

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: P776120

Luminaire Tested: HCDJBL51525CSD-HCD6TSQMW-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776120
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-HCD6TSQMW-2500lm-2700K
Description: 6 INCH SQUARE MEDIUM MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

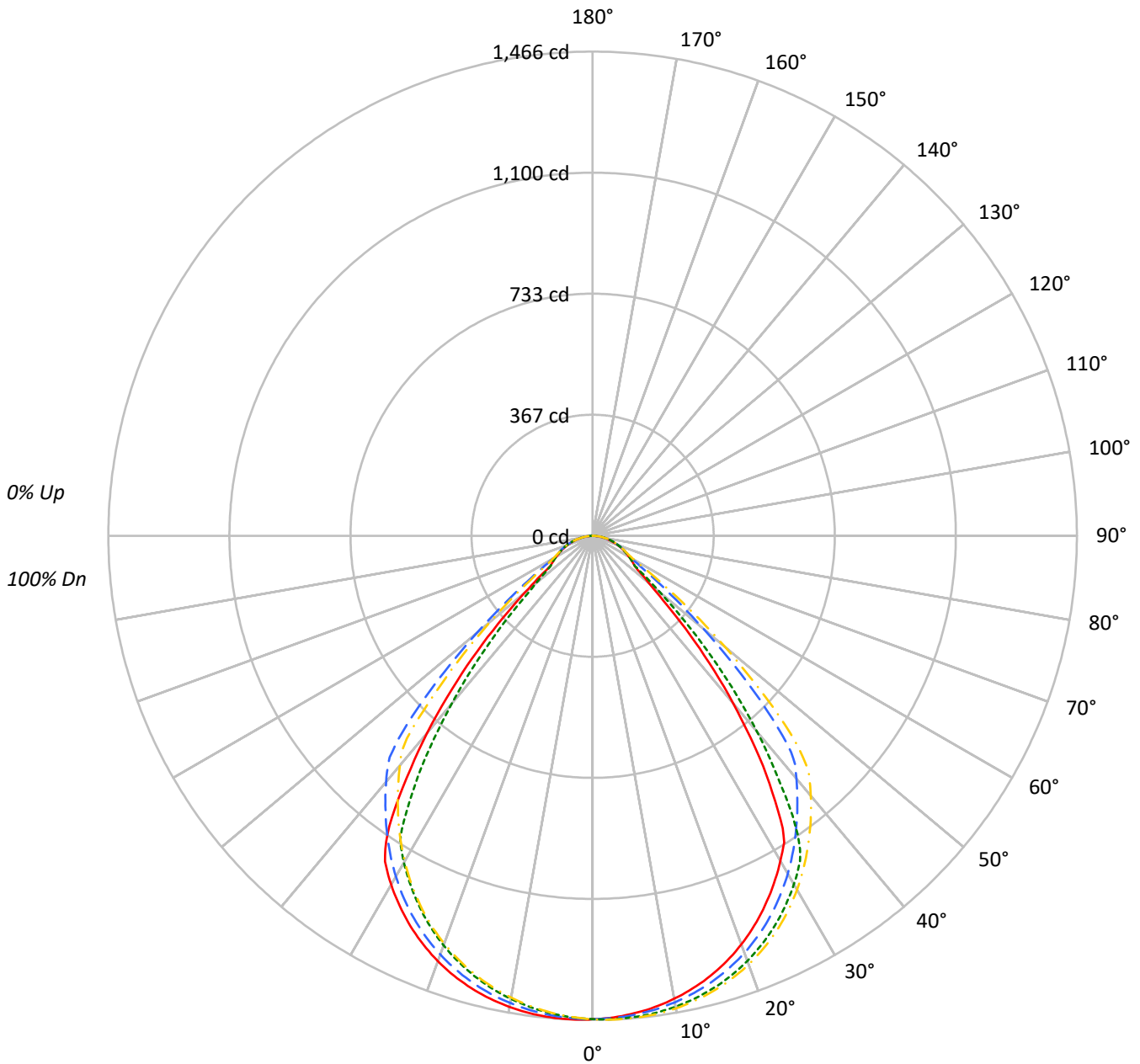
Lumens per Lamp: N/A
Luminaire Lumens: 2568.4 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')

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: P776120
CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P776120

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-2700K

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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79								
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57								
6	78	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42								
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39								
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	63025	63025	63025	63025
5°	62721	63214	63257	62734
10°	62231	63289	63333	62253
15°	61473	63175	63211	61535
20°	60325	62754	62790	60458
25°	58680	61925	61972	58889
30°	56523	60589	60639	56811
35°	49839	56204	56382	50017
40°	37135	43559	43818	37258
45°	24173	29848	30043	24301
50°	14890	17777	17978	14991
55°	11492	11530	11530	11492
60°	11031	10988	10988	11031
65°	10514	10606	10514	10656
70°	9970	10272	10033	10335
75°	9233	9948	9466	9915
80°	7934	9546	8579	9199
85°	4446	8596	6472	7410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 135°
 Vertical Angle: 45°
 Luminance: 51586 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	5.4
10°-20°	394.4	15.4
20°-30°	585.7	22.8
30°-40°	647.6	25.2
40°-50°	438.9	17.1
50°-60°	178.9	7.0
60°-70°	105.6	4.1
70°-80°	62.4	2.4
80°-90°	16.4	0.6
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°	1118.6	43.6
0°-40°	1766.2	68.8
0°-60°	2384.0	92.8
0°-90°	2568.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1464	1464	1464	1464	1464	
5°	1451	1463	1464	1452	1451	138
15°	1379	1417	1418	1380	1379	388
25°	1235	1304	1304	1240	1235	568
35°	948	1069	1073	952	948	580
45°	397	490	493	399	397	314
55°	153	154	154	153	153	144
65°	103	104	103	105	103	102
75°	56	60	57	60	56	59
85°	9	17	13	15	9	13
90°	0	0	0	0	0	



