

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: P776097

Luminaire Tested: HCDJBL51525CSD-HCD6TRMW-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776097
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-HCD6TRMW-2500lm-3500K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

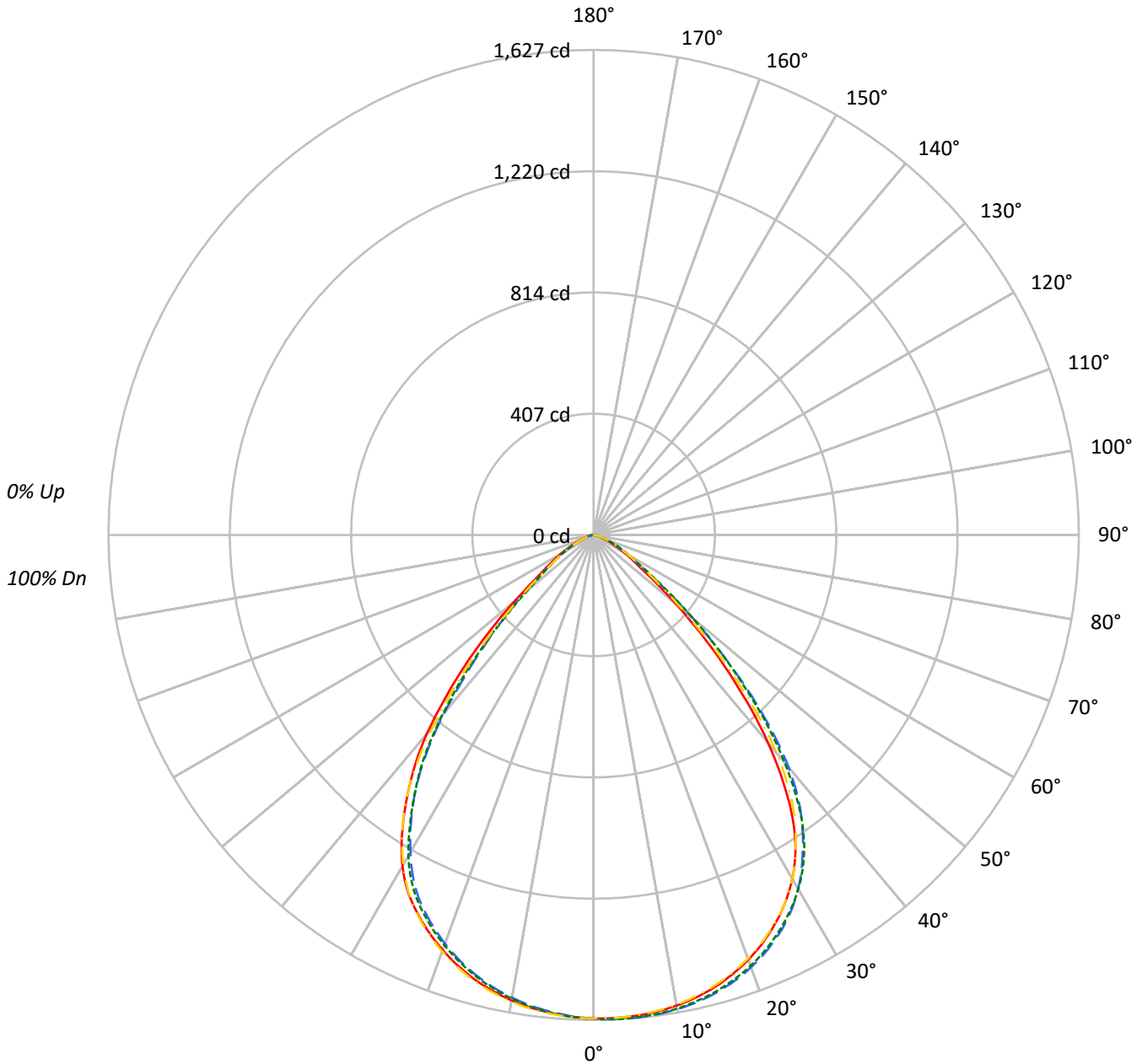
Lumens per Lamp: N/A
Luminaire Lumens: 2711.5 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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





TEST NUMBER: P776097

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-3500K

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	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	109	106	104	101	102	100	98	99	97	95	95	94	92	90								
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81								
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72								
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65								
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59								
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53								
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48								
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44								
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40								
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	88968	88968	88968	88968
5°	89126	89445	88642	88587
10°	89260	89806	88269	87935
15°	89115	89983	87594	86936
20°	88488	89730	86440	85442
25°	87072	88832	84676	83249
30°	84342	86855	81183	78664
35°	77892	82155	73395	69687
40°	65093	71198	62202	56549
45°	47927	54889	45943	40074
50°	30754	37005	29560	24724
55°	18389	22317	19316	16754
60°	12949	15174	14001	12181
65°	8847	10766	9858	8717
70°	6075	7806	6876	6315
75°	4194	5782	4893	4575
80°	2841	4420	3473	3252
85°	1258	3459	2076	1887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 56541 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	5.7
10°-20°	439.2	16.2
20°-30°	652.1	24.0
30°-40°	699.7	25.8
40°-50°	469.0	17.3
50°-60°	190.9	7.0
60°-70°	76.2	2.8
70°-80°	26.1	1.0
80°-90°	4.8	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°	1244.9	45.9
0°-40°	1944.6	71.7
0°-60°	2604.5	96.1
0°-90°	2711.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1623	1623	1623	1623	1623	
5°	1620	1625	1611	1610	1620	154
15°	1570	1586	1543	1532	1570	443
25°	1440	1469	1400	1376	1440	661
35°	1164	1228	1097	1041	1164	716
45°	618	708	593	517	618	477
55°	192	234	202	175	192	186
65°	68	83	76	67	68	70
75°	20	27	23	22	20	22
85°	2	6	3	3	2	3
90°	0	0	0	0	0	



