

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: P776199

Luminaire Tested: HCDJBL51525CSD-HCD8TRMW-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776199
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-HCD8TRMW-2500lm-5000K
Description: 8 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

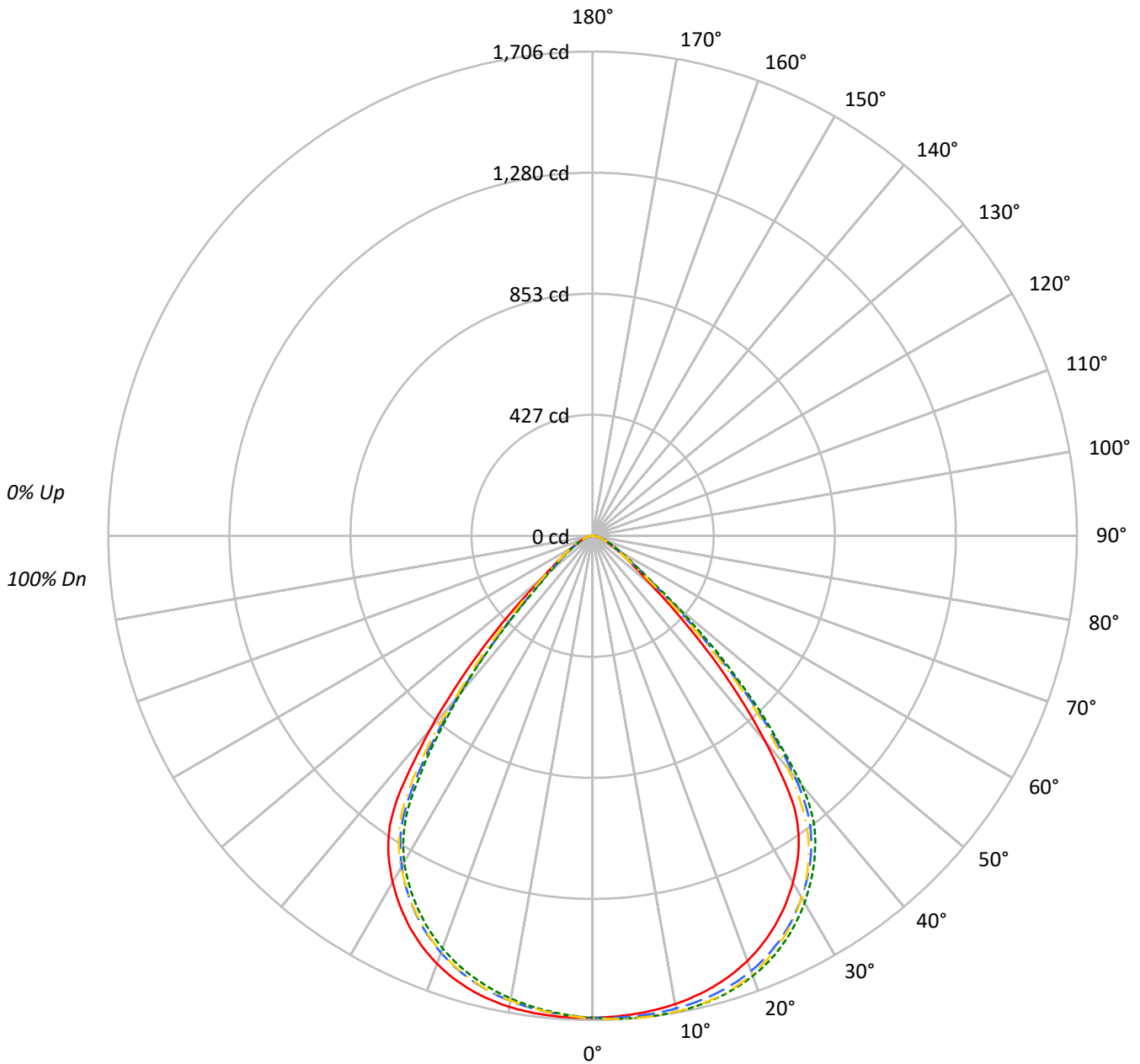
Lumens per Lamp: N/A
Luminaire Lumens: 2751.5 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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				
RW	70	50	30	10	70	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	102	103	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46		
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42		
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	51862	51862	51862	51862
5°	51839	52265	52020	51585
10°	51933	52789	52262	51335
15°	51988	53315	52370	50951
20°	51788	53624	52123	50255
25°	51116	53460	51298	48950
30°	49746	52630	49665	46799
35°	47043	50882	46380	40901
40°	37774	45629	35459	28727
45°	24516	32153	21929	15971
50°	12986	18267	11295	9238
55°	8474	9709	7207	6451
60°	6082	6759	5215	4854
65°	4717	5216	4060	3858
70°	3803	4303	3267	3106
75°	3138	3680	2619	2465
80°	2497	3217	1952	1811
85°	1822	2978	1086	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 32823 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	5.9
10°-20°	465.6	16.9
20°-30°	698.4	25.4
30°-40°	756.0	27.5
40°-50°	430.6	15.6
50°-60°	142.9	5.2
60°-70°	63.1	2.3
70°-80°	27.5	1.0
80°-90°	6.1	0.2
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°	1325.4	48.2
0°-40°	2081.3	75.6
0°-60°	2654.8	96.5
0°-90°	2751.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1699	1699	1699	1699	1699	
5°	1692	1705	1697	1683	1692	161
15°	1645	1687	1657	1612	1645	464
25°	1517	1587	1523	1453	1517	697
35°	1262	1365	1244	1097	1262	768
45°	568	745	508	370	568	442
55°	159	182	135	121	159	148
65°	65	72	56	53	65	66
75°	27	31	22	21	27	29
85°	5	8	3	3	5	6
90°	0	1	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°	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7
0.5°	1697.9	1698.5	1698.5	1698.7	1699.7	1700.5	1701.3	1700.3	1698.7	1697.9	1697.2
1°	1697.7	1698.5	1698.7	1699.2	1700.8	1701.5	1702.1	1700.8	1699.0	1697.7	1696.4
1.5°	1697.2	1698.2	1699.2	1700.0	1701.5	1702.6	1702.8	1701.3	1699.0	1697.4	1695.6
2°	1696.6	1698.2	1699.5	1700.8	1702.3	1703.6	1703.6	1701.8	1699.0	1696.9	1694.6
2.5°	1696.1	1697.9	1699.7	1701.3	1703.1	1704.1	1704.1	1702.1	1699.0	1696.4	1693.6
3°	1695.4	1697.7	1699.7	1701.8	1703.9	1705.2	1704.6	1702.3	1699.0	1695.6	1692.5
3.5°	1694.3	1697.4	1699.7	1702.3	1704.4	1705.7	1705.4	1702.3	1698.5	1695.1	1691.2
4°	1693.6	1696.9	1699.7	1702.6	1704.9	1706.2	1705.7	1702.6	1698.2	1694.3	1689.9