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8
0.5°	1463.8	1463.4	1463.4	1463.8	1464.1	1464.3	1464.8	1465.1	1465.1	1464.1	1463.4
1°	1462.9	1462.9	1462.9	1463.8	1464.6	1464.8	1465.5	1465.5	1465.3	1464.1	1463.4
1.5°	1461.9	1462.1	1462.6	1463.6	1464.8	1465.3	1466.0	1466.0	1465.5	1464.3	1462.9
2°	1460.9	1461.4	1462.1	1463.4	1464.8	1465.3	1466.3	1466.3	1465.8	1464.1	1462.6
2.5°	1459.7	1460.2	1461.4	1463.1	1464.8	1465.5	1466.5	1466.5	1465.8	1463.8	1461.9
3°	1458.3	1459.0	1460.4	1462.6	1464.6	1465.5	1466.5	1466.5	1465.5	1463.6	1461.2
3.5°	1456.8	1457.8	1459.5	1461.9	1464.3	1465.3	1466.5	1466.3	1465.3	1463.1	1460.4
4°	1455.1	1456.3	1458.5	1461.2	1463.8	1465.1	1466.3	1466.0	1464.8	1462.4	1459.5
4.5°	1453.2	1454.9	1457.3	1460.2	1463.4	1464.8	1465.8	1465.8	1464.3	1461.7	1458.5
5°	1451.2	1453.2	1455.8	1459.0	1462.6	1464.3	1465.3	1465.3	1463.6	1460.7	1457.3
5.5°	1449.3	1451.5	1454.4	1458.0	1461.7	1463.6	1464.8	1464.6	1462.9	1459.7	1455.8
6°	1446.9	1449.3	1452.7	1456.6	1460.7	1462.9	1464.1	1463.8	1461.9	1458.5	1454.4
6.5°	1444.7	1447.4	1450.8	1455.1	1459.7	1461.9	1463.1	1462.9	1460.7	1457.1	1452.7
7°	1442.0	1444.9	1448.8	1453.4	1458.5	1460.9	1462.1	1461.7	1459.5	1455.4	1450.8
7.5°	1439.4	1442.8	1446.9	1451.7	1456.8	1459.7	1460.9	1460.4	1458.0	1453.7	1448.8
8°	1436.5	1440.1	1444.7	1449.8	1455.4	1458.3	1459.7	1459.0	1456.3	1452.0	1446.9
8.5°	1433.3	1437.4	1442.3	1447.9	1453.7	1456.6	1458.3	1457.5	1454.6	1450.0	1444.5
9°	1430.2	1434.3	1439.6	1445.4	1451.7	1455.1	1456.6	1455.6	1452.7	1447.9	1442.0
9.5°	1427.0	1431.4	1437.0	1443.3	1449.8	1453.2	1454.9	1453.9	1450.8	1445.7	1439.4
10°	1423.4	1428.2	1434.3	1440.6	1447.6	1451.2	1452.9	1451.7	1448.6	1443.5	1436.7
10.5°	1419.8	1424.8	1431.1	1437.9	1445.4	1449.1	1450.8	1449.8	1446.2	1440.8	1433.8
11°	1415.9	1421.2	1428.2	1435.3	1442.8	1446.9	1448.6	1447.4	1443.7	1437.9	1430.9
11.5°	1411.8	1417.6	1424.8	1432.4	1440.1	1444.2	1446.2	1444.9	1441.1	1435.0	1427.8
12°	1407.6	1413.7	1421.5	1429.2	1437.4	1441.8	1443.7	1442.3	1438.4	1432.1	1424.4
12.5°	1403.3	1409.8	1417.8	1426.1	1434.5	1438.9	1440.8	1439.6	1435.3	1429.0	1421.0
13°	1398.9	1405.7	1413.9	1422.4	1431.4	1436.0	1437.9	1436.5	1432.4	1425.6	1417.3
13.5°	1394.3	1401.4	1410.1	1418.8	1428.0	1433.1	1435.0	1433.3	1429.0	1422.2	1413.5
14°	1389.5	1396.8	1406.2	1415.2	1424.6	1429.7	1431.9	1430.2	1425.6	1418.3	1409.6
14.5°	1384.4	1392.1	1401.8	1411.3	1421.0	1426.3	1428.5	1426.8	1421.9	1414.7	1405.2
15°	1379.1	1387.3	1397.5	1407.2	1417.3	1422.9	1425.1	1423.2	1418.1	1410.6	1401.1
15.5°	1373.7	1382.2	1392.6	1402.8	1413.5	1419.0	1421.5	1419.3	1414.2	1406.4	1396.8
16°	1368.2	1376.9	1388.0	1398.4	1409.3	1414.9	1417.6	1415.4	1409.8	1402.1	1391.9
16.5°	1362.4	1371.6	1383.2	1394.1	1405.0	1411.0	1413.7	1411.5	1405.7	1397.7	1387.3
17°	1356.3	1366.0	1378.3	1389.2	1400.4	1406.7	1409.6	1407.2	1401.1	1392.9	1382.2
17.5°	1350.2	1360.2	1373.0	1384.2	1396.0	1402.3	1405.2	1402.6	1396.5	1388.0	1377.1
18°	1343.7	1354.1	1367.4	1379.1	1390.9	1397.7	1400.9	1398.0	1391.7	1382.9	1371.8
18.5°	1337.4	1348.1	1361.6	1373.7	1386.1	1393.1	1396.0	1393.1	1386.6	1377.9	1366.5
19°	1330.6	1341.8	1356.1	1368.4	1380.8	1388.0	1391.2	1388.0	1381.3	1372.3	1360.4
19.5°	1323.6	1335.2	1350.0	1362.6	1375.2	1382.9	1386.3	1382.9	1375.9	1367.0	1354.9
20°	1316.6	1328.7	1344.0	1356.8	1369.6	1377.4	1381.0	1377.6	1370.4	1361.1	1349.0
20.5°	1309.3	1321.4	1337.7	1350.5	1364.1	1371.8	1375.7	1372.0	1364.5	1355.3	1342.7
21°	1301.8	1314.4	1331.1	1344.2	1357.8	1366.0	1370.1	1366.2	1358.7	1349.0	1336.4