TEST NUMBER: P776097

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9
0.5°	1622.1	1622.9	1623.9	1624.6	1624.9	1624.6	1622.6	1621.1	1621.3	1621.3	1622.1
1°	1622.6	1623.6	1624.6	1625.4	1625.6	1625.1	1622.6	1620.8	1620.6	1620.3	1620.8
1.5°	1622.6	1624.1	1625.4	1626.1	1625.9	1625.1	1622.6	1620.3	1620.1	1619.1	1619.6
2°	1622.4	1624.4	1625.9	1626.6	1626.1	1625.4	1622.4	1619.8	1619.1	1617.8	1618.1
2.5°	1622.1	1624.6	1626.1	1626.9	1626.4	1625.4	1622.1	1619.1	1618.1	1616.6	1616.6
3°	1621.8	1624.6	1626.4	1627.1	1626.4	1625.1	1621.6	1618.3	1617.1	1615.1	1615.1
3.5°	1621.6	1624.6	1626.6	1627.1	1626.4	1624.9	1620.8	1617.3	1615.6	1613.3	1613.1
4°	1621.1	1624.6	1626.4	1627.1	1626.1	1624.4	1620.1	1616.1	1614.1	1611.6	1611.3
4.5°	1620.3	1624.1	1626.4	1627.1	1625.9	1623.9	1619.3	1615.1	1612.6	1609.6	1609.3
5°	1619.6	1623.9	1626.1	1626.6	1625.4	1623.1	1618.1	1613.6	1610.8	1607.6	1607.1
5.5°	1618.8	1623.1	1625.6	1626.4	1624.9	1622.1	1617.1	1612.1	1609.1	1605.3	1604.5
6°	1617.6	1622.6	1625.1	1625.9	1624.1	1621.1	1615.8	1610.3	1607.1	1603.0	1602.3
6.5°	1616.3	1621.6	1624.4	1625.1	1623.1	1620.1	1614.3	1608.6	1605.0	1600.5	1599.5
7°	1615.1	1620.8	1623.6	1624.4	1622.4	1618.8	1612.6	1606.6	1602.8	1597.8	1596.8
7.5°	1613.6	1619.6	1622.6	1623.4	1621.1	1617.3	1611.1	1604.5	1600.3	1595.0	1593.8
8°	1611.8	1618.3	1621.6	1622.4	1619.8	1615.8	1609.1	1602.3	1597.8	1592.0	1590.8
8.5°	1610.1	1617.1	1620.3	1621.1	1618.6	1614.3	1607.1	1599.8	1594.8	1589.0	1587.5
9°	1607.8	1615.6	1619.1	1619.8	1616.8	1612.3	1605.0	1597.3	1592.0	1585.7	1583.7
9.5°	1605.8	1613.8	1617.3	1618.3	1615.1	1610.6	1602.5	1594.5	1589.0	1582.2	1580.2
10°	1603.5	1612.1	1615.8	1616.6	1613.3	1608.6	1600.0	1591.8	1585.7	1578.5	1576.7
10.5°	1601.0	1609.8	1613.8	1614.8	1611.1	1606.0	1597.5	1588.5	1582.5	1574.7	1572.7
11°	1598.3	1607.8	1611.8	1612.8	1609.1	1603.8	1594.8	1585.5	1578.7	1570.9	1568.4
11.5°	1595.5	1605.3	1609.6	1610.8	1606.6	1601.0	1591.8	1582.0	1575.0	1566.7	1564.2
12°	1592.3	1602.8	1607.3	1608.3	1604.3	1598.0	1588.5	1578.5	1570.9	1562.2	1559.7
12.5°	1589.0	1599.8	1604.8	1605.8	1601.5	1595.3	1585.2	1574.7	1566.9	1557.6	1554.9
13°	1585.7	1597.0	1602.3	1603.3	1598.5	1592.0	1581.7	1570.7	1562.4	1552.9	1550.1
13.5°	1582.2	1594.0	1599.3	1600.3	1595.5	1588.7	1578.0	1566.7	1557.9	1547.9	1544.9
14°	1578.5	1591.0	1596.3	1597.3	1592.5	1585.2	1574.2	1562.2	1553.4	1542.6	1539.3
14.5°	1574.5	1587.2	1593.0	1594.3	1589.0	1581.5	1569.9	1557.6	1548.4	1537.3	1533.8
15°	1570.2	1583.7	1589.5	1591.0	1585.5	1577.7	1565.7	1552.9	1543.4	1531.8	1528.1
15.5°	1565.9	1579.7	1585.7	1587.5	1581.5	1573.7	1561.4	1548.4	1537.8	1525.8	1522.0
16°	1561.2	1575.7	1582.0	1583.5	1577.5	1569.4	1556.9	1543.1	1532.6	1519.8	1515.8
16.5°	1556.4	1571.4	1578.0	1579.5	1573.4	1564.9	1552.1	1537.8	1526.8	1513.8	1509.5
17°	1551.1	1567.2	1573.9	1575.5	1568.9	1560.4	1547.1	1532.3	1520.8	1507.2	1503.0
17.5°	1546.1	1562.4	1569.4	1570.9	1564.4	1555.4	1541.8	1526.8	1514.8	1500.5	1496.0
18°	1540.6	1557.4	1564.7	1566.4	1559.4	1550.4	1536.3	1520.8	1508.5	1493.7	1488.9
18.5°	1534.8	1552.4	1559.9	1561.4	1554.4	1545.1	1530.6	1514.8	1502.2	1486.7	1481.7
19°	1529.1	1546.9	1554.6	1556.4	1549.1	1539.6	1524.8	1508.5	1495.5	1479.7	1474.1
19.5°	1523.0	1541.3	1549.4	1551.1	1543.9	1533.8	1518.8	1502.2	1488.7	1472.1	1466.4
20°	1516.8	1535.6	1543.9	1545.9	1538.1	1527.8	1512.5	1495.5	1481.7	1464.6	1458.6
20.5°	1510.2	1529.6	1537.8	1540.1	1532.3	1521.8	1506.0	1488.7	1474.4	1456.3	1450.6
21°	1503.2	1523.3	1532.1	1534.1	1526.0	1515.3	1499.2	1481.7	1466.9	1448.6	1442.0



