

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: P775946

Luminaire Tested: HCDJBS1525CSD-HCD41TRMW-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B030)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD41TRMW-2500lm-3000K
Description: 4 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2915.2 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.28
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

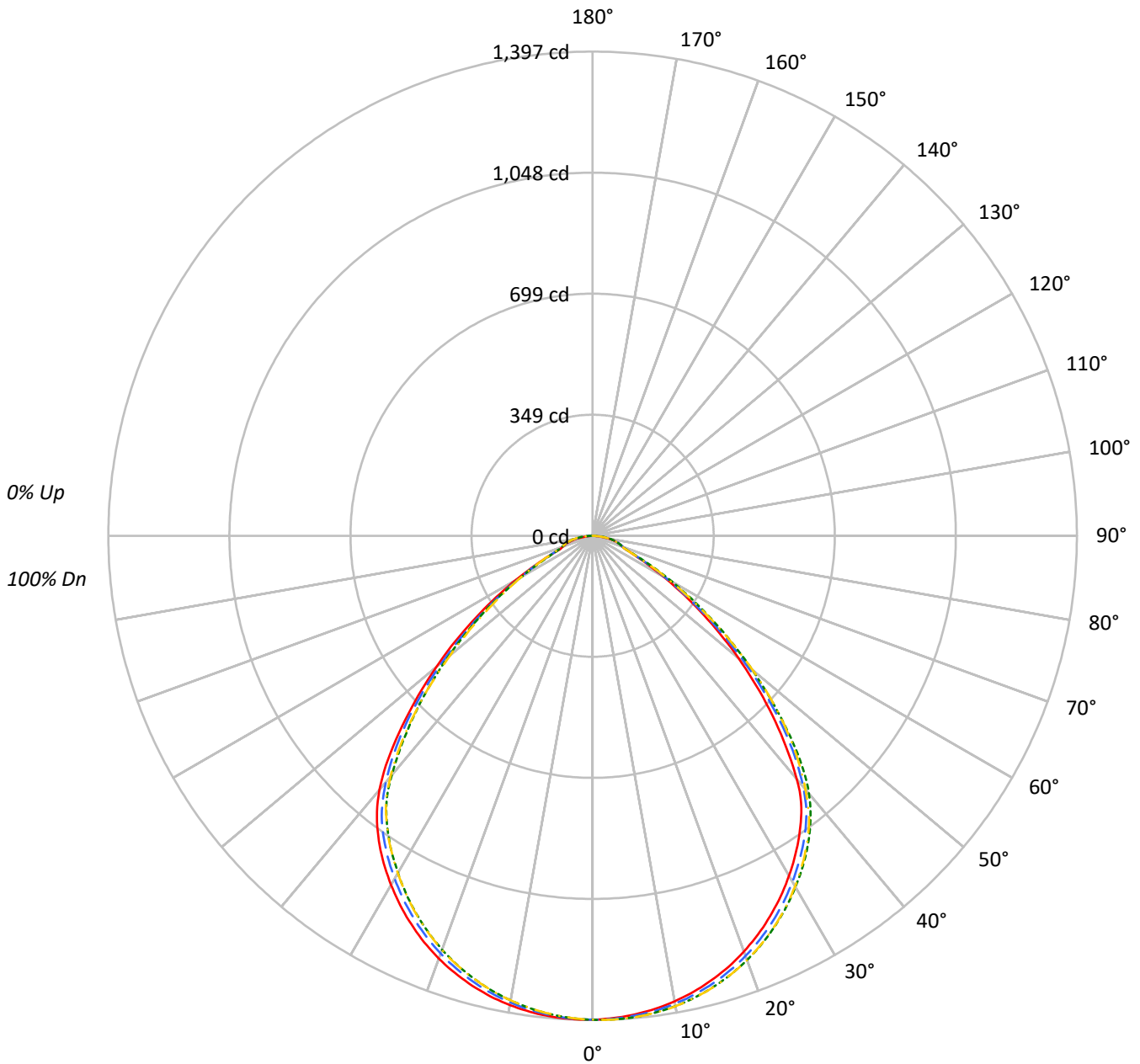
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P775946

CATALOG NUMBER: HCDJBLS1525CSD-HCD41TRMW-2500lm-3000K

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	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	90	86	82	87	84	81	84	81	79	77								
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67								
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	50	45	69	57	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	175699	175699	175699	175699
5°	175183	176117	175903	175056
10°	174269	176071	175687	173949
15°	172946	175552	175070	172360
20°	170957	174466	173796	170127
25°	168187	172686	171797	167062
30°	164632	170052	169020	163237
35°	160087	166493	165126	158489
40°	150485	159488	157172	148005
45°	130618	141422	138396	128892
50°	107546	117551	115182	106626
55°	83048	91890	90113	83048
60°	59275	65996	64611	59527
65°	40261	43119	42018	40320
70°	33558	33374	33632	34294
75°	35301	35545	34134	37246
80°	32976	36744	29932	39426
85°	18194	33500	12851	38121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 143664 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	4.5
10°-20°	376.5	12.9
20°-30°	563.3	19.3
30°-40°	658.6	22.6
40°-50°	582.5	20.0
50°-60°	354.5	12.2
60°-70°	147.7	5.1
70°-80°	76.6	2.6
80°-90°	23.5	0.8
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°	1071.8	36.8
0°-40°	1730.4	59.4
0°-60°	2667.4	91.5
0°-90°	2915.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1396	1396	1396	1396	1396	
5°	1387	1394	1392	1386	1387	132
15°	1327	1347	1344	1323	1327	374
25°	1211	1244	1237	1203	1211	558
35°	1042	1084	1075	1032	1042	649
45°	734	795	778	724	734	564
55°	378	419	411	378	378	341
65°	135	145	141	135	135	142
75°	73	73	70	77	73	75
