

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: P776061

Luminaire Tested: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B061)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K
Description: 6 INCH ROUND NARROW LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2816.4 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.09 / 1.15
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

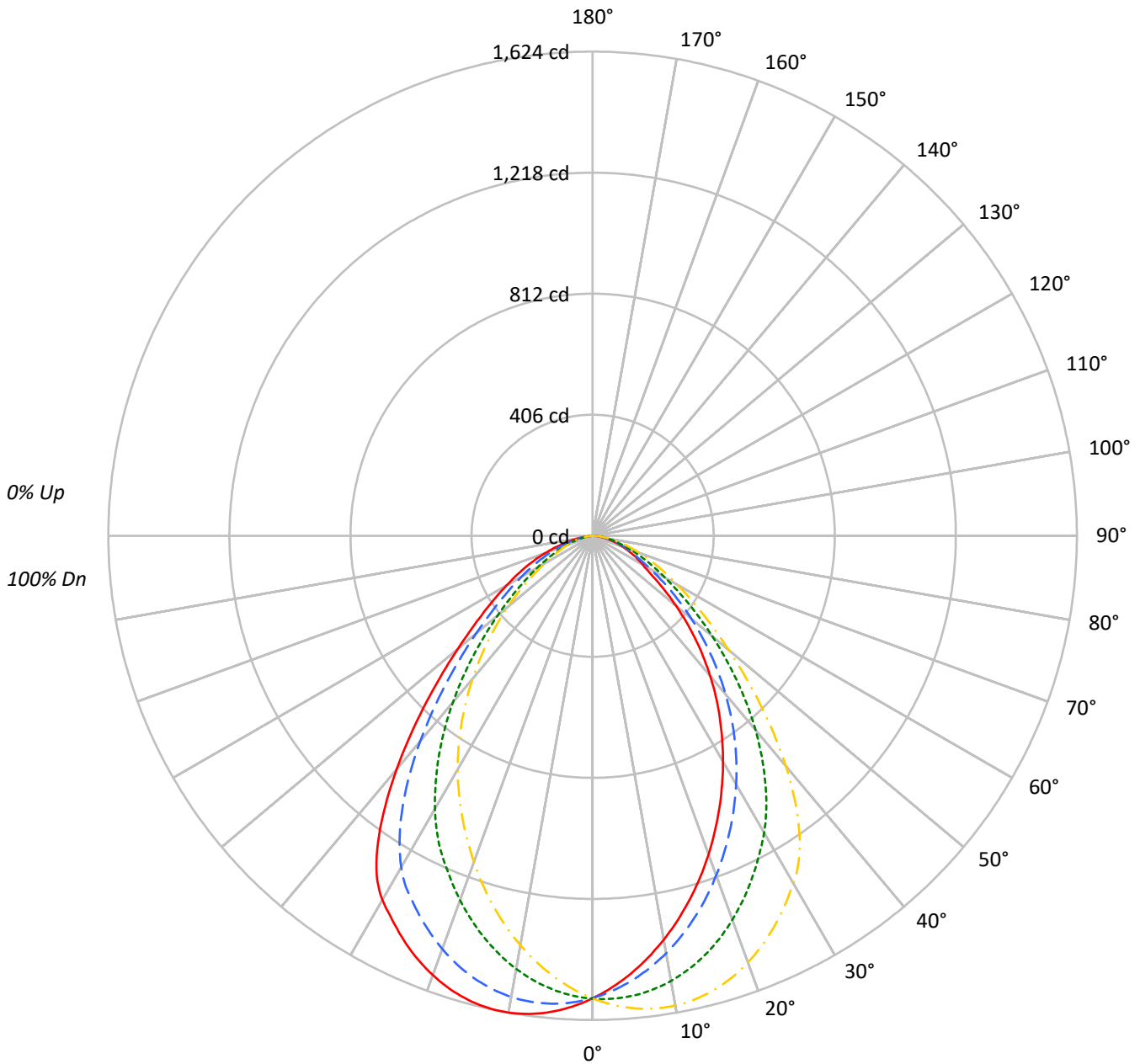
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	85037	85037	85037	85037
5°	81097	85230	88218	84074
10°	76546	84401	90396	82129
15°	71595	82617	91476	79331
20°	66319	79947	91475	75857
25°	60856	76571	90574	71944
30°	55338	72802	89267	66909
35°	49710	67579	83942	60104
40°	43854	60771	73144	52162
45°	37593	52858	61053	43547
50°	31095	44621	50352	35453
55°	25070	37017	42378	28682
60°	21314	30710	36620	23320
65°	19354	25852	32014	18938
70°	17182	21702	27088	15131
75°	15060	18321	21499	11882
80°	12470	15816	14490	8903
85°	7799	15222	5158	4969

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 62355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	5.2
10°-20°	402.3	14.3
20°-30°	569.8	20.2
30°-40°	607.0	21.6
40°-50°	487.2	17.3
50°-60°	316.3	11.2
60°-70°	183.4	6.5
70°-80°	86.2	3.1
80°-90°	18.8	0.7
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°	1117.5	39.7
0°-40°	1724.5	61.2
0°-60°	2528.0	89.8
0°-90°	2816.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1551	1551	1551	1551	1551	
5°	1474	1549	1603	1528	1474	138
15°	1262	1456	1612	1398	1262	353
25°	1006	1266	1497	1189	1006	462
35°	743	1010	1254	898	743	464
45°	485	682	788	562	485	374
55°	262	387	443	300	262	239
65°	149	199	247	146	149	148
75°	71	86	102	56	71	76
85°	12	24	8	8	12	16
90°	0	4	0	0	0	



