

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: P776095

Luminaire Tested: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776095
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-2700K
Description: 6 INCH ROUND MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

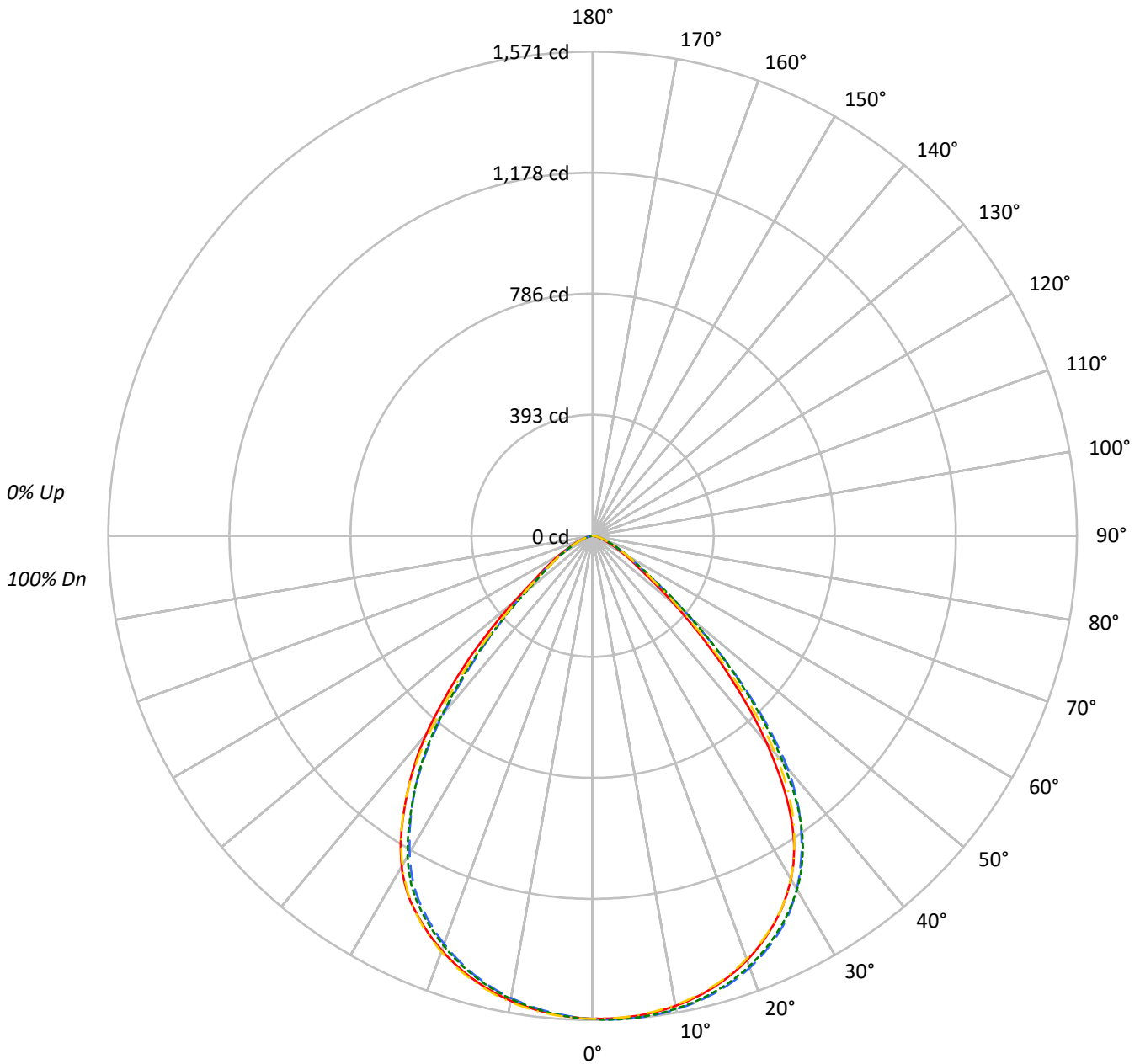
Lumens per Lamp: N/A
Luminaire Lumens: 2619.2 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776095
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P776095

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					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°	85936	85936	85936	85936
5°	86094	86396	85626	85571
10°	86226	86750	85269	84946
15°	86079	86919	84609	83979
20°	85472	86673	83494	82537
25°	84108	85807	81797	80418
30°	81475	83899	78423	75986
35°	75242	79357	70898	67311
40°	62882	68772	60084	54624
45°	46299	53021	44377	38709
50°	29713	35743	28553	23880
55°	17758	21552	18666	16181
60°	12510	14659	13519	11764
65°	8548	10403	9521	8419
70°	5866	7533	6636	6091
75°	4046	5592	4723	4406
80°	2747	4293	3378	3125
85°	1195	3334	1950	1824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 54618 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	5.7
10°-20°	424.2	16.2
20°-30°	629.9	24.0
30°-40°	675.9	25.8
40°-50°	453.0	17.3
50°-60°	184.4	7.0
60°-70°	73.6	2.8
70°-80°	25.2	1.0
80°-90°	4.6	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°	1202.5	45.9
0°-40°	1878.4	71.7
0°-60°	2515.8	96.1
0°-90°	2619.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1568	1568	1568	1568	1568	
5°	1564	1570	1556	1555	1564	149
15°	1517	1532	1491	1480	1517	428
25°	1390	1419	1352	1330	1390	639
35°	1124	1186	1059	1006	1124	692
45°	597	684	572	499	597	461
55°	186	226	195	169	186	179
65°	66	80	73	65	66	68
75°	19	26	22	21	19	21
85°	2	5	3	3	2	3
90°	0	0	0	0	0	