4.5°	1692.8	1696.1	1699.5	1702.8	1705.2	1706.7	1705.9	1702.6	1697.9	1693.3	1688.6
5°	1691.5	1695.4	1699.2	1702.8	1705.4	1707.0	1706.2	1702.3	1697.4	1692.3	1687.1
5.5°	1690.5	1694.8	1699.0	1703.1	1705.4	1707.2	1706.2	1702.1	1696.9	1691.2	1685.6
6°	1689.2	1693.8	1698.5	1703.1	1705.7	1707.5	1706.4	1701.8	1696.1	1689.9	1683.7
6.5°	1687.9	1693.0	1697.9	1702.8	1705.7	1707.5	1706.4	1701.3	1695.4	1688.6	1681.9
7°	1686.6	1691.7	1697.4	1702.6	1705.7	1707.5	1706.2	1700.8	1694.3	1687.1	1679.9
7.5°	1685.0	1690.7	1696.6	1702.3	1705.4	1707.5	1705.9	1700.3	1693.3	1685.6	1677.8
8°	1683.2	1689.4	1695.9	1701.8	1705.2	1707.2	1705.4	1699.5	1692.0	1684.0	1675.5
8.5°	1681.4	1688.1	1694.8	1701.3	1704.6	1707.0	1704.9	1698.5	1690.7	1681.9	1673.2
9°	1679.6	1686.6	1693.8	1700.5	1704.1	1706.7	1704.4	1697.4	1689.2	1680.1	1670.6
9.5°	1677.6	1684.8	1692.8	1700.0	1703.6	1705.9	1703.6	1696.1	1687.6	1677.8	1667.8
10°	1675.2	1683.0	1691.2	1699.0	1702.8	1705.4	1702.6	1694.8	1685.8	1675.5	1664.7
10.5°	1672.9	1681.2	1689.9	1698.2	1701.8	1704.4	1701.5	1693.3	1683.7	1672.9	1661.8
11°	1670.6	1679.1	1688.4	1696.9	1700.8	1703.4	1700.3	1691.7	1681.4	1670.1	1658.7
11.5°	1667.8	1676.8	1686.8	1695.9	1699.7	1702.3	1699.0	1689.9	1679.1	1667.5	1655.4
12°	1664.9	1674.5	1685.0	1694.6	1698.5	1701.0	1697.4	1687.9	1676.5	1664.4	1651.5
12.5°	1662.1	1672.1	1683.0	1693.0	1696.9	1699.7	1695.6	1685.6	1673.7	1661.0	1647.9
13°	1658.7	1669.3	1680.9	1691.2	1695.4	1698.2	1693.8	1683.0	1670.8	1657.4	1643.8
13.5°	1655.6	1666.5	1678.6	1689.7	1693.3	1696.4	1691.5	1680.4	1667.8	1653.8	1639.6
14°	1652.3	1663.4	1676.3	1687.6	1691.5	1694.3	1689.2	1677.6	1664.4	1650.0	1635.0
14.5°	1648.7	1660.3	1673.7	1685.6	1689.2	1692.3	1686.8	1674.5	1660.8	1645.8	1630.6
15°	1644.8	1657.2	1671.1	1683.2	1686.8	1689.9	1684.3	1671.1	1656.9	1641.2	1625.7
15.5°	1640.7	1653.6	1668.0	1680.7	1684.0	1687.4	1681.4	1667.8	1652.8	1636.5	1620.5
16°	1636.3	1650.0	1664.9	1677.8	1681.4	1684.5	1678.3	1663.9	1648.4	1631.6	1615.1
16.5°	1631.9	1646.1	1661.6	1675.0	1678.3	1681.7	1674.7	1659.8	1643.8	1626.5	1609.7
17°	1627.0	1642.0	1658.2	1671.9	1675.0	1678.6	1671.1	1655.4	1639.1	1621.1	1603.5
17.5°	1622.4	1637.6	1654.3	1668.5	1671.6	1675.2	1667.2	1650.7	1634.0	1615.6	1597.6
18°	1617.2	1633.2	1650.5	1664.7	1668.0	1671.6	1663.1	1645.8	1628.5	1609.5	1591.1
18.5°	1611.8	1628.3	1646.1	1661.0	1663.9	1667.5	1658.5	1640.9	1622.9	1603.3	1584.7
19°	1605.8	1623.4	1641.7	1656.9	1659.5	1663.1	1653.8	1635.5	1617.2	1596.8	1577.7
19.5°	1599.9	1618.2	1637.1	1652.5	1655.1	1659.0	1649.2	1629.8	1610.7	1590.1	1570.2
20°	1594.0	1612.5	1631.6	1647.9	1650.5	1654.1	1644.0	1623.6	1604.3	1582.9	1562.8
20.5°	1587.5	1606.9	1626.7	1643.0	1645.3	1648.9	1638.3	1617.5	1597.6	1575.7	1555.3
21°	1580.8	1600.9	1621.3	1638.1	1640.2	1643.5	1632.4	1610.7	1590.4	1567.9	1546.8



