

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: P775994

Luminaire Tested: HCDJBS1525CSD-HCD4TRMB-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775994
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-HCD4TRMB-2500lm-5000K
Description: 4 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1635.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.94
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

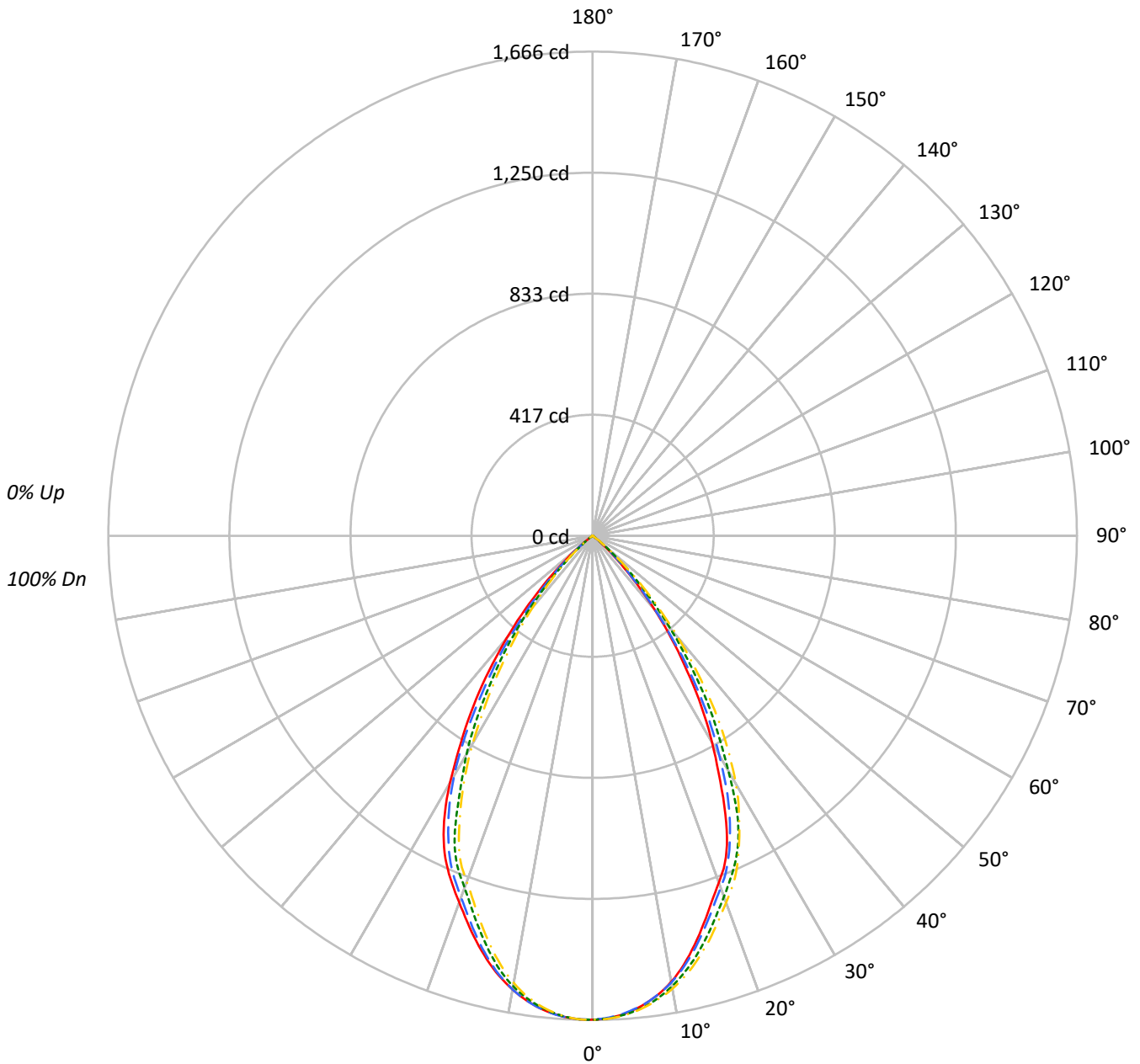
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	82	80																			
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74																			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69																			
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59																			
8	78	68	62	58	77	67	62	57	66	61	57	65	60	57	64	60	57	55																			
9	74	64	58	54	73	63	58	54	62	57	53	62	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	209590	209590	209590	209590
5°	206828	207548	208167	207776
10°	199099	201079	202587	201143
15°	184894	190001	192555	187851
20°	170060	176917	179716	172551
25°	151010	163994	167215	155676
30°	119510	135597	142543	125919
35°	86880	103211	109925	92549
40°	54378	68162	75637	59767
45°	24579	36539	42092	28085
50°	7127	11179	14567	8399
55°	1141	1141	1536	1426
60°	453	453	529	453
65°	298	298	298	298
70°	184	294	294	294
75°	146	243	146	243
80°	0	217	217	217
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 42092 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	9.5
10°-20°	405.5	24.8
20°-30°	517.6	31.7
30°-40°	395.7	24.2
40°-50°	147.9	9.0
50°-60°	12.1	0.7
60°-70°	1.1	0.1
70°-80°	0.4	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°	1077.7	65.9
0°-40°	1473.4	90.1
0°-60°	1633.4	99.9
0°-90°	1635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1665	1665	1665	1665	1665	
5°	1637	1643	1648	1645	1637	154