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2
0.5°	1544.8	1544.8	1546.6	1549.3	1553.7	1555.2	1556.7	1557.4	1558.2	1556.2	1554.5
1°	1537.9	1538.9	1542.4	1547.3	1554.2	1558.2	1561.6	1563.6	1564.1	1561.6	1557.9
1.5°	1530.7	1532.7	1537.4	1545.1	1554.5	1561.1	1566.3	1569.3	1570.0	1566.6	1561.1
2°	1523.3	1526.0	1532.7	1542.4	1554.7	1563.6	1570.8	1574.7	1575.5	1571.3	1564.1
2.5°	1515.4	1519.1	1527.5	1539.4	1554.2	1565.6	1575.0	1579.9	1580.9	1575.7	1566.8
3°	1507.5	1512.2	1522.1	1536.4	1553.7	1567.5	1578.7	1584.8	1585.8	1579.9	1569.0
3.5°	1499.6	1504.8	1516.4	1533.0	1553.0	1569.0	1582.1	1589.5	1590.8	1583.6	1571.3
4°	1491.2	1497.4	1510.5	1529.3	1552.0	1570.5	1585.3	1594.0	1595.0	1587.3	1572.7
4.5°	1482.6	1489.7	1504.3	1525.3	1550.5	1571.5	1588.3	1597.9	1599.2	1590.5	1574.5
5°	1473.7	1481.6	1497.9	1520.9	1548.8	1572.0	1591.0	1601.9	1603.1	1593.5	1575.5
5.5°	1464.8	1473.4	1491.2	1516.7	1546.8	1572.5	1593.2	1605.3	1606.6	1596.2	1576.4
6°	1455.4	1465.0	1484.6	1511.7	1544.6	1572.5	1595.2	1608.3	1609.8	1598.4	1576.9
6.5°	1446.0	1456.4	1477.4	1506.8	1541.9	1572.2	1596.9	1611.0	1612.8	1600.6	1577.2
7°	1436.4	1447.5	1470.0	1501.3	1539.1	1571.7	1598.2	1613.5	1615.2	1602.1	1577.2
7.5°	1426.8	1438.4	1462.6	1495.7	1535.9	1571.0	1599.2	1615.7	1617.4	1603.6	1576.9
8°	1416.9	1429.2	1454.7	1490.0	1532.5	1569.8	1599.9	1617.4	1619.4	1604.6	1576.4
8.5°	1406.5	1419.8	1446.5	1484.1	1528.8	1568.3	1600.4	1619.2	1620.9	1605.3	1575.5
9°	1396.4	1410.0	1438.4	1477.6	1524.8	1566.6	1600.4	1620.2	1622.4	1605.8	1574.2
9.5°	1385.7	1400.1	1430.0	1471.0	1520.6	1564.6	1600.2	1621.2	1623.1	1606.1	1572.7
10°	1375.1	1390.4	1421.3	1464.0	1516.2	1562.1	1599.7	1621.6	1623.9	1605.8	1571.0
10.5°	1364.3	1380.6	1412.4	1457.1	1511.2	1559.6	1598.9	1621.9	1624.1	1605.1	1568.8
11°	1353.6	1370.2	1403.3	1449.7	1506.3	1556.7	1597.7	1621.6	1624.1	1604.4	1566.3
11.5°	1342.3	1359.6	1393.9	1442.3	1500.6	1553.5	1596.2	1621.2	1623.6	1603.1	1563.3
12°	1331.2	1349.2	1384.5	1434.4	1495.2	1549.8	1594.5	1620.4	1622.9	1601.6	1560.4
12.5°	1319.8	1338.1	1374.9	1426.3	1489.5	1546.1	1592.2	1619.2	1621.9	1599.9	1557.2
13°	1308.4	1327.7	1365.2	1418.1	1483.3	1541.9	1589.8	1617.7	1620.4	1597.7	1553.5
13.5°	1296.6	1316.6	1355.1	1410.0	1476.6	1537.4	1586.8	1616.0	1618.7	1595.5	1549.5
14°	1285.2	1305.5	1345.0	1401.3	1470.0	1532.7	1583.9	1613.7	1616.7	1592.7	1545.3
14.5°	1273.1	1293.9	1334.9	1392.2	1463.1	1527.5	1580.4	1611.3	1614.5	1589.5	1540.9
15°	1261.5	1282.7	1324.2	1383.3	1455.7	1522.1	1576.7	1608.6	1611.8	1586.1	1536.2
15.5°	1248.9	1270.9	1313.4	1373.6	1448.5	1516.7	1572.7	1605.3	1608.6	1582.4	1531.0
16°	1237.0	1259.3	1303.0	1364.5	1440.6	1510.7	1568.3	1601.9	1605.3	1578.4	1525.8
16.5°	1224.9	1247.4	1292.1	1354.6	1432.7	1504.6	1563.6	1598.2	1601.6	1574.2	1520.4
17°	1212.6	1235.8	1281.0	1344.7	1424.3	1498.1	1558.7	1594.0	1597.7	1569.8	1514.7
17.5°	1200.0	1223.7	1269.6	1334.6	1416.1	1491.5	1553.5	1589.8	1593.5	1564.8	1508.5
18°	1187.6	1211.8	1258.5	1324.5	1407.2	1484.1	1547.8	1584.8	1589.0	1559.9	1502.1
18.5°	1174.8	1199.5	1246.9	1313.9	1398.3	1476.9	1541.9	1579.9	1584.1	1554.5	1495.4
19°	1162.4	1187.4	1235.6	1303.2	1389.2	1469.5	1535.9	1574.7	1578.9	1548.8	1488.8
19.5°	1149.6	1174.8	1223.7	1292.6	1380.1	1461.8	1529.5	1569.3	1573.5	1542.8	1481.8
20°	1136.8	1162.7	1212.1	1282.0	1370.4	1453.9	1522.8	1563.3	1568.0	1536.9	1474.7
20.5°	1123.7	1150.1	1200.2	1270.6	1360.8	1445.5	1515.9	1557.2	1561.9	1530.5	1467.0
21°	1111.1	1137.5	1188.1	1259.8	1350.7	1437.1	1508.8	1551.0	1555.7	1523.6	1459.4