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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°	1559.1	1581.1	1603.0	1620.8	1622.4	1626.0	1613.1	1589.3	1567.4	1543.4	1521.0
23°	1551.4	1574.1	1596.6	1614.6	1616.2	1619.3	1606.1	1581.3	1559.1	1534.4	1511.4
23.5°	1543.2	1566.9	1589.6	1608.2	1609.5	1612.8	1598.4	1573.3	1550.1	1525.1	1501.9
24°	1534.9	1559.1	1582.1	1601.2	1602.2	1605.6	1590.9	1564.8	1541.4	1515.6	1492.1
24.5°	1526.1	1551.4	1575.1	1594.0	1594.7	1598.1	1582.9	1556.1	1532.3	1506.0	1481.8
25°	1517.4	1542.9	1567.1	1586.5	1587.0	1590.4	1574.6	1547.0	1522.8	1495.7	1471.2
25.5°	1508.1	1534.4	1559.1	1578.8	1579.0	1582.4	1565.9	1537.5	1512.7	1484.9	1460.3
26°	1498.3	1525.6	1550.4	1570.8	1571.0	1574.1	1556.8	1527.7	1502.1	1474.0	1449.0
26.5°	1488.5	1516.3	1542.1	1562.2	1562.0	1565.3	1547.3	1517.4	1491.8	1463.4	1437.9
27°	1478.4	1507.0	1533.1	1553.7	1553.2	1556.1	1537.7	1507.0	1481.0	1451.8	1425.8
27.5°	1468.1	1497.0	1523.6	1544.7	1543.9	1546.8	1527.7	1496.2	1469.9	1440.2	1413.7
28°	1457.5	1487.2	1514.3	1535.4	1534.4	1537.0	1517.4	1485.4	1458.3	1428.6	1401.0
28.5°	1446.2	1476.6	1503.9	1525.6	1524.3	1527.2	1506.5	1473.8	1446.4	1416.0	1388.4
29°	1434.8	1466.0	1493.9	1515.8	1514.3	1516.6	1495.2	1461.9	1434.3	1403.3	1374.7
29.5°	1422.9	1454.7	1483.0	1505.8	1503.7	1505.8	1483.8	1449.5	1421.7	1390.2	1360.3
30°	1411.1	1443.6	1472.5	1494.9	1492.9	1494.7	1472.0	1437.1	1408.8	1377.0	1345.3
30.5°	1398.2	1432.0	1460.9	1484.3	1481.5	1483.3	1460.1	1424.5	1395.1	1362.6	1329.6
31°	1385.5	1419.8	1449.5	1473.0	1469.9	1471.7	1447.5	1410.8	1381.9	1347.9	1313.6
31.5°	1372.6	1406.7	1437.6	1461.4	1457.8	1459.3	1434.6	1396.6	1367.2	1332.9	1296.5
32°	1359.2	1394.6	1425.3	1449.3	1446.4	1447.2	1420.9	1381.9	1352.5	1317.4	1278.7
32.5°	1345.0	1381.2	1412.6	1437.4	1433.5	1434.3	1406.4	1366.7	1337.3	1300.4	1259.7
33°	1330.3	1367.5	1400.0	1425.0	1420.6	1420.9	1391.5	1351.2	1321.6	1282.4	1239.0
33.5°	1314.3	1353.6	1386.8	1412.1	1407.2	1407.2	1376.5	1334.5	1304.3	1262.7	1216.1
34°	1298.3	1338.6	1372.9	1399.2	1393.8	1392.8	1360.0	1317.2	1286.2	1241.9	1190.3
34.5°	1280.8	1322.3	1357.9	1385.5	1379.6	1377.5	1343.7	1298.9	1266.6	1216.1	1161.9
35°	1262.2	1305.8	1343.0	1371.6	1365.2	1362.1	1326.2	1279.3	1244.4	1189.0	1130.7
35.5°	1241.3	1287.8	1326.5	1356.9	1350.2	1346.1	1307.9	1256.8	1218.9	1159.6	1096.4
36°	1219.9	1268.7	1309.7	1341.7	1335.0	1329.6	1287.5	1232.0	1191.5	1126.0	1060.0
36.5°	1195.4	1248.6	1291.4	1326.2	1318.2	1311.2	1265.8	1206.0	1160.3	1089.7	1022.6
37°	1167.0	1225.1	1272.3	1309.2	1300.7	1291.4	1242.6	1178.9	1124.5	1051.5	984.4
37.5°	1133.5	1199.0	1251.1	1290.3	1280.5	1269.5	1217.1	1148.2	1084.7	1011.5	944.2
38°	1097.4	1169.6	1226.9	1269.5	1258.9	1246.5	1190.3	1117.0	1043.7	969.7	903.1
38.5°	1059.7	1136.3	1200.1	1246.5	1234.6	1221.0	1162.9	1083.2	1002.5	927.4	861.4
39°	1022.1	1100.0	1171.7	1220.7	1208.6	1194.4	1133.0	1049.1	964.3	885.1	819.8
39.5°	984.9	1063.3	1140.7	1193.9	1178.6	1163.9	1101.8	1011.2	927.1	844.1	778.3
40°	947.8	1027.7	1107.5	1163.4	1144.9	1133.2	1067.7	973.6	889.7	804.1	736.5
40.5°	908.8	993.4	1071.3	1130.7	1104.4	1099.2	1033.7	933.3	850.8	763.8	695.5
41°	870.1	957.3	1033.4	1095.3	1062.8	1065.4	998.3	893.3	810.3	722.6	655.0
41.5°	831.2	920.4	994.7	1057.7	1020.3	1028.8	962.5	853.1	770.3	681.5	616.0