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1278.1	1291.9	1310.3	1324.6	1338.9	1347.8	1352.2	1348.1	1339.8	1330.1	1316.3
23°	1269.8	1284.1	1303.0	1317.6	1332.1	1341.3	1345.9	1341.8	1333.1	1322.9	1309.1
23.5°	1261.6	1276.1	1295.5	1310.3	1325.3	1334.7	1339.6	1335.2	1326.3	1315.9	1301.8
24°	1253.1	1268.1	1288.0	1303.0	1318.0	1328.0	1332.8	1328.5	1319.0	1308.8	1294.3
24.5°	1244.2	1259.7	1280.0	1295.5	1310.8	1320.9	1325.8	1321.4	1311.7	1301.6	1286.8
25°	1235.2	1251.2	1272.0	1287.8	1303.5	1313.7	1318.8	1314.2	1304.5	1294.1	1278.8
25.5°	1226.0	1242.2	1263.8	1279.8	1295.8	1306.4	1311.7	1306.9	1296.7	1286.3	1271.1
26°	1216.8	1233.5	1255.3	1271.8	1287.8	1298.7	1304.2	1299.1	1289.0	1278.3	1263.1
26.5°	1207.4	1224.5	1246.6	1263.5	1279.8	1290.9	1296.5	1291.4	1280.7	1270.3	1254.6
27°	1197.7	1215.3	1237.9	1255.3	1271.5	1282.9	1288.5	1283.4	1272.7	1262.1	1245.9
27.5°	1187.7	1205.4	1228.9	1246.8	1263.3	1274.9	1280.7	1275.4	1264.5	1253.9	1237.6
28°	1177.8	1196.0	1219.7	1238.1	1254.3	1266.4	1272.3	1266.9	1255.8	1244.9	1228.4
28.5°	1167.9	1186.3	1210.3	1228.9	1245.9	1258.0	1263.8	1258.7	1246.8	1236.4	1219.5
29°	1157.7	1176.6	1201.3	1219.9	1236.9	1249.3	1255.1	1249.7	1238.1	1227.2	1210.0
29.5°	1147.3	1166.4	1191.4	1210.7	1227.9	1240.5	1246.6	1241.0	1229.2	1218.7	1200.6
30°	1136.9	1156.7	1181.4	1201.3	1218.7	1231.3	1237.4	1232.1	1219.7	1208.8	1191.1
30.5°	1126.2	1146.3	1171.5	1191.9	1209.0	1222.4	1228.2	1223.1	1210.0	1199.6	1181.4
31°	1115.6	1135.9	1161.3	1182.2	1199.1	1213.2	1219.0	1213.4	1200.3	1189.7	1171.5
31.5°	1104.9	1125.2	1150.9	1172.2	1189.4	1203.7	1209.5	1204.0	1190.6	1180.0	1161.3
32°	1094.5	1114.6	1140.5	1162.3	1178.8	1193.8	1199.6	1194.5	1180.2	1170.3	1151.2
32.5°	1075.8	1103.7	1129.8	1152.1	1168.6	1184.1	1190.2	1184.6	1169.8	1160.1	1141.0
33°	1056.5	1092.8	1119.4	1141.7	1153.8	1173.9	1180.0	1174.4	1153.8	1149.7	1130.3
33.5°	1030.8	1082.1	1108.3	1131.1	1136.6	1163.8	1169.8	1164.2	1137.4	1139.8	1119.7
34°	1003.2	1071.7	1097.4	1119.9	1117.0	1152.9	1159.2	1153.8	1118.2	1128.6	1108.8
34.5°	975.1	1053.8	1086.3	1109.3	1094.7	1142.2	1149.0	1142.2	1096.4	1117.0	1098.1
35°	948.2	1034.4	1075.1	1093.5	1069.3	1130.1	1138.6	1129.6	1072.7	1102.2	1087.0
35.5°	921.6	1010.4	1063.7	1076.6	1042.4	1111.7	1127.9	1111.7	1045.8	1085.5	1075.8
36°	894.7	983.6	1052.6	1057.9	1012.4	1095.2	1117.0	1095.7	1016.3	1067.8	1064.7
36.5°	866.8	957.2	1041.0	1036.1	982.4	1073.9	1106.4	1075.4	986.7	1046.8	1053.6
37°	837.0	930.8	1029.6	1012.4	950.1	1050.2	1095.5	1052.8	956.0	1023.5	1041.7
37.5°	807.0	904.4	1018.0	986.7	919.9	1024.5	1084.1	1028.6	925.0	999.1	1030.3
38°	776.7	877.7	1006.3	958.6	889.8	997.1	1072.9	1002.0	895.4	971.7	1018.9
38.5°	746.9	851.1	994.9	929.6	861.5	968.3	1061.6	973.9	866.3	943.4	1007.5
39°	717.6	823.5	983.1	901.0	832.7	938.5	1050.7	944.6	837.5	914.3	995.7
39.5°	689.1	794.9	971.7	872.2	804.3	907.8	1039.0	915.3	808.9	885.2	984.0
40°	660.7	764.9	959.6	843.1	775.0	878.4	1027.9	886.0	779.6	856.4	972.4
40.5°	633.6	735.6	947.7	815.7	745.5	850.1	1016.0	857.6	750.1	828.3	960.8
41°	605.7	707.2	935.8	788.6	715.0	822.5	1004.4	829.3	719.3	800.9	948.7
41.5°	578.4	678.9	924.7	761.5	684.9	794.6	992.0	801.7	689.3	774.1	936.3
42°	550.5	651.3	907.3	734.8	655.4	766.8	979.7	774.1	659.5	746.9	923.7
42.5°	523.4	625.4	888.9	707.5	626.8	738.7	967.8	746.2	630.4	719.1	909.2
43°	496.0	598.2	863.7	678.9	599.0	709.9	946.3	717.4	602.3	691.0	884.3
43.5°	470.6	571.6	836.1	651.5	571.1	681.1	925.0	688.1	574.7	662.4	862.7