TEST NUMBER: P776095

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6
0.5°	1566.9	1567.6	1568.6	1569.3	1569.6	1569.3	1567.4	1565.9	1566.2	1566.2	1566.9
1°	1567.4	1568.3	1569.3	1570.0	1570.3	1569.8	1567.4	1565.7	1565.4	1565.2	1565.7
1.5°	1567.4	1568.8	1570.0	1570.8	1570.5	1569.8	1567.4	1565.2	1565.0	1564.0	1564.5
2°	1567.1	1569.1	1570.5	1571.3	1570.8	1570.0	1567.1	1564.7	1564.0	1562.8	1563.0
2.5°	1566.9	1569.3	1570.8	1571.5	1571.0	1570.0	1566.9	1564.0	1563.0	1561.6	1561.6
3°	1566.7	1569.3	1571.0	1571.7	1571.0	1569.8	1566.4	1563.3	1562.0	1560.1	1560.1
3.5°	1566.4	1569.3	1571.3	1571.7	1571.0	1569.6	1565.7	1562.3	1560.6	1558.4	1558.2
4°	1565.9	1569.3	1571.0	1571.7	1570.8	1569.1	1565.0	1561.1	1559.1	1556.7	1556.5
4.5°	1565.2	1568.8	1571.0	1571.7	1570.5	1568.6	1564.2	1560.1	1557.7	1554.8	1554.5
5°	1564.5	1568.6	1570.8	1571.3	1570.0	1567.9	1563.0	1558.7	1556.0	1552.8	1552.4
5.5°	1563.7	1567.9	1570.3	1571.0	1569.6	1566.9	1562.0	1557.2	1554.3	1550.7	1549.9
6°	1562.5	1567.4	1569.8	1570.5	1568.8	1565.9	1560.8	1555.5	1552.4	1548.5	1547.8
6.5°	1561.3	1566.4	1569.1	1569.8	1567.9	1565.0	1559.4	1553.8	1550.4	1546.1	1545.1
7°	1560.1	1565.7	1568.3	1569.1	1567.1	1563.7	1557.7	1551.9	1548.2	1543.4	1542.4
7.5°	1558.7	1564.5	1567.4	1568.1	1565.9	1562.3	1556.2	1549.9	1545.8	1540.7	1539.5
8°	1557.0	1563.3	1566.4	1567.1	1564.7	1560.8	1554.3	1547.8	1543.4	1537.8	1536.6
8.5°	1555.3	1562.0	1565.2	1565.9	1563.5	1559.4	1552.4	1545.3	1540.5	1534.9	1533.5
9°	1553.1	1560.6	1564.0	1564.7	1561.8	1557.4	1550.4	1542.9	1537.8	1531.8	1529.8
9.5°	1551.1	1558.9	1562.3	1563.3	1560.1	1555.7	1548.0	1540.2	1534.9	1528.4	1526.4
10°	1549.0	1557.2	1560.8	1561.6	1558.4	1553.8	1545.6	1537.6	1531.8	1524.7	1523.0
10.5°	1546.5	1555.0	1558.9	1559.9	1556.2	1551.4	1543.2	1534.4	1528.6	1521.1	1519.2
11°	1543.9	1553.1	1557.0	1557.9	1554.3	1549.2	1540.5	1531.5	1525.0	1517.5	1515.1
11.5°	1541.2	1550.7	1554.8	1556.0	1551.9	1546.5	1537.6	1528.1	1521.3	1513.4	1510.9
12°	1538.1	1548.2	1552.6	1553.6	1549.7	1543.6	1534.4	1524.7	1517.5	1509.0	1506.6
12.5°	1534.9	1545.3	1550.2	1551.1	1547.0	1541.0	1531.3	1521.1	1513.6	1504.6	1502.0
13°	1531.8	1542.7	1547.8	1548.7	1544.1	1537.8	1527.9	1517.2	1509.2	1500.0	1497.4
13.5°	1528.4	1539.8	1544.8	1545.8	1541.2	1534.7	1524.3	1513.4	1504.9	1495.2	1492.3
14°	1524.7	1536.9	1541.9	1542.9	1538.3	1531.3	1520.6	1509.0	1500.5	1490.1	1487.0
14.5°	1520.9	1533.2	1538.8	1540.0	1534.9	1527.6	1516.5	1504.6	1495.7	1485.0	1481.6
15°	1516.7	1529.8	1535.4	1536.9	1531.5	1524.0	1512.4	1500.0	1490.8	1479.7	1476.0
15.5°	1512.6	1526.0	1531.8	1533.5	1527.6	1520.1	1508.3	1495.7	1485.5	1473.9	1470.2
16°	1508.0	1522.1	1528.1	1529.6	1523.8	1516.0	1503.9	1490.6	1480.4	1468.1	1464.2
16.5°	1503.4	1518.0	1524.3	1525.7	1519.9	1511.7	1499.3	1485.5	1474.8	1462.2	1458.1
17°	1498.3	1513.8	1520.4	1521.8	1515.5	1507.3	1494.5	1480.2	1469.0	1455.9	1451.8
17.5°	1493.5	1509.2	1516.0	1517.5	1511.2	1502.5	1489.4	1474.8	1463.2	1449.4	1445.0
18°	1488.2	1504.4	1511.4	1513.1	1506.3	1497.6	1484.0	1469.0	1457.2	1442.9	1438.3
18.5°	1482.6	1499.5	1506.8	1508.3	1501.5	1492.5	1478.5	1463.2	1451.1	1436.1	1431.2
19°	1477.0	1494.2	1501.7	1503.4	1496.4	1487.2	1472.9	1457.2	1444.6	1429.3	1424.0
19.5°	1471.2	1488.9	1496.6	1498.3	1491.3	1481.6	1467.1	1451.1	1438.0	1422.0	1416.5
20°	1465.1	1483.3	1491.3	1493.2	1485.7	1475.8	1461.0	1444.6	1431.2	1414.8	1408.9
20.5°	1458.8	1477.5	1485.5	1487.7	1480.2	1470.0	1454.7	1438.0	1424.2	1406.8	1401.2
21°	1452.1	1471.4	1479.9	1481.9	1474.1	1463.7	1448.2	1431.2	1416.9	1399.3	1393.0