42°	792.2	881.7	955.8	1017.2	980.3	990.1	925.3	814.7	730.6	643.4	576.3
42.5°	753.5	841.0	915.8	975.1	943.4	949.8	885.3	774.2	691.9	605.2	538.1
43°	716.1	800.5	874.2	931.5	906.0	910.1	843.6	734.4	654.7	569.1	502.8
43.5°	679.0	760.5	833.7	889.2	866.8	869.6	802.3	694.4	618.3	534.2	468.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	567.8	643.1	709.2	760.2	744.7	750.9	675.9	578.6	507.9	436.5	377.4
45.5°	532.2	604.4	667.1	720.2	705.3	711.7	633.0	541.0	473.1	405.3	350.6
46°	497.1	566.0	624.8	678.7	667.4	672.0	594.9	504.1	439.3	376.6	326.8
46.5°	463.3	528.3	584.8	640.3	630.0	632.3	554.4	468.0	407.6	347.7	304.4
47°	430.3	491.7	545.1	602.1	592.5	593.3	517.2	433.9	377.9	322.2	284.0
47.5°	397.3	455.6	509.5	565.7	554.6	554.6	481.4	400.6	348.8	298.7	265.2
48°	368.1	422.0	474.4	530.4	517.2	517.5	447.6	369.4	321.4	277.3	248.4
48.5°	340.3	390.0	440.9	497.1	481.4	481.1	413.3	339.5	295.9	257.2	235.5
49°	315.0	359.9	410.2	463.3	447.3	445.0	382.0	312.4	272.7	242.7	222.4
49.5°	292.0	333.6	381.3	431.6	415.3	410.7	352.9	287.9	252.0	228.3	209.2
50°	273.4	308.5	354.7	400.4	384.6	377.1	325.8	266.0	237.8	213.9	196.1
50.5°	256.7	286.9	329.2	370.4	355.0	347.0	299.2	246.6	223.7	199.4	182.9
51°	241.5	267.5	306.2	342.8	325.3	318.3	276.3	231.9	209.5	185.2	174.6
51.5°	227.5	251.3	285.1	317.3	300.0	293.8	255.1	216.9	195.3	176.4	166.9
52°	215.4	236.0	265.7	293.6	275.8	270.9	240.2	202.0	181.4	168.7	159.4
52.5°	203.8	222.9	248.7	272.2	254.1	250.5	225.2	187.3	173.1	161.2	151.7
53°	192.7	210.5	232.4	253.1	239.7	235.0	210.5	177.7	165.4	153.5	144.5
53.5°	182.6	199.2	218.0	235.8	225.5	219.8	195.5	169.7	157.6	146.0	137.5
54°	174.9	188.3	204.3	219.5	211.0	204.3	180.8	162.0	150.1	138.8	131.0
54.5°	167.2	179.5	192.4	205.6	196.6	189.1	172.3	154.0	142.7	132.1	124.9
55°	159.2	171.3	182.1	192.7	182.4	179.5	164.3	146.3	135.4	125.6	118.9
55.5°	151.7	163.6	173.9	182.1	173.6	171.5	156.3	139.0	128.7	119.7	113.8
56°	144.5	155.8	165.6	173.6	165.9	163.3	148.3	131.8	122.8	114.3	108.6
56.5°	137.5	148.3	158.1	165.6	157.6	155.3	140.8	125.4	117.1	109.1	104.0
57°	130.8	141.1	150.1	157.6	149.6	147.6	133.9	119.4	111.4	104.5	99.6
57.5°	124.9	134.1	142.9	149.9	142.1	139.8	127.2	114.0	106.5	100.1	95.4
58°	118.9	127.7	135.7	142.1	134.9	132.9	121.0	108.6	101.9	95.7	91.6
58.5°	113.8	121.8	129.2	135.2	128.2	126.4	115.3	103.7	97.5	91.8	87.7
59°	108.6	116.3	123.1	128.5	122.0	120.2	109.9	99.1	93.4	88.0	84.1
59.5°	104.2	111.2	117.4	122.3	116.1	114.5	104.7	94.9	89.3	84.4	80.7
60°	99.6	106.3	112.0	116.6	110.7	109.1	100.1	91.1	85.4	81.0	77.6
60.5°	95.2	101.6	107.1	111.2	105.8	104.2	96.0	87.2	82.0	77.6	74.6
61°	91.6	97.5	102.4	106.0	101.1	99.6	91.8	83.6	78.4	74.6	71.7
61.5°	88.0	93.1	98.0	101.4	96.7	95.4	88.0	80.2	75.1	71.7	68.9
62°	84.4	89.8	93.9	97.0	92.6	91.1	84.4	76.9	72.0	68.6	66.3
62.5°	80.7	86.2	90.5	92.6	88.7	87.5	80.7	73.8	69.1	66.0	63.7
63°	77.1	82.8	86.9	89.3	84.9	83.6	77.6	70.9	66.3	63.5	61.1
63.5°	74.0	79.2	83.6	85.6	81.5	80.2	74.6	68.1	63.7	60.9	58.8
64°	70.9	75.8	80.0	82.3	78.2	77.1	71.5	65.3	60.9	58.3	56.5
64.5°	68.1	72.7	76.4	78.9	75.1	74.0	68.9	62.7	58.6	56.2	54.2
65°	65.3	69.7	73.5	75.6	72.2	71.2	66.0	60.1	56.2	53.7	52.1
65.5°	62.4	67.1	70.4	72.7	69.1	68.4	63.5	57.8	53.9	51.6	50.0
66°	60.1	64.2	67.8	69.9	66.6	65.8	60.9	55.5	51.6	49.5	48.0