15°	1419	1458	1478	1442	1419	397
25°	1088	1181	1204	1121	1088	489
35°	566	672	716	602	566	352
45°	138	205	236	158	138	116
55°	5	5	7	6	5	8
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1665.4	1665.4	1665.4	1665.4	1665.4	1665.4	1665.4	1665.4	1665.4	1665.4	1665.4
0.5°	1664.9	1663.6	1663.6	1663.6	1664.9	1665.1	1665.9	1666.4	1665.6	1664.9	1664.9
1°	1663.8	1662.6	1662.3	1662.6	1663.8	1664.4	1665.1	1665.6	1665.4	1664.9	1664.6
1.5°	1662.3	1660.7	1660.5	1660.7	1662.6	1663.3	1664.1	1664.9	1664.4	1664.1	1664.4
2°	1660.2	1658.7	1658.2	1658.7	1661.0	1661.8	1662.6	1663.3	1663.3	1663.1	1663.3
2.5°	1657.6	1655.8	1655.6	1656.4	1658.9	1659.7	1660.5	1661.5	1661.8	1661.5	1661.8
3°	1654.5	1652.7	1652.5	1653.5	1656.4	1657.4	1658.2	1659.2	1659.7	1659.7	1660.0
3.5°	1650.9	1648.9	1649.1	1650.4	1653.5	1654.5	1655.6	1656.6	1657.4	1657.6	1657.6
4°	1646.8	1645.0	1645.0	1646.5	1650.4	1651.4	1652.2	1653.5	1654.5	1655.1	1655.1
4.5°	1642.2	1640.3	1640.6	1642.7	1647.1	1648.1	1648.9	1650.2	1651.4	1652.0	1652.0
5°	1637.2	1635.2	1635.4	1638.0	1642.9	1644.0	1644.7	1646.3	1647.8	1648.6	1648.3
5.5°	1631.6	1629.2	1630.3	1632.9	1638.3	1639.3	1640.3	1641.9	1643.7	1644.5	1644.0
6°	1625.6	1623.3	1624.3	1627.4	1633.4	1634.4	1635.4	1637.2	1639.3	1640.1	1639.3
6.5°	1619.2	1617.1	1618.4	1621.5	1627.7	1629.2	1630.3	1632.1	1634.4	1635.2	1634.4
7°	1612.2	1610.1	1611.7	1614.8	1621.5	1623.3	1624.6	1626.7	1628.7	1629.8	1629.0
7.5°	1604.7	1602.9	1604.2	1607.6	1614.8	1616.8	1618.7	1620.5	1622.5	1623.8	1623.0
8°	1596.7	1595.2	1596.5	1600.1	1607.6	1609.9	1612.2	1614.3	1616.3	1617.1	1616.3
8.5°	1587.9	1586.9	1588.4	1591.8	1599.8	1602.4	1605.5	1607.3	1609.1	1610.4	1609.4
9°	1578.6	1577.9	1579.7	1583.0	1591.5	1594.9	1598.3	1600.1	1601.9	1602.6	1601.9
9.5°	1568.3	1568.3	1570.4	1574.0	1582.8	1586.6	1590.5	1592.8	1593.9	1594.6	1593.9