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	397.0	491.7	744.0	569.9	490.2	596.3	847.2	603.1	493.4	580.1	770.4
45.5°	373.7	466.0	713.0	544.5	463.1	569.4	816.4	575.2	467.2	553.7	738.0
46°	351.4	440.8	680.3	519.0	437.2	542.8	783.3	548.6	441.0	528.0	705.0
46.5°	330.4	417.1	647.6	493.6	412.2	515.9	749.4	522.2	415.9	502.8	672.1
47°	309.8	392.8	614.9	468.7	388.0	489.7	714.7	495.8	391.9	477.6	639.4
47.5°	290.9	370.3	582.2	443.9	364.7	464.0	679.6	469.9	368.6	452.9	607.2
48°	273.7	348.3	550.5	419.7	343.0	438.9	646.2	444.9	346.6	429.2	575.2
48.5°	258.7	327.0	520.7	396.5	321.9	414.2	613.0	419.5	325.3	405.2	544.2
49°	245.3	306.4	492.1	374.0	302.0	389.5	582.0	395.3	305.2	382.7	514.2
49.5°	233.5	287.7	464.0	352.4	283.1	366.4	551.7	372.0	286.3	360.1	485.1
50°	222.3	269.8	436.7	330.6	265.4	343.9	522.2	349.5	268.4	338.8	457.3
50.5°	213.1	253.8	411.3	310.3	249.0	322.6	493.4	327.5	251.4	318.0	430.6
51°	204.2	239.3	386.5	291.1	233.7	302.5	465.3	307.1	236.1	298.9	404.2
51.5°	195.7	227.2	362.8	273.2	221.9	283.1	437.4	287.7	223.8	280.2	380.0
52°	187.0	216.0	339.8	256.0	209.7	265.2	411.3	269.1	211.2	263.0	356.5
52.5°	178.7	206.4	318.5	239.8	197.9	248.0	384.6	251.6	198.8	246.1	334.0
53°	170.5	197.1	298.1	224.8	185.8	232.8	359.4	235.2	186.2	230.3	312.9
53.5°	164.0	188.7	279.0	210.7	173.9	220.4	335.4	222.3	173.9	217.5	292.6
54°	158.9	180.4	261.3	198.1	164.5	207.8	314.1	209.5	164.5	204.7	273.9
54.5°	155.7	172.4	244.6	186.5	157.4	195.2	292.3	196.7	157.2	191.8	256.5
55°	153.1	164.0	229.4	175.6	153.6	182.6	272.7	183.8	153.6	179.0	240.5
55.5°	150.4	157.2	215.1	165.4	150.6	170.3	253.8	171.0	150.4	168.3	225.5
56°	147.7	151.6	202.5	156.2	148.0	160.3	236.9	160.8	147.7	158.9	213.6
56.5°	145.3	148.5	190.6	149.4	145.3	152.1	223.3	152.3	145.1	151.6	201.8
57°	142.9	145.8	180.0	145.8	142.7	147.0	209.5	146.8	142.7	147.5	189.9
57.5°	140.2	143.1	170.3	143.1	140.2	143.9	195.9	143.6	140.0	144.6	178.0
58°	137.8	140.7	162.3	140.5	137.6	141.2	182.1	141.0	137.6	141.9	168.6
58.5°	135.4	138.1	155.0	137.8	135.1	138.8	168.6	138.5	134.9	139.5	160.6
59°	133.0	135.6	148.5	135.4	132.7	136.1	159.1	136.1	132.5	136.8	153.6
59.5°	130.5	133.2	142.9	132.7	130.3	133.7	151.1	133.5	130.1	134.4	147.3
60°	128.1	130.8	138.1	130.3	127.6	131.3	144.3	131.0	127.6	132.0	141.7
60.5°	125.5	128.4	133.5	127.9	125.2	128.6	138.8	128.6	125.2	129.3	136.8
61°	123.0	125.9	129.3	125.2	123.0	126.2	133.5	126.2	122.6	126.9	132.5
61.5°	120.6	123.5	125.7	123.0	120.6	123.8	129.1	123.8	120.1	124.5	128.4
62°	118.2	121.1	122.3	120.6	118.2	121.6	125.0	121.3	117.7	122.1	124.7
62.5°	115.5	118.7	119.2	118.0	115.8	119.2	121.3	118.9	115.3	119.6	121.6
63°	113.1	116.3	116.5	115.5	113.3	116.7	118.2	116.3	112.6	117.0	118.4
63.5°	110.7	113.6	113.8	113.1	111.2	114.3	115.0	113.8	110.4	114.6	115.8
64°	108.3	111.2	111.2	110.7	108.7	111.9	112.6	111.4	108.0	112.1	113.3
64.5°	105.6	108.7	108.7	108.3	106.6	109.5	110.0	109.0	105.6	109.7	110.7
65°	103.2	106.3	106.3	106.1	104.1	107.3	107.5	106.6	103.2	107.3	108.3
65.5°	100.8	103.7	103.7	103.7	102.0	104.9	105.1	104.1	100.8	104.9	105.8
66°	98.3	101.2	101.2	101.2	99.5	102.4	102.4	101.7	98.3	102.4	103.2