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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°	1431.0	1451.8	1460.8	1463.5	1455.2	1444.1	1427.6	1409.4	1394.4	1374.3	1367.5
23°	1423.2	1444.8	1454.2	1456.7	1448.2	1436.8	1420.1	1401.9	1386.2	1365.6	1358.6
23.5°	1415.2	1437.5	1447.0	1449.6	1441.2	1429.3	1412.3	1394.2	1378.2	1356.9	1349.4
24°	1407.2	1430.0	1440.0	1442.6	1433.9	1421.8	1404.6	1385.9	1369.7	1347.9	1339.9
24.5°	1399.0	1422.0	1432.0	1435.1	1426.4	1414.3	1396.8	1377.7	1361.0	1338.7	1330.5
25°	1390.5	1414.0	1424.4	1427.6	1418.6	1406.3	1388.6	1369.2	1352.3	1329.2	1320.8
25.5°	1381.6	1406.0	1416.2	1419.4	1410.6	1398.0	1380.1	1360.7	1343.3	1319.3	1310.6
26°	1372.6	1397.6	1408.0	1411.4	1402.4	1389.8	1371.6	1351.8	1333.8	1308.9	1299.7
26.5°	1363.2	1388.6	1398.8	1402.9	1393.9	1380.8	1362.4	1342.6	1324.2	1297.5	1288.1
27°	1353.7	1379.1	1390.0	1393.9	1385.0	1371.9	1353.0	1332.6	1314.0	1285.6	1275.7
27.5°	1343.1	1369.7	1380.4	1384.7	1375.8	1362.7	1343.1	1322.2	1303.3	1273.5	1262.6
28°	1333.1	1359.5	1370.2	1375.0	1366.3	1353.0	1332.6	1311.3	1291.7	1260.7	1248.8
28.5°	1321.7	1348.9	1359.0	1364.9	1357.1	1343.1	1322.0	1300.2	1279.6	1247.4	1234.5
29°	1310.8	1337.7	1348.4	1354.2	1346.7	1332.9	1310.6	1288.1	1267.0	1232.6	1219.0
29.5°	1299.0	1326.3	1336.8	1343.1	1336.3	1322.0	1299.0	1275.7	1253.4	1217.8	1203.3
30°	1287.1	1314.5	1324.9	1331.7	1325.4	1311.1	1286.4	1262.4	1238.9	1202.5	1187.0
30.5°	1273.8	1301.9	1312.0	1319.8	1314.5	1299.0	1273.5	1248.3	1224.1	1186.6	1170.6
31°	1260.9	1288.8	1299.4	1307.4	1302.6	1286.8	1260.4	1234.0	1208.1	1169.6	1153.1
31.5°	1246.6	1275.5	1285.9	1294.1	1290.2	1274.3	1246.4	1219.0	1191.6	1152.2	1136.4
32°	1231.9	1261.2	1271.6	1281.0	1277.6	1260.7	1232.3	1202.8	1174.4	1134.5	1118.7
32.5°	1216.1	1246.4	1257.3	1266.7	1264.1	1247.1	1217.3	1186.3	1156.3	1115.8	1101.0
33°	1200.4	1231.1	1242.5	1252.4	1250.0	1232.8	1202.1	1169.1	1137.9	1096.9	1082.4
33.5°	1182.9	1215.9	1227.5	1237.4	1235.2	1217.6	1186.6	1151.7	1118.7	1077.3	1064.2
34°	1164.3	1199.6	1212.5	1221.9	1220.0	1202.5	1170.6	1133.3	1099.3	1056.7	1044.1
34.5°	1144.4	1183.6	1196.7	1206.4	1203.3	1185.3	1154.1	1113.9	1079.7	1036.4	1025.0
35°	1124.3	1166.0	1180.5	1189.7	1185.8	1168.6	1136.7	1094.7	1059.4	1015.5	1004.1
35.5°	1103.2	1148.5	1164.0	1173.0	1167.9	1150.9	1119.2	1076.1	1039.8	994.2	982.8
36°	1080.4	1130.1	1147.6	1155.8	1148.8	1133.3	1100.8	1055.7	1019.4	972.4	960.0
36.5°	1057.0	1111.7	1129.6	1138.3	1128.4	1113.6	1081.4	1036.4	999.1	950.1	937.3
37°	1033.2	1091.6	1111.7	1119.9	1107.1	1093.5	1060.8	1015.8	977.7	927.6	912.8
37.5°	1008.5	1071.0	1092.1	1100.3	1084.6	1072.0	1039.8	996.1	956.7	905.3	887.9
38°	983.3	1049.0	1072.7	1080.4	1060.8	1050.7	1017.9	974.6	935.1	880.6	862.7
38.5°	957.6	1026.7	1051.6	1059.1	1036.8	1026.7	995.4	954.0	913.1	855.6	836.7
39°	931.9	1002.9	1029.6	1037.3	1012.6	1002.4	971.9	931.2	890.0	830.0	808.9
39.5°	905.5	977.5	1006.3	1014.1	987.2	976.8	947.5	908.7	865.3	804.8	781.0
40°	878.7	950.6	982.6	989.4	961.0	949.9	922.0	883.5	839.6	776.7	752.2
40.5°	851.5	923.0	957.1	963.2	935.6	921.5	895.4	858.3	812.8	749.3	722.9
41°	823.7	894.6	930.3	935.8	909.2	893.2	868.0	831.2	785.1	722.4	694.1
41.5°	795.3	866.1	903.6	907.5	882.8	864.6	839.2	804.3	757.8	695.5	664.7
42°	766.2	837.0	875.3	878.2	855.2	835.3	809.1	775.0	729.7	667.4	637.4
42.5°	736.9	808.9	846.7	849.1	828.0	805.2	780.1	746.6	703.3	641.0	610.7
43°	707.9	780.5	816.4	820.5	800.2	776.9	750.7	717.3	676.9	613.9	584.6
43.5°	679.5	752.4	787.1	791.4	770.6	746.9	721.7	688.5	650.7	587.9	558.9