10°	1558.0	1558.0	1560.3	1564.2	1573.5	1578.1	1582.3	1584.6	1585.3	1585.9	1585.1
10.5°	1547.1	1547.1	1549.7	1554.1	1564.4	1568.8	1573.5	1576.1	1576.6	1576.8	1575.8
11°	1534.7	1535.3	1538.6	1543.0	1554.1	1559.3	1564.4	1567.0	1567.5	1567.3	1566.0
11.5°	1522.1	1523.1	1527.0	1531.6	1543.5	1549.5	1555.1	1557.5	1557.5	1557.2	1555.4
12°	1508.7	1510.2	1514.6	1519.8	1532.9	1539.1	1545.1	1547.7	1547.7	1546.6	1544.8
12.5°	1494.7	1496.5	1501.4	1507.6	1521.3	1528.0	1534.5	1537.3	1537.1	1535.5	1533.5
13°	1480.3	1482.6	1488.3	1495.0	1509.4	1516.7	1523.9	1526.7	1526.0	1523.9	1520.8
13.5°	1465.3	1468.4	1474.3	1481.6	1497.6	1505.0	1512.3	1515.1	1514.6	1512.3	1508.7
14°	1450.1	1453.7	1460.6	1468.4	1484.4	1493.2	1500.4	1503.8	1502.7	1499.6	1495.5
14.5°	1434.6	1438.7	1446.2	1454.7	1471.5	1480.8	1488.0	1491.4	1490.3	1487.0	1481.8
15°	1419.1	1423.5	1431.5	1440.5	1458.3	1467.9	1475.6	1479.0	1477.9	1473.8	1468.1
15.5°	1403.1	1408.2	1416.5	1426.6	1445.1	1454.7	1463.0	1466.1	1465.0	1460.6	1453.9
16°	1387.1	1392.7	1402.0	1412.1	1431.2	1441.8	1450.1	1453.2	1451.9	1447.0	1439.7
16.5°	1371.6	1377.8	1387.3	1397.9	1417.5	1428.4	1436.4	1440.5	1438.7	1433.3	1425.3
17°	1356.1	1362.3	1372.3	1383.7	1403.6	1414.7	1423.2	1426.8	1425.0	1419.1	1410.8
17.5°	1340.6	1347.0	1357.6	1369.5	1389.4	1400.7	1409.3	1412.6	1411.1	1404.9	1395.8
18°	1325.1	1332.1	1342.9	1355.0	1375.4	1387.1	1395.6	1399.4	1397.1	1390.7	1381.4
18.5°	1310.1	1317.9	1328.4	1340.8	1361.2	1373.4	1382.1	1385.5	1382.9	1376.2	1366.4
19°	1296.2	1304.2	1315.3	1327.1	1347.5	1359.9	1368.5	1371.8	1369.0	1362.0	1351.7
19.5°	1283.0	1291.3	1301.8	1314.0	1334.4	1346.5	1355.6	1358.6	1355.8	1347.8	1337.2
20°	1269.8	1278.3	1288.9	1301.1	1321.0	1333.3	1343.2	1345.7	1341.9	1334.4	1323.5
20.5°	1256.9	1265.2	1276.0	1287.9	1308.0	1320.7	1330.2	1333.1	1329.2	1321.0	1310.1
21°	1243.7	1252.3	1262.6	1274.7	1295.1	1308.0	1317.1	1320.4	1316.3	1308.0	1296.9