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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°	1481.4	1503.0	1512.3	1515.0	1506.5	1495.0	1477.9	1459.1	1443.5	1422.7	1415.7
23°	1473.4	1495.7	1505.5	1508.0	1499.2	1487.4	1470.1	1451.3	1435.0	1413.7	1406.4
23.5°	1465.1	1488.2	1498.0	1500.7	1491.9	1479.7	1462.1	1443.3	1426.7	1404.7	1396.9
24°	1456.8	1480.4	1490.7	1493.4	1484.4	1471.9	1454.1	1434.8	1418.0	1395.4	1387.1
24.5°	1448.3	1472.1	1482.4	1485.7	1476.6	1464.1	1446.0	1426.2	1408.9	1385.9	1377.3
25°	1439.5	1463.9	1474.6	1477.9	1468.6	1455.8	1437.5	1417.5	1399.9	1376.1	1367.3
25.5°	1430.2	1455.6	1466.1	1469.4	1460.3	1447.3	1428.7	1408.7	1390.6	1365.8	1356.8
26°	1421.0	1446.8	1457.6	1461.1	1451.8	1438.8	1420.0	1399.4	1380.8	1355.0	1345.5
26.5°	1411.2	1437.5	1448.1	1452.3	1443.0	1429.5	1410.4	1389.9	1370.8	1343.2	1333.4
27°	1401.4	1427.7	1439.0	1443.0	1433.8	1420.2	1400.7	1379.6	1360.3	1330.9	1320.7
27.5°	1390.4	1418.0	1429.0	1433.5	1424.2	1410.7	1390.4	1368.8	1349.2	1318.4	1307.1
28°	1380.1	1407.4	1418.5	1423.5	1414.4	1400.7	1379.6	1357.5	1337.2	1305.1	1292.8
28.5°	1368.3	1396.4	1406.9	1412.9	1404.9	1390.4	1368.6	1346.0	1324.7	1291.3	1278.0
29°	1357.0	1384.9	1395.9	1401.9	1394.1	1379.8	1356.8	1333.4	1311.6	1276.0	1262.0
29.5°	1344.7	1373.1	1383.9	1390.4	1383.3	1368.6	1344.7	1320.7	1297.6	1260.7	1245.7
30°	1332.4	1360.8	1371.6	1378.6	1372.1	1357.3	1331.7	1306.9	1282.5	1244.9	1228.9
30.5°	1318.6	1347.7	1358.3	1366.3	1360.8	1344.7	1318.4	1292.3	1267.2	1228.4	1211.8
31°	1305.4	1334.2	1345.2	1353.5	1348.5	1332.2	1304.9	1277.5	1250.7	1210.8	1193.8
31.5°	1290.6	1320.4	1331.2	1339.7	1335.7	1319.1	1290.3	1262.0	1233.6	1192.8	1176.4
32°	1275.3	1305.6	1316.4	1326.2	1322.7	1305.1	1275.8	1245.2	1215.8	1174.4	1158.1
32.5°	1259.0	1290.3	1301.6	1311.4	1308.6	1291.1	1260.2	1228.1	1197.0	1155.1	1139.8
33°	1242.7	1274.5	1286.3	1296.6	1294.1	1276.3	1244.4	1210.3	1178.0	1135.6	1120.5
33.5°	1224.6	1258.7	1270.7	1281.0	1278.8	1260.5	1228.4	1192.2	1158.1	1115.3	1101.7
34°	1205.3	1241.9	1255.2	1265.0	1263.0	1244.9	1211.8	1173.2	1138.1	1093.9	1080.9
34.5°	1184.7	1225.4	1238.9	1248.9	1245.7	1227.1	1194.8	1153.1	1117.8	1072.9	1061.1
35°	1163.9	1207.0	1222.1	1231.6	1227.6	1209.8	1176.7	1133.3	1096.7	1051.3	1039.5
35.5°	1142.1	1189.0	1205.0	1214.3	1209.1	1191.5	1158.6	1114.0	1076.4	1029.2	1017.4
36°	1118.5	1169.9	1188.0	1196.5	1189.2	1173.2	1139.6	1092.9	1055.3	1006.7	993.9
36.5°	1094.2	1150.9	1169.4	1178.5	1168.2	1152.9	1119.5	1072.9	1034.3	983.6	970.3
37°	1069.6	1130.1	1150.9	1159.4	1146.1	1132.1	1098.2	1051.6	1012.2	960.3	945.0
37.5°	1044.0	1108.7	1130.6	1139.1	1122.8	1109.7	1076.4	1031.2	990.4	937.2	919.1
38°	1018.0	1085.9	1110.5	1118.5	1098.2	1087.7	1053.8	1008.9	968.0	911.6	893.1
38.5°	991.4	1062.8	1088.7	1096.4	1073.4	1062.8	1030.5	987.6	945.2	885.8	866.2
39°	964.8	1038.3	1065.9	1073.9	1048.3	1037.8	1006.2	964.0	921.4	859.2	837.4
39.5°	937.4	1011.9	1041.8	1049.8	1022.0	1011.2	980.8	940.7	895.8	833.1	808.5
40°	909.6	984.1	1017.2	1024.2	994.9	983.3	954.5	914.6	869.2	804.0	778.7
40.5°	881.5	955.5	990.9	997.1	968.5	954.0	926.9	888.5	841.4	775.7	748.4
41°	852.7	926.2	963.0	968.8	941.2	924.7	898.6	860.5	812.8	747.9	718.5
41.5°	823.3	896.6	935.4	939.5	913.9	895.1	868.7	832.6	784.5	720.0	688.2
42°	793.2	866.5	906.1	909.1	885.3	864.7	837.6	802.3	755.4	690.9	659.8
42.5°	762.9	837.4	876.5	879.0	857.2	833.6	807.5	772.9	728.0	663.6	632.2
43°	732.8	808.0	845.2	849.4	828.4	804.3	777.2	742.6	700.7	635.5	605.2
43.5°	703.5	778.9	814.8	819.3	797.8	773.2	747.1	712.7	673.6	608.7	578.6