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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°	1071.8	1099.5	1151.6	1225.4	1320.5	1410.4	1486.3	1530.5	1535.7	1502.6	1435.1
23°	1058.7	1086.4	1139.2	1213.8	1309.7	1401.1	1478.1	1523.3	1528.5	1494.9	1426.5
23.5°	1045.9	1073.8	1127.1	1202.0	1299.0	1391.9	1469.7	1515.4	1521.1	1487.3	1417.9
24°	1032.8	1060.7	1114.5	1190.4	1287.9	1381.8	1461.3	1507.8	1513.5	1479.1	1409.0
24.5°	1019.4	1047.8	1101.9	1178.3	1277.1	1372.2	1452.7	1499.6	1505.5	1471.0	1399.8
25°	1006.1	1035.0	1089.6	1166.2	1265.9	1362.3	1443.5	1491.7	1497.4	1462.6	1390.2
25.5°	993.0	1021.6	1077.0	1153.8	1254.8	1351.9	1434.7	1483.1	1489.2	1453.9	1381.1
26°	979.9	1008.8	1064.1	1141.9	1243.2	1341.8	1425.5	1474.4	1480.6	1445.0	1371.7
26.5°	966.8	995.7	1051.8	1130.1	1232.1	1331.4	1415.9	1465.3	1471.7	1436.1	1362.3
27°	953.5	983.1	1039.2	1117.7	1220.2	1320.8	1406.0	1456.6	1462.8	1427.0	1353.4
27.5°	940.1	970.0	1026.6	1105.4	1208.9	1309.9	1396.4	1447.0	1453.9	1418.6	1344.0
28°	926.8	956.4	1013.7	1093.3	1197.0	1299.0	1386.5	1437.9	1445.0	1410.0	1333.9
28.5°	914.0	943.3	1001.1	1081.2	1185.7	1288.2	1376.4	1428.5	1436.6	1401.6	1322.5
29°	900.6	930.5	988.3	1068.6	1173.8	1277.3	1366.2	1419.3	1428.5	1392.2	1310.2
29.5°	887.3	917.4	975.5	1056.0	1162.2	1266.9	1356.6	1410.4	1419.6	1381.8	1297.3
30°	874.2	904.3	962.6	1043.6	1150.1	1255.6	1347.0	1401.6	1410.2	1370.2	1283.7
30.5°	861.1	891.2	949.5	1030.8	1137.7	1244.2	1336.3	1391.9	1400.1	1357.3	1269.4
31°	847.8	878.1	936.7	1017.2	1124.9	1232.1	1325.7	1381.8	1388.7	1343.8	1253.8
31.5°	834.7	865.3	923.3	1004.4	1111.6	1219.5	1313.9	1369.9	1376.1	1329.4	1238.0
32°	821.3	851.7	910.2	990.8	1098.2	1205.9	1301.0	1357.6	1362.5	1313.9	1222.0
32.5°	808.2	838.6	897.2	977.2	1084.1	1191.6	1287.2	1344.2	1347.5	1297.3	1204.9
33°	795.4	825.5	883.6	963.6	1069.6	1177.0	1273.4	1329.9	1331.2	1279.5	1187.1
33.5°	782.3	812.4	870.5	949.5	1055.2	1162.2	1258.0	1313.9	1313.4	1260.8	1168.9
34°	769.2	799.1	856.9	935.4	1040.2	1146.9	1242.5	1296.8	1294.4	1241.7	1150.6
34.5°	756.1	786.2	843.6	920.9	1025.1	1131.3	1225.9	1278.5	1275.1	1221.7	1130.8
35°	742.8	772.9	830.0	906.5	1009.8	1114.8	1208.4	1259.3	1254.3	1201.2	1111.3
35.5°	730.2	759.8	816.4	892.0	994.2	1098.5	1190.4	1239.5	1233.1	1179.7	1091.3
36°	717.3	746.7	802.8	877.4	978.7	1081.7	1171.8	1219.0	1211.4	1158.0	1070.8
36.5°	704.2	733.6	789.2	862.6	962.9	1064.6	1152.6	1197.5	1188.6	1136.3	1050.1
37°	690.9	720.0	775.4	848.0	947.1	1047.1	1133.1	1175.5	1165.4	1113.5	1028.6
37.5°	678.1	707.0	761.8	833.4	931.0	1029.1	1112.5	1153.3	1142.2	1090.6	1007.1
38°	665.0	693.9	747.7	818.6	914.4	1012.0	1092.0	1131.1	1118.5	1067.1	985.6
38.5°	651.9	680.8	734.4	803.8	898.6	993.0	1071.3	1108.1	1094.8	1044.4	964.1
39°	639.0	667.4	720.8	789.2	882.1	974.7	1050.3	1084.9	1070.3	1020.4	942.4
39.5°	625.9	654.6	707.0	774.1	865.8	955.9	1028.6	1061.2	1046.3	997.2	920.9
40°	612.8	641.5	692.9	759.3	849.2	937.7	1006.8	1037.5	1022.1	973.5	898.4
40.5°	600.0	628.4	679.5	744.5	832.2	917.4	985.3	1013.7	997.9	950.5	876.7
41°	586.9	615.3	665.7	729.7	815.6	898.6	963.6	990.0	973.7	926.3	854.9
41.5°	574.1	602.7	652.1	714.9	798.8	879.4	941.9	965.8	949.3	903.6	833.4
42°	561.0	589.6	638.5	699.8	782.3	860.8	919.4	942.1	925.6	879.6	811.4
42.5°	548.4	577.0	625.2	685.2	765.5	840.6	897.6	918.9	902.1	857.1	790.7