TEST NUMBER: P776095

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	597.2	666.9	696.2	704.5	683.9	658.7	633.0	604.9	572.4	510.9	486.0
45.5°	570.7	638.3	665.2	675.9	655.1	630.1	604.2	577.5	546.5	486.9	463.4
46°	543.9	610.2	634.5	647.5	628.2	601.8	574.9	550.4	521.1	463.4	441.6
46.5°	517.0	582.4	605.1	619.4	601.0	574.6	547.0	523.3	495.7	441.1	420.1
47°	490.3	553.8	575.6	590.6	574.1	548.0	518.9	495.7	470.7	418.4	400.0
47.5°	465.1	526.7	547.0	562.3	546.8	522.1	492.5	469.5	446.7	397.8	380.6
48°	440.2	499.5	518.9	534.9	520.1	497.1	466.6	444.1	423.2	377.4	362.2
48.5°	415.7	473.1	492.5	507.8	494.2	473.1	442.4	419.3	400.4	358.1	343.8
49°	392.5	447.2	466.3	480.9	468.8	448.9	418.4	395.4	377.2	339.2	326.8
49.5°	370.4	421.5	441.1	455.4	443.6	425.2	395.8	372.6	355.4	321.2	310.3
50°	348.4	396.8	415.7	429.8	419.1	402.4	373.6	351.3	334.8	304.3	294.6
50.5°	327.5	372.8	392.2	404.8	395.1	380.1	353.2	330.9	314.4	288.3	279.6
51°	307.4	349.6	369.2	380.1	372.8	358.8	333.6	311.8	295.5	273.3	265.3
51.5°	288.3	327.3	347.1	357.6	350.8	338.4	315.4	294.1	278.1	258.7	251.5
52°	270.1	306.5	325.8	335.5	330.2	318.1	297.7	277.1	262.4	244.9	238.6
52.5°	252.9	287.1	305.7	314.2	309.4	298.9	281.3	261.6	247.6	232.1	226.5
53°	236.7	268.9	286.6	293.9	290.0	281.5	265.5	247.6	235.0	220.5	216.1
53.5°	222.1	251.9	268.4	275.4	271.6	264.8	251.0	234.5	223.4	210.3	205.4
54°	208.6	236.0	251.7	258.0	254.1	249.0	237.7	222.6	213.9	199.9	195.0
54.5°	196.7	221.7	235.2	241.8	237.9	234.5	225.1	212.9	204.5	189.7	184.6
55°	185.8	208.6	220.2	226.7	225.5	222.6	214.4	203.5	195.3	179.5	173.9
55.5°	175.6	196.7	206.6	213.2	213.4	211.0	204.0	193.8	185.8	170.8	165.5
56°	166.7	185.3	194.0	200.6	201.1	199.4	193.3	184.1	176.4	162.8	157.7
56.5°	158.7	174.9	182.9	189.0	188.7	187.7	182.7	174.4	168.4	155.3	150.9
57°	151.9	165.7	172.7	178.3	176.6	176.1	172.2	166.4	160.9	149.2	144.9
57.5°	145.4	157.7	163.5	168.6	167.6	167.4	163.8	158.7	153.8	142.9	138.8
58°	139.1	150.9	156.0	160.1	159.4	159.2	156.3	152.1	147.8	136.9	132.8
58.5°	132.8	144.4	149.5	153.1	152.9	152.6	150.0	146.1	141.5	130.8	126.5
59°	126.2	138.1	143.2	146.8	146.3	146.3	143.7	139.8	135.4	124.8	120.6
59.5°	120.2	131.5	136.6	140.5	140.0	140.0	137.6	133.5	129.1	118.9	115.1
60°	114.1	125.2	130.1	134.0	133.7	133.5	131.1	127.7	123.3	113.4	109.7
60.5°	108.0	118.9	123.8	127.7	127.2	127.2	125.0	121.6	117.7	108.0	104.4
61°	102.5	113.1	117.7	121.4	121.1	121.1	119.2	116.0	112.2	103.0	99.3
61.5°	97.1	107.3	111.9	115.3	114.8	115.3	113.4	110.5	106.6	98.1	94.7
62°	92.1	102.0	106.1	109.5	109.3	109.5	108.0	105.1	101.3	93.3	90.1
62.5°	87.0	96.9	100.8	103.9	103.7	104.2	102.7	100.1	96.2	88.7	85.8
63°	82.6	91.8	95.7	98.6	98.6	98.8	97.6	95.2	91.3	84.1	81.4
63.5°	78.5	86.5	90.8	93.8	93.5	94.0	92.8	90.6	86.5	79.7	77.5
64°	74.1	82.4	86.7	88.9	88.9	89.1	88.2	86.2	81.9	75.6	73.6
64.5°	70.0	78.2	82.4	84.8	84.5	84.8	83.8	81.6	77.5	71.7	70.0
65°	65.9	74.1	78.2	80.7	80.2	80.7	79.7	77.5	73.4	68.1	66.4
65.5°	62.0	70.0	74.1	76.6	76.1	76.6	75.6	73.6	69.5	64.4	63.2
66°	58.6	66.1	70.0	72.7	72.2	72.7	71.9	69.8	65.7	60.8	59.8