85°	13	23	9	26	13	19
90°	0	0	0	0	0	



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1
0.5°	1395.8	1396.1	1396.3	1395.8	1396.8	1397.1	1396.6	1396.3	1396.3	1396.3	1396.1
1°	1395.3	1395.8	1396.1	1396.1	1397.1	1397.3	1397.1	1396.6	1396.3	1396.3	1395.8
1.5°	1394.6	1395.3	1395.8	1396.1	1397.1	1397.5	1397.1	1396.6	1396.3	1396.1	1395.3
2°	1393.8	1394.6	1395.6	1395.8	1397.1	1397.5	1397.1	1396.6	1396.1	1395.6	1394.8
2.5°	1392.9	1393.8	1395.1	1395.6	1396.8	1397.5	1397.1	1396.3	1395.8	1395.1	1394.1
3°	1391.9	1393.1	1394.3	1395.1	1396.6	1397.3	1396.6	1396.1	1395.3	1394.6	1393.3
3.5°	1390.9	1392.1	1393.6	1394.6	1396.1	1397.1	1396.3	1395.6	1394.8	1393.6	1392.4
4°	1389.6	1390.9	1392.6	1393.8	1395.6	1396.6	1395.6	1394.8	1394.1	1392.9	1391.1
4.5°	1388.2	1389.6	1391.4	1392.9	1394.8	1395.8	1395.1	1394.1	1393.1	1391.9	1389.9
5°	1386.7	1388.4	1390.1	1391.9	1394.1	1395.1	1394.1	1393.3	1392.4	1390.6	1388.4
5.5°	1384.9	1386.7	1388.9	1390.9	1392.9	1394.3	1393.1	1392.1	1391.1	1389.1	1386.9
6°	1383.0	1385.2	1387.4	1389.6	1391.9	1393.1	1392.1	1391.1	1389.9	1387.9	1385.2
6.5°	1381.0	1383.2	1385.9	1388.2	1390.6	1392.1	1390.9	1389.9	1388.7	1386.4	1383.5
7°	1379.0	1381.2	1384.2	1386.7	1389.1	1390.6	1389.4	1388.4	1386.9	1384.7	1381.7
7.5°	1376.8	1379.3	1382.2	1384.9	1387.7	1389.4	1387.9	1386.9	1385.2	1382.7	1379.5
8°	1374.6	1377.0	1380.5	1383.2	1385.7	1387.7	1386.2	1385.2	1383.5	1380.7	1377.3
8.5°	1372.1	1374.8	1378.0	1381.2	1384.0	1386.2	1384.5	1383.2	1381.5	1378.8	1375.1
9°	1369.4	1372.3	1375.8	1379.3	1382.0	1384.2	1382.5	1381.2	1379.5	1376.3	1372.6
9.5°	1366.7	1369.6	1373.6	1376.8	1380.0	1382.2	1380.5	1379.3	1377.3	1374.1	1369.9
10°	1363.7	1366.9	1370.9	1374.6	1377.8	1380.0	1378.3	1377.0	1374.8	1371.6	1367.2
10.5°	1360.7	1364.2	1368.1	1371.8	1375.3	1377.8	1375.8	1374.6	1372.3	1368.9	1364.4
11°	1357.5	1361.0	1365.4	1369.4	1372.8	1375.3	1373.3	1371.8	1369.9	1365.9	1361.2
11.5°	1354.3	1358.0	1362.5	1366.7	1370.1	1372.8	1370.6	1369.4	1366.9	1363.0	1358.0
12°	1350.8	1354.6	1359.2	1363.4	1367.4	1370.1	1367.9	1366.7	1364.2	1360.0	1354.8
12.5°	1347.1	1351.1	1356.0	1360.5	1364.4	1367.4	1364.9	1363.4	1361.2	1356.8	1351.3