43°	535.5	564.2	611.6	669.9	748.5	821.6	875.9	895.7	878.4	833.9	769.2
43.5°	522.7	551.3	598.3	656.1	731.7	801.8	854.4	872.7	855.2	811.7	748.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	484.9	513.3	558.3	611.9	681.8	744.5	790.2	804.3	787.5	746.0	687.4
45.5°	472.3	500.9	545.2	598.3	665.0	725.2	769.2	783.0	765.5	725.0	667.9
46°	460.2	488.6	532.3	583.9	648.9	706.5	748.7	761.3	744.3	704.0	648.7
46.5°	447.8	476.2	519.2	569.6	632.4	688.2	728.4	740.8	723.0	683.7	629.6
47°	435.5	464.1	506.4	555.0	616.1	669.9	707.7	719.3	702.5	664.0	611.1
47.5°	423.4	451.8	493.8	541.7	600.0	651.4	688.2	699.5	682.5	644.5	593.3
48°	411.3	439.7	481.2	527.9	584.4	633.6	669.2	679.8	663.2	625.7	575.5
48.5°	399.4	427.8	468.6	514.5	568.6	616.3	650.1	661.0	644.5	607.4	558.5
49°	387.8	416.0	456.5	500.4	553.3	599.3	631.9	641.5	625.7	589.9	541.5
49.5°	376.2	404.4	444.1	487.4	538.0	581.7	613.8	623.7	608.1	572.3	525.4
50°	364.6	392.5	431.8	474.0	523.2	565.2	596.0	605.7	590.4	555.5	509.6
50.5°	353.5	380.6	419.9	460.9	507.9	548.9	578.5	588.6	573.3	539.0	494.3
51°	342.4	369.5	408.1	448.1	493.5	532.8	562.2	571.6	556.8	523.2	479.2
51.5°	331.5	358.4	396.2	435.0	479.9	517.2	546.1	555.3	541.2	508.1	464.9
52°	320.9	347.5	384.8	422.4	465.6	501.7	529.8	539.5	525.6	493.5	451.0
52.5°	310.5	336.4	373.2	410.0	451.5	486.4	514.5	524.7	510.8	479.2	437.2
53°	300.4	325.8	362.1	397.7	438.2	472.0	499.5	509.3	496.5	465.1	424.1
53.5°	290.2	315.2	350.5	385.8	424.9	457.7	485.1	495.0	482.2	452.0	411.5
54°	280.9	305.3	339.9	374.0	412.3	443.9	471.1	480.9	468.8	439.2	398.9
54.5°	271.5	295.4	329.5	362.4	399.4	430.3	457.0	467.3	455.7	426.6	387.1
55°	262.3	285.5	318.9	351.0	387.3	417.2	444.1	454.3	443.4	414.7	375.5
55.5°	253.4	276.2	308.5	340.1	375.2	404.6	430.8	441.4	430.8	402.6	364.3
56°	245.3	266.8	298.6	329.0	363.4	392.3	418.2	428.8	418.7	391.8	353.5
56.5°	237.1	257.6	288.5	318.6	352.0	380.2	405.8	416.5	407.1	380.4	342.6
57°	229.5	249.2	278.6	308.3	340.6	368.5	393.7	404.9	396.0	369.8	332.5
57.5°	222.1	240.6	268.8	297.9	330.0	356.9	382.4	393.2	384.8	359.2	322.4
58°	215.6	232.4	259.9	288.3	319.4	346.3	371.0	382.4	374.2	349.3	313.0
58.5°	209.2	224.3	250.7	278.6	309.3	335.7	360.1	371.5	363.9	339.1	303.3
59°	203.5	217.1	241.8	269.5	299.4	325.1	349.5	360.9	353.5	329.3	293.9
59.5°	198.4	210.0	233.2	260.1	289.5	314.7	338.7	350.5	343.6	319.9	285.1
60°	194.4	203.3	225.3	251.2	280.1	304.8	328.5	340.4	334.0	311.0	276.4
60.5°	190.2	196.9	217.1	242.8	271.0	295.2	318.9	330.5	324.6	301.4	267.8
61°	185.8	191.7	209.5	234.4	262.1	285.8	309.3	320.9	314.9	292.5	259.4
61.5°	181.3	186.7	202.3	226.0	253.4	276.7	299.9	311.5	306.0	284.1	251.0
62°	176.6	182.8	195.4	218.4	245.0	268.0	290.5	302.3	297.4	275.7	243.1
62.5°	171.9	178.3	188.5	210.5	236.6	259.1	281.3	293.2	288.5	267.0	234.9
63°	167.2	173.9	182.3	203.0	228.7	250.5	272.5	284.3	279.6	258.6	227.3
63.5°	162.8	169.5	175.9	195.6	220.8	242.6	263.8	275.4	271.2	250.5	219.6
64°	158.1	165.0	169.9	189.0	213.7	234.4	255.4	267.0	263.1	242.8	212.4
64.5°	153.6	160.3	164.3	182.0	206.5	226.8	247.0	258.9	254.7	234.7	205.3
65°	149.2	156.1	159.1	175.4	199.3	218.9	239.1	250.7	246.8	227.3	198.1
65.5°	144.7	151.9	153.9	169.0	192.2	211.7	231.2	242.6	238.6	219.3	190.9
66°	140.3	147.5	148.9	162.8	184.8	204.5	223.3	234.4	230.5	211.9	183.8