TEST NUMBER: P776095

CATALOG NUMBER: HCDJBL5125CSD-HCD6TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	49.2	56.0	59.6	61.5	61.5	62.0	61.5	59.4	55.5	51.6	51.1
68°	46.5	53.1	56.4	58.4	58.4	58.9	58.4	56.2	52.3	48.7	48.5
68.5°	43.6	49.9	53.3	55.2	55.2	55.7	55.2	53.3	49.4	46.0	45.8
69°	41.2	47.2	50.6	52.3	52.3	52.8	52.6	50.4	46.8	43.4	43.4
69.5°	38.8	44.6	47.7	49.4	49.7	49.9	49.7	47.5	44.1	40.9	40.9
70°	36.6	41.9	45.3	47.0	47.0	47.5	47.0	45.1	41.4	38.8	38.8
70.5°	34.4	39.7	42.6	44.3	44.3	44.8	44.6	42.4	39.0	36.3	36.6
71°	32.2	37.3	40.5	41.9	42.2	42.4	42.2	40.2	36.8	34.4	34.6
71.5°	30.3	35.1	38.3	39.7	39.7	40.2	40.0	37.8	34.6	32.2	32.7
72°	28.3	33.2	36.1	37.5	37.5	38.0	37.8	35.6	32.7	30.3	30.8
72.5°	26.6	31.3	33.9	35.4	35.4	35.9	35.6	33.7	30.8	28.6	29.1
73°	25.0	29.3	32.0	33.4	33.4	33.9	33.7	31.5	28.8	26.9	27.4
73.5°	23.5	27.4	30.3	31.5	31.7	32.0	31.7	29.8	27.1	25.2	25.7
74°	22.0	25.7	28.3	29.8	29.8	30.3	29.8	27.9	25.4	23.5	24.2
74.5°	20.6	24.2	26.6	28.1	28.1	28.3	28.1	26.2	23.7	22.0	22.5
75°	19.1	22.8	25.2	26.4	26.4	26.9	26.4	24.7	22.3	20.8	21.1
75.5°	17.9	21.3	23.5	24.7	25.0	25.2	25.0	23.0	20.8	19.4	19.9
76°	16.7	19.9	22.0	23.3	23.5	23.7	23.3	21.6	19.6	18.2	18.7
76.5°	15.5	18.4	20.8	21.8	22.0	22.3	21.8	20.3	18.4	16.7	17.4
77°	14.3	17.2	19.4	20.6	20.6	20.8	20.6	19.1	17.0	15.5	16.2
77.5°	13.3	16.0	18.2	19.1	19.4	19.6	19.4	17.7	15.7	14.3	15.0
78°	12.4	14.8	17.0	17.9	18.2	18.4	18.2	16.5	14.5	13.3	13.8
78.5°	11.4	13.8	15.7	16.7	17.0	17.2	16.7	15.3	13.6	12.4	12.8
79°	10.4	12.8	14.5	15.7	15.7	16.0	15.5	14.1	12.6	11.4	11.9
79.5°	9.4	11.9	13.6	14.5	14.5	14.8	14.5	13.1	11.6	10.4	10.9
80°	8.7	10.9	12.6	13.6	13.6	13.8	13.3	11.9	10.7	9.4	9.9
80.5°	8.0	9.9	11.6	12.6	12.6	12.8	12.4	10.9	9.7	8.7	9.2
81°	7.3	9.0	10.7	11.6	11.6	11.9	11.4	10.2	9.0	7.8	8.2
81.5°	6.3	8.2	9.7	10.7	10.7	10.9	10.7	9.2	8.0	7.0	7.5
82°	5.8	7.5	9.0	9.9	9.9	9.9	9.7	8.2	7.3	6.3	6.8
82.5°	5.1	6.5	8.2	9.0	9.0	9.2	9.0	7.5	6.5	5.6	6.1
83°	4.4	5.8	7.5	8.2	8.2	8.5	8.0	6.8	5.8	4.8	5.3
83.5°	3.9	5.1	6.8	7.5	7.5	7.8	7.3	6.1	5.1	4.1	4.6
84°	3.1	4.6	5.8	6.8	6.8	7.0	6.5	5.3	4.4	3.4	4.1
84.5°	2.7	3.9	5.3	6.1	6.1	6.3	5.8	4.6	3.9	2.9	3.6
85°	1.9	3.1	4.6	5.3	5.3	5.6	5.1	3.9	3.1	2.2	2.9
85.5°	1.5	2.7	4.1	4.8	4.8	4.8	4.6	3.4	2.7	1.9	2.4
86°	1.2	2.2	3.4	4.1	4.1	4.4	3.9	2.9	1.9	1.5	1.9
86.5°	1.0	1.7	2.9	3.6	3.6	3.6	3.4	2.4	1.7	1.2	1.5
87°	0.7	1.5	2.4	2.9	2.9	3.1	2.9	1.9	1.2	1.0	1.0
87.5°	0.5	1.2	1.9	2.4	2.4	2.4	2.4	1.7	1.0	0.7	0.7
88°	0.2	0.7	1.5	1.9	1.9	1.9	1.7	1.2	0.7	0.2	0.2
88.5°	0.0	0.5	1.0	1.5	1.5	1.5	1.2	1.0	0.5	0.0	0.0