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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°	1197.5	1205.5	1215.6	1231.6	1255.9	1268.5	1276.8	1280.7	1277.6	1269.1	1256.7
23°	1178.9	1187.2	1197.8	1216.6	1242.2	1254.3	1261.6	1266.2	1264.4	1255.4	1241.9
23.5°	1158.8	1167.6	1179.2	1199.6	1228.0	1239.1	1244.8	1249.9	1250.2	1241.4	1226.2
24°	1136.3	1145.6	1159.6	1181.8	1213.5	1222.8	1227.0	1233.4	1235.5	1227.0	1209.7
24.5°	1112.6	1121.9	1138.7	1162.9	1197.8	1206.3	1209.2	1215.6	1220.3	1211.5	1191.6
25°	1087.5	1096.6	1118.3	1143.8	1181.0	1188.5	1190.3	1197.3	1204.2	1195.7	1173.0
25.5°	1061.2	1070.8	1096.8	1122.9	1163.4	1169.6	1170.2	1177.9	1187.2	1178.7	1153.6
26°	1033.8	1044.4	1075.4	1102.8	1144.3	1149.8	1150.5	1158.3	1168.9	1160.9	1134.0
26.5°	1005.9	1018.1	1052.2	1081.6	1123.4	1129.1	1131.2	1138.4	1149.2	1141.5	1113.1
27°	977.8	992.3	1028.7	1059.7	1101.0	1108.2	1111.8	1118.5	1128.3	1120.3	1092.2
27.5°	951.0	966.7	1004.1	1037.2	1076.2	1086.8	1092.2	1098.4	1106.9	1098.4	1071.5
28°	923.8	942.4	978.3	1013.2	1050.1	1064.8	1072.0	1078.2	1083.1	1074.9	1049.3
28.5°	897.5	918.9	952.0	987.9	1021.7	1041.6	1051.9	1057.6	1059.1	1050.9	1026.9
29°	872.2	895.7	925.4	962.1	992.8	1018.1	1031.3	1036.7	1034.6	1024.5	1003.4
29.5°	847.2	872.2	898.0	934.7	963.1	993.6	1008.8	1014.2	1007.8	997.7	978.6
30°	822.4	848.2	870.9	906.0	933.1	967.7	985.5	991.7	980.9	969.8	952.2
30.5°	797.8	823.4	844.8	876.1	904.7	941.1	961.0	967.5	952.2	940.6	925.9
31°	772.8	797.8	818.2	846.9	877.1	913.8	937.0	943.7	924.4	911.4	898.5
31.5°	747.7	771.5	792.7	816.2	850.5	886.1	912.0	917.9	896.5	882.0	871.2
32°	722.4	744.9	766.3	786.2	825.5	858.0	887.4	892.1	869.9	853.6	842.2
32.5°	697.1	716.8	740.3	757.0	799.9	830.4	862.6	865.0	843.0	826.0	814.6
33°	670.8	689.1	713.7	727.1	775.6	803.0	837.3	838.4	817.5	798.6	785.2
33.5°	644.0	661.5	686.8	697.7	749.8	775.9	811.0	811.5	791.1	771.8	755.5
34°	617.4	635.2	659.2	669.0	724.0	750.1	784.9	784.7	766.6	745.2	725.3
34.5°	591.5	607.8	631.8	641.1	697.4	724.8	757.8	756.8	740.8	719.3	696.6
35°	565.5	582.2	604.4	613.5	671.8	700.5	730.7	729.9	715.5	693.8	666.9
35.5°	540.9	557.7	576.3	586.6	643.4	675.2	702.0	702.8	689.7	668.0	639.0
36°	516.7	532.9	548.2	560.6	616.1	649.6	673.9	675.7	664.9	641.9	611.9
36.5°	492.9	508.7	520.8	535.0	589.2	624.6	645.2	648.3	638.3	615.3	585.6
37°	469.4	483.9	492.1	509.7	562.9	599.5	617.1	620.5	611.9	588.2	559.0
37.5°	446.2	459.9	464.5	484.9	536.5	573.5	588.7	594.1	585.3	561.3	534.2
38°	422.9	435.1	437.4	459.9	511.8	547.1	562.4	568.0	559.3	534.5	508.9
38.5°	399.7	410.5	412.1	435.6	487.0	520.5	535.2	542.5	534.0	508.1	483.9
39°	377.0	386.5	387.8	411.8	463.5	494.7	508.7	516.9	509.2	484.1	459.1
39.5°	353.5	361.5	363.5	389.6	438.7	468.9	482.3	491.6	484.4	458.0	434.8
40°	331.0	337.5	339.8	366.4	414.9	444.1	456.0	465.8	460.4	434.0	410.5
40.5°	308.5	314.0	318.1	344.7	391.7	419.6	429.9	440.7	436.1	411.1	386.5
41°	286.6	291.2	296.4	323.3	369.0	396.1	404.9	415.4	413.6	389.4	362.3
41.5°	264.9	269.3	275.5	302.1	345.5	372.3	380.6	389.9	390.4	366.4	339.3
42°	245.0	247.6	255.1	280.7	322.5	349.6	356.6	365.4	366.4	345.2	316.3
42.5°	225.2	227.5	236.0	261.3	300.8	326.9	333.1	341.9	343.4	323.8	294.6
43°	206.6	207.9	216.9	241.9	279.9	304.2	310.1	318.9	321.2	303.9	273.7
43.5°	188.0	189.0	199.3	222.8	259.7	281.2	288.7	296.4	298.7	282.2	253.6