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	91.1	94.0	94.0	94.2	92.8	95.4	95.2	94.5	91.3	95.2	95.9
68°	88.6	91.6	91.6	91.8	90.6	93.2	92.8	92.0	88.9	92.5	93.5
68.5°	86.2	89.1	89.1	89.4	88.4	90.8	90.6	89.9	86.5	90.3	91.1
69°	83.8	86.7	86.7	88.2	86.2	88.6	88.2	87.4	84.3	87.9	88.6
69.5°	81.6	84.3	84.3	85.7	84.0	86.2	85.5	85.0	81.9	85.5	86.2
70°	79.2	81.9	81.9	83.3	81.6	84.0	83.3	82.6	79.7	83.1	83.8
70.5°	76.8	79.4	79.4	80.7	79.4	81.9	80.9	80.4	77.3	80.7	81.4
71°	74.6	77.3	77.0	78.2	77.3	79.4	78.5	78.0	75.1	78.2	79.0
71.5°	72.2	74.6	74.8	76.0	75.1	77.3	76.0	75.6	72.7	75.8	76.5
72°	69.8	72.4	72.4	73.6	72.9	74.8	73.6	73.4	70.5	73.6	74.1
72.5°	67.3	69.8	70.0	71.4	70.7	72.7	71.4	71.0	68.1	71.2	71.7
73°	64.9	67.6	67.6	69.0	68.5	70.5	69.0	68.5	65.9	68.8	69.3
73.5°	62.5	65.2	65.2	66.8	66.4	68.3	66.6	66.4	63.7	66.4	66.8
74°	60.1	62.7	62.7	64.4	64.2	65.9	64.4	63.9	61.3	64.2	64.4
74.5°	57.9	60.3	60.3	62.2	62.0	63.7	62.0	61.8	59.1	61.8	62.2
75°	55.5	57.9	58.1	60.1	59.8	61.5	59.8	59.3	56.9	59.3	59.8
75.5°	53.0	55.5	55.7	57.9	57.6	59.3	57.4	57.2	54.5	57.2	57.4
76°	50.9	53.0	53.3	55.5	55.5	57.2	55.0	54.7	52.3	54.7	55.0
76.5°	48.4	50.6	50.9	53.3	53.3	55.0	52.8	52.3	50.1	52.3	52.8
77°	46.0	48.2	48.4	51.1	51.3	52.8	50.6	50.1	48.0	50.1	50.4
77.5°	43.6	45.8	46.3	48.7	49.2	50.6	48.2	47.7	45.8	47.7	48.0
78°	41.4	43.4	43.8	46.5	47.0	48.2	46.0	45.5	43.6	45.3	45.8
78.5°	39.0	41.2	41.4	44.3	44.8	46.0	43.6	43.1	41.2	43.1	43.4
79°	36.6	38.8	39.2	41.9	42.6	43.8	41.4	40.9	39.0	40.7	40.9
79.5°	34.1	36.3	36.8	39.7	40.4	41.7	39.2	38.5	37.1	38.3	38.8
80°	32.0	33.9	34.4	37.3	38.5	39.5	36.8	36.3	34.6	36.1	36.3
80.5°	29.5	31.5	32.2	35.1	36.3	37.3	34.6	33.9	32.5	33.7	34.1
81°	27.4	29.1	29.8	32.9	34.1	34.9	32.5	31.7	30.3	31.5	31.7
81.5°	24.9	26.6	27.6	30.8	32.0	32.7	30.3	29.3	28.1	29.1	29.5
82°	22.8	24.5	25.2	28.6	30.0	30.5	28.1	27.1	25.9	26.6	27.1
82.5°	20.3	22.0	23.0	26.4	27.9	28.6	25.9	24.7	23.7	24.5	24.9
83°	18.2	19.6	20.8	24.2	25.9	26.4	24.0	22.5	21.6	22.0	22.8
83.5°	15.7	17.2	18.9	22.0	23.7	24.2	22.0	20.3	19.4	19.9	20.8
84°	13.6	14.8	16.7	19.9	21.6	22.0	20.1	17.9	17.2	17.4	18.9
84.5°	11.1	12.6	14.8	17.9	19.6	20.1	17.9	15.7	15.0	15.3	17.0
85°	9.0	10.2	13.1	15.7	17.4	17.9	16.0	13.6	13.1	12.8	15.0
85.5°	7.5	8.7	11.1	13.6	15.5	16.0	14.0	11.6	10.9	10.9	13.1
86°	6.1	7.3	9.4	11.6	13.3	13.8	12.4	9.9	8.7	9.0	11.1
86.5°	4.8	5.6	7.8	9.4	11.4	11.6	10.4	8.2	7.0	7.5	9.4
87°	3.4	4.1	5.8	7.5	9.2	9.7	8.7	6.8	5.8	6.1	7.5
87.5°	2.2	2.7	4.1	5.6	7.3	7.8	7.0	5.3	4.6	4.8	5.8
88°	1.0	1.5	2.4	3.6	5.3	5.8	5.3	4.1	3.6	3.6	4.1
88.5°	0.2	0.5	1.0	1.7	3.4	3.6	3.6	2.9	2.4	2.2	2.2