13°	1343.7	1347.6	1352.6	1357.3	1361.2	1364.4	1361.7	1360.5	1358.0	1353.3	1347.9
13.5°	1339.5	1343.9	1348.9	1354.1	1358.0	1361.2	1358.5	1357.3	1354.6	1349.9	1344.2
14°	1335.8	1340.2	1345.4	1350.6	1354.6	1358.0	1355.3	1353.8	1351.1	1346.2	1340.2
14.5°	1331.6	1336.3	1341.5	1346.9	1351.1	1354.6	1351.6	1350.1	1347.4	1342.4	1336.3
15°	1327.4	1332.1	1337.8	1343.2	1347.4	1351.1	1348.1	1346.6	1343.7	1338.5	1332.1
15.5°	1322.9	1327.6	1333.5	1339.0	1343.7	1347.1	1344.2	1342.7	1339.7	1334.5	1327.9
16°	1318.2	1323.2	1329.1	1335.0	1339.7	1343.4	1340.0	1338.7	1335.5	1330.1	1323.4
16.5°	1313.5	1318.7	1324.9	1330.8	1335.5	1339.2	1336.0	1334.5	1331.6	1325.9	1318.7
17°	1308.8	1314.0	1320.5	1326.4	1331.3	1335.0	1331.8	1330.1	1326.9	1321.4	1314.0
17.5°	1303.9	1309.1	1315.8	1322.2	1326.9	1330.8	1327.1	1325.6	1322.4	1316.5	1309.1
18°	1298.7	1304.1	1310.8	1317.5	1322.4	1326.1	1322.7	1321.2	1318.0	1311.8	1304.1
18.5°	1293.3	1299.0	1305.9	1312.5	1317.7	1321.4	1318.0	1316.5	1313.0	1306.9	1299.0
19°	1287.8	1293.8	1300.7	1307.6	1312.8	1316.7	1313.0	1311.6	1308.3	1301.9	1293.8
19.5°	1282.2	1288.3	1295.5	1302.7	1307.9	1311.8	1307.9	1306.6	1303.2	1296.5	1288.3
20°	1276.5	1282.6	1290.1	1297.5	1302.7	1306.9	1302.7	1301.2	1297.7	1291.3	1282.6
20.5°	1270.8	1277.0	1284.6	1292.0	1297.5	1301.4	1297.2	1295.7	1292.3	1285.6	1276.7
21°	1264.4	1271.0	1278.7	1286.6	1292.0	1296.2	1291.8	1290.3	1286.8	1279.9	1271.0



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1245.6	1252.5	1260.9	1269.1	1275.0	1279.2	1274.2	1273.0	1269.3	1262.1	1252.5
23°	1238.9	1246.1	1254.5	1263.1	1269.1	1273.3	1268.1	1266.8	1263.1	1256.0	1245.8
23.5°	1232.2	1239.4	1248.1	1256.7	1262.9	1267.1	1261.9	1260.4	1257.0	1249.3	1239.4
24°	1225.3	1232.7	1241.6	1250.5	1256.5	1260.9	1255.5	1254.0	1250.5	1242.9	1232.7
24.5°	1218.4	1225.8	1235.0	1243.9	1250.0	1254.5	1249.0	1247.6	1243.9	1236.2	1225.8
25°	1211.2	1218.7	1228.0	1237.2	1243.6	1247.8	1242.1	1240.9	1237.2	1229.5	1218.9
25.5°	1204.1	1211.7	1221.1	1230.5	1236.9	1241.1	1235.5	1234.0	1230.5	1222.6	1211.7
26°	1196.4	1204.6	1214.0	1223.6	1230.0	1234.5	1228.5	1227.1	1223.6	1215.4	1204.3
26.5°	1189.2	1197.2	1206.8	1216.7	1222.9	1227.5	1221.4	1219.9	1216.2	1208.5	1197.2