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	127.5	134.6	135.6	145.0	165.5	182.8	201.3	211.7	207.0	190.0	163.8
68°	123.5	130.4	131.7	139.8	159.1	176.1	194.2	204.3	199.3	182.5	157.1
68.5°	119.3	126.2	127.7	134.4	152.9	169.5	186.7	196.9	191.7	175.1	150.9
69°	115.4	122.3	124.0	129.2	147.0	162.8	179.8	189.5	183.8	168.0	144.7
69.5°	111.2	118.3	120.3	124.2	141.0	156.6	172.7	181.8	176.4	161.1	138.6
70°	107.2	114.4	116.6	119.6	135.4	150.2	166.0	174.9	169.0	153.9	132.4
70.5°	103.3	110.4	112.9	114.9	129.9	144.3	159.6	167.7	161.8	147.2	126.7
71°	99.5	106.5	109.2	110.4	124.5	138.3	153.1	161.1	154.6	140.8	121.0
71.5°	95.8	102.8	105.7	106.0	119.3	132.6	146.7	153.9	147.5	134.1	115.1
72°	92.1	99.1	102.0	102.0	114.1	127.0	140.6	147.5	140.6	127.7	109.7
72.5°	89.2	95.3	98.6	97.8	109.2	121.3	134.4	140.8	133.9	121.3	104.2
73°	85.5	91.6	95.1	94.1	104.5	116.1	128.4	134.4	127.2	115.1	98.8
73.5°	82.0	89.2	91.6	90.4	99.8	110.7	122.5	128.2	120.3	109.2	93.6
74°	78.3	85.7	89.7	86.9	95.3	105.7	116.8	122.0	114.1	103.3	88.4
74.5°	74.6	82.0	86.0	83.5	90.9	100.5	111.4	115.8	107.7	97.3	83.5
75°	71.1	78.3	82.5	80.3	86.5	95.6	106.0	109.9	101.5	91.6	78.6
75.5°	67.9	74.6	79.0	76.8	82.3	90.9	100.5	104.2	95.3	86.2	73.9
76°	64.5	71.1	75.3	73.6	78.3	86.5	95.1	98.6	89.2	80.8	69.2
76.5°	61.3	67.9	72.1	70.4	74.4	81.8	89.9	92.9	83.5	75.6	64.5
77°	58.0	64.5	68.9	67.4	70.6	77.3	85.0	87.4	77.8	70.4	60.3
77.5°	54.8	61.3	66.0	64.5	66.7	73.1	80.0	82.3	72.1	65.5	55.8
78°	51.6	58.0	62.7	61.8	63.2	68.9	75.3	77.3	66.7	60.5	51.9
78.5°	48.7	54.8	59.8	58.8	59.8	65.0	70.6	72.1	61.3	55.8	47.7
79°	45.5	51.9	56.8	56.1	56.6	61.0	66.2	67.2	56.1	51.4	43.7
79.5°	42.5	48.7	53.8	53.4	53.1	57.3	61.8	62.7	50.9	46.9	40.0
80°	39.5	45.7	50.9	50.6	50.1	53.6	57.6	58.0	45.9	42.5	36.3
80.5°	36.8	42.7	47.9	48.2	47.2	50.1	53.4	53.6	41.3	38.5	32.9
81°	33.8	39.8	45.2	45.5	44.2	46.7	49.4	49.2	36.6	34.6	29.4
81.5°	30.9	36.8	42.2	42.7	41.5	43.2	45.5	44.7	32.1	30.6	26.2
82°	28.2	34.1	39.5	40.3	38.8	40.0	41.5	40.3	27.9	27.2	23.5
82.5°	25.4	31.1	36.8	37.5	36.1	36.8	37.8	36.1	24.5	24.0	20.5
83°	22.7	28.4	34.1	35.1	33.6	34.1	34.3	32.1	21.0	20.7	17.8
83.5°	20.3	25.7	31.4	32.6	31.1	31.1	31.1	28.4	17.5	17.5	15.1
84°	17.5	23.0	28.9	30.1	28.7	28.2	27.7	24.9	14.1	14.3	12.1
84.5°	14.8	20.3	26.4	27.9	26.4	25.7	24.9	21.5	10.6	11.1	10.1
85°	12.4	17.5	24.0	25.4	24.2	23.2	22.2	18.3	8.2	8.6	7.9
85.5°	9.9	15.1	21.5	23.0	22.0	20.7	19.3	14.8	6.4	6.4	6.2
86°	8.4	12.6	19.3	20.7	19.8	18.5	16.5	11.6	4.9	4.7	4.4
86.5°	6.9	10.6	16.8	18.3	17.8	16.1	13.6	9.1	4.0	3.2	3.0
87°	5.4	8.9	14.6	16.1	15.6	13.6	11.4	7.2	3.0	2.0	1.7
87.5°	3.7	7.4	12.4	13.8	13.6	11.6	9.1	5.2	2.2	1.0	0.7
88°	2.7	5.7	10.1	11.6	11.6	9.4	7.2	3.5	1.5	0.5	0.2
88.5°	1.5	4.2	8.4	9.4	9.4	7.7	5.2	2.2	0.7	0.2	0.0