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CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	138.1	136.8	150.0	169.9	205.3	218.2	228.5	235.0	236.5	226.2	199.3
45.5°	123.2	121.6	135.8	153.9	187.2	197.5	209.1	215.6	217.1	207.9	181.3
46°	109.2	107.7	122.1	138.7	169.1	176.9	189.8	196.2	197.8	189.5	165.0
46.5°	95.8	94.5	109.5	124.7	152.3	158.8	170.7	177.1	178.4	171.4	149.8
47°	86.2	85.2	97.1	111.3	136.1	141.8	153.4	159.1	160.3	154.7	135.0
47.5°	76.9	75.7	87.5	98.4	120.6	125.7	136.8	142.3	144.1	139.2	121.4
48°	67.6	66.1	78.0	86.2	105.9	111.0	121.9	126.3	128.3	124.5	108.7
48.5°	58.4	56.8	68.4	75.7	92.2	97.1	107.4	111.5	113.6	109.5	96.8
49°	49.1	47.3	58.9	66.6	79.3	84.7	93.7	97.3	99.4	96.1	85.5
49.5°	42.6	41.1	49.3	58.4	67.4	73.1	81.1	84.4	86.5	83.7	75.1
50°	36.4	35.1	41.8	50.1	57.1	62.5	69.2	72.8	74.4	72.0	65.6
50.5°	31.0	30.0	35.1	41.8	47.8	52.9	58.6	62.2	63.5	61.7	56.5
51°	26.1	25.0	28.9	33.6	39.5	44.2	48.8	52.4	53.4	51.9	48.5
51.5°	21.4	20.7	23.5	27.4	34.3	36.4	40.3	43.4	44.4	43.6	41.1
52°	17.6	16.8	18.6	21.7	29.2	31.0	34.3	35.6	36.4	36.1	34.3
52.5°	13.9	13.2	14.5	16.5	24.0	25.8	28.4	30.5	31.0	31.0	29.4
53°	10.6	10.1	10.8	12.4	18.8	20.4	22.7	25.0	25.8	25.6	24.5
53.5°	9.3	8.8	9.6	9.0	13.7	15.0	16.8	19.9	20.4	20.4	19.6
54°	8.0	7.2	8.0	7.5	8.5	9.8	11.1	14.5	15.0	15.2	14.5
54.5°	6.7	5.7	6.7	6.5	6.2	7.0	7.7	9.3	9.8	9.8	9.8
55°	5.2	4.4	5.2	5.2	5.2	5.4	5.9	6.7	7.0	7.2	7.2
55.5°	3.9	3.9	3.9	4.1	4.4	4.6	4.9	5.2	5.4	5.7	5.4
56°	3.6	3.4	3.4	3.6	3.9	4.1	4.1	4.4	4.6	4.6	4.6
56.5°	3.1	3.1	3.1	3.1	3.4	3.6	3.9	3.9	4.1	4.1	4.1
57°	2.8	2.8	2.8	2.8	3.1	3.1	3.4	3.6	3.6	3.6	3.6
57.5°	2.6	2.6	2.6	2.6	2.8	2.8	3.1	3.1	3.4	3.4	3.4
58°	2.3	2.3	2.3	2.3	2.6	2.6	2.6	2.8	2.8	2.8	2.8
58.5°	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.6	2.6	2.6	2.6
59°	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.3	2.3
59.5°	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.1	2.1
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1
60.5°	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
61°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8
61.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5
63°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
63.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
64°	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3
64.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
66°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P775994