27°	1181.6	1189.5	1199.4	1209.3	1215.9	1220.6	1214.0	1212.7	1209.0	1201.1	1189.7
27.5°	1173.7	1182.1	1192.2	1202.1	1208.5	1213.2	1206.8	1205.3	1201.9	1193.4	1182.1
28°	1165.8	1174.2	1184.3	1194.7	1201.1	1205.8	1199.1	1197.9	1194.2	1186.3	1174.2
28.5°	1157.6	1166.3	1176.6	1187.0	1193.9	1198.4	1191.5	1190.2	1186.5	1178.1	1166.3
29°	1149.7	1158.1	1168.7	1179.4	1186.0	1190.7	1183.6	1182.6	1178.9	1170.7	1158.4
29.5°	1141.3	1150.2	1160.8	1171.5	1178.4	1183.1	1175.7	1174.7	1171.0	1162.6	1150.5
30°	1132.9	1142.1	1152.7	1163.6	1170.2	1175.2	1167.8	1166.5	1163.1	1154.7	1142.1
30.5°	1124.3	1133.7	1144.5	1155.6	1162.3	1167.0	1159.6	1158.4	1154.9	1146.3	1133.7
31°	1115.6	1125.0	1136.4	1147.2	1154.2	1159.1	1151.2	1150.0	1146.5	1138.1	1125.3
31.5°	1107.0	1116.6	1127.7	1139.1	1145.8	1150.7	1142.8	1141.6	1138.1	1129.7	1117.1
32°	1098.3	1108.0	1119.1	1130.7	1137.4	1142.3	1134.1	1133.2	1129.7	1121.5	1108.2
32.5°	1089.2	1099.1	1110.7	1122.0	1129.2	1133.9	1125.5	1124.5	1121.1	1112.9	1099.3
33°	1080.3	1090.2	1101.8	1113.4	1120.3	1125.3	1116.6	1115.6	1112.4	1104.0	1090.4
33.5°	1071.1	1081.0	1092.9	1104.7	1111.4	1116.4	1107.7	1106.5	1103.3	1094.9	1081.3
34°	1061.5	1071.9	1083.5	1095.6	1102.5	1107.5	1098.1	1097.1	1093.9	1085.5	1071.9
34.5°	1052.1	1062.2	1074.4	1086.2	1093.4	1097.8	1088.9	1087.7	1084.5	1076.3	1062.5
35°	1042.0	1052.6	1064.7	1076.8	1083.7	1088.4	1079.0	1078.1	1074.8	1066.7	1052.9
35.5°	1032.1	1042.7	1054.8	1067.2	1074.1	1078.8	1069.4	1068.2	1065.2	1056.8	1043.0
36°	1022.0	1032.6	1044.9	1057.3	1064.5	1069.2	1059.0	1057.5	1054.8	1046.4	1032.6
36.5°	1011.3	1022.2	1034.6	1047.4	1054.1	1058.8	1048.2	1046.9	1044.0	1035.8	1022.0
37°	1000.5	1011.3	1023.7	1036.3	1043.2	1047.9	1037.3	1036.1	1033.1	1024.9	1011.1
37.5°	988.9	1000.2	1012.8	1025.7	1032.3	1037.0	1025.4	1024.7	1022.0	1013.6	998.5
38°	976.8	988.4	1001.7	1014.3	1021.0	1025.9	1012.6	1012.3	1010.4	1001.5	985.4
38.5°	963.2	974.8	988.4	1002.7	1009.4	1013.8	998.7	998.5	997.8	989.1	972.1
39°	948.8	959.9	974.0	989.8	997.0	1001.0	984.4	984.7	984.7	975.8	957.5
39.5°	933.0	944.9	959.9	976.8	984.2	987.4	970.1	970.1	971.1	961.7	943.1
40°	916.0	928.8	945.1	962.2	970.8	972.8	955.0	954.5	956.7	946.9	927.6