TEST NUMBER: P776199

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	52.9	56.8	60.1	61.9	59.1	58.3	54.2	49.0	45.4	43.6	42.3
68°	50.6	54.4	57.8	59.6	56.8	56.0	52.1	46.9	43.6	41.8	40.5
68.5°	48.5	52.1	55.5	57.3	54.4	53.7	49.8	44.9	41.8	40.0	39.0
69°	46.4	50.0	53.1	54.9	52.4	51.6	48.0	43.1	40.0	38.2	37.1
69.5°	44.6	48.0	51.1	52.6	50.3	49.5	45.9	41.3	38.2	36.6	35.6
70°	42.6	45.9	49.0	50.6	48.2	47.5	44.1	39.5	36.6	34.8	34.1
70.5°	40.8	44.1	46.9	48.5	46.2	45.7	42.3	37.7	34.8	33.3	32.5
71°	39.0	42.0	45.1	46.7	44.4	43.9	40.5	36.1	33.3	31.7	31.0
71.5°	37.1	40.2	43.3	44.6	42.6	42.0	39.0	34.6	31.7	30.2	29.4
72°	35.6	38.7	41.5	42.8	40.8	40.2	37.1	33.0	30.2	28.6	28.1
72.5°	34.1	36.9	39.7	41.0	39.2	38.4	35.6	31.5	28.9	27.3	26.6
73°	32.5	35.3	37.9	39.5	37.4	36.9	34.1	29.9	27.3	26.1	25.3
73.5°	31.0	33.5	36.4	37.7	35.9	35.3	32.5	28.6	26.1	24.5	24.0
74°	29.4	32.0	34.8	36.1	34.3	33.8	31.0	27.1	24.8	23.2	22.7
74.5°	27.9	30.4	33.0	34.6	32.8	32.2	29.7	25.8	23.5	21.9	21.7
75°	26.6	29.2	31.7	33.0	31.2	30.7	28.1	24.5	22.2	20.9	20.4
75.5°	25.0	27.6	30.2	31.5	29.9	29.4	26.8	23.2	20.9	19.6	19.1
76°	23.7	26.1	28.6	30.2	28.4	28.1	25.5	21.9	19.6	18.3	18.1
76.5°	22.4	24.8	27.3	28.6	27.1	26.6	24.2	20.6	18.6	17.3	16.8
77°	21.2	23.5	25.8	27.3	25.8	25.3	23.0	19.6	17.3	16.0	15.7
77.5°	19.9	22.2	24.5	25.8	24.5	24.0	21.7	18.3	16.3	15.0	14.4
78°	18.8	20.9	23.2	24.5	23.2	22.7	20.4	17.0	15.0	13.9	13.4
78.5°	17.5	19.6	21.9	23.5	21.9	21.7	19.3	16.0	13.9	12.9	12.4
79°	16.5	18.6	20.9	22.2	20.6	20.4	18.1	15.0	12.9	11.9	11.6
79.5°	15.2	17.3	19.6	20.9	19.6	19.3	16.8	13.9	12.1	10.8	10.6
80°	14.2	16.3	18.3	19.6	18.3	18.1	15.7	12.9	11.1	9.8	9.5
80.5°	13.2	15.0	17.3	18.6	17.3	16.8	14.7	11.9	10.1	9.0	8.8
81°	12.1	13.9	16.0	17.3	16.3	16.0	13.7	10.8	9.3	8.0	7.7
81.5°	11.1	12.9	15.0	16.3	15.0	14.7	12.6	9.8	8.3	7.2	7.0
82°	10.3	11.9	13.9	15.2	13.9	13.7	11.9	9.0	7.5	6.4	6.2
82.5°	9.3	10.8	12.9	14.2	13.2	12.9	10.8	8.0	6.7	5.7	5.4
83°	8.5	10.1	11.9	13.2	12.1	11.9	9.8	7.2	5.9	4.9	4.6
83.5°	7.5	9.0	11.1	12.1	11.1	10.8	9.0	6.4	5.2	4.1	4.1
84°	6.7	8.3	10.1	11.4	10.3	10.1	8.3	5.7	4.4	3.4	3.4
84.5°	5.9	7.2	9.3	10.3	9.3	9.0	7.5	4.9	3.6	2.6	2.8
85°	5.2	6.4	8.3	9.5	8.5	8.3	6.4	4.1	3.1	2.1	2.1
85.5°	4.4	5.7	7.5	8.8	7.7	7.5	5.7	3.4	2.3	1.5	1.5
86°	3.6	4.9	6.4	7.7	7.0	6.7	5.2	2.8	1.8	1.3	1.0
86.5°	2.8	4.1	5.7	7.0	6.2	5.9	4.4	2.3	1.3	0.8	0.5
87°	2.3	3.4	5.2	6.2	5.4	5.2	3.6	1.8	1.0	0.5	0.0
87.5°	1.8	2.6	4.4	5.4	4.6	4.4	3.1	1.3	0.5	0.3	0.0
88°	1.3	2.1	3.6	4.6	3.9	3.9	2.6	1.0	0.3	0.0	0.0
88.5°	0.8	1.5	3.1	3.9	3.4	3.1	1.8	0.5	0.0	0.0	0.0



