	10.8	8.8	9.8	10.5
70°	8.5	10.0	11.8	10.8	9.3	10.8	11.8	10.3	8.3	9.3	10.0
70.5°	8.3	9.8	11.3	10.5	8.8	10.3	11.5	9.8	8.0	9.0	9.8
71°	7.8	9.3	10.8	10.0	8.5	10.0	11.0	9.5	7.5	8.5	9.3
71.5°	7.5	9.0	10.3	9.5	8.0	9.5	10.5	9.0	7.3	8.3	8.8
72°	7.0	8.5	10.0	9.3	7.8	9.0	10.0	8.8	6.8	7.8	8.5
72.5°	6.8	8.3	9.5	8.8	7.3	8.8	9.5	8.3	6.5	7.5	8.0
73°	6.5	7.8	9.0	8.5	7.0	8.3	9.3	8.0	6.3	7.3	7.8
73.5°	6.0	7.5	8.8	8.0	6.8	8.0	8.8	7.5	6.0	6.8	7.3
74°	5.8	7.0	8.3	7.8	6.5	7.8	8.5	7.3	5.5	6.5	7.0
74.5°	5.5	6.8	7.8	7.3	6.0	7.3	8.0	7.0	5.3	6.3	6.5
75°	5.3	6.5	7.5	7.0	5.8	7.0	7.8	6.5	5.0	5.8	6.3
75.5°	5.0	6.0	7.0	6.8	5.5	6.8	7.3	6.3	4.8	5.5	6.0
76°	4.8	5.8	6.8	6.5	5.3	6.5	7.0	6.0	4.5	5.3	5.5
76.5°	4.5	5.5	6.5	6.0	5.0	6.0	6.5	5.5	4.3	5.0	5.3
77°	4.3	5.3	6.0	5.8	4.8	5.8	6.3	5.3	4.0	4.8	5.0
77.5°	4.0	5.0	5.8	5.5	4.5	5.5	6.0	5.0	3.8	4.5	4.8
78°	3.8	4.8	5.5	5.3	4.3	5.3	5.5	4.8	3.5	4.3	4.3
78.5°	3.5	4.3	5.0	5.0	4.0	5.0	5.3	4.5	3.3	3.8	4.0
79°	3.3	4.0	4.8	4.5	3.8	4.8	5.0	4.3	3.3	3.5	3.8
79.5°	3.0	3.8	4.5	4.3	3.5	4.5	4.8	4.0	3.0	3.3	3.5
80°	2.8	3.5	4.3	4.0	3.3	4.0	4.3	3.8	2.8	3.0	3.3
80.5°	2.5	3.3	4.0	3.8	3.3	3.8	4.0	3.3	2.5	2.8	3.0
81°	2.3	3.0	3.8	3.5	3.0	3.5	3.8	3.0	2.3	2.5	2.8
81.5°	2.3	2.8	3.3	3.3	2.8	3.5	3.5	3.0	2.3	2.5	2.5
82°	2.0	2.5	3.0	3.0	2.5	3.3	3.3	2.8	2.0	2.3	2.3
82.5°	1.8	2.3	2.8	2.8	2.3	3.0	3.0	2.5	1.8	2.0	2.0
83°	1.5	2.0	2.5	2.5	2.3	2.8	2.8	2.3	1.5	1.8	1.8
83.5°	1.5	1.8	2.3	2.3	2.0	2.5	2.5	2.0	1.5	1.5	1.5
84°	1.3	1.8	2.0	2.3	1.8	2.3	2.3	1.8	1.3	1.3	1.3
84.5°	1.0	1.5	1.8	2.0	1.8	2.0	2.0	1.5	1.0	1.0	1.3
85°	1.0	1.3	1.5	1.8	1.5	1.8	1.8	1.3	1.0	1.0	1.0
85.5°	0.8	1.0	1.5	1.5	1.5	1.8	1.5	1.0	0.8	0.8	0.8
86°	0.5	0.8	1.3	1.3	1.3	1.5	1.3	1.0	0.8	0.5	0.5
86.5°	0.5	0.5	1.0	1.3	1.0	1.3	1.3	0.8	0.5	0.5	0.5
87°	0.3	0.5	0.8	1.0	1.0	1.0	1.0	0.5	0.5	0.3	0.3
87.5°	0.3	0.3	0.8	0.8	0.8	1.0	0.8	0.5	0.3	0.3	0.3
88°	0.3	0.3	0.5	0.8	0.8	0.8	0.8	0.3	0.3	0.0	0.0
88.5°	0.0	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.0	0.0