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
68.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
69.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.8
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
71.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
75.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.5
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
81.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
82°	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.3
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: P775994

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-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: P775994

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1665.4	1665.4	1665.4	1665.4	1665.4	1665.4
0.5°	1664.9	1665.4	1665.6	1665.9	1665.9	1664.9
1°	1664.9	1665.1	1665.1	1665.4	1665.1	1663.8
1.5°	1664.4	1664.4	1664.4	1664.4	1663.8	1662.3
2°	1663.3	1663.1	1663.1	1662.8	1661.8	1660.2
2.5°	1661.8	1661.3	1661.0	1660.7	1659.5	1657.6
3°	1660.0	1658.9	1658.7	1658.2	1656.9	1654.5
3.5°	1657.4	1656.1	1655.8	1655.1	1653.3	1650.9
4°	1654.3	1652.7	1652.5	1651.4	1649.4	1646.8
4.5°	1650.9	1648.9	1648.3	1647.3	1645.3	1642.2
5°	1647.3	1644.7	1643.7	1642.4	1640.3	1637.2
5.5°	1642.9	1639.8	1638.5	1637.2	1634.4	1631.6
6°	1638.0	1634.4	1633.1	1631.3	1628.7	1625.6
6.5°	1632.9	1628.7	1627.2	1625.1	1622.3	1619.2
7°	1627.2	1622.5	1620.5	1618.1	1614.8	1612.2
7.5°	1621.0	1615.8	1613.2	1610.4	1607.0	1604.7
8°	1614.5	1608.6	1605.5	1602.1	1599.3	1596.7
8.5°	1607.3	1600.8	1597.2	1593.4	1590.3	1587.9
9°	1599.5	1592.6	1588.2	1583.8	1580.7	1578.6
9.5°	1591.3	1583.5	1578.6	1573.5	1569.9	1568.3
10°	1582.5	1574.0	1568.3	1562.9	1559.5	1558.0
10.5°	1573.0	1563.9	1557.2	1551.3	1548.2	1547.1
11°	1563.1	1553.1	1545.6	1539.1	1535.8	1534.7
11.5°	1552.6	1541.2	1533.2	1526.2	1522.6	1522.1
12°	1540.9	1529.1	1520.0	1512.5	1508.9	1508.7
12.5°	1529.1	1515.6	1506.1	1498.3	1494.7	1494.7
13°	1516.7	1501.7	1491.9	1483.9	1480.0	1480.3
13.5°	1503.2	1487.5	1476.9	1468.4	1465.3	1465.3
14°	1489.3	1472.8	1461.7	1452.9	1449.0	1450.1
14.5°	1475.1	1457.3	1445.9	1437.4	1433.3	1434.6
15°	1460.6	1441.8	1429.9	1421.4	1417.5	1419.1
15.5°	1445.7	1426.3	1413.9	1405.4	1401.5	1403.1
16°	1430.7	1410.3	1397.9	1388.6	1385.5	1387.1
16.5°	1415.5	1394.8	1381.9	1372.6	1369.5	1371.6
17°	1400.0	1379.0	1365.4	1356.3	1353.2	1356.1
17.5°	1384.5	1363.0	1349.4	1340.6	1337.5	1340.6
18°	1369.2	1347.0	1333.6	1324.3	1322.0	1325.1
18.5°	1354.0	1331.8	1317.6	1308.6	1306.5	1310.1
19°	1338.8	1316.3	1302.4	1293.6	1292.0	1296.2
19.5°	1324.3	1302.1	1288.7	1279.9	1278.1	1283.0
20°	1310.4	1288.4	1274.5	1266.5	1264.7	1269.8
20.5°	1296.9	1275.3	1261.3	1253.0	1251.8	1256.9
21°	1283.5	1262.1	1247.6	1239.4	1238.8	1243.7