TEST NUMBER: P776199
CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.3	1.3	2.1	1.3	1.3	0.3	0.0	0.0	0.0	0.0



TEST NUMBER: P776199

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1698.7	1698.7	1698.7	1698.7	1698.7	1698.7
0.5°	1696.6	1697.9	1698.2	1699.2	1699.0	1697.9
1°	1695.6	1696.6	1696.9	1698.2	1698.2	1697.7
1.5°	1694.3	1695.1	1695.6	1696.9	1697.2	1697.2
2°	1693.0	1693.8	1694.1	1695.6	1696.4	1696.6
2.5°	1691.5	1692.3	1692.5	1694.3	1695.4	1696.1
3°	1690.2	1690.7	1691.0	1692.8	1694.1	1695.4
3.5°	1688.4	1688.9	1689.2	1691.5	1693.0	1694.3
4°	1686.8	1687.1	1687.6	1689.9	1692.0	1693.6
4.5°	1685.0	1685.3	1685.6	1688.4	1690.7	1692.8
5°	1683.0	1683.2	1683.5	1686.6	1689.4	1691.5
5.5°	1680.9	1681.2	1681.4	1685.0	1687.9	1690.5
6°	1678.6	1678.6	1679.1	1683.0	1686.3	1689.2
6.5°	1676.3	1676.5	1676.8	1680.9	1684.5	1687.9
7°	1673.7	1673.9	1674.5	1678.8	1683.0	1686.6
7.5°	1671.1	1671.4	1671.6	1676.8	1681.2	1685.0
8°	1668.5	1668.3	1669.0	1674.2	1679.1	1683.2
8.5°	1665.4	1665.4	1666.2	1671.9	1677.0	1681.4
9°	1662.6	1662.3	1663.1	1669.3	1675.0	1679.6
9.5°	1659.2	1659.5	1659.8	1666.2	1672.7	1677.6
10°	1655.9	1655.9	1656.7	1663.4	1670.1	1675.2
10.5°	1652.5	1652.3	1653.0	1660.3	1667.5	1672.9
11°	1648.7	1648.7	1649.4	1657.2	1664.7	1670.6
11.5°	1644.8	1644.8	1645.3	1653.8	1661.8	1667.8
12°	1640.7	1640.7	1641.4	1650.2	1658.7	1664.9
12.5°	1636.5	1636.3	1637.1	1646.3	1655.1	1662.1
13°	1632.2	1631.9	1632.4	1642.2	1651.8	1658.7
13.5°	1627.5	1627.3	1628.0	1638.1	1648.1	1655.6
14°	1622.6	1622.4	1623.1	1633.7	1644.3	1652.3
14.5°	1617.5	1617.5	1618.0	1629.1	1640.2	1648.7
15°	1612.3	1612.0	1612.8	1624.2	1635.8	1644.8
15.5°	1606.9	1606.4	1607.1	1618.7	1631.4	1640.7
16°	1600.9	1600.9	1601.2	1613.3	1626.5	1636.3
16.5°	1595.0	1595.0	1595.3	1607.6	1621.6	1631.9
17°	1588.6	1588.8	1589.1	1601.7	1616.2	1627.0
17.5°	1582.4	1582.4	1582.4	1595.8	1610.7	1622.4
18°	1575.4	1575.9	1575.7	1589.1	1604.8	1617.2
18.5°	1568.4	1568.7	1568.4	1582.4	1598.9	1611.8
19°	1561.2	1561.5	1561.2	1575.1	1592.4	1605.8
19.5°	1553.5	1554.5	1553.7	1568.2	1585.7	1599.9
20°	1545.7	1546.8	1545.5	1560.2	1578.8	1594.0
20.5°	1537.7	1538.5	1537.5	1552.7	1571.8	1587.5
21°	1529.2	1530.3	1529.0	1544.4	1564.6	1580.8