TEST NUMBER: P776182
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776182

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1822.5	1822.5	1822.5	1822.5	1822.5	1822.5
0.5°	1822.0	1820.3	1821.0	1822.0	1822.5	1822.0
1°	1820.5	1818.5	1819.3	1820.3	1821.3	1821.0
1.5°	1818.8	1816.5	1817.3	1818.5	1819.5	1820.0
2°	1817.0	1814.5	1815.0	1816.5	1817.8	1818.8
2.5°	1815.0	1812.2	1812.7	1814.3	1815.8	1817.3
3°	1813.0	1809.5	1810.2	1811.5	1813.7	1815.5
3.5°	1810.2	1806.5	1807.0	1809.0	1811.2	1813.5
4°	1807.5	1803.0	1803.7	1806.0	1809.0	1811.5
4.5°	1804.2	1799.0	1799.7	1802.5	1806.2	1809.2
5°	1800.5	1794.7	1795.4	1799.0	1803.0	1806.5
5.5°	1796.5	1789.7	1790.7	1795.2	1799.7	1803.5
6°	1791.9	1784.9	1785.9	1790.9	1796.0	1800.0
6.5°	1787.2	1779.2	1780.4	1786.2	1791.9	1796.0
7°	1782.2	1773.4	1774.6	1781.2	1787.2	1791.4
7.5°	1776.4	1767.1	1768.4	1775.6	1782.2	1786.7
8°	1770.6	1760.9	1762.1	1769.9	1776.6	1781.2
8.5°	1764.6	1754.1	1755.6	1763.6	1770.4	1775.4
9°	1758.3	1747.1	1748.8	1756.8	1764.1	1769.6
9.5°	1751.8	1739.8	1741.6	1749.8	1757.3	1763.1
10°	1745.3	1732.5	1734.3	1742.3	1750.6	1756.8
10.5°	1738.0	1724.5	1726.5	1734.5	1743.3	1750.1
11°	1730.8	1716.2	1718.5	1726.3	1735.8	1742.8
11.5°	1723.3	1708.0	1710.2	1718.0	1727.8	1735.3
12°	1715.2	1698.9	1701.4	1709.2	1719.5	1727.3
12.5°	1706.7	1689.7	1692.4	1699.9	1710.7	1719.2
13°	1698.2	1680.1	1683.1	1690.7	1701.9	1710.7
13.5°	1688.9	1670.1	1673.4	1681.4	1692.7	1701.7
14°	1679.6	1660.1	1663.1	1671.4	1683.1	1692.4
14.5°	1670.1	1650.0	1652.8	1661.1	1672.9	1682.6
15°	1660.1	1639.3	1642.0	1650.8	1662.8	1673.1
15.5°	1650.0	1628.0	1631.2	1639.8	1652.1	1662.6
16°	1639.5	1617.0	1620.0	1628.7	1641.0	1652.1
16.5°	1628.7	1605.7	1608.7	1617.5	1630.0	1641.5
17°	1617.5	1593.9	1596.7	1605.4	1618.7	1630.5
17.5°	1606.2	1581.9	1584.6	1593.4	1606.7	1619.0
18°	1594.4	1569.1	1572.1	1580.9	1594.9	1607.4
18.5°	1582.4	1556.5	1559.5	1568.3	1582.4	1595.4
19°	1570.3	1543.5	1546.5	1555.5	1569.8	1583.1
19.5°	1557.5	1530.2	1533.0	1542.5	1557.0	1570.8
20°	1545.0	1516.7	1519.7	1529.0	1544.0	1558.0
20.5°	1531.7	1503.1	1505.7	1515.4	1530.7	1544.8
21°	1518.2	1489.4	1491.6	1501.6	1516.7	1531.2