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-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	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8
0.5°	1463.4	1462.9	1462.9	1463.4	1463.4	1463.8
1°	1462.9	1462.1	1461.9	1462.4	1462.4	1462.9
1.5°	1462.1	1461.2	1460.7	1460.9	1461.4	1461.9
2°	1461.4	1460.0	1459.5	1459.7	1460.2	1460.9
2.5°	1460.7	1459.0	1458.3	1458.3	1458.8	1459.7
3°	1459.7	1457.8	1456.6	1456.6	1457.3	1458.3
3.5°	1458.5	1456.6	1455.1	1455.1	1455.6	1456.8
4°	1457.3	1454.9	1453.4	1453.2	1453.7	1455.1
4.5°	1455.8	1453.2	1451.5	1451.2	1451.7	1453.2
5°	1454.4	1451.5	1449.3	1449.1	1449.8	1451.2
5.5°	1452.7	1449.3	1447.4	1446.6	1447.6	1449.3
6°	1451.0	1446.9	1445.2	1444.5	1445.2	1446.9
6.5°	1449.1	1444.7	1442.5	1442.0	1442.5	1444.7
7°	1446.9	1442.3	1439.9	1439.1	1439.9	1442.0
7.5°	1444.5	1439.6	1437.2	1436.2	1437.2	1439.4
8°	1442.0	1436.7	1434.3	1433.3	1434.0	1436.5
8.5°	1439.6	1433.8	1431.1	1430.2	1431.1	1433.3
9°	1436.7	1430.7	1427.8	1426.8	1427.8	1430.2
9.5°	1433.8	1427.3	1424.4	1423.4	1424.1	1427.0
10°	1430.9	1423.9	1420.7	1419.8	1420.7	1423.4
10.5°	1427.5	1420.2	1417.3	1416.1	1417.1	1419.8
11°	1424.1	1416.6	1413.2	1412.3	1413.0	1415.9
11.5°	1420.7	1412.7	1409.1	1408.1	1409.1	1411.8
12°	1417.1	1408.6	1405.2	1403.8	1404.7	1407.6
12.5°	1413.2	1404.5	1400.9	1399.4	1400.4	1403.3
13°	1409.1	1399.9	1396.3	1394.8	1395.5	1398.9
13.5°	1405.0	1395.3	1391.7	1390.2	1390.9	1394.3
14°	1400.9	1390.5	1386.8	1385.4	1386.1	1389.5
14.5°	1396.3	1385.6	1381.7	1380.5	1381.0	1384.4
15°	1391.4	1380.5	1376.6	1375.2	1375.7	1379.1
15.5°	1386.6	1375.2	1371.3	1369.9	1370.4	1373.7
16°	1381.5	1369.6	1365.7	1364.3	1364.5	1368.2
16.5°	1376.2	1364.1	1359.9	1358.7	1358.7	1362.4
17°	1370.8	1358.2	1354.1	1352.7	1352.9	1356.3
17.5°	1365.3	1352.4	1348.1	1346.6	1346.9	1350.2
18°	1359.7	1346.1	1341.8	1340.3	1340.3	1343.7
18.5°	1353.6	1339.8	1335.5	1333.8	1333.8	1337.4
19°	1347.6	1333.1	1328.7	1327.2	1327.0	1330.6
19.5°	1341.3	1326.3	1321.9	1320.5	1320.2	1323.6
20°	1334.7	1319.5	1314.9	1313.9	1313.2	1316.6
20.5°	1328.2	1312.2	1307.6	1306.7	1305.9	1309.3
21°	1321.2	1305.2	1300.4	1299.4	1298.4	1301.8