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	2.5	3.5	3.7	2.5	1.0	0.2	0.0	0.0	0.0



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2
0.5°	1552.5	1551.5	1548.3	1546.1	1544.6	1544.8
1°	1553.7	1550.0	1544.3	1540.1	1537.7	1537.9
1.5°	1554.7	1548.3	1540.1	1534.0	1530.5	1530.7
2°	1555.2	1546.1	1535.7	1527.8	1523.1	1523.3
2.5°	1555.7	1543.8	1531.0	1521.1	1515.7	1515.4
3°	1555.7	1541.1	1526.0	1514.4	1507.8	1507.5
3.5°	1555.2	1538.2	1520.9	1507.3	1499.6	1499.6
4°	1554.7	1534.9	1515.2	1500.1	1491.5	1491.2
4.5°	1554.0	1531.5	1509.5	1492.5	1483.1	1482.6
5°	1552.7	1527.8	1503.3	1484.8	1474.2	1473.7
5.5°	1551.2	1523.8	1497.1	1476.6	1465.0	1464.8
6°	1549.5	1519.4	1490.7	1468.5	1456.1	1455.4
6.5°	1547.5	1514.9	1483.8	1459.9	1446.8	1446.0
7°	1545.3	1510.0	1476.9	1451.2	1437.1	1436.4
7.5°	1542.6	1504.8	1469.5	1442.3	1427.2	1426.8
8°	1539.6	1499.4	1461.8	1433.2	1417.4	1416.9
8.5°	1536.4	1493.7	1454.2	1423.8	1407.2	1406.5
9°	1533.2	1487.8	1446.0	1414.4	1397.1	1396.4
9.5°	1529.5	1481.6	1437.9	1404.5	1386.2	1385.7
10°	1525.6	1475.4	1429.5	1394.6	1375.9	1375.1
10.5°	1521.1	1468.5	1420.8	1384.5	1365.0	1364.3
11°	1516.7	1461.6	1411.7	1374.1	1354.1	1353.6
11.5°	1511.7	1454.4	1402.5	1363.8	1343.0	1342.3
12°	1506.5	1447.0	1393.4	1353.1	1331.7	1331.2
12.5°	1501.3	1439.6	1383.8	1342.3	1320.3	1319.8
13°	1495.7	1431.4	1374.1	1331.2	1308.7	1308.4
13.5°	1490.0	1423.3	1364.3	1320.0	1297.3	1296.6
14°	1483.6	1415.1	1354.1	1308.9	1285.5	1285.2
14.5°	1477.1	1406.7	1344.0	1297.6	1273.6	1273.1
15°	1470.5	1397.8	1333.6	1286.0	1261.5	1261.5
15.5°	1463.6	1389.0	1323.0	1274.3	1249.1	1248.9
16°	1456.6	1379.8	1311.9	1262.5	1237.0	1237.0
16.5°	1449.0	1370.4	1301.0	1250.6	1224.9	1224.9
17°	1441.6	1361.0	1289.9	1238.5	1212.3	1212.6
17.5°	1433.7	1351.4	1278.8	1226.4	1200.0	1200.0
18°	1425.5	1341.3	1267.4	1214.3	1187.1	1187.6
18.5°	1417.4	1331.4	1255.8	1201.7	1174.8	1174.8
19°	1409.0	1321.0	1244.5	1189.4	1162.0	1162.4
19.5°	1400.6	1310.9	1232.6	1177.0	1149.1	1149.6
20°	1391.4	1300.3	1221.0	1164.4	1136.3	1136.8
20.5°	1382.5	1289.7	1209.1	1151.8	1123.2	1123.7
21°	1373.1	1278.8	1197.0	1138.7	1110.3	1111.1