TEST NUMBER: P776097

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	618.2	690.4	720.8	729.3	708.0	681.9	655.3	626.2	592.6	528.9	503.1
45.5°	590.9	660.8	688.7	699.7	678.1	652.3	625.5	597.9	565.8	504.1	479.8
46°	563.0	631.7	656.8	670.4	650.3	623.0	595.1	569.8	539.4	479.8	457.2
46.5°	535.2	602.9	626.5	641.3	622.2	594.9	566.3	541.7	513.1	456.7	434.9
47°	507.6	573.3	595.9	611.4	594.4	567.3	537.2	513.1	487.3	433.1	414.1
47.5°	481.5	545.2	566.3	582.1	566.0	540.4	509.9	486.0	462.5	411.8	394.0
48°	455.7	517.1	537.2	553.7	538.4	514.6	483.0	459.7	438.1	390.7	374.9
48.5°	430.4	489.8	509.9	525.7	511.6	489.8	457.9	434.1	414.6	370.7	355.9
49°	406.3	463.0	482.8	497.8	485.3	464.7	433.1	409.3	390.5	351.1	338.3
49.5°	383.5	436.4	456.7	471.5	459.2	440.1	409.8	385.7	367.9	332.5	321.3
50°	360.6	410.8	430.4	444.9	433.9	416.6	386.7	363.6	346.6	315.0	305.0
50.5°	339.1	386.0	406.0	419.1	409.0	393.5	365.6	342.6	325.5	298.4	289.4
51°	318.3	361.9	382.2	393.5	386.0	371.4	345.3	322.8	306.0	282.9	274.6
51.5°	298.4	338.8	359.4	370.2	363.1	350.4	326.5	304.5	287.9	267.8	260.3
52°	279.6	317.2	337.3	347.3	341.8	329.3	308.2	286.9	271.6	253.5	247.0
52.5°	261.8	297.2	316.5	325.3	320.3	309.5	291.2	270.9	256.3	240.3	234.5
53°	245.0	278.4	296.7	304.2	300.2	291.4	274.9	256.3	243.3	228.2	223.7
53.5°	230.0	260.8	277.9	285.1	281.1	274.1	259.8	242.8	231.2	217.7	212.7
54°	215.9	244.3	260.6	267.1	263.1	257.8	246.0	230.5	221.4	206.9	201.9
54.5°	203.6	229.5	243.5	250.3	246.3	242.8	233.0	220.4	211.7	196.4	191.1
55°	192.4	215.9	228.0	234.7	233.5	230.5	221.9	210.7	202.1	185.8	180.1
55.5°	181.8	203.6	213.9	220.7	220.9	218.4	211.2	200.6	192.4	176.8	171.3
56°	172.5	191.9	200.9	207.7	208.2	206.4	200.1	190.6	182.6	168.5	163.3
56.5°	164.3	181.1	189.3	195.6	195.4	194.4	189.1	180.6	174.3	160.8	156.2
57°	157.2	171.5	178.8	184.6	182.8	182.3	178.3	172.3	166.5	154.5	150.0
57.5°	150.5	163.3	169.3	174.5	173.5	173.3	169.5	164.3	159.3	148.0	143.7
58°	144.0	156.2	161.5	165.8	165.0	164.8	161.8	157.5	153.0	141.7	137.4
58.5°	137.4	149.5	154.7	158.5	158.2	158.0	155.2	151.2	146.5	135.4	130.9
59°	130.7	142.9	148.2	152.0	151.5	151.5	148.7	144.7	140.2	129.2	124.9
59.5°	124.4	136.2	141.4	145.5	145.0	145.0	142.4	138.2	133.7	123.1	119.1
60°	118.1	129.7	134.7	138.7	138.4	138.2	135.7	132.2	127.7	117.4	113.6
60.5°	111.9	123.1	128.2	132.2	131.7	131.7	129.4	125.9	121.9	111.9	108.1
61°	106.1	117.1	121.9	125.6	125.4	125.4	123.4	120.1	116.1	106.6	102.8
61.5°	100.6	111.1	115.9	119.4	118.9	119.4	117.4	114.4	110.3	101.6	98.1
62°	95.3	105.6	109.8	113.4	113.1	113.4	111.9	108.8	104.8	96.6	93.3
62.5°	90.0	100.3	104.3	107.6	107.3	107.8	106.3	103.6	99.6	91.8	88.8
63°	85.5	95.0	99.1	102.1	102.1	102.3	101.1	98.6	94.5	87.0	84.3
63.5°	81.3	89.5	94.0	97.1	96.8	97.3	96.1	93.8	89.5	82.5	80.3
64°	76.7	85.3	89.8	92.0	92.0	92.3	91.3	89.3	84.8	78.2	76.2
64.5°	72.5	81.0	85.3	87.8	87.5	87.8	86.8	84.5	80.3	74.2	72.5
65°	68.2	76.7	81.0	83.5	83.0	83.5	82.5	80.3	76.0	70.5	68.7
65.5°	64.2	72.5	76.7	79.2	78.7	79.2	78.2	76.2	72.0	66.7	65.5
66°	60.7	68.5	72.5	75.2	74.7	75.2	74.5	72.2	68.0	62.9	61.9