TEST NUMBER: P776095
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

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: P776095

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6
0.5°	1567.4	1568.1	1568.3	1566.9	1566.2	1566.9
1°	1566.4	1567.1	1567.6	1566.7	1566.2	1567.4
1.5°	1565.2	1565.9	1566.9	1566.2	1565.9	1567.4
2°	1563.7	1565.0	1565.7	1565.4	1565.4	1567.1
2.5°	1562.3	1563.5	1564.7	1564.7	1565.0	1566.9
3°	1560.6	1562.0	1563.5	1563.7	1564.5	1566.7
3.5°	1558.9	1560.6	1562.0	1562.8	1563.7	1566.4
4°	1557.2	1558.7	1560.6	1561.6	1563.0	1565.9
4.5°	1555.0	1557.0	1558.9	1560.1	1562.0	1565.2
5°	1552.8	1555.0	1557.0	1558.7	1560.8	1564.5
5.5°	1550.4	1552.6	1555.0	1557.2	1559.6	1563.7
6°	1548.0	1550.4	1552.8	1555.3	1558.2	1562.5
6.5°	1545.6	1548.0	1550.7	1553.6	1556.7	1561.3
7°	1542.4	1545.1	1548.2	1551.4	1554.8	1560.1
7.5°	1539.8	1542.4	1545.8	1549.2	1553.1	1558.7
8°	1536.6	1539.3	1543.2	1546.8	1551.1	1557.0
8.5°	1533.5	1536.4	1540.2	1544.4	1549.2	1555.3
9°	1530.1	1533.0	1537.1	1541.7	1546.8	1553.1
9.5°	1526.4	1529.6	1533.9	1538.8	1544.4	1551.1
10°	1522.8	1526.0	1530.6	1535.9	1541.7	1549.0
10.5°	1518.9	1522.3	1527.2	1532.5	1539.0	1546.5
11°	1514.6	1518.2	1523.3	1529.1	1536.1	1543.9
11.5°	1510.4	1514.1	1519.4	1525.5	1533.0	1541.2
12°	1505.8	1509.7	1515.1	1521.8	1529.6	1538.1
12.5°	1501.5	1505.1	1510.9	1518.0	1526.2	1534.9
13°	1496.4	1500.5	1506.3	1513.8	1522.6	1531.8
13.5°	1491.3	1495.7	1501.7	1509.5	1518.7	1528.4
14°	1486.0	1490.6	1496.9	1504.9	1514.6	1524.7
14.5°	1480.7	1485.0	1491.8	1500.3	1510.4	1520.9
15°	1475.1	1479.7	1486.7	1495.4	1506.1	1516.7
15.5°	1469.3	1474.1	1481.1	1490.3	1501.2	1512.6
16°	1463.2	1468.1	1475.3	1485.0	1496.6	1508.0
16.5°	1457.2	1462.2	1469.5	1479.7	1491.6	1503.4
17°	1450.6	1455.9	1463.7	1473.9	1486.2	1498.3
17.5°	1444.3	1449.4	1457.4	1468.1	1480.7	1493.5
18°	1437.0	1442.9	1451.1	1462.2	1475.1	1488.2
18.5°	1430.3	1436.1	1444.6	1455.7	1469.0	1482.6
19°	1423.0	1429.1	1437.8	1449.2	1463.0	1477.0
19.5°	1415.5	1422.0	1430.7	1442.6	1456.9	1471.2
20°	1407.7	1414.8	1423.7	1435.8	1450.4	1465.1
20.5°	1400.0	1407.2	1416.5	1428.8	1443.6	1458.8
21°	1392.0	1399.5	1408.7	1421.3	1436.6	1452.1