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1344.5	1245.4	1160.5	1100.7	1071.1	1071.8
23°	1334.6	1234.3	1148.4	1087.6	1058.0	1058.7
23.5°	1324.5	1223.0	1136.0	1074.8	1044.9	1045.9
24°	1314.4	1211.8	1123.9	1062.2	1031.5	1032.8
24.5°	1304.0	1200.5	1111.8	1049.3	1018.4	1019.4
25°	1293.9	1189.4	1099.7	1035.7	1005.3	1006.1
25.5°	1283.7	1177.8	1086.9	1023.6	992.3	993.0
26°	1273.6	1166.4	1074.8	1010.0	979.2	979.9
26.5°	1263.2	1154.5	1062.4	997.7	965.8	966.8
27°	1252.4	1141.7	1049.6	984.6	952.5	953.5
27.5°	1240.5	1127.9	1036.0	971.8	939.4	940.1
28°	1227.7	1114.5	1022.4	958.2	926.3	926.8
28.5°	1214.3	1100.2	1008.6	945.3	913.2	914.0
29°	1200.7	1086.4	994.7	932.0	899.9	900.6
29.5°	1186.7	1071.8	980.9	918.6	886.8	887.3
30°	1171.6	1057.0	966.6	904.3	873.9	874.2
30.5°	1156.5	1041.9	952.2	891.5	860.8	861.1
31°	1141.0	1026.8	937.4	877.4	847.3	847.8
31.5°	1125.1	1011.3	922.6	863.6	834.2	834.7
32°	1108.6	995.5	907.8	849.2	820.8	821.3
32.5°	1092.0	979.4	893.0	835.9	807.5	808.2
33°	1075.3	963.6	877.9	821.8	794.4	795.4
33.5°	1058.2	947.3	862.6	807.7	781.1	782.3
34°	1040.4	931.2	847.8	793.7	767.7	769.2
34.5°	1022.4	914.0	832.2	779.6	754.1	756.1
35°	1004.6	898.1	817.4	765.5	740.8	742.8
35.5°	986.6	881.1	801.8	751.4	727.7	730.2
36°	968.3	864.5	787.2	737.3	714.4	717.3
36.5°	949.3	847.8	771.9	723.5	701.0	704.2
37°	930.0	831.0	757.1	709.4	687.7	690.9
37.5°	911.0	814.2	741.5	695.8	674.6	678.1
38°	891.7	796.9	727.0	681.5	661.0	665.0
38.5°	872.5	779.8	711.6	667.7	647.9	651.9
39°	852.9	763.0	696.6	654.1	634.6	639.0
39.5°	833.4	746.2	681.3	640.3	621.5	625.9
40°	813.9	728.9	666.2	625.9	608.4	612.8
40.5°	794.4	711.9	650.9	611.9	595.3	600.0
41°	775.1	694.8	635.6	598.0	582.5	586.9
41.5°	755.4	678.1	620.5	584.4	569.4	574.1
42°	736.3	661.3	605.9	571.1	556.5	561.0
42.5°	717.1	644.5	591.1	558.0	543.9	548.4
43°	698.1	627.7	576.5	544.7	531.3	535.5
43.5°	679.0	610.9	562.2	531.6	518.7	522.7

TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	624.5	561.7	520.0	492.8	480.7	484.9
45.5°	606.7	545.9	505.9	480.2	468.1	472.3
46°	589.4	530.6	492.5	467.8	456.0	460.2
46.5°	571.8	515.0	479.0	455.2	443.6	447.8
47°	554.5	500.2	465.6	443.1	431.8	435.5
47.5°	538.2	485.1	452.3	431.0	420.2	423.4
48°	522.2	470.6	438.9	418.7	408.6	411.3
48.5°	506.4	456.5	425.9	406.8	396.7	399.4
49°	491.1	442.4	413.5	395.2	385.6	387.8
49.5°	475.7	429.3	401.2	383.4	374.5	376.2
50°	461.4	415.7	388.8	372.0	363.1	364.6
50.5°	446.8	402.6	376.4	360.6	352.0	353.5
51°	432.8	390.0	364.6	349.3	341.6	342.4
51.5°	419.7	377.9	353.2	338.2	331.0	331.5
52°	406.8	365.8	342.1	327.8	320.6	320.9
52.5°	393.7	354.0	331.0	317.2	310.2	310.5
53°	381.4	342.6	320.1	306.5	300.1	300.4
53.5°	369.3	331.5	309.5	296.2	290.0	290.2
54°	357.7	320.6	299.1	286.0	280.1	280.9
54.5°	346.1	310.2	289.3	276.2	270.5	271.5
55°	335.4	300.1	279.6	266.5	261.3	262.3
55.5°	324.6	290.2	269.7	257.1	252.0	253.4
56°	314.2	280.6	260.6	248.0	243.3	245.3
56.5°	304.1	271.2	251.5	239.1	234.4	237.1
57°	294.4	262.1	242.6	230.5	226.0	229.5
57.5°	284.8	253.2	234.2	222.1	218.1	222.1
58°	275.7	244.5	225.8	214.2	210.5	215.6
58.5°	266.5	236.4	217.9	206.3	203.3	209.2
59°	257.6	228.2	210.0	198.8	196.4	203.5
59.5°	249.2	220.3	202.6	191.7	190.0	198.4
60°	240.8	212.7	195.1	184.5	184.0	194.4
60.5°	232.9	205.0	187.7	177.8	178.3	190.2
61°	225.3	197.9	181.1	171.4	172.9	185.8
61.5°	217.4	190.7	174.1	165.3	168.2	181.3
62°	210.2	184.0	167.7	159.6	164.0	176.6
62.5°	202.8	177.1	161.5	153.9	159.8	171.9
63°	195.6	170.4	155.1	148.2	155.6	167.2
63.5°	188.2	164.0	149.2	143.0	151.4	162.8
64°	181.8	157.8	143.5	138.1	147.2	158.1
64.5°	175.1	151.9	138.1	133.4	143.0	153.6
65°	168.5	146.0	132.6	128.7	139.1	149.2
65.5°	162.0	140.1	127.2	124.2	135.1	144.7
66°	155.9	134.4	122.3	120.0	130.9	140.3