TEST NUMBER: P776097

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	50.9	57.9	61.7	63.7	63.7	64.2	63.7	61.4	57.4	53.4	52.9
68°	48.2	54.9	58.4	60.4	60.4	60.9	60.4	58.2	54.2	50.4	50.2
68.5°	45.1	51.7	55.2	57.2	57.2	57.7	57.2	55.2	51.2	47.6	47.4
69°	42.6	48.9	52.4	54.2	54.2	54.7	54.4	52.2	48.4	44.9	44.9
69.5°	40.1	46.1	49.4	51.2	51.4	51.7	51.4	49.2	45.6	42.4	42.4
70°	37.9	43.4	46.9	48.7	48.7	49.2	48.7	46.6	42.9	40.1	40.1
70.5°	35.6	41.1	44.1	45.9	45.9	46.4	46.1	43.9	40.4	37.6	37.9
71°	33.4	38.6	41.9	43.4	43.6	43.9	43.6	41.6	38.1	35.6	35.9
71.5°	31.3	36.4	39.6	41.1	41.1	41.6	41.4	39.1	35.9	33.4	33.9
72°	29.3	34.4	37.4	38.9	38.9	39.4	39.1	36.9	33.9	31.3	31.9
72.5°	27.6	32.4	35.1	36.6	36.6	37.1	36.9	34.9	31.9	29.6	30.1
73°	25.8	30.3	33.1	34.6	34.6	35.1	34.9	32.6	29.8	27.8	28.3
73.5°	24.3	28.3	31.3	32.6	32.9	33.1	32.9	30.8	28.1	26.1	26.6
74°	22.8	26.6	29.3	30.8	30.8	31.3	30.8	28.8	26.3	24.3	25.1
74.5°	21.3	25.1	27.6	29.1	29.1	29.3	29.1	27.1	24.6	22.8	23.3
75°	19.8	23.6	26.1	27.3	27.3	27.8	27.3	25.6	23.1	21.6	21.8
75.5°	18.6	22.1	24.3	25.6	25.8	26.1	25.8	23.8	21.6	20.1	20.6
76°	17.3	20.6	22.8	24.1	24.3	24.6	24.1	22.3	20.3	18.8	19.3
76.5°	16.1	19.1	21.6	22.6	22.8	23.1	22.6	21.1	19.1	17.3	18.1
77°	14.8	17.8	20.1	21.3	21.3	21.6	21.3	19.8	17.6	16.1	16.8
77.5°	13.8	16.6	18.8	19.8	20.1	20.3	20.1	18.3	16.3	14.8	15.5
78°	12.8	15.3	17.6	18.6	18.8	19.1	18.8	17.1	15.0	13.8	14.3
78.5°	11.8	14.3	16.3	17.3	17.6	17.8	17.3	15.8	14.0	12.8	13.3
79°	10.8	13.3	15.0	16.3	16.3	16.6	16.1	14.5	13.0	11.8	12.3
79.5°	9.8	12.3	14.0	15.0	15.0	15.3	15.0	13.5	12.0	10.8	11.3
80°	9.0	11.3	13.0	14.0	14.0	14.3	13.8	12.3	11.0	9.8	10.3
80.5°	8.3	10.3	12.0	13.0	13.0	13.3	12.8	11.3	10.0	9.0	9.5
81°	7.5	9.3	11.0	12.0	12.0	12.3	11.8	10.5	9.3	8.0	8.5
81.5°	6.5	8.5	10.0	11.0	11.0	11.3	11.0	9.5	8.3	7.3	7.8
82°	6.0	7.8	9.3	10.3	10.3	10.3	10.0	8.5	7.5	6.5	7.0
82.5°	5.3	6.8	8.5	9.3	9.3	9.5	9.3	7.8	6.8	5.8	6.3
83°	4.5	6.0	7.8	8.5	8.5	8.8	8.3	7.0	6.0	5.0	5.5
83.5°	4.0	5.3	7.0	7.8	7.8	8.0	7.5	6.3	5.3	4.3	4.8
84°	3.3	4.8	6.0	7.0	7.0	7.3	6.8	5.5	4.5	3.5	4.3
84.5°	2.8	4.0	5.5	6.3	6.3	6.5	6.0	4.8	4.0	3.0	3.8
85°	2.0	3.3	4.8	5.5	5.5	5.8	5.3	4.0	3.3	2.3	3.0
85.5°	1.5	2.8	4.3	5.0	5.0	5.0	4.8	3.5	2.8	2.0	2.5
86°	1.3	2.3	3.5	4.3	4.3	4.5	4.0	3.0	2.0	1.5	2.0
86.5°	1.0	1.8	3.0	3.8	3.8	3.8	3.5	2.5	1.8	1.3	1.5
87°	0.8	1.5	2.5	3.0	3.0	3.3	3.0	2.0	1.3	1.0	1.0
87.5°	0.5	1.3	2.0	2.5	2.5	2.5	2.5	1.8	1.0	0.8	0.8
88°	0.3	0.8	1.5	2.0	2.0	2.0	1.8	1.3	0.8	0.3	0.3
88.5°	0.0	0.5	1.0	1.5	1.5	1.5	1.3	1.0	0.5	0.0	0.0