TEST NUMBER: P776095

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1366.6	1375.0	1384.7	1398.0	1414.3	1431.0
23°	1357.6	1366.3	1376.2	1389.8	1406.0	1423.2
23.5°	1348.4	1357.1	1367.8	1381.3	1397.8	1415.2
24°	1339.2	1348.1	1358.6	1372.4	1389.3	1407.2
24.5°	1329.7	1338.9	1349.6	1363.4	1380.6	1399.0
25°	1320.0	1329.5	1340.1	1354.2	1371.6	1390.5
25.5°	1309.9	1319.6	1330.7	1344.7	1362.4	1381.6
26°	1298.7	1309.4	1320.0	1334.6	1353.0	1372.6
26.5°	1287.3	1298.2	1309.1	1323.7	1343.3	1363.2
27°	1275.0	1286.8	1297.3	1312.5	1333.1	1353.7
27.5°	1261.9	1274.0	1285.2	1300.9	1322.2	1343.1
28°	1248.3	1261.2	1272.3	1288.1	1311.3	1333.1
28.5°	1234.3	1246.6	1258.7	1275.5	1299.4	1321.7
29°	1219.3	1232.1	1244.7	1262.4	1287.3	1310.8
29.5°	1204.0	1216.4	1229.9	1248.6	1274.7	1299.0
30°	1187.5	1200.4	1214.4	1233.8	1261.4	1287.1
30.5°	1170.6	1182.2	1198.2	1219.5	1247.8	1273.8
31°	1152.9	1165.0	1180.7	1204.0	1233.1	1260.9
31.5°	1135.2	1146.1	1163.3	1188.5	1218.0	1246.6
32°	1116.1	1126.5	1145.1	1171.8	1202.5	1231.9
32.5°	1096.7	1105.9	1126.5	1155.8	1186.3	1216.1
33°	1076.6	1087.2	1107.3	1138.8	1169.1	1200.4
33.5°	1055.7	1067.1	1087.5	1120.9	1151.9	1182.9
34°	1035.1	1046.8	1067.9	1101.5	1134.0	1164.3
34.5°	1014.1	1025.7	1047.5	1082.6	1114.8	1144.4
35°	992.3	1005.8	1027.4	1062.5	1095.0	1124.3
35.5°	970.5	985.5	1007.3	1041.7	1074.6	1103.2
36°	947.9	964.7	986.0	1018.4	1052.8	1080.4
36.5°	925.4	942.6	964.9	996.6	1030.1	1057.0
37°	901.9	920.1	942.6	972.9	1005.4	1033.2
37.5°	877.9	897.1	919.1	948.7	980.6	1008.5
38°	853.2	872.6	894.9	923.0	953.3	983.3
38.5°	827.1	846.7	869.7	896.3	926.6	957.6
39°	800.4	819.5	843.8	868.2	896.8	931.9
39.5°	773.3	791.4	815.7	839.6	868.0	905.5
40°	745.7	763.3	787.8	810.1	837.7	878.7
40.5°	718.5	735.7	758.5	780.5	808.4	851.5
41°	690.9	708.6	729.7	750.5	778.8	823.7
41.5°	663.3	682.2	700.8	720.9	749.0	795.3
42°	636.4	656.0	672.3	691.4	719.0	766.2
42.5°	609.5	629.9	643.7	661.8	690.4	736.9
43°	582.9	604.2	616.0	631.8	661.4	707.9
43.5°	556.2	577.0	588.4	603.2	632.8	679.5



TEST NUMBER: P776095

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	481.8	499.3	506.8	519.4	550.9	597.2
45.5°	458.6	473.8	480.6	493.2	525.7	570.7
46°	436.1	449.6	454.7	468.0	501.0	543.9
46.5°	413.0	425.9	429.5	444.1	476.5	517.0
47°	392.0	402.6	405.5	419.8	452.5	490.3
47.5°	371.9	379.4	382.8	397.8	429.0	465.1
48°	353.0	357.3	360.7	376.2	406.0	440.2
48.5°	333.6	336.2	340.1	355.6	384.5	415.7
49°	316.1	316.4	320.5	336.2	362.7	392.5
49.5°	299.4	297.5	302.1	317.8	342.1	370.4
50°	283.7	280.0	284.9	299.9	321.7	348.4
50.5°	268.2	263.6	268.7	283.0	303.1	327.5
51°	254.6	249.3	253.6	267.4	284.9	307.4
51.5°	241.3	236.4	240.3	252.9	268.2	288.3
52°	228.7	224.8	228.0	239.1	252.7	270.1
52.5°	218.3	214.2	216.3	226.0	237.9	252.9
53°	208.1	204.2	205.9	213.9	224.1	236.7
53.5°	197.9	194.8	195.7	202.5	211.0	222.1
54°	187.5	186.1	186.5	191.9	199.1	208.6
54.5°	177.3	177.6	177.8	181.9	188.2	196.7
55°	168.6	169.3	169.3	172.7	178.3	185.8
55.5°	160.9	161.6	161.6	164.0	168.9	175.6
56°	153.8	154.6	154.6	156.5	160.4	166.7
56.5°	147.5	148.5	148.3	150.0	153.3	158.7
57°	141.5	142.2	142.2	143.7	147.0	151.9
57.5°	135.4	136.1	135.9	137.4	140.7	145.4
58°	129.4	130.1	129.8	131.1	134.5	139.1
58.5°	123.3	124.0	123.5	125.0	127.9	132.8
59°	117.7	118.2	118.0	118.9	121.6	126.2
59.5°	112.2	112.9	112.4	113.1	115.8	120.2
60°	106.6	107.3	106.8	107.8	110.2	114.1
60.5°	101.7	102.2	101.7	102.5	104.7	108.0
61°	96.9	97.4	96.7	97.4	99.3	102.5
61.5°	92.1	92.5	92.1	92.8	94.5	97.1
62°	87.7	88.2	87.5	88.2	89.9	92.1
62.5°	83.3	84.3	83.3	84.1	85.5	87.0
63°	79.2	80.4	79.5	80.2	81.4	82.6
63.5°	75.3	76.3	75.6	76.1	77.3	78.5
64°	71.7	72.4	71.7	72.2	73.2	74.1
64.5°	68.1	68.3	67.8	68.1	69.0	70.0
65°	64.7	64.9	64.4	64.7	65.4	65.9
65.5°	61.3	61.5	61.0	61.3	61.8	62.0
66°	58.1	58.4	57.9	58.1	58.4	58.6