TEST NUMBER: P776120

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1299.6	1282.2	1277.3	1276.4	1274.9	1278.1
23°	1292.1	1274.0	1269.4	1268.4	1266.7	1269.8
23.5°	1284.4	1265.7	1260.9	1260.2	1258.5	1261.6
24°	1276.4	1257.2	1252.6	1251.7	1249.7	1253.1
24.5°	1268.4	1248.5	1244.2	1243.0	1241.0	1244.2
25°	1260.2	1239.6	1235.7	1234.5	1232.3	1235.2
25.5°	1251.7	1230.6	1226.2	1225.5	1223.3	1226.0
26°	1243.0	1221.6	1217.5	1216.6	1214.1	1216.8
26.5°	1234.2	1212.4	1208.3	1207.4	1204.7	1207.4
27°	1225.0	1203.0	1198.9	1198.1	1195.2	1197.7
27.5°	1215.8	1193.1	1189.4	1188.5	1185.6	1187.7
28°	1206.6	1183.4	1179.5	1178.5	1175.9	1177.8
28.5°	1197.4	1173.2	1169.6	1168.6	1165.7	1167.9
29°	1187.5	1163.3	1159.6	1158.7	1155.8	1157.7
29.5°	1177.8	1153.1	1149.5	1148.5	1145.6	1147.3
30°	1167.6	1142.7	1139.3	1138.1	1135.2	1136.9
30.5°	1157.5	1131.8	1128.6	1127.4	1124.8	1126.2
31°	1147.0	1120.9	1118.2	1116.8	1114.1	1115.6
31.5°	1137.1	1109.5	1107.1	1105.9	1103.2	1104.9
32°	1126.5	1098.8	1096.2	1095.0	1092.6	1094.5
32.5°	1115.8	1080.7	1085.3	1083.8	1081.7	1075.8
33°	1104.9	1061.3	1074.1	1072.9	1070.5	1056.5
33.5°	1093.8	1034.7	1062.0	1061.6	1059.1	1030.8
34°	1082.1	1007.1	1051.4	1050.2	1048.7	1003.2
34.5°	1071.2	979.2	1031.5	1038.5	1036.1	975.1
35°	1054.0	951.6	1012.6	1026.9	1014.8	948.2
35.5°	1034.9	924.7	985.5	1015.3	994.9	921.6
36°	1010.2	897.8	960.8	1003.7	969.5	894.7
36.5°	982.8	869.7	933.9	992.0	942.6	866.8
37°	956.9	840.4	908.0	979.9	916.5	837.0
37.5°	929.8	810.4	881.6	968.1	891.3	807.0
38°	903.2	779.1	855.9	956.2	865.9	776.7
38.5°	876.8	748.9	829.5	944.3	839.7	746.9
39°	850.8	719.6	802.2	932.5	813.8	717.6
39.5°	822.0	690.7	773.3	920.3	786.2	689.1
40°	793.2	662.9	745.0	908.2	758.1	660.7
40.5°	763.4	635.8	716.7	896.1	729.7	633.6
41°	735.1	608.2	688.1	884.3	701.4	605.7
41.5°	705.5	580.1	660.2	871.4	674.3	578.4
42°	677.4	552.2	635.0	852.8	647.9	550.5
42.5°	650.3	525.3	609.4	832.7	622.4	523.4
43°	624.4	498.0	583.0	803.1	596.3	496.0
43.5°	596.8	472.5	557.5	774.1	570.4	470.6



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	518.1	399.1	479.6	676.2	492.9	397.0
45.5°	490.9	375.4	455.8	645.9	468.7	373.7
46°	465.5	353.1	431.4	616.6	444.4	351.4
46.5°	440.6	331.6	408.3	588.1	420.7	330.4
47°	416.6	311.2	385.1	559.5	397.7	309.8
47.5°	393.1	292.3	363.3	530.9	375.6	290.9
48°	370.3	274.9	341.5	502.6	353.4	273.7
48.5°	348.3	259.6	320.9	475.9	332.5	258.7
49°	327.0	246.1	301.8	450.0	312.7	245.3
49.5°	306.9	234.2	283.9	425.1	294.0	233.5
50°	287.5	223.8	266.4	400.6	275.6	222.3
50.5°	269.6	213.9	251.6	378.6	259.6	213.1
51°	253.6	204.9	237.8	357.2	245.1	204.2
51.5°	239.5	196.4	226.0	336.7	232.3	195.7
52°	227.2	188.2	215.3	317.3	220.6	187.0
52.5°	216.3	179.7	205.9	298.6	210.5	178.7
53°	207.3	171.5	197.1	280.9	201.0	170.5
53.5°	198.4	164.5	188.4	264.5	192.3	164.0
54°	189.4	159.1	180.2	248.7	183.8	158.9
54.5°	180.7	155.7	172.0	234.2	175.8	155.7
55°	172.4	153.1	164.0	220.9	167.6	153.1
55.5°	164.0	150.4	157.4	208.3	160.1	150.4
56°	156.9	148.0	152.3	196.9	154.0	147.7
56.5°	151.4	145.3	149.4	186.7	150.4	145.3
57°	148.0	142.9	146.8	177.0	147.5	142.9
57.5°	145.3	140.2	144.1	168.3	144.8	140.2
58°	142.9	137.8	141.7	160.6	142.4	137.8
58.5°	140.2	135.4	139.0	153.6	139.7	135.4
59°	137.8	133.0	136.6	147.7	137.3	133.0
59.5°	135.4	130.5	134.2	142.4	134.9	130.5
60°	133.0	128.1	131.8	137.6	132.2	128.1
60.5°	130.5	125.7	129.3	133.5	129.8	125.5
61°	128.1	123.3	126.9	129.6	127.4	123.0
61.5°	125.7	121.1	124.5	125.9	125.0	120.6
62°	123.3	118.7	122.1	122.8	122.3	118.2
62.5°	120.9	116.3	119.6	119.9	119.9	115.5
63°	118.4	114.1	117.2	117.5	117.5	113.1
63.5°	116.0	111.7	114.8	114.8	114.8	110.7
64°	113.6	109.2	112.4	112.4	112.4	108.3
64.5°	111.2	107.1	110.0	109.7	109.7	105.6
65°	109.0	104.6	107.5	107.3	107.3	103.2
65.5°	106.6	102.4	105.1	104.6	104.6	100.8
66°	104.1	100.0	102.7	102.2	102.2	98.3