TEST NUMBER: P776097
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776097

CATALOG NUMBER: HCDJBL1525CSD-HCD6TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1622.9	1622.9	1622.9	1622.9	1622.9	1622.9
0.5°	1622.6	1623.4	1623.6	1622.1	1621.3	1622.1
1°	1621.6	1622.4	1622.9	1621.8	1621.3	1622.6
1.5°	1620.3	1621.1	1622.1	1621.3	1621.1	1622.6
2°	1618.8	1620.1	1620.8	1620.6	1620.6	1622.4
2.5°	1617.3	1618.6	1619.8	1619.8	1620.1	1622.1
3°	1615.6	1617.1	1618.6	1618.8	1619.6	1621.8
3.5°	1613.8	1615.6	1617.1	1617.8	1618.8	1621.6
4°	1612.1	1613.6	1615.6	1616.6	1618.1	1621.1
4.5°	1609.8	1611.8	1613.8	1615.1	1617.1	1620.3
5°	1607.6	1609.8	1611.8	1613.6	1615.8	1619.6
5.5°	1605.0	1607.3	1609.8	1612.1	1614.6	1618.8
6°	1602.5	1605.0	1607.6	1610.1	1613.1	1617.6
6.5°	1600.0	1602.5	1605.3	1608.3	1611.6	1616.3
7°	1596.8	1599.5	1602.8	1606.0	1609.6	1615.1
7.5°	1594.0	1596.8	1600.3	1603.8	1607.8	1613.6
8°	1590.8	1593.5	1597.5	1601.3	1605.8	1611.8
8.5°	1587.5	1590.5	1594.5	1598.8	1603.8	1610.1
9°	1584.0	1587.0	1591.3	1596.0	1601.3	1607.8
9.5°	1580.2	1583.5	1588.0	1593.0	1598.8	1605.8
10°	1576.5	1579.7	1584.5	1590.0	1596.0	1603.5
10.5°	1572.4	1576.0	1581.0	1586.5	1593.3	1601.0
11°	1567.9	1571.7	1577.0	1583.0	1590.3	1598.3
11.5°	1563.7	1567.4	1572.9	1579.2	1587.0	1595.5
12°	1558.9	1562.9	1568.4	1575.5	1583.5	1592.3
12.5°	1554.4	1558.1	1564.2	1571.4	1580.0	1589.0
13°	1549.1	1553.4	1559.4	1567.2	1576.2	1585.7
13.5°	1543.9	1548.4	1554.6	1562.7	1572.2	1582.2
14°	1538.3	1543.1	1549.6	1557.9	1567.9	1578.5
14.5°	1532.8	1537.3	1544.4	1553.1	1563.7	1574.5
15°	1527.1	1531.8	1539.1	1548.1	1559.2	1570.2
15.5°	1521.0	1526.0	1533.3	1542.9	1554.1	1565.9
16°	1514.8	1519.8	1527.3	1537.3	1549.4	1561.2
16.5°	1508.5	1513.8	1521.3	1531.8	1544.1	1556.4
17°	1501.7	1507.2	1515.3	1525.8	1538.6	1551.1
17.5°	1495.2	1500.5	1508.7	1519.8	1532.8	1546.1
18°	1487.7	1493.7	1502.2	1513.8	1527.1	1540.6
18.5°	1480.7	1486.7	1495.5	1507.0	1520.8	1534.8
19°	1473.1	1479.4	1488.4	1500.2	1514.5	1529.1
19.5°	1465.4	1472.1	1481.2	1493.4	1508.2	1523.0
20°	1457.3	1464.6	1473.9	1486.4	1501.5	1516.8
20.5°	1449.3	1456.8	1466.4	1479.2	1494.4	1510.2
21°	1441.0	1448.8	1458.3	1471.4	1487.2	1503.2