40.5°	898.4	911.8	929.3	947.6	956.5	957.7	939.9	939.2	941.4	931.3	913.0
41°	880.6	894.7	913.5	931.8	941.4	942.4	924.9	923.9	925.1	915.5	896.4
41.5°	862.8	877.4	896.9	915.7	925.1	926.8	909.0	907.6	908.3	899.2	880.4
42°	844.1	859.4	880.4	899.2	908.3	910.8	893.2	891.8	891.0	882.4	863.6
42.5°	826.0	841.3	863.3	882.4	890.5	894.2	876.7	874.9	873.0	864.8	846.5
43°	807.7	823.6	846.0	864.8	872.2	877.2	860.1	857.9	854.4	847.0	828.7
43.5°	789.5	805.5	827.5	847.0	853.0	860.4	843.3	840.6	835.2	828.7	811.4



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	733.9	751.4	772.2	790.7	794.6	807.2	790.4	787.0	777.6	771.4	756.3
45.5°	715.3	733.1	753.1	771.2	774.6	788.2	772.9	768.5	758.1	751.7	737.8
46°	697.0	714.8	733.9	751.2	754.4	769.7	754.1	749.2	738.8	731.9	718.3
46.5°	678.5	696.3	714.6	731.1	734.8	750.7	735.6	730.4	719.5	712.1	699.0
47°	659.5	678.0	695.3	710.9	715.6	731.1	717.1	711.6	700.7	692.3	680.0
47.5°	641.0	659.2	675.3	690.9	696.1	711.6	698.8	692.1	682.0	673.1	661.0
48°	622.4	640.2	656.3	670.6	676.8	692.1	679.5	672.8	662.9	653.1	641.2
48.5°	603.9	621.7	636.5	650.3	657.8	672.6	661.0	653.3	644.2	633.8	622.4
49°	585.6	602.9	617.2	630.6	638.5	653.3	641.2	634.3	625.6	614.3	602.9
49.5°	567.3	583.6	598.0	610.6	619.2	633.5	621.7	615.0	606.9	595.2	583.9
50°	549.3	565.1	578.4	590.8	600.4	614.3	602.7	595.7	588.3	576.0	564.8
50.5°	531.2	546.1	559.2	571.0	581.7	595.0	582.6	577.0	569.5	557.4	545.8
51°	513.2	527.5	540.1	551.8	562.6	575.5	563.9	558.4	551.5	539.2	527.3
51.5°	495.9	509.5	521.4	532.5	544.1	557.2	544.1	539.6	533.5	520.6	509.0
52°	478.4	491.2	502.6	513.9	525.8	538.2	524.3	520.9	515.9	502.1	490.7
52.5°	461.3	473.2	484.1	495.4	507.3	519.1	505.5	502.6	497.6	484.3	472.2
53°	444.3	455.4	465.3	477.1	489.2	500.4	486.5	484.5	479.6	466.3	454.4
53.5°	427.5	437.8	447.2	459.1	471.0	482.3	468.0	466.3	461.8	449.2	436.9
54°	410.9	420.5	428.9	441.6	453.7	464.0	448.7	448.5	445.3	431.7	420.1
54.5°	394.6	403.0	411.7	424.0	436.4	446.2	430.7	431.2	428.0	414.9	403.3
55°	378.5	386.5	394.6	407.2	418.8	428.9	412.6	413.9	410.7	398.1	386.2
55.5°	363.0	370.1	377.3	390.4	401.8	411.4	394.9	396.8	393.9	382.0	369.9
56°	347.7	354.1	360.5	374.3	385.0	393.6	377.6	379.5	378.0	365.7	354.3