TEST NUMBER: P776182

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1476.8	1447.0	1448.2	1458.5	1474.3	1489.6
23°	1462.8	1432.2	1433.2	1444.0	1459.3	1475.3
23.5°	1448.5	1417.4	1418.9	1429.2	1444.5	1461.0
24°	1434.2	1401.6	1403.4	1413.9	1429.7	1446.5
24.5°	1419.2	1385.6	1388.3	1398.4	1414.4	1431.7
25°	1404.4	1368.3	1372.5	1382.6	1399.1	1416.7
25.5°	1389.1	1351.0	1356.5	1367.0	1383.3	1400.6
26°	1373.5	1333.2	1339.4	1351.2	1367.8	1384.1
26.5°	1356.5	1315.1	1322.6	1335.2	1352.0	1367.3
27°	1339.4	1296.3	1304.8	1318.4	1335.7	1350.0
27.5°	1322.1	1277.5	1286.8	1301.8	1318.9	1332.2
28°	1304.1	1258.0	1268.0	1285.3	1301.3	1314.1
28.5°	1285.8	1238.4	1249.7	1268.0	1283.5	1295.8
29°	1267.2	1218.4	1230.9	1251.7	1265.7	1276.5
29.5°	1248.9	1199.1	1211.8	1234.9	1247.7	1257.7
30°	1229.6	1179.0	1192.3	1217.6	1228.4	1238.4
30.5°	1210.3	1158.4	1173.0	1200.1	1209.8	1218.6
31°	1190.8	1137.6	1153.2	1183.3	1190.8	1198.8
31.5°	1171.0	1117.6	1133.4	1165.5	1171.7	1178.7
32°	1151.4	1096.8	1113.3	1147.7	1151.9	1158.9
32.5°	1132.1	1075.7	1093.8	1129.1	1133.1	1138.6
33°	1112.1	1054.7	1073.7	1111.6	1113.8	1117.8
33.5°	1091.8	1032.8	1053.7	1093.3	1094.0	1097.0
34°	1071.5	1012.0	1033.1	1074.7	1074.5	1076.2
34.5°	1051.1	990.5	1012.3	1055.7	1054.9	1054.7
35°	1030.8	970.2	992.0	1036.6	1035.1	1032.8
35.5°	1010.8	945.9	971.4	1017.8	1015.8	1012.3
36°	990.0	913.5	950.6	998.8	995.5	990.2
36.5°	969.7	874.9	930.3	979.7	975.4	970.9
37°	949.4	835.1	910.8	960.4	955.4	939.3
37.5°	929.1	796.2	889.2	941.3	935.3	907.5
38°	910.5	755.3	858.1	922.5	915.3	865.9
38.5°	879.2	715.0	821.8	904.0	894.5	827.5
39°	844.8	673.1	784.7	885.9	876.7	788.7
39.5°	807.5	631.2	748.1	867.4	845.3	749.3
40°	770.1	591.1	711.2	849.3	813.2	707.5
40.5°	733.0	551.5	673.6	831.8	776.1	666.3
41°	694.4	513.9	634.2	814.5	739.8	624.5
41.5°	655.6	477.3	595.1	797.2	704.9	583.6
42°	615.4	440.7	557.3	779.9	669.8	544.8
42.5°	577.1	403.9	521.4	763.4	633.2	508.4
43°	539.5	368.5	486.3	746.6	595.4	472.1
43.5°	503.6	334.7	451.5	730.0	557.5	434.9