TEST NUMBER: P775994

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1243.0	1221.0	1204.8	1194.4	1191.9	1197.5
23°	1227.0	1204.8	1187.2	1175.1	1172.5	1178.9
23.5°	1210.4	1186.9	1168.4	1154.2	1152.6	1158.8
24°	1192.4	1166.8	1146.7	1131.2	1130.1	1136.3
24.5°	1173.3	1144.9	1125.2	1107.4	1106.4	1112.6
25°	1152.9	1121.1	1101.5	1082.4	1081.9	1087.5
25.5°	1131.9	1095.5	1077.0	1057.8	1057.1	1061.2
26°	1109.7	1068.7	1050.6	1033.8	1030.7	1033.8
26.5°	1086.8	1040.5	1024.3	1009.6	1005.2	1005.9
27°	1063.3	1013.4	996.1	985.8	979.1	977.8
27.5°	1038.5	986.6	966.4	960.5	952.5	951.0
28°	1013.2	961.5	937.8	935.2	926.2	923.8
28.5°	987.9	937.0	909.9	908.9	899.8	897.5
29°	961.8	913.3	883.0	881.5	872.5	872.2
29.5°	935.7	890.3	857.0	853.1	845.3	847.2
30°	910.4	866.5	831.1	824.7	817.5	822.4
30.5°	884.6	842.0	806.1	795.3	789.1	797.8
31°	859.5	816.9	781.1	765.6	761.2	772.8
31.5°	835.3	790.4	756.0	737.4	732.8	747.7
32°	810.5	763.2	730.4	709.3	705.9	722.4
32.5°	786.0	735.9	705.4	681.6	680.1	697.1
33°	761.4	708.0	679.6	655.1	654.5	670.8
33.5°	736.9	680.1	653.5	627.9	629.2	644.0
34°	710.8	653.2	627.4	601.6	603.9	617.4
34.5°	684.5	627.7	600.6	575.3	578.4	591.5
35°	656.9	602.4	574.5	548.9	552.8	565.5
35.5°	630.3	578.6	549.4	522.9	527.2	540.9
36°	600.8	555.6	524.4	498.1	501.4	516.7
36.5°	573.2	531.9	500.9	474.3	475.3	492.9
37°	544.8	508.7	476.9	450.8	450.3	469.4
37.5°	517.9	485.2	453.4	427.8	426.0	446.2
38°	490.8	460.6	430.2	405.1	402.5	422.9
38.5°	465.5	436.1	407.2	382.9	380.1	399.7
39°	439.7	412.1	385.2	361.7	358.9	377.0
39.5°	414.7	387.8	362.3	340.0	338.0	353.5
40°	389.6	363.8	340.3	319.9	317.6	331.0
40.5°	366.1	340.6	318.9	299.5	297.4	308.5
41°	342.1	318.6	297.7	280.4	278.6	286.6
41.5°	319.1	296.7	277.3	262.1	259.5	264.9
42°	296.7	276.0	257.4	245.0	241.4	245.0
42.5°	274.7	255.4	238.3	227.7	223.9	225.2
43°	253.6	235.5	220.0	211.7	207.3	206.6
43.5°	234.7	214.8	202.7	195.7	190.8	188.0