56.5°	332.3	338.0	344.7	358.3	368.7	376.8	360.5	363.2	361.5	350.1	338.8
57°	317.5	322.7	328.9	342.7	352.4	360.5	344.0	346.9	345.4	335.1	323.7
57.5°	302.9	307.4	313.3	327.1	336.5	344.0	327.9	331.1	329.9	320.2	308.6
58°	288.6	292.6	298.0	312.6	320.7	327.6	312.3	315.5	315.0	305.7	294.5
58.5°	274.8	278.2	283.7	297.7	306.1	312.1	297.0	299.7	299.7	291.6	280.7
59°	261.4	264.4	270.1	284.2	290.8	296.8	282.2	284.6	284.9	277.7	266.9
59.5°	248.3	250.8	256.5	269.8	276.2	281.7	267.6	270.3	270.6	264.1	254.0
60°	235.5	237.7	243.6	256.5	262.2	266.9	253.5	256.0	256.7	251.0	241.4
60.5°	223.4	225.1	231.0	243.4	248.6	252.8	240.4	241.9	243.1	238.4	229.1
61°	211.3	213.0	218.9	230.8	235.2	239.4	228.3	228.8	230.0	226.8	218.2
61.5°	199.9	201.6	207.6	218.2	223.1	227.1	216.0	216.7	217.9	215.2	207.6
62°	189.0	190.8	196.4	206.6	211.0	214.5	203.8	204.3	205.8	203.6	196.7
62.5°	178.6	180.1	185.8	195.0	199.2	202.1	191.7	192.0	193.7	192.0	185.8
63°	168.8	170.0	175.7	183.8	187.0	189.5	179.6	179.9	181.9	180.4	174.9
63.5°	159.6	160.6	166.0	173.2	174.9	177.2	168.5	169.0	171.2	170.0	165.3
64°	150.7	152.0	156.9	162.8	164.6	166.3	158.4	158.4	160.9	160.4	156.2
64.5°	142.3	143.6	148.3	153.4	154.4	156.2	149.0	149.0	151.0	151.0	147.8
65°	135.2	135.9	140.1	144.5	144.8	146.5	139.9	140.1	141.1	142.3	139.9
65.5°	128.2	129.0	132.7	136.1	135.9	137.4	131.5	131.7	131.7	134.4	132.4
66°	121.6	122.6	125.8	128.2	127.5	129.2	123.8	124.0	122.8	126.5	125.5



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	105.5	106.7	108.2	109.0	107.5	109.2	105.0	106.0	103.3	108.0	108.7
68°	101.3	102.5	103.5	104.0	102.5	104.0	100.6	101.6	99.1	103.5	104.3
68.5°	97.4	99.1	99.6	99.6	98.3	99.6	97.1	97.8	96.6	99.6	100.3
69°	94.6	96.1	95.9	95.9	95.1	96.1	94.4	94.9	94.9	96.6	97.1
69.5°	92.9	93.4	93.2	92.9	92.4	93.2	92.4	92.9	93.2	94.1	94.9
70°	91.2	91.2	91.2	90.9	90.7	91.4	90.9	91.2	91.4	92.4	93.2
70.5°	89.4	89.7	90.2	89.4	89.2	89.9	89.4	89.4	89.7	90.7	91.7
71°	87.7	88.0	88.5	87.7	87.5	88.2	87.7	87.5	87.7	89.0	90.2
71.5°	86.2	86.2	87.0	86.2	86.0	86.7	86.0	85.7	86.0	87.0	88.5
72°	84.5	84.5	85.2	84.8	84.3	85.0	84.3	83.8	83.8	85.0	86.7
72.5°	83.0	83.0	83.5	83.3	82.5	83.3	82.5	81.8	81.8	83.0	85.0