TEST NUMBER: P776120

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	97.1	93.2	95.7	94.9	94.7	91.1
68°	94.7	90.8	93.2	92.5	92.0	88.6
68.5°	92.3	88.6	90.8	89.9	89.6	86.2
69°	89.9	86.5	88.6	86.9	88.4	83.8
69.5°	87.7	84.3	86.2	84.8	85.7	81.6
70°	85.3	82.1	84.0	82.3	83.1	79.2
70.5°	82.8	79.7	81.6	80.2	80.2	76.8
71°	80.7	77.5	79.2	78.0	77.5	74.6
71.5°	78.2	75.3	77.0	75.3	75.1	72.2
72°	76.0	73.1	74.6	72.9	72.7	69.8
72.5°	73.6	70.7	72.4	70.5	70.2	67.3
73°	71.2	68.5	70.0	68.1	67.6	64.9
73.5°	69.0	66.1	67.6	65.6	65.2	62.5
74°	66.6	63.9	65.2	63.2	62.7	60.1
74.5°	64.4	61.8	63.0	60.8	60.3	57.9
75°	62.0	59.6	60.5	58.4	57.9	55.5
75.5°	59.8	57.2	58.1	55.9	55.5	53.0
76°	57.4	55.0	55.9	53.5	52.8	50.9
76.5°	55.2	52.8	53.5	51.1	50.4	48.4
77°	52.8	50.6	51.3	48.7	48.0	46.0
77.5°	50.6	48.2	48.9	46.3	45.5	43.6
78°	48.2	46.0	46.5	43.8	43.1	41.4
78.5°	46.0	43.8	44.3	41.4	40.7	39.0
79°	43.6	41.4	41.9	39.0	38.3	36.6
79.5°	41.2	39.2	39.5	36.6	35.8	34.1
80°	39.0	37.1	37.1	34.4	33.2	32.0
80.5°	36.6	34.9	34.9	32.0	30.8	29.5
81°	34.4	32.7	32.5	29.8	28.3	27.4
81.5°	32.0	30.5	30.3	27.4	25.9	24.9
82°	29.8	28.1	27.9	25.2	23.5	22.8
82.5°	27.6	25.9	25.7	23.0	21.1	20.3
83°	25.4	23.7	23.5	20.8	18.6	18.2
83.5°	23.3	21.6	21.1	18.6	16.2	15.7
84°	20.8	19.4	18.9	16.7	14.0	13.6
84.5°	18.6	17.2	16.7	14.5	12.1	11.1
85°	16.5	15.0	14.5	12.6	10.2	9.0
85.5°	14.3	12.8	12.1	10.7	8.5	7.5
86°	12.1	10.7	9.9	8.7	7.0	6.1
86.5°	9.9	8.5	8.0	6.8	5.6	4.8
87°	8.0	6.5	6.1	4.8	3.9	3.4
87.5°	5.8	4.6	4.1	3.1	2.4	2.2
88°	3.9	2.4	2.2	1.2	1.0	1.0
88.5°	1.7	0.5	0.2	0.2	0.2	0.2



TEST NUMBER: P776120
CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.2	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°	1293.8	1307.1	1324.3	1337.9	1351.5	1360.2	1364.1	1360.2	1352.4	1342.7	1329.9
22°	1286.1	1299.6	1317.3	1331.4	1345.2	1354.1	1358.2	1354.4	1346.1	1336.4	1323.1



44°	444.9	544.2	806.3	623.7	543.5	651.8	902.7	659.0	547.1	634.3	833.2
44.5°	420.7	518.1	776.0	596.8	516.6	623.7	875.5	630.7	520.2	606.9	802.2



66.5°	95.9	98.8	98.8	98.8	97.4	100.0	100.0	99.3	95.9	100.0	100.8
67°	93.5	96.4	96.4	96.6	95.2	97.8	97.6	96.9	93.5	97.6	98.3



89°	0.0	0.2	0.2	0.5	1.5	1.9	1.9	1.5	1.2	1.0	0.7
89.5°	0.0	0.0	0.2	0.2	0.2	0.5	0.7	0.5	0.2	0.2	0.2

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21.5°	1314.2	1297.7	1292.8	1291.9	1290.7	1293.8
22°	1307.1	1289.9	1285.1	1284.4	1283.2	1286.1



44°	570.1	446.6	531.1	739.2	544.5	444.9
44.5°	543.7	422.9	505.5	707.9	518.8	420.7

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66.5°	101.7	97.8	100.3	99.8	99.5	95.9
67°	99.3	95.4	98.1	97.4	97.1	93.5

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89°	0.5	0.0	0.2	0.2	0.2	0.0
89.5°	0.0	0.0	0.0	0.2	0.2	0.0

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Scaled Data Report



(END OF REPORT)