TEST NUMBER: P776199

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1502.4	1503.4	1501.9	1518.1	1540.6	1559.1
23°	1492.6	1494.1	1492.1	1509.1	1531.8	1551.4
23.5°	1482.5	1484.3	1482.5	1499.3	1523.0	1543.2
24°	1472.2	1474.3	1472.2	1489.5	1513.7	1534.9
24.5°	1461.9	1464.0	1461.6	1479.7	1504.5	1526.1
25°	1450.8	1453.1	1450.8	1468.9	1494.7	1517.4
25.5°	1439.7	1442.3	1439.7	1458.3	1484.9	1508.1
26°	1427.8	1430.9	1428.6	1447.2	1474.5	1498.3
26.5°	1416.5	1419.6	1416.8	1436.1	1464.2	1488.5
27°	1404.1	1407.5	1404.6	1424.5	1453.1	1478.4
27.5°	1391.7	1395.1	1392.5	1412.6	1442.0	1468.1
28°	1378.8	1382.4	1379.6	1400.2	1430.7	1457.5
28.5°	1365.2	1369.8	1367.0	1387.9	1419.1	1446.2
29°	1350.2	1356.1	1353.6	1375.2	1406.9	1434.8
29.5°	1334.7	1342.2	1339.6	1362.3	1394.3	1422.9
30°	1319.0	1327.5	1324.7	1349.2	1381.9	1411.1
30.5°	1302.2	1311.5	1308.9	1335.2	1369.0	1398.2
31°	1284.7	1295.0	1291.9	1320.3	1355.9	1385.5
31.5°	1266.1	1276.9	1274.9	1304.8	1342.2	1372.6
32°	1246.0	1257.8	1256.8	1288.0	1327.2	1359.2
32.5°	1224.8	1237.5	1238.0	1270.7	1312.0	1345.0
33°	1201.9	1215.3	1217.9	1252.2	1295.8	1330.3
33.5°	1175.0	1191.8	1195.4	1232.8	1278.7	1314.3
34°	1144.6	1164.5	1170.4	1211.7	1260.9	1298.3
34.5°	1110.5	1133.0	1139.7	1188.2	1241.6	1280.8
35°	1075.2	1097.4	1104.6	1161.1	1221.2	1262.2
35.5°	1038.6	1060.5	1066.9	1130.4	1198.5	1241.3
36°	1000.9	1025.2	1027.0	1097.1	1171.9	1219.9
36.5°	964.8	991.1	986.5	1061.0	1142.0	1195.4
37°	928.7	955.5	946.7	1023.9	1108.5	1167.0
37.5°	892.0	916.3	908.6	983.6	1071.6	1133.5
38°	854.4	875.5	871.4	942.1	1033.4	1097.4
38.5°	813.6	834.3	831.9	901.1	994.2	1059.7
39°	773.4	794.8	793.0	859.8	954.7	1022.1
39.5°	732.1	757.4	753.5	819.0	913.5	984.9
40°	692.4	720.8	715.1	776.5	873.2	947.8
40.5°	651.9	684.6	676.6	734.9	832.7	908.8
41°	612.7	647.0	640.3	694.2	793.2	870.1
41.5°	574.5	609.1	604.2	657.0	755.1	831.2
42°	536.3	571.4	567.8	619.1	716.4	792.2
42.5°	498.4	535.5	533.0	583.3	675.9	753.5
43°	462.0	501.5	499.4	548.7	638.0	716.1
43.5°	428.7	467.2	466.4	515.7	601.1	679.0



TEST NUMBER: P776199

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	342.3	369.9	378.7	425.9	496.8	567.8
45.5°	318.1	340.8	352.9	399.3	465.4	532.2
46°	295.9	314.7	328.9	374.3	435.2	497.1
46.5°	276.5	292.5	306.7	350.8	407.6	463.3
47°	259.5	273.4	286.3	328.6	380.5	430.3
47.5°	243.8	256.7	268.0	307.5	355.7	397.3
48°	231.7	242.2	251.5	287.9	332.3	368.1
48.5°	219.8	229.3	236.8	270.1	311.1	340.3
49°	207.7	217.5	222.9	253.3	291.0	315.0
49.5°	195.5	205.6	210.2	237.8	272.2	292.0
50°	183.7	194.5	198.4	222.9	255.1	273.4
50.5°	175.7	184.7	187.8	209.5	239.4	256.7
51°	167.9	176.4	178.8	197.1	224.9	241.5
51.5°	160.5	169.0	171.0	186.0	211.3	227.5
52°	153.0	161.5	163.6	177.2	198.9	215.4
52.5°	145.8	154.0	156.1	169.7	188.1	203.8
53°	138.8	146.5	148.6	162.0	179.0	192.7
53.5°	132.1	139.8	141.4	154.3	171.3	182.6
54°	126.1	133.1	134.7	146.8	163.3	174.9
54.5°	120.5	126.9	128.7	139.8	155.6	167.2
55°	115.1	121.2	122.8	133.1	148.1	159.2
55.5°	110.2	115.8	117.4	127.2	141.1	151.7
56°	105.3	110.7	112.0	121.2	134.4	144.5
56.5°	100.9	106.0	107.3	115.8	128.2	137.5
57°	96.7	101.4	102.7	110.9	122.3	130.8
57.5°	92.9	97.3	98.3	106.0	116.9	124.9
58°	88.7	93.1	94.4	101.6	111.7	118.9
58.5°	85.4	89.5	91.1	97.3	106.8	113.8
59°	81.8	86.2	87.5	93.1	102.2	108.6
59.5°	78.7	82.8	84.1	89.8	98.0	104.2
60°	75.6	79.5	80.7	86.4	93.9	99.6
60.5°	72.5	76.4	77.1	83.1	90.5	95.2
61°	69.7	73.3	74.0	79.7	87.2	91.6
61.5°	67.1	70.4	71.2	76.4	83.6	88.0
62°	64.5	67.8	68.6	73.5	80.2	84.4
62.5°	61.9	65.0	65.8	70.7	76.9	80.7
63°	59.3	62.4	63.2	67.8	73.8	77.1
63.5°	57.0	60.1	60.9	65.0	70.9	74.0
64°	54.9	57.8	58.3	62.7	67.8	70.9
64.5°	52.6	55.5	56.2	60.1	65.3	68.1
65°	50.6	53.4	53.9	57.8	62.7	65.3
65.5°	48.5	51.1	51.9	55.5	60.1	62.4
66°	46.7	49.0	49.5	53.4	57.8	60.1