73°	81.0	81.0	81.8	81.5	80.8	81.5	80.6	79.6	79.6	81.0	83.0
73.5°	79.1	79.1	80.1	79.6	79.1	79.6	78.6	77.3	77.3	78.8	81.0
74°	76.8	77.1	78.1	77.8	77.1	77.8	76.6	75.1	75.1	76.6	79.1
74.5°	74.6	74.9	76.1	76.1	75.1	75.9	74.6	72.9	72.6	74.4	77.1
75°	72.6	72.6	74.1	74.1	73.1	73.9	72.4	70.4	70.2	71.9	74.9
75.5°	70.2	70.4	72.2	72.2	71.2	71.9	70.2	67.9	67.7	69.4	72.6
76°	67.7	67.9	69.9	70.2	69.2	69.9	67.9	65.5	65.0	67.0	70.4
76.5°	65.5	65.7	67.7	67.9	67.0	67.7	65.5	63.0	62.5	64.2	68.2
77°	62.8	63.3	65.5	66.0	64.7	65.5	63.3	60.3	59.5	61.5	66.0
77.5°	60.0	60.5	63.3	63.7	62.5	63.3	60.8	57.6	56.6	58.6	63.3
78°	57.3	58.1	60.8	61.5	60.3	61.0	58.1	54.6	53.6	55.8	60.8
78.5°	54.6	55.3	58.3	59.3	57.8	58.6	55.6	51.6	50.7	52.9	58.1
79°	51.6	52.4	55.8	56.8	55.6	56.1	52.9	48.7	47.7	49.9	55.6
79.5°	48.7	49.7	53.4	54.4	53.1	53.9	50.2	45.7	44.5	46.7	52.9
80°	45.5	46.5	50.7	51.9	50.7	51.1	47.4	42.7	41.3	43.5	49.9
80.5°	42.5	43.5	47.9	49.4	47.9	48.7	44.7	39.5	38.1	40.5	47.2
81°	39.5	40.5	45.2	46.9	45.5	46.0	42.0	36.3	34.6	37.1	44.2
81.5°	36.1	37.3	42.5	44.2	42.7	43.2	39.0	33.1	31.4	33.9	41.3
82°	32.9	34.1	39.5	41.5	40.0	40.8	36.3	29.9	27.9	30.6	38.5
82.5°	29.7	30.9	36.8	38.8	37.3	37.8	33.6	26.9	24.7	27.2	35.6
83°	26.2	27.7	34.1	36.1	34.6	35.1	30.9	24.2	21.2	24.5	32.9
83.5°	22.7	24.5	31.4	33.4	31.9	32.4	28.2	21.5	18.0	21.7	29.9
84°	19.3	21.2	28.7	30.6	29.2	29.7	25.5	18.8	14.6	19.0	27.4
84.5°	15.8	18.3	25.9	27.7	26.2	26.7	22.7	16.3	11.1	16.1	24.7
85°	12.6	15.8	23.5	25.0	23.2	23.7	20.0	13.6	8.9	13.3	22.0
85.5°	9.6	13.8	20.8	22.0	20.3	20.8	17.0	11.6	7.7	11.9	19.5
86°	8.4	12.1	18.0	19.0	17.3	17.8	14.3	9.9	6.7	10.1	16.8
86.5°	7.2	10.1	15.1	16.1	14.3	14.8	11.6	8.2	5.4	8.6	14.1
87°	5.9	8.4	12.4	12.8	11.4	11.6	8.9	6.2	4.4	6.9	11.4
87.5°	4.4	6.7	9.4	9.9	8.4	8.6	5.9	4.4	3.2	5.4	8.6
88°	3.2	4.9	7.2	7.4	5.4	5.9	3.5	2.7	2.0	3.7	5.9
88.5°	2.2	3.2	4.9	4.9	3.0	3.2	1.2	1.2	1.2	2.2	3.5



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-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	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1396.1	1396.1	1396.1	1396.1	1396.1	1396.1
0.5°	1395.3	1396.1	1396.1	1395.8	1395.6	1395.8
1°	1394.8	1395.6	1395.1	1395.3	1395.1	1395.3