TEST NUMBER: P776097

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1414.7	1423.5	1433.5	1447.3	1464.1	1481.4
23°	1405.4	1414.4	1424.7	1438.8	1455.6	1473.4
23.5°	1395.9	1404.9	1416.0	1430.0	1447.0	1465.1
24°	1386.4	1395.6	1406.4	1420.7	1438.3	1456.8
24.5°	1376.6	1386.1	1397.1	1411.4	1429.2	1448.3
25°	1366.5	1376.3	1387.4	1401.9	1420.0	1439.5
25.5°	1356.0	1366.0	1377.6	1392.1	1410.4	1430.2
26°	1344.5	1355.5	1366.5	1381.6	1400.7	1421.0
26.5°	1332.7	1344.0	1355.3	1370.3	1390.6	1411.2
27°	1319.9	1332.2	1343.0	1358.8	1380.1	1401.4
27.5°	1306.4	1318.9	1330.4	1346.7	1368.8	1390.4
28°	1292.3	1305.6	1317.1	1333.4	1357.5	1380.1
28.5°	1277.8	1290.6	1303.1	1320.4	1345.2	1368.3
29°	1262.2	1275.5	1288.6	1306.9	1332.7	1357.0
29.5°	1246.4	1259.2	1273.3	1292.6	1319.6	1344.7
30°	1229.4	1242.7	1257.2	1277.3	1305.9	1332.4
30.5°	1211.8	1223.8	1240.4	1262.5	1291.8	1318.6
31°	1193.5	1206.0	1222.3	1246.4	1276.5	1305.4
31.5°	1175.2	1186.5	1204.3	1230.4	1261.0	1290.6
32°	1155.4	1166.2	1185.5	1213.1	1244.9	1275.3
32.5°	1135.3	1144.8	1166.2	1196.5	1228.1	1259.0
33°	1114.5	1125.5	1146.4	1179.0	1210.3	1242.7
33.5°	1092.9	1104.7	1125.8	1160.4	1192.5	1224.6
34°	1071.6	1083.7	1105.5	1140.3	1173.9	1205.3
34.5°	1049.8	1061.8	1084.4	1120.8	1154.1	1184.7
35°	1027.2	1041.3	1063.6	1100.0	1133.6	1163.9
35.5°	1004.7	1020.2	1042.8	1078.4	1112.5	1142.1
36°	981.3	998.6	1020.7	1054.3	1089.9	1118.5
36.5°	958.0	975.8	998.9	1031.7	1066.4	1094.2
37°	933.7	952.5	975.8	1007.2	1040.8	1069.6
37.5°	908.9	928.7	951.5	982.1	1015.2	1044.0
38°	883.3	903.3	926.4	955.5	986.9	1018.0
38.5°	856.2	876.5	900.3	927.9	959.3	991.4
39°	828.6	848.4	873.5	898.8	928.4	964.8
39.5°	800.5	819.3	844.4	869.2	898.6	937.4
40°	771.9	790.2	815.6	838.6	867.2	909.6
40.5°	743.8	761.6	785.2	808.0	836.9	881.5
41°	715.2	733.6	755.4	776.9	806.3	852.7
41.5°	686.7	706.2	725.5	746.3	775.4	823.3
42°	658.8	679.1	695.9	715.8	744.3	793.2
42.5°	631.0	652.1	666.3	685.2	714.7	762.9
43°	603.4	625.5	637.8	654.1	684.7	732.8
43.5°	575.8	597.4	609.2	624.5	655.1	703.5



TEST NUMBER: P776097

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	498.8	516.9	524.6	537.7	570.3	618.2
45.5°	474.7	490.5	497.6	510.6	544.2	590.9
46°	451.4	465.5	470.7	484.5	518.6	563.0
46.5°	427.6	440.9	444.6	459.7	493.3	535.2
47°	405.8	416.8	419.8	434.6	468.5	507.6
47.5°	385.0	392.7	396.2	411.8	444.1	481.5
48°	365.4	369.9	373.4	389.5	420.3	455.7
48.5°	345.3	348.1	352.1	368.2	398.0	430.4
49°	327.3	327.5	331.8	348.1	375.4	406.3
49.5°	310.0	308.0	312.7	329.0	354.1	383.5
50°	293.7	289.9	294.9	310.5	333.0	360.6
50.5°	277.6	272.9	278.1	292.9	313.7	339.1
51°	263.6	258.1	262.6	276.9	294.9	318.3
51.5°	249.8	244.8	248.8	261.8	277.6	298.4
52°	236.7	232.7	236.0	247.5	261.6	279.6
52.5°	226.0	221.7	224.0	234.0	246.3	261.8
53°	215.4	211.4	213.2	221.4	232.0	245.0
53.5°	204.9	201.6	202.6	209.7	218.4	230.0
54°	194.1	192.6	193.1	198.6	206.1	215.9
54.5°	183.6	183.8	184.1	188.3	194.9	203.6
55°	174.5	175.3	175.3	178.8	184.6	192.4
55.5°	166.5	167.3	167.3	169.8	174.8	181.8
56°	159.3	160.0	160.0	162.0	166.0	172.5
56.5°	152.7	153.7	153.5	155.2	158.7	164.3
57°	146.5	147.2	147.2	148.7	152.2	157.2
57.5°	140.2	140.9	140.7	142.2	145.7	150.5
58°	133.9	134.7	134.4	135.7	139.2	144.0
58.5°	127.7	128.4	127.9	129.4	132.4	137.4
59°	121.9	122.4	122.1	123.1	125.9	130.7
59.5°	116.1	116.9	116.4	117.1	119.9	124.4
60°	110.3	111.1	110.6	111.6	114.1	118.1
60.5°	105.3	105.8	105.3	106.1	108.3	111.9
61°	100.3	100.8	100.1	100.8	102.8	106.1
61.5°	95.3	95.8	95.3	96.1	97.8	100.6
62°	90.8	91.3	90.5	91.3	93.0	95.3
62.5°	86.3	87.3	86.3	87.0	88.5	90.0
63°	82.0	83.3	82.3	83.0	84.3	85.5
63.5°	78.0	79.0	78.2	78.7	80.0	81.3
64°	74.2	75.0	74.2	74.7	75.7	76.7
64.5°	70.5	70.7	70.2	70.5	71.5	72.5
65°	67.0	67.2	66.7	67.0	67.7	68.2
65.5°	63.4	63.7	63.2	63.4	64.0	64.2
66°	60.2	60.4	59.9	60.2	60.4	60.7



