

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: P776163

Luminaire Tested: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B068)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K
Description: 8 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2830.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.08 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

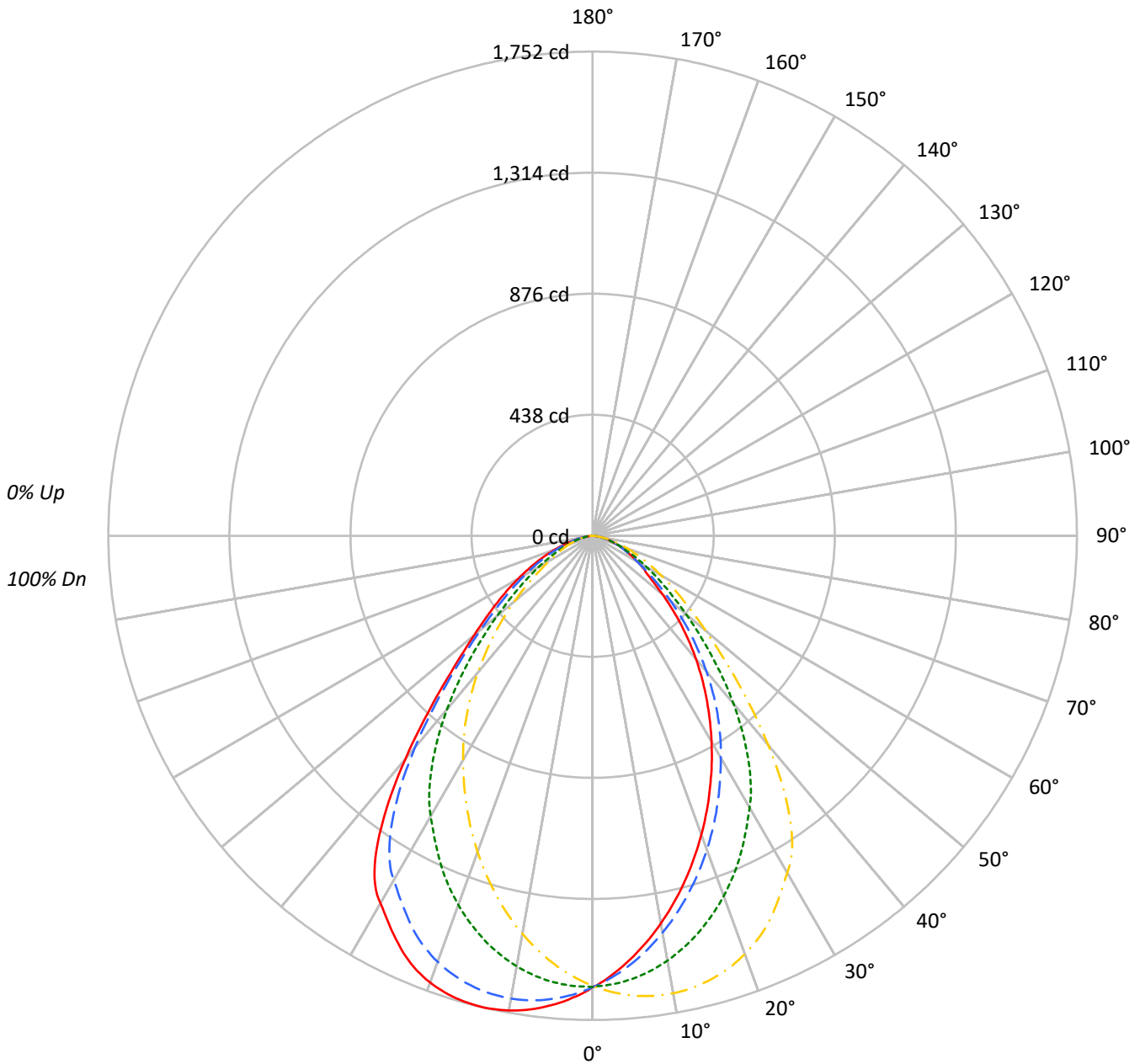
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78								
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	71	69								
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49								
7	72	60	52	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40								
9	64	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	49847	49847	49847	49847
5°	47202	49354	52259	49694
10°	44136	48387	54063	49041
15°	40837	46937	55294	47853
20°	37392	45057	55882	46165
25°	33862	42735	55404	43934
30°	30325	40044	54117	41324
35°	26753	36525	50513	37718
40°	23175	31569	41995	32661
45°	19412	26053	32969	26907
50°	15664	20956	26570	21412
55°	12844	16905	22414	17012
60°	11443	13678	19020	13708
65°	9883	11060	15907	11002
70°	8560	8828	12845	8766
75°	7349	7019	9779	6924
80°	6083	5626	6312	5415
85°	4274	4274	1857	3923

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°
 Vertical Angle: 45°
 Luminance: 32969 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	5.4
10°-20°	424.4	15.0
20°-30°	599.7	21.2
30°-40°	630.4	22.3
40°-50°	475.3	16.8
50°-60°	294.6	10.4
60°-70°	165.7	5.9
70°-80°	73.1	2.6
80°-90°	14.5	0.5
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°	1177.2	41.6
0°-40°	1807.6	63.9
0°-60°	2577.5	91.1
0°-90°	2830.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2830.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1633	1633	1633	1633	1633	
5°	1540	1610	1705	1622	1540	143
15°	1292	1485	1749	1514	1292	362
25°	1005	1269	1645	1304	1005	461
35°	718	980	1355	1012	718	448
45°	450	603	764	623	450	347
55°	241	318	421	320	241	221
65°	137	153	220	152	137	137
75°	62	60	83	59	62	67
85°	12	12	5	11	12	15
90°	0	0	0	0	0	



TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1632.7	1632.7	1632.7	1632.7	1632.7	1632.7	1632.7	1632.7	1632.7	1632.7	1632.7
0.5°	1627.4	1628.2	1627.9	1627.9	1630.4	1632.2	1634.0	1642.4	1644.2	1644.2	1640.6
1°	1618.7	1620.0	1621.3	1623.8	1629.4	1634.5	1639.1	1649.5	1651.8	1651.6	1646.2
1.5°	1609.8	1611.4	1614.4	1619.5	1628.2	1636.5	1644.2	1656.4	1659.7	1658.9	1652.1
2°	1600.4	1602.5	1607.1	1614.7	1626.6	1638.3	1648.8	1662.7	1667.1	1665.8	1657.1
2.5°	1591.0	1593.3	1599.7	1609.6	1624.6	1639.6	1652.8	1668.8	1673.9	1672.4	1662.5
3°	1581.4	1584.2	1591.5	1604.5	1622.3	1640.6	1656.9	1674.4	1681.0	1678.8	1666.8
3.5°	1571.5	1574.8	1583.9	1598.9	1620.0	1641.4	1660.7	1680.3	1687.4	1684.9	1671.1
4°	1561.3	1564.8	1575.5	1593.3	1617.0	1641.9	1664.0	1685.4	1693.5	1690.7	1675.2
4.5°	1550.9	1554.7	1566.9	1587.2	1613.9	1642.1	1667.3	1690.5	1699.4	1696.1	1679.3
5°	1540.2	1544.8	1558.0	1580.9	1610.4	1641.9	1669.9	1695.0	1705.2	1701.4	1682.6
5.5°	1529.5	1534.3	1549.3	1574.2	1606.8	1641.6	1672.4	1699.4	1710.5	1706.2	1685.9
6°	1518.6	1523.4	1539.9	1567.1	1602.7	1640.6	1674.7	1703.4	1715.4	1710.8	1688.7
6.5°	1507.4	1512.5	1530.5	1560.0	1598.4	1639.6	1676.5	1707.0	1720.0	1715.1	1691.5
7°	1495.7	1501.5	1520.6	1552.6	1594.1	1638.3	1678.0	1710.5	1724.5	1718.9	1693.5
7.5°	1484.5	1490.6	1510.9	1545.0	1589.0	1636.8	1679.3	1713.6	1728.6	1722.7	1695.5
8°	1472.5	1478.9	1500.8	1537.1	1583.9	1634.5	1680.3	1716.4	1732.4	1726.1	1697.1
8.5°	1460.6	1467.5	1490.6	1529.0	1578.6	1632.5	1680.8	1718.7	1735.7	1729.1	1698.3
9°	1448.1	1455.5	1479.7	1520.6	1572.7	1629.9	1681.0	1721.0	1738.8	1731.6	1699.6
9.5°	1436.2	1443.5	1469.2	1512.0	1566.9	1627.1	1681.0	1722.7	1741.6	1733.9	1700.1
10°	1423.7	1431.3	1458.3	1502.8	1560.8	1623.8	1680.8	1724.0	1743.9	1736.0	1700.6
10.5°	1411.0	1419.1	1447.1	1494.2	1554.2	1620.3	1680.3	1725.3	1745.9	1737.8	1700.6
11°	1398.3	1406.7	1435.7	1484.7	1547.3	1616.7	1679.3	1726.1	1747.7	1739.0	1700.4
11.5°	1385.6	1394.2	1424.5	1475.1	1540.4	1612.6	1678.3	1726.6	1749.2	1740.3	1699.6
12°	1372.6	1381.3	1412.8	1465.2	1533.3	1608.6	1676.7	1726.6	1750.2	1740.8	1698.8
12.5°	1359.1	1368.5	1400.8	1455.5	1525.7	1604.0	1674.7	1726.6	1751.0	1741.3	1697.6
13°	1345.7	1355.3	1388.9	1445.1	1518.1	1599.2	1672.7	1726.1	1751.5	1741.3	1696.1
13.5°	1332.7	1342.1	1376.9	1435.2	1510.4	1594.1	1670.1	1725.3	1751.5	1741.1	1694.3
14°	1319.2	1329.1	1364.7	1424.5	1501.8	1588.7	1667.3	1724.0	1751.2	1740.3	1692.0
14.5°	1305.5	1315.6	1352.3	1413.8	1493.4	1582.9	1664.3	1722.7	1750.5	1739.3	1689.4
15°	1292.0	1302.4	1339.5	1402.9	1485.0	1577.0	1661.0	1720.7	1749.4	1738.0	1686.6
15.5°	1277.8	1288.7	1326.8	1391.7	1476.1	1570.7	1657.1	1718.7	1748.2	1736.5	1683.6
16°	1264.0	1275.0	1314.1	1380.5	1466.9	1564.3	1653.3	1716.1	1746.4	1734.4	1680.0
16.5°	1250.0	1261.2	1301.4	1369.3	1457.5	1557.5	1649.0	1713.3	1744.6	1732.2	1676.2
17°	1236.1	1247.8	1288.7	1357.6	1448.1	1550.6	1644.4	1710.3	1742.1	1729.4	1672.1
17.5°	1221.8	1233.8	1275.2	1346.2	1438.5	1543.5	1639.6	1706.7	1739.3	1726.3	1667.6
18°	1207.6	1219.8	1262.2	1334.0	1428.5	1535.9	1634.5	1702.9	1736.2	1722.7	1663.0
18.5°	1193.3	1205.5	1248.8	1322.3	1418.1	1528.2	1628.9	1698.6	1732.7	1718.9	1657.9
19°	1179.4	1191.6	1235.5	1310.1	1408.0	1520.1	1623.1	1694.0	1728.9	1714.9	1652.3
19.5°	1164.6	1177.3	1222.1	1297.8	1397.5	1512.0	1617.0	1689.2	1724.8	1710.3	1646.5
20°	1150.9	1163.3	1208.3	1285.6	1386.8	1503.3	1610.6	1683.8	1720.0	1705.0	1640.4
20.5°	1136.1	1149.3	1194.9	1272.9	1375.7	1494.7	1604.0	1678.3	1714.9	1699.6	1634.0
21°	1121.9	1135.1	1181.1	1260.2	1364.7	1485.5	1596.6	1672.1	1709.3	1694.0	1626.9