TEST NUMBER: P776095

CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	49.7	49.9	49.4	49.4	49.4	49.2
68°	47.0	47.2	46.8	47.0	46.5	46.5
68.5°	44.6	44.8	44.3	44.3	44.1	43.6
69°	42.2	42.4	41.9	42.2	41.4	41.2
69.5°	40.0	40.2	39.7	39.7	39.2	38.8
70°	37.8	38.0	37.5	37.5	36.8	36.6
70.5°	35.6	35.9	35.4	35.4	34.6	34.4
71°	33.7	33.9	33.4	33.4	32.7	32.2
71.5°	31.7	32.0	31.5	31.5	30.8	30.3
72°	30.0	30.0	29.8	29.8	28.8	28.3
72.5°	28.3	28.3	28.1	28.1	27.1	26.6
73°	26.6	26.6	26.4	26.4	25.4	25.0
73.5°	25.0	25.2	24.7	24.7	23.7	23.5
74°	23.5	23.5	23.3	23.3	22.3	22.0
74.5°	22.0	22.0	21.8	21.8	20.8	20.6
75°	20.8	20.8	20.6	20.3	19.6	19.1
75.5°	19.6	19.4	19.1	19.1	18.2	17.9
76°	18.4	18.2	17.9	17.7	17.0	16.7
76.5°	17.2	17.0	16.7	16.7	15.7	15.5
77°	16.0	16.0	15.7	15.5	14.5	14.3
77.5°	14.8	14.8	14.5	14.3	13.6	13.3
78°	13.6	13.8	13.6	13.3	12.4	12.4
78.5°	12.6	12.8	12.6	12.4	11.4	11.4
79°	11.6	11.9	11.6	11.4	10.7	10.4
79.5°	10.9	10.9	10.7	10.4	9.7	9.4
80°	9.9	9.9	9.9	9.4	8.7	8.7
80.5°	9.0	9.2	9.0	8.7	8.0	8.0
81°	8.2	8.5	8.2	8.0	7.3	7.3
81.5°	7.5	7.8	7.5	7.3	6.3	6.3
82°	6.8	7.0	6.8	6.5	5.6	5.8
82.5°	6.1	6.1	6.1	5.8	4.8	5.1
83°	5.3	5.6	5.3	5.1	4.1	4.4
83.5°	4.8	4.8	4.6	4.4	3.6	3.9
84°	4.1	4.1	4.1	3.9	3.1	3.1
84.5°	3.6	3.6	3.4	3.4	2.4	2.7
85°	2.9	2.9	2.9	2.9	2.2	1.9
85.5°	2.4	2.4	2.4	2.2	1.7	1.5
86°	1.9	1.9	1.9	1.7	1.5	1.2
86.5°	1.5	1.5	1.2	1.2	1.0	1.0
87°	0.7	1.0	0.7	0.7	0.7	0.7
87.5°	0.2	0.5	0.2	0.5	0.5	0.5
88°	0.0	0.0	0.0	0.0	0.2	0.2
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776095
CATALOG NUMBER: HCDJBL51525CSD-HCD6TRMW-2500lm-2700K

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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Scaled Data Report





21.5°	1445.3	1465.1	1473.6	1476.0	1468.1	1457.4	1441.6	1424.2	1409.7	1391.0	1384.7
22°	1438.3	1458.6	1467.6	1469.8	1461.8	1450.9	1434.6	1416.9	1402.2	1382.8	1376.2



44°	651.7	724.1	756.6	762.6	741.3	717.6	691.6	659.9	624.8	561.1	533.9
44.5°	624.3	695.0	726.5	733.5	712.0	688.2	661.4	632.5	598.4	536.1	509.9



66.5°	55.2	62.7	66.1	68.6	68.3	68.8	68.3	66.1	62.0	57.7	56.9
67°	52.1	59.1	62.7	64.9	64.9	65.4	64.7	62.7	58.6	54.5	54.0



89°	0.0	0.2	0.5	1.0	1.0	0.7	0.5	0.2	0.0	0.0
89.5°	0.0	0.0	0.2	0.5	0.5	0.5	0.2	0.0	0.0	0.0

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21.5°	1383.8	1391.5	1401.0	1413.8	1429.3	1445.3
22°	1375.3	1383.3	1392.7	1406.0	1422.0	1438.3



44°	531.0	550.6	561.1	575.1	604.7	651.7
44.5°	506.3	525.0	533.4	547.2	577.5	624.3



66.5°	55.2	55.5	55.0	55.2	55.2	55.2
67°	52.3	52.6	52.1	52.3	52.3	52.1

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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)