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	137.8	118.3	107.9	108.7	119.3	127.5
68°	131.9	113.4	103.5	105.2	115.4	123.5
68.5°	126.5	108.4	99.3	102.0	111.4	119.3
69°	121.0	103.7	95.1	98.6	107.7	115.4
69.5°	115.6	99.1	91.1	95.3	103.7	111.2
70°	110.4	94.4	87.7	92.1	100.3	107.2
70.5°	105.2	90.2	84.0	88.7	96.6	103.3
71°	100.5	86.2	80.5	85.5	92.9	99.5
71.5°	95.6	82.0	77.1	82.5	89.2	95.8
72°	90.7	78.1	73.4	79.5	85.7	92.1
72.5°	86.2	74.1	70.2	76.6	82.5	89.2
73°	81.8	70.2	66.9	73.6	79.0	85.5
73.5°	77.3	66.2	64.0	70.4	75.8	82.0
74°	72.9	62.7	61.0	67.4	72.4	78.3
74.5°	68.9	59.3	58.3	64.5	69.2	74.6
75°	65.0	56.1	55.6	61.5	66.0	71.1
75.5°	61.0	52.9	52.9	58.8	62.7	67.9
76°	57.3	49.6	50.1	55.8	59.5	64.5
76.5°	53.6	46.7	47.7	52.9	56.6	61.3
77°	50.1	43.7	45.2	50.1	53.4	58.0
77.5°	46.7	41.0	42.7	47.4	50.4	54.8
78°	43.5	38.3	40.3	44.7	47.4	51.6
78.5°	40.0	35.6	37.8	42.0	44.5	48.7
79°	37.1	32.9	35.6	39.3	41.5	45.5
79.5°	34.1	30.4	33.1	36.6	38.5	42.5
80°	31.1	28.2	30.9	34.1	35.8	39.5
80.5°	28.4	25.9	28.7	31.6	32.9	36.8
81°	25.7	23.7	26.4	29.1	30.1	33.8
81.5°	23.2	21.5	24.0	26.7	27.4	30.9
82°	21.0	19.3	22.0	24.2	24.7	28.2
82.5°	18.5	17.3	19.8	21.7	22.0	25.4
83°	16.1	15.3	17.5	19.5	19.3	22.7
83.5°	13.8	13.3	15.6	17.3	16.8	20.3
84°	11.6	11.4	13.3	15.1	14.3	17.5
84.5°	9.6	9.6	11.4	13.1	12.1	14.8
85°	7.9	7.9	9.4	10.9	10.1	12.4
85.5°	5.9	6.2	7.4	8.9	8.6	9.9
86°	4.4	4.2	5.4	7.2	7.2	8.4
86.5°	3.0	2.5	3.7	5.2	5.7	6.9
87°	1.5	1.0	1.7	3.5	4.2	5.4
87.5°	0.5	0.2	0.5	1.5	2.7	3.7
88°	0.0	0.0	0.0	0.2	1.5	2.7
88.5°	0.0	0.0	0.0	0.0	0.5	1.5



TEST NUMBER: P776061

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-HCD62TRLWW-2500lm-3000K

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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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°	1098.0	1124.9	1176.0	1248.2	1340.8	1428.5	1501.6	1544.3	1549.3	1516.9	1451.5
22°	1085.1	1112.3	1163.9	1237.0	1330.7	1419.3	1493.9	1537.4	1542.6	1509.7	1443.5



44°	510.1	538.5	584.7	641.2	715.1	783.0	832.7	849.0	831.9	789.0	727.7
44.5°	497.5	526.1	571.3	626.7	698.6	763.3	810.9	826.5	810.0	767.2	707.7



66.5°	135.9	143.0	144.3	156.6	178.3	197.1	215.9	226.8	222.3	204.8	176.9
67°	131.7	138.8	139.8	150.9	171.7	190.0	208.7	219.3	214.7	197.4	170.4



89°	0.7	2.7	6.4	7.4	7.4	5.9	3.5	1.2	0.2	0.0	0.0
89.5°	0.0	1.5	4.4	5.4	5.7	4.2	2.2	0.5	0.0	0.0	0.0

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21.5°	1364.0	1267.7	1184.4	1126.1	1097.0	1098.0
22°	1354.1	1256.8	1172.8	1113.5	1084.1	1085.1



44°	660.5	594.3	548.1	518.2	505.9	510.1
44.5°	642.5	578.3	534.0	505.6	493.3	497.5

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66.5°	149.7	128.9	117.3	116.1	127.0	135.9
67°	143.5	123.8	112.6	112.4	123.0	131.7

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89°	0.0	0.0	0.0	0.0	0.2	0.7
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)