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CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1078.1	1091.9	1139.7	1221.8	1330.4	1456.5	1573.5	1651.0	1689.4	1673.4	1603.5
23°	1063.7	1077.6	1125.7	1208.6	1318.4	1446.3	1564.8	1642.9	1681.8	1665.5	1594.8
23.5°	1049.2	1062.9	1111.5	1195.4	1306.2	1435.9	1555.7	1634.5	1673.4	1657.1	1585.7
24°	1034.7	1048.7	1098.0	1182.1	1294.0	1425.0	1546.3	1624.9	1664.5	1647.7	1575.8
24.5°	1019.9	1034.2	1083.5	1168.7	1281.6	1413.5	1536.1	1614.9	1654.9	1638.1	1565.4
25°	1005.2	1019.7	1069.5	1154.9	1268.6	1401.8	1525.4	1604.5	1644.7	1627.6	1554.4
25.5°	990.7	1004.9	1055.3	1141.2	1255.1	1389.4	1514.2	1594.1	1634.3	1617.5	1543.2
26°	976.2	990.9	1041.0	1127.5	1242.2	1376.9	1502.8	1582.6	1623.6	1606.0	1531.5
26.5°	961.7	976.4	1026.8	1113.7	1228.4	1364.0	1490.8	1571.2	1612.6	1595.1	1520.1
27°	947.4	961.9	1012.8	1099.8	1214.7	1351.5	1479.1	1560.0	1601.5	1584.2	1508.1
27.5°	932.7	947.4	998.6	1085.5	1201.5	1338.8	1467.2	1549.1	1590.3	1572.7	1496.4
28°	918.0	933.2	984.1	1071.5	1188.0	1326.1	1455.5	1537.4	1578.8	1561.3	1484.7
28.5°	903.2	918.5	969.8	1057.6	1174.8	1313.1	1443.0	1526.2	1567.9	1550.3	1473.3
29°	889.0	904.2	956.1	1043.8	1161.6	1300.6	1431.3	1514.7	1556.5	1538.9	1461.3
29.5°	874.7	889.7	941.9	1030.1	1148.6	1288.2	1419.4	1503.8	1545.5	1527.7	1449.9
30°	860.2	875.5	927.6	1016.9	1135.9	1276.0	1408.0	1493.1	1535.1	1517.3	1439.2
30.5°	845.5	861.2	913.6	1003.1	1122.6	1263.8	1396.8	1483.0	1525.2	1507.4	1428.5
31°	831.2	847.0	900.2	989.9	1109.7	1251.8	1386.1	1471.8	1514.2	1495.9	1416.3
31.5°	817.0	832.8	886.4	975.9	1095.4	1238.1	1373.4	1458.0	1501.3	1482.7	1402.4
32°	802.8	818.8	872.4	962.2	1080.7	1223.6	1359.1	1442.3	1486.0	1467.2	1386.1
32.5°	788.0	804.3	858.7	947.4	1064.9	1207.1	1343.1	1425.5	1468.7	1449.7	1368.8
33°	774.0	790.6	844.5	933.2	1048.9	1190.3	1325.8	1405.9	1449.1	1430.3	1350.2
33.5°	760.3	776.8	830.7	918.0	1031.9	1172.0	1306.7	1385.3	1428.0	1409.5	1329.9
34°	746.1	762.8	816.2	902.2	1014.8	1153.4	1286.9	1362.4	1405.2	1387.4	1309.0
34.5°	732.1	749.1	801.7	886.7	997.5	1134.1	1265.6	1339.0	1381.0	1363.7	1287.2
35°	717.8	735.1	787.3	871.2	980.0	1113.7	1243.7	1313.4	1355.3	1338.3	1264.8
35.5°	703.8	721.1	772.8	855.1	961.7	1093.7	1220.3	1287.2	1328.1	1312.8	1241.1
36°	690.4	707.2	758.3	839.1	943.6	1073.1	1196.9	1259.7	1299.9	1285.6	1216.2
36.5°	676.4	693.4	743.8	822.9	924.8	1051.7	1173.0	1232.2	1270.9	1257.4	1190.8
37°	662.9	679.7	729.3	807.1	906.3	1029.8	1147.1	1202.7	1241.1	1228.4	1165.1
37.5°	648.9	665.7	714.3	790.8	887.4	1008.2	1121.6	1173.2	1210.9	1198.4	1138.4
38°	635.4	652.0	699.8	774.3	868.1	985.8	1094.9	1143.8	1180.1	1168.4	1111.5
38.5°	621.7	637.7	685.0	757.5	849.3	964.0	1068.5	1115.3	1149.1	1138.2	1083.7
39°	608.2	624.3	670.3	741.2	831.0	941.3	1042.0	1084.3	1117.1	1107.4	1056.0
39.5°	595.0	610.5	655.8	725.0	811.7	918.5	1015.1	1054.5	1085.3	1075.9	1028.1
40°	581.5	596.8	640.5	708.4	792.1	895.6	988.1	1024.0	1053.7	1044.8	999.8
40.5°	568.1	583.1	626.0	691.4	773.0	872.9	960.7	995.0	1022.0	1014.1	971.4
41°	554.8	569.6	611.3	675.1	753.7	850.1	934.2	965.0	991.4	983.6	943.4
41.5°	541.4	556.1	597.1	658.8	734.9	826.9	907.8	935.2	959.9	953.0	915.4
42°	527.9	542.6	582.6	642.6	715.5	804.3	881.6	906.8	930.2	922.8	887.9
42.5°	514.9	529.4	568.1	626.8	696.5	781.7	855.9	878.8	900.4	893.3	860.7
43°	501.7	516.2	554.3	610.8	677.7	759.8	830.0	851.3	871.4	865.1	833.8
43.5°	488.7	503.0	540.3	595.0	658.6	737.7	804.8	824.4	842.9	836.3	807.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	449.6	464.1	498.9	548.2	603.4	673.3	732.8	747.8	763.6	757.8	732.3
45.5°	436.9	450.8	485.4	533.2	585.6	653.0	710.0	724.2	738.9	732.6	708.2
46°	424.4	438.4	471.9	518.5	568.1	633.2	687.8	701.1	715.3	709.2	684.8
46.5°	412.2	426.2	459.2	503.7	551.0	613.1	666.2	678.4	692.4	686.0	662.1
47°	399.7	413.5	445.8	488.5	534.0	593.5	645.1	657.6	670.8	664.2	641.0
47.5°	387.5	401.8	432.8	474.7	517.5	574.9	624.8	637.2	650.4	643.3	620.2
48°	375.6	389.8	420.1	460.2	501.7	557.4	605.2	617.6	630.6	623.7	600.1
48.5°	363.9	378.1	407.4	446.3	486.4	539.6	586.6	598.8	611.3	604.2	580.5
49°	351.9	366.9	395.2	432.5	470.9	522.0	568.1	581.0	593.7	586.4	562.5
49.5°	341.2	355.7	382.7	419.3	455.7	506.0	550.8	563.5	576.2	568.1	544.2
50°	329.8	344.5	370.7	405.8	441.2	490.0	533.7	547.0	559.4	551.5	527.1
50.5°	318.9	334.1	358.8	392.6	427.2	474.2	517.0	530.7	543.1	535.0	510.6
51°	308.4	323.2	347.3	379.9	413.5	459.0	501.2	515.4	527.6	519.2	494.8
51.5°	298.5	313.0	335.9	367.7	400.2	444.5	486.2	500.4	512.9	504.5	479.6
52°	288.6	302.6	324.5	355.7	387.3	430.2	471.2	486.4	498.4	489.7	464.8
52.5°	279.2	292.9	313.8	343.8	374.8	417.0	456.9	472.2	484.7	475.5	450.3
53°	270.6	283.3	303.1	332.1	362.6	403.5	443.0	459.0	471.2	462.0	436.6
53.5°	262.2	273.9	292.7	320.9	350.9	390.6	429.7	446.0	458.2	448.8	423.1
54°	254.5	264.7	282.5	310.0	339.5	377.9	416.8	433.3	445.8	436.1	410.7
54.5°	247.7	256.1	272.6	299.8	328.5	366.2	404.1	421.1	433.3	423.6	398.2
55°	241.3	247.9	263.2	289.4	317.6	354.2	392.1	409.1	421.1	411.7	386.0
55.5°	235.5	239.8	254.0	279.7	307.2	342.8	380.4	397.4	409.4	400.0	374.3
56°	230.1	232.4	245.1	269.8	296.7	331.8	368.7	386.3	397.7	388.8	362.9
56.5°	226.1	225.3	236.7	260.6	286.8	320.9	357.5	375.1	386.3	377.1	351.7
57°	221.2	218.7	228.3	251.5	276.9	310.2	346.6	364.1	375.1	366.2	341.0
57.5°	215.6	212.6	220.5	242.6	267.5	300.1	335.9	353.7	364.1	355.7	330.6
58°	210.0	207.5	212.8	233.9	258.3	290.4	325.5	343.0	353.2	345.3	320.4
58.5°	204.4	202.4	205.5	225.8	249.4	280.7	315.6	332.6	342.3	334.6	310.0
59°	198.8	197.3	198.3	217.7	240.8	271.3	305.4	322.4	331.8	324.2	300.3
59.5°	193.0	192.0	191.7	209.8	232.4	262.2	295.7	312.3	321.4	314.0	290.6
60°	187.4	186.9	185.1	202.2	224.0	253.3	286.3	302.6	311.5	304.4	281.2
60.5°	181.8	181.6	179.0	194.8	216.4	244.9	276.7	292.9	301.3	294.5	272.1
61°	176.5	176.2	172.9	187.4	208.8	236.2	267.5	283.5	291.7	285.0	262.9
61.5°	171.1	171.1	167.1	180.5	200.9	227.8	258.6	274.1	282.0	275.9	254.3
62°	166.0	166.0	161.7	173.7	193.3	220.2	250.2	265.0	272.6	267.0	245.6
62.5°	160.7	161.0	156.4	167.1	186.4	212.3	241.6	255.8	263.4	257.3	237.2
63°	155.9	156.1	151.3	160.7	179.3	204.7	233.2	247.2	254.3	248.7	229.1
63.5°	150.8	151.3	146.5	154.6	172.4	197.1	225.0	238.8	245.4	240.0	221.2
64°	146.2	146.5	142.1	148.8	165.8	189.4	217.2	230.1	236.7	231.6	213.3
64.5°	141.4	141.9	137.8	143.2	159.2	182.3	209.3	222.2	228.3	223.5	205.7
65°	136.8	137.6	133.8	137.6	153.1	175.5	201.4	214.4	220.2	215.6	197.8
65.5°	132.5	133.0	129.7	132.2	147.0	168.6	193.8	206.5	212.1	207.7	189.9
66°	127.9	128.7	125.6	127.1	140.9	161.7	186.6	198.6	204.2	199.9	182.8



TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	115.2	116.2	113.7	112.6	124.1	142.9	165.5	175.7	180.0	176.7	161.7
68°	111.4	112.1	110.1	108.3	118.5	136.8	158.7	168.3	172.4	169.4	154.9
68.5°	107.3	108.1	106.3	104.0	113.4	131.0	151.8	161.5	165.3	162.5	148.5
69°	103.5	104.3	102.5	99.9	108.6	125.1	145.4	154.3	157.9	155.4	141.9
69.5°	99.4	100.4	98.9	95.9	103.7	119.8	139.1	147.7	151.0	148.5	135.8
70°	95.9	96.6	95.4	91.8	98.9	114.4	133.0	141.1	143.9	141.9	129.7
70.5°	92.0	93.1	91.5	88.2	94.6	109.1	126.9	134.8	137.3	135.8	123.8
71°	88.5	89.5	88.2	84.9	90.0	104.0	121.3	128.4	130.7	129.2	117.7
71.5°	85.2	86.2	85.2	81.6	85.9	98.9	115.4	122.6	124.3	123.1	112.1
72°	81.9	82.9	81.9	78.3	81.6	94.1	109.8	116.2	117.7	117.0	106.5
72.5°	78.3	79.3	78.8	74.8	77.6	89.5	104.3	110.6	111.6	110.9	100.9
73°	75.0	76.0	75.5	71.7	73.7	84.9	98.9	104.8	105.5	105.3	95.6
73.5°	71.7	72.7	72.2	68.7	69.9	80.4	93.6	99.2	99.7	99.7	90.8
74°	68.7	69.4	69.2	65.9	66.4	76.0	88.7	93.8	94.1	94.3	85.7
74.5°	65.4	66.4	66.1	62.8	62.8	72.0	83.7	88.7	88.2	89.0	80.6
75°	62.3	63.3	63.3	60.0	59.5	67.9	78.8	83.4	82.9	83.7	76.0
75.5°	59.2	60.3	60.3	57.5	56.5	64.1	74.2	78.6	77.6	78.8	71.5
76°	56.5	57.2	57.5	54.7	53.1	60.3	69.7	73.7	72.2	74.0	66.9
76.5°	53.4	54.4	54.7	52.1	50.3	56.5	65.4	68.9	67.1	69.2	62.6
77°	50.6	51.4	51.9	49.6	47.3	53.1	61.3	64.3	62.3	64.6	58.5
77.5°	47.8	48.6	49.1	47.0	44.5	49.6	57.0	60.0	57.5	60.3	54.4
78°	45.0	46.0	46.5	44.5	42.0	46.5	53.1	55.7	52.9	55.9	50.3
78.5°	42.5	43.2	43.7	42.2	39.2	43.2	49.3	51.6	48.3	51.6	46.8
79°	39.7	40.7	41.2	39.7	36.9	40.2	45.5	47.6	44.0	47.8	43.0
79.5°	37.1	38.1	38.7	37.4	34.3	37.4	42.0	43.7	39.9	43.7	39.7
80°	34.6	35.3	36.1	35.1	32.0	34.6	38.4	39.9	35.9	40.2	36.1
80.5°	32.3	32.8	33.8	32.8	29.8	31.8	35.3	36.1	32.0	36.4	32.8
81°	29.8	30.5	31.5	30.8	27.5	29.2	32.0	32.5	28.2	32.8	29.8
81.5°	27.5	28.2	29.2	28.5	25.4	26.7	29.0	29.0	24.9	29.5	26.7
82°	25.2	25.7	27.0	26.4	23.4	24.2	26.2	25.9	21.6	26.4	24.2
82.5°	22.9	23.4	24.7	24.2	21.4	22.1	23.6	22.9	18.6	23.4	21.6
83°	20.6	21.4	22.6	22.1	19.6	20.1	21.1	19.8	15.3	20.3	18.8
83.5°	18.3	19.1	20.3	20.3	17.8	17.8	18.6	16.8	12.0	17.3	16.3
84°	16.3	16.8	18.3	18.3	15.8	15.8	16.0	13.7	9.4	14.2	13.7
84.5°	14.2	14.7	16.3	16.3	14.0	13.7	13.5	10.9	7.1	11.2	11.7
85°	12.2	12.7	14.2	14.5	12.2	12.0	11.4	8.6	5.3	8.6	9.7
85.5°	10.2	10.4	12.5	12.5	10.4	10.2	9.7	6.9	4.1	6.9	7.9
86°	8.6	9.2	10.7	10.7	8.9	8.4	7.9	5.1	3.3	5.1	6.1
86.5°	7.1	7.6	8.9	9.2	7.4	6.9	6.1	3.6	2.5	3.6	4.6
87°	5.6	6.1	7.4	7.4	5.8	5.3	4.6	2.3	1.8	2.3	3.3
87.5°	4.1	4.6	5.8	5.8	4.3	3.8	3.3	1.3	1.3	1.3	2.0
88°	2.8	3.3	4.3	4.1	3.1	2.5	2.0	0.5	0.5	0.5	1.0
88.5°	1.8	2.0	2.5	2.5	1.5	1.3	1.0	0.3	0.3	0.3	0.3



TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1632.7	1632.7	1632.7	1632.7	1632.7	1632.7
0.5°	1635.3	1631.7	1626.9	1622.6	1627.6	1627.4
1°	1638.3	1631.7	1623.6	1616.7	1619.8	1618.7
1.5°	1641.1	1631.7	1620.0	1610.4	1611.6	1609.8
2°	1643.9	1631.0	1616.2	1603.5	1603.2	1600.4
2.5°	1646.2	1630.2	1611.9	1596.4	1594.6	1591.0
3°	1648.2	1628.9	1607.6	1589.5	1585.7	1581.4
3.5°	1649.8	1627.4	1602.7	1582.1	1576.8	1571.5
4°	1651.3	1625.9	1597.9	1574.5	1567.4	1561.3
4.5°	1652.3	1623.8	1592.6	1566.4	1557.7	1550.9
5°	1652.8	1621.5	1587.2	1558.0	1548.1	1540.2
5.5°	1653.3	1619.0	1581.1	1549.6	1537.9	1529.5
6°	1653.6	1616.0	1575.3	1540.9	1527.7	1518.6
6.5°	1653.3	1612.6	1568.9	1531.8	1517.3	1507.4
7°	1652.8	1609.3	1562.0	1522.9	1506.4	1495.7
7.5°	1652.1	1605.3	1555.2	1513.0	1495.7	1484.5
8°	1651.0	1601.2	1548.1	1503.6	1484.5	1472.5
8.5°	1649.8	1596.9	1540.4	1493.4	1473.3	1460.6
9°	1648.0	1592.0	1532.5	1483.5	1461.6	1448.1
9.5°	1646.0	1587.0	1524.4	1472.8	1449.9	1436.2
10°	1643.7	1581.9	1516.3	1462.6	1438.2	1423.7
10.5°	1641.1	1576.3	1507.9	1451.7	1426.3	1411.0
11°	1638.1	1570.2	1499.2	1441.0	1414.1	1398.3
11.5°	1635.0	1564.1	1490.1	1429.6	1401.6	1385.6
12°	1631.2	1557.7	1480.9	1418.4	1389.1	1372.6
12.5°	1627.6	1551.1	1471.5	1406.9	1376.4	1359.1
13°	1623.3	1544.2	1462.1	1395.2	1363.7	1345.7
13.5°	1619.0	1537.1	1452.2	1383.5	1351.0	1332.7
14°	1614.2	1529.8	1442.0	1371.3	1337.8	1319.2
14.5°	1609.3	1522.1	1431.6	1359.1	1324.8	1305.5
15°	1604.0	1514.0	1421.4	1347.2	1311.3	1292.0
15.5°	1598.4	1505.8	1410.5	1334.2	1297.8	1277.8
16°	1592.6	1497.2	1399.8	1321.7	1284.4	1264.0
16.5°	1586.5	1488.8	1388.9	1308.8	1270.6	1250.0
17°	1579.8	1479.7	1377.4	1296.3	1257.2	1236.1
17.5°	1573.2	1470.5	1366.2	1283.6	1243.4	1221.8
18°	1566.1	1461.1	1354.6	1270.1	1229.7	1207.6
18.5°	1559.0	1451.4	1342.9	1256.9	1215.7	1193.3
19°	1551.1	1441.5	1330.9	1243.9	1201.5	1179.4
19.5°	1543.2	1431.6	1319.0	1230.7	1187.5	1164.6
20°	1535.1	1420.9	1306.7	1217.2	1173.5	1150.9
20.5°	1526.4	1410.7	1294.5	1203.5	1159.5	1136.1
21°	1517.8	1399.8	1281.8	1190.0	1145.3	1121.9



TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1489.6	1366.2	1243.7	1148.8	1102.6	1078.1
23°	1479.4	1354.3	1230.5	1134.9	1087.8	1063.7
23.5°	1468.5	1342.3	1217.2	1121.1	1073.8	1049.2
24°	1457.5	1330.1	1203.8	1106.6	1059.6	1034.7
24.5°	1445.8	1317.4	1190.3	1093.2	1044.8	1019.9
25°	1433.6	1304.2	1176.6	1078.7	1030.3	1005.2
25.5°	1421.4	1291.2	1162.8	1064.4	1016.1	990.7
26°	1408.7	1278.0	1148.8	1050.4	1001.6	976.2
26.5°	1396.3	1264.3	1134.9	1036.4	987.1	961.7
27°	1383.8	1250.6	1120.6	1022.0	972.9	947.4
27.5°	1371.1	1237.3	1106.6	1007.5	958.1	932.7
28°	1358.4	1224.1	1092.6	993.2	943.9	918.0
28.5°	1345.9	1210.6	1079.2	979.5	929.1	903.2
29°	1333.7	1197.7	1065.4	965.2	915.2	889.0
29.5°	1321.7	1184.9	1052.2	951.5	900.7	874.7
30°	1310.1	1172.2	1038.7	937.3	886.4	860.2
30.5°	1297.8	1159.5	1025.0	923.5	872.2	845.5
31°	1284.1	1145.8	1011.0	909.8	858.2	831.2
31.5°	1269.6	1131.5	997.3	895.8	844.0	817.0
32°	1253.3	1115.8	982.5	881.8	829.7	802.8
32.5°	1236.1	1099.5	967.5	867.6	815.5	788.0
33°	1217.7	1083.2	952.3	853.4	801.7	774.0
33.5°	1198.9	1065.7	936.8	839.1	787.8	760.3
34°	1179.4	1048.1	920.7	824.6	773.8	746.1
34.5°	1159.5	1030.3	904.5	809.9	759.8	732.1
35°	1139.2	1012.0	888.2	795.1	746.1	717.8
35.5°	1118.1	993.7	871.9	780.1	731.8	703.8
36°	1096.7	974.9	855.4	765.6	718.1	690.4
36.5°	1074.6	956.3	838.9	750.6	704.1	676.4
37°	1052.2	937.0	821.8	735.4	690.1	662.9
37.5°	1029.6	918.0	805.3	720.4	676.1	648.9
38°	1006.7	898.1	788.3	705.4	662.1	635.4
38.5°	983.8	878.8	771.5	690.4	648.2	621.7
39°	960.7	859.0	755.0	675.6	634.2	608.2
39.5°	937.3	839.4	737.7	660.6	620.4	595.0
40°	912.9	819.5	720.9	645.6	606.7	581.5
40.5°	889.0	799.5	704.1	630.9	592.7	568.1
41°	865.6	779.4	687.3	616.1	579.0	554.8
41.5°	841.7	759.5	670.5	601.1	565.0	541.4
42°	818.0	740.0	654.0	586.9	551.5	527.9
42.5°	793.9	719.6	637.7	572.6	538.1	514.9
43°	770.5	700.3	621.2	557.9	524.8	501.7
43.5°	747.3	680.7	604.4	543.4	511.6	488.7

TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	680.2	623.2	556.4	501.2	471.7	449.6
45.5°	658.1	604.2	540.3	487.2	459.0	436.9
46°	637.5	585.9	524.8	473.7	446.0	424.4
46.5°	616.1	567.6	509.3	460.2	433.5	412.2
47°	596.0	550.0	494.1	446.5	421.1	399.7
47.5°	576.5	532.2	478.8	433.0	408.9	387.5
48°	557.9	515.2	464.3	420.1	396.9	375.6
48.5°	539.1	498.4	449.6	406.8	384.7	363.9
49°	521.0	482.4	435.3	394.4	373.3	351.9
49.5°	504.0	466.6	421.1	381.7	361.8	341.2
50°	487.5	450.8	407.4	369.2	350.4	329.8
50.5°	470.9	435.6	393.6	356.8	339.5	318.9
51°	455.7	421.1	380.7	345.1	328.0	308.4
51.5°	440.9	407.1	367.7	333.1	317.6	298.5
52°	426.4	393.4	355.2	322.2	307.2	288.6
52.5°	412.2	380.1	343.0	310.7	296.7	279.2
53°	398.7	367.2	331.1	299.8	286.6	270.6
53.5°	385.5	354.7	319.6	289.1	276.7	262.2
54°	373.3	342.8	308.2	278.9	267.0	254.5
54.5°	361.1	331.3	297.5	268.8	257.8	247.7
55°	349.1	319.6	287.1	259.1	249.2	241.3
55.5°	337.9	309.0	276.9	249.7	240.8	235.5
56°	326.8	298.5	267.0	240.8	232.7	230.1
56.5°	316.1	288.1	257.3	232.2	225.0	226.1
57°	305.6	277.9	248.2	223.5	218.2	221.2
57.5°	295.5	268.5	239.3	215.6	211.3	215.6
58°	285.8	259.4	230.6	208.0	205.2	210.0
58.5°	276.1	250.2	222.2	200.6	199.6	204.4
59°	266.7	241.1	214.1	193.5	194.5	198.8
59.5°	257.8	232.9	206.2	186.4	189.7	193.0
60°	248.9	224.5	198.6	180.0	184.6	187.4
60.5°	240.3	216.4	191.2	173.7	179.5	181.8
61°	231.9	208.0	184.1	167.6	174.4	176.5
61.5°	224.0	200.6	177.0	161.7	169.4	171.1
62°	216.1	193.3	170.1	156.4	164.5	166.0
62.5°	208.5	186.1	163.8	150.8	159.4	160.7
63°	200.6	178.8	157.4	145.7	154.6	155.9
63.5°	193.0	171.9	151.3	140.9	150.0	150.8
64°	185.6	165.3	145.2	136.0	145.2	146.2
64.5°	178.8	158.7	139.6	131.5	140.9	141.4
65°	171.4	152.3	134.0	127.4	136.3	136.8
65.5°	164.8	146.2	128.7	123.3	132.0	132.5
66°	158.2	140.1	123.6	119.5	127.6	127.9



TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL5125CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	139.3	123.3	109.1	108.1	114.9	115.2
68°	133.5	118.0	104.5	104.5	111.1	111.4
68.5°	127.6	112.6	100.2	100.9	107.1	107.3
69°	122.1	107.8	96.1	97.1	103.5	103.5
69.5°	116.5	103.0	92.0	93.8	99.7	99.4
70°	111.1	98.2	88.5	90.5	95.9	95.9
70.5°	105.8	93.6	84.9	87.2	92.3	92.0
71°	100.7	89.5	81.4	84.2	89.0	88.5
71.5°	95.9	85.4	77.8	80.9	85.4	85.2
72°	91.0	81.4	74.0	77.6	82.1	81.9
72.5°	86.5	77.3	70.9	74.2	78.8	78.3
73°	81.9	73.0	67.6	71.2	75.5	75.0
73.5°	77.6	69.4	64.6	68.1	72.2	71.7
74°	73.2	65.6	61.8	65.4	68.9	68.7
74.5°	69.2	62.0	58.7	62.3	65.9	65.4
75°	65.1	58.7	55.9	59.2	62.8	62.3
75.5°	61.3	55.4	53.4	56.5	59.8	59.2
76°	57.5	52.4	50.6	53.7	56.7	56.5
76.5°	53.9	49.3	48.1	51.1	53.9	53.4
77°	50.6	46.3	45.5	48.3	51.1	50.6
77.5°	47.3	43.5	43.2	45.8	48.1	47.8
78°	44.0	40.7	40.9	43.2	45.5	45.0
78.5°	40.9	38.1	38.4	40.7	42.7	42.5
79°	37.9	35.6	36.4	38.1	40.2	39.7
79.5°	35.1	33.1	34.1	35.9	37.6	37.1
80°	32.0	30.8	31.8	33.3	35.1	34.6
80.5°	29.5	28.5	29.8	31.0	32.5	32.3
81°	27.0	26.2	27.7	28.7	30.3	29.8
81.5°	24.4	24.2	25.4	26.4	27.7	27.5
82°	22.4	22.1	23.4	24.4	25.4	25.2
82.5°	20.1	20.1	21.4	22.1	23.1	22.9
83°	18.1	18.1	19.6	20.1	20.9	20.6
83.5°	15.8	16.3	17.5	18.1	18.8	18.3
84°	13.7	14.5	15.8	16.0	16.5	16.3
84.5°	11.7	12.7	14.0	14.2	14.5	14.2
85°	9.9	11.2	12.2	12.5	12.5	12.2
85.5°	8.1	9.4	10.4	10.7	10.4	10.2
86°	6.6	7.9	8.6	8.9	8.9	8.6
86.5°	5.1	6.4	7.1	7.4	7.6	7.1
87°	3.8	4.8	5.6	5.8	6.1	5.6
87.5°	2.3	3.6	4.1	4.1	4.6	4.1
88°	1.3	2.0	2.3	2.5	3.3	2.8
88.5°	0.3	0.8	1.0	1.3	2.0	1.8



TEST NUMBER: P776163

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRH-HCD82TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.3	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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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





21.5°	1107.1	1120.6	1166.9	1247.5	1353.5	1476.1	1589.3	1665.5	1703.2	1687.4	1619.3
22°	1092.6	1106.1	1153.4	1234.8	1342.1	1466.4	1581.6	1658.4	1696.6	1680.8	1611.6



44°	475.5	489.7	526.6	578.7	640.0	715.8	780.4	797.9	815.2	809.4	781.1
44.5°	462.5	476.8	512.6	564.0	621.7	694.2	756.5	772.5	789.0	782.4	756.2



66.5°	123.6	124.3	121.5	122.1	135.0	155.1	179.5	190.7	196.1	192.0	175.7
67°	119.5	120.3	117.7	117.2	129.4	149.0	172.4	183.1	187.9	184.1	168.6



89°	0.8	1.0	1.3	1.0	0.5	0.3	0.3	0.0	0.0	0.0	0.0
89.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	1508.4	1388.9	1269.4	1176.3	1131.0	1107.1
22°	1499.0	1377.2	1256.4	1162.6	1116.8	1092.6



44°	724.4	661.1	588.4	529.4	497.9	475.5
44.5°	702.3	641.8	572.4	515.2	484.9	462.5



66.5°	151.8	134.5	118.5	115.7	123.3	123.6
67°	145.4	128.9	113.7	111.9	119.3	119.5

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

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Scaled Data Report



(END OF REPORT)