TEST NUMBER: P775994

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	178.7	157.8	154.4	152.1	146.9	138.1
45.5°	162.1	140.5	139.7	138.7	133.5	123.2
46°	146.7	124.5	126.0	126.3	121.4	109.2
46.5°	131.9	109.5	112.8	114.4	109.2	95.8
47°	118.3	96.3	100.2	102.8	97.9	86.2
47.5°	105.6	86.8	88.6	92.2	88.6	76.9
48°	93.5	77.2	79.5	83.4	79.5	67.6
48.5°	82.6	67.9	70.2	74.6	70.2	58.4
49°	72.6	58.6	61.2	65.8	60.9	49.1
49.5°	63.3	49.3	52.2	57.1	51.6	42.6
50°	54.7	42.9	44.7	48.3	44.4	36.4
50.5°	47.3	37.2	38.2	41.1	37.2	31.0
51°	40.3	31.8	32.5	34.6	31.2	26.1
51.5°	34.3	27.1	27.1	28.7	25.8	21.4
52°	29.7	22.7	22.2	23.2	20.7	17.6
52.5°	25.3	18.6	18.1	18.3	16.3	13.9
53°	20.7	15.0	14.2	13.9	12.4	10.6
53.5°	16.3	11.6	10.8	10.3	9.0	9.3
54°	11.6	8.8	9.3	8.8	7.7	8.0
54.5°	8.8	7.5	8.0	7.2	6.5	6.7
55°	6.7	6.5	6.7	5.7	5.2	5.2
55.5°	5.2	5.2	5.2	4.1	4.1	3.9
56°	4.6	4.1	3.9	3.9	3.6	3.6
56.5°	3.9	3.6	3.4	3.4	3.4	3.1
57°	3.6	3.1	3.1	3.1	2.8	2.8
57.5°	3.1	2.8	2.8	2.8	2.6	2.6
58°	2.8	2.6	2.6	2.6	2.3	2.3
58.5°	2.6	2.3	2.3	2.3	2.3	2.1
59°	2.3	2.1	2.1	2.1	2.1	2.1
59.5°	2.1	2.1	2.1	2.1	1.8	1.8
60°	2.1	1.8	1.8	1.8	1.8	1.8
60.5°	1.8	1.8	1.8	1.8	1.8	1.5
61°	1.8	1.5	1.5	1.5	1.5	1.5
61.5°	1.5	1.5	1.5	1.5	1.5	1.5
62°	1.5	1.5	1.5	1.5	1.3	1.3
62.5°	1.5	1.3	1.3	1.3	1.3	1.3
63°	1.3	1.3	1.3	1.3	1.3	1.3
63.5°	1.3	1.3	1.3	1.3	1.3	1.3
64°	1.3	1.3	1.3	1.3	1.0	1.0
64.5°	1.3	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0
65.5°	1.0	1.0	1.0	1.0	1.0	1.0
66°	1.0	1.0	1.0	1.0	1.0	0.8



TEST NUMBER: P775994

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.8	0.8	0.8	0.8	0.8
68°	0.8	0.8	0.8	0.8	0.8	0.8
68.5°	0.8	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8	0.8
69.5°	0.8	0.8	0.8	0.8	0.8	0.5
70°	0.8	0.8	0.8	0.8	0.5	0.5
70.5°	0.8	0.8	0.8	0.5	0.5	0.5
71°	0.8	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.3
74.5°	0.5	0.5	0.5	0.5	0.3	0.3
75°	0.5	0.5	0.5	0.5	0.3	0.3
75.5°	0.5	0.5	0.5	0.3	0.3	0.3
76°	0.5	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.0
80.5°	0.3	0.3	0.3	0.3	0.0	0.0
81°	0.3	0.3	0.3	0.3	0.0	0.0
81.5°	0.3	0.3	0.3	0.3	0.0	0.0
82°	0.3	0.3	0.3	0.0	0.0	0.0
82.5°	0.3	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: P775994

CATALOG NUMBER: HCDJBL51525CSD-HCD4TRMB-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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report





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

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21.5°	1230.1	1238.3	1248.1	1261.3	1282.2	1295.6	1305.2	1307.8	1303.4	1294.6	1283.8
22°	1214.6	1222.6	1232.4	1247.4	1269.3	1282.2	1291.5	1294.9	1290.7	1281.7	1270.9



44°	170.9	170.7	181.8	204.0	241.7	259.2	267.2	274.5	276.8	262.8	235.5
44.5°	153.4	153.4	165.5	186.9	223.6	238.6	247.9	254.3	255.9	244.5	217.4



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



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°	1270.3	1249.2	1235.0	1226.7	1224.6	1230.1
22°	1257.4	1235.5	1220.3	1211.5	1209.2	1214.6



44°	216.1	195.2	185.9	180.5	175.3	170.9
44.5°	197.3	176.1	169.9	165.8	160.9	153.4

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

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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)