TEST NUMBER: P776182

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	398.6	240.7	350.0	679.9	453.0	328.9
45.5°	364.5	212.3	317.6	654.8	419.2	296.8
46°	330.7	185.0	287.8	628.0	385.8	266.2
46.5°	299.3	161.2	257.7	596.6	353.0	235.6
47°	269.5	139.6	229.1	568.1	320.9	207.3
47.5°	242.2	121.1	201.3	533.2	290.3	181.2
48°	215.1	105.5	176.0	497.9	260.7	157.4
48.5°	187.8	92.8	152.9	457.0	232.4	136.9
49°	160.7	82.7	132.1	419.2	205.3	119.1
49.5°	138.4	72.7	113.8	381.6	179.5	104.0
50°	119.3	62.7	99.0	347.0	155.7	91.3
50.5°	102.5	52.6	85.7	313.4	133.9	81.2
51°	89.0	42.6	76.0	282.8	115.3	70.9
51.5°	77.5	35.8	66.2	252.4	99.8	60.9
52°	67.4	33.6	56.4	225.1	86.0	50.9
52.5°	57.9	32.1	46.6	198.3	76.0	40.9
53°	48.4	30.8	37.9	174.0	65.7	35.6
53.5°	39.4	29.6	31.1	151.2	55.7	33.8
54°	32.3	28.3	28.8	131.4	45.4	32.6
54.5°	28.8	27.1	27.8	112.8	36.6	31.3
55°	27.8	26.1	26.8	96.8	30.3	30.1
55.5°	26.8	25.1	25.8	85.5	28.6	28.8
56°	25.8	24.1	24.8	74.5	27.6	27.6
56.5°	24.8	23.1	23.8	63.4	26.6	26.6
57°	24.1	22.1	23.1	52.1	25.6	25.6
57.5°	23.1	21.1	22.1	41.4	24.6	24.6
58°	22.3	20.3	21.3	35.6	23.8	23.6
58.5°	21.6	19.6	20.6	30.8	23.1	22.6
59°	20.8	18.8	19.8	27.1	22.3	21.6
59.5°	20.1	18.0	19.1	24.1	21.6	20.8
60°	19.3	17.3	18.6	21.8	20.8	20.1
60.5°	18.8	16.5	17.8	20.6	20.1	19.3
61°	18.0	15.8	17.3	19.8	19.3	18.6
61.5°	17.3	15.3	16.5	19.1	18.6	17.8
62°	16.8	14.5	16.0	18.3	18.0	17.0
62.5°	16.0	14.0	15.3	17.8	17.3	16.3
63°	15.5	13.3	14.8	17.0	16.8	15.5
63.5°	15.0	12.8	14.3	16.5	16.0	15.0
64°	14.3	12.3	13.8	16.0	15.5	14.3
64.5°	13.8	11.8	13.3	15.3	15.0	13.8
65°	13.3	11.3	12.8	14.8	14.5	13.3
65.5°	12.8	10.8	12.3	14.3	13.8	12.8
66°	12.3	10.3	11.8	13.8	13.3	12.0



TEST NUMBER: P776182

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776182

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

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21.5°	1517.4	1548.5	1581.1	1606.4	1619.7	1627.5	1623.2	1605.9	1576.3	1553.3	1529.0
22°	1503.6	1535.2	1568.6	1594.9	1608.7	1616.5	1612.2	1594.4	1564.3	1541.0	1515.7



44°	397.6	551.5	839.8	732.5	613.9	757.6	909.3	673.1	483.8	584.9	773.1
44.5°	362.7	514.9	822.8	693.9	573.1	717.5	892.2	633.7	447.7	547.5	756.8



66.5°	11.5	13.3	15.3	14.3	12.5	14.0	15.5	13.5	11.3	12.5	13.3
67°	11.0	12.8	14.8	13.8	12.0	13.5	15.0	13.0	10.8	12.0	12.8



89°	0.0	0.0	0.3	0.3	0.5	0.5	0.3	0.3	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0

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21.5°	1504.4	1475.3	1477.3	1487.6	1502.6	1517.4
22°	1490.9	1461.0	1462.8	1473.3	1488.4	1503.6



44°	467.5	301.6	417.1	713.5	520.7	397.6
44.5°	432.9	271.5	383.3	696.7	486.8	362.7

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66.5°	11.8	9.8	11.3	13.3	12.8	11.5
67°	11.5	9.5	11.0	12.8	12.3	11.0

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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)