TEST NUMBER: P776097

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	51.4	51.7	51.2	51.2	51.2	50.9
68°	48.7	48.9	48.4	48.7	48.2	48.2
68.5°	46.1	46.4	45.9	45.9	45.6	45.1
69°	43.6	43.9	43.4	43.6	42.9	42.6
69.5°	41.4	41.6	41.1	41.1	40.6	40.1
70°	39.1	39.4	38.9	38.9	38.1	37.9
70.5°	36.9	37.1	36.6	36.6	35.9	35.6
71°	34.9	35.1	34.6	34.6	33.9	33.4
71.5°	32.9	33.1	32.6	32.6	31.9	31.3
72°	31.1	31.1	30.8	30.8	29.8	29.3
72.5°	29.3	29.3	29.1	29.1	28.1	27.6
73°	27.6	27.6	27.3	27.3	26.3	25.8
73.5°	25.8	26.1	25.6	25.6	24.6	24.3
74°	24.3	24.3	24.1	24.1	23.1	22.8
74.5°	22.8	22.8	22.6	22.6	21.6	21.3
75°	21.6	21.6	21.3	21.1	20.3	19.8
75.5°	20.3	20.1	19.8	19.8	18.8	18.6
76°	19.1	18.8	18.6	18.3	17.6	17.3
76.5°	17.8	17.6	17.3	17.3	16.3	16.1
77°	16.6	16.6	16.3	16.1	15.0	14.8
77.5°	15.3	15.3	15.0	14.8	14.0	13.8
78°	14.0	14.3	14.0	13.8	12.8	12.8
78.5°	13.0	13.3	13.0	12.8	11.8	11.8
79°	12.0	12.3	12.0	11.8	11.0	10.8
79.5°	11.3	11.3	11.0	10.8	10.0	9.8
80°	10.3	10.3	10.3	9.8	9.0	9.0
80.5°	9.3	9.5	9.3	9.0	8.3	8.3
81°	8.5	8.8	8.5	8.3	7.5	7.5
81.5°	7.8	8.0	7.8	7.5	6.5	6.5
82°	7.0	7.3	7.0	6.8	5.8	6.0
82.5°	6.3	6.3	6.3	6.0	5.0	5.3
83°	5.5	5.8	5.5	5.3	4.3	4.5
83.5°	5.0	5.0	4.8	4.5	3.8	4.0
84°	4.3	4.3	4.3	4.0	3.3	3.3
84.5°	3.8	3.8	3.5	3.5	2.5	2.8
85°	3.0	3.0	3.0	3.0	2.3	2.0
85.5°	2.5	2.5	2.5	2.3	1.8	1.5
86°	2.0	2.0	2.0	1.8	1.5	1.3
86.5°	1.5	1.5	1.3	1.3	1.0	1.0
87°	0.8	1.0	0.8	0.8	0.8	0.8
87.5°	0.3	0.5	0.3	0.5	0.5	0.5
88°	0.0	0.0	0.0	0.0	0.3	0.3
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776097

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-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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Scaled Data Report





21.5°	1496.2	1516.8	1525.5	1528.1	1519.8	1508.7	1492.4	1474.4	1459.3	1440.0	1433.5
22°	1488.9	1510.0	1519.3	1521.5	1513.3	1502.0	1485.2	1466.9	1451.6	1431.5	1424.7



44°	674.6	749.6	783.2	789.5	767.4	742.8	716.0	683.1	646.8	580.8	552.7
44.5°	646.3	719.5	752.1	759.4	737.1	712.5	684.7	654.8	619.4	555.0	527.9



66.5°	57.2	65.0	68.5	71.0	70.7	71.2	70.7	68.5	64.2	59.7	58.9
67°	53.9	61.2	65.0	67.2	67.2	67.7	67.0	65.0	60.7	56.4	55.9



89°	0.0	0.3	0.5	1.0	1.0	0.8	0.5	0.3	0.0	0.0
89.5°	0.0	0.0	0.3	0.5	0.5	0.5	0.3	0.0	0.0	0.0

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21.5°	1432.5	1440.5	1450.3	1463.6	1479.7	1496.2
22°	1423.7	1432.0	1441.8	1455.6	1472.1	1488.9



44°	549.7	570.0	580.8	595.4	626.0	674.6
44.5°	524.1	543.5	552.2	566.5	597.9	646.3



66.5°	57.2	57.4	56.9	57.2	57.2	57.2
67°	54.2	54.4	53.9	54.2	54.2	53.9

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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)