TEST NUMBER: P776199

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	41.0	43.3	43.9	47.2	50.8	52.9
68°	39.5	41.5	42.0	45.1	48.8	50.6
68.5°	37.7	39.7	40.2	43.3	46.7	48.5
69°	36.1	38.2	38.7	41.5	44.6	46.4
69.5°	34.6	36.4	36.9	39.7	42.8	44.6
70°	33.0	34.8	35.3	38.2	41.0	42.6
70.5°	31.5	33.3	33.8	36.4	39.2	40.8
71°	29.9	31.7	32.2	34.8	37.4	39.0
71.5°	28.6	30.4	30.7	33.3	35.9	37.1
72°	27.3	28.9	29.2	31.7	34.1	35.6
72.5°	25.8	27.6	27.9	30.2	32.5	34.1
73°	24.5	26.1	26.6	28.9	31.0	32.5
73.5°	23.5	24.8	25.0	27.3	29.4	31.0
74°	21.9	23.5	23.7	26.1	28.1	29.4
74.5°	20.9	22.2	22.4	24.5	26.6	27.9
75°	19.6	20.9	21.4	23.2	25.3	26.6
75.5°	18.6	19.9	20.1	21.9	23.7	25.0
76°	17.3	18.6	18.8	20.9	22.7	23.7
76.5°	16.3	17.5	17.8	19.6	21.4	22.4
77°	15.2	16.3	16.5	18.3	20.1	21.2
77.5°	13.9	15.2	15.5	17.3	18.8	19.9
78°	13.2	14.2	14.4	16.0	17.5	18.8
78.5°	12.1	13.2	13.4	15.0	16.5	17.5
79°	11.1	12.1	12.4	13.9	15.2	16.5
79.5°	10.3	11.4	11.4	12.9	14.2	15.2
80°	9.3	10.3	10.6	11.9	13.2	14.2
80.5°	8.5	9.5	9.5	10.8	12.1	13.2
81°	7.5	8.5	8.8	10.1	11.1	12.1
81.5°	6.7	7.7	8.0	9.0	10.1	11.1
82°	5.9	7.0	7.2	8.3	9.3	10.3
82.5°	5.2	6.2	6.4	7.5	8.3	9.3
83°	4.4	5.4	5.4	6.4	7.5	8.5
83.5°	3.9	4.6	4.6	5.7	6.4	7.5
84°	3.1	3.9	4.1	4.9	5.7	6.7
84.5°	2.3	3.1	3.4	4.4	4.9	5.9
85°	1.8	2.6	2.6	3.6	4.1	5.2
85.5°	1.0	1.8	2.1	2.8	3.4	4.4
86°	0.5	1.3	1.3	2.3	2.8	3.6
86.5°	0.0	0.5	0.5	1.5	2.3	2.8
87°	0.0	0.0	0.0	1.0	1.8	2.3
87.5°	0.0	0.0	0.0	0.5	1.3	1.8
88°	0.0	0.0	0.0	0.0	0.8	1.3
88.5°	0.0	0.0	0.0	0.0	0.5	0.8



TEST NUMBER: P776199

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMW-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



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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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Scaled Data Report



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21.5°	1573.9	1594.5	1615.4	1632.7	1634.5	1637.8	1626.2	1604.0	1582.9	1560.2	1538.5
22°	1566.4	1588.0	1609.2	1627.0	1628.5	1632.2	1619.8	1596.6	1575.4	1551.7	1530.0



44°	641.8	721.0	793.0	845.6	826.3	830.4	760.7	656.3	581.7	502.0	436.0
44.5°	604.2	682.1	751.7	804.3	785.0	791.4	718.2	616.8	544.8	468.0	405.8



66.5°	57.5	61.7	65.3	67.1	64.0	62.9	58.6	53.1	49.5	47.5	46.2
67°	55.2	59.1	62.4	64.5	61.4	60.6	56.2	51.1	47.5	45.4	44.1



89°	0.3	1.3	2.3	3.4	2.6	2.6	1.3	0.3	0.0	0.0	0.0
89.5°	0.0	0.8	1.8	2.6	2.1	1.8	0.8	0.0	0.0	0.0	0.0

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21.5°	1520.7	1521.5	1520.2	1535.7	1556.8	1573.9
22°	1511.4	1512.7	1511.2	1527.4	1548.6	1566.4



44°	398.3	433.9	435.4	483.7	564.4	641.8
44.5°	369.2	400.9	405.5	454.5	529.9	604.2

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66.5°	44.6	47.2	47.7	51.1	55.2	57.5
67°	42.8	45.1	45.7	49.3	53.1	55.2

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89°	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

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Scaled Data Report



(END OF REPORT)