1.5°	1394.3	1394.8	1394.3	1394.3	1394.3	1394.6
2°	1393.3	1393.8	1393.3	1393.6	1393.3	1393.8
2.5°	1392.6	1392.9	1392.4	1392.6	1392.4	1392.9
3°	1391.6	1391.6	1390.9	1391.4	1391.1	1391.9
3.5°	1390.4	1390.4	1389.6	1390.1	1390.1	1390.9
4°	1389.1	1389.1	1387.9	1388.7	1388.7	1389.6
4.5°	1387.7	1387.4	1386.4	1387.2	1387.2	1388.2
5°	1385.9	1385.7	1384.7	1385.4	1385.4	1386.7
5.5°	1384.2	1384.0	1382.7	1383.5	1383.7	1384.9
6°	1382.5	1382.0	1380.5	1381.7	1381.7	1383.0
6.5°	1380.5	1380.0	1378.3	1379.5	1379.8	1381.0
7°	1378.5	1377.8	1376.0	1377.3	1377.5	1379.0
7.5°	1376.0	1375.3	1373.6	1374.8	1375.1	1376.8
8°	1373.8	1372.8	1370.9	1372.3	1372.8	1374.6
8.5°	1371.1	1369.9	1368.4	1369.9	1370.1	1372.1
9°	1368.6	1367.2	1365.4	1367.2	1367.6	1369.4
9.5°	1365.7	1364.2	1362.5	1364.2	1364.7	1366.7
10°	1362.7	1361.2	1359.2	1361.0	1361.7	1363.7
10.5°	1359.7	1358.0	1355.8	1358.0	1358.8	1360.7
11°	1356.3	1354.8	1352.3	1354.6	1355.5	1357.5
11.5°	1353.1	1351.3	1348.9	1351.1	1352.1	1354.3
12°	1349.6	1347.6	1345.2	1347.6	1348.4	1350.8
12.5°	1345.9	1343.7	1341.2	1343.9	1344.9	1347.1
13°	1342.2	1340.0	1337.3	1340.0	1341.0	1343.7
13.5°	1338.0	1335.8	1333.3	1336.0	1337.0	1339.5
14°	1334.0	1331.8	1329.1	1332.1	1332.8	1335.8
14.5°	1329.8	1327.4	1324.7	1327.6	1328.6	1331.6
15°	1325.4	1322.9	1320.0	1323.4	1324.4	1327.4
15.5°	1320.9	1318.5	1315.5	1318.7	1319.7	1322.9
16°	1316.3	1313.5	1310.6	1314.0	1315.0	1318.2
16.5°	1311.6	1308.8	1305.6	1309.1	1310.3	1313.5
17°	1306.6	1303.7	1300.4	1304.1	1305.4	1308.8
17.5°	1301.4	1298.5	1295.3	1299.0	1300.2	1303.9
18°	1296.2	1293.0	1289.6	1293.8	1295.0	1298.7
18.5°	1290.8	1287.6	1284.1	1288.3	1289.6	1293.3
19°	1285.4	1281.9	1278.4	1282.6	1283.9	1287.8
19.5°	1279.7	1276.2	1272.5	1277.0	1278.2	1282.2
20°	1274.0	1270.3	1266.6	1271.0	1272.5	1276.5
20.5°	1267.8	1264.1	1260.2	1264.9	1266.8	1270.8
21°	1261.6	1257.7	1253.7	1258.9	1260.7	1264.4



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1242.6	1238.4	1234.0	1239.4	1241.4	1245.6
23°	1235.9	1231.7	1227.1	1232.7	1234.7	1238.9
23.5°	1229.3	1225.1	1220.1	1225.8	1227.8	1232.2
24°	1222.4	1217.7	1213.0	1218.7	1220.6	1225.3
24.5°	1215.2	1210.5	1205.8	1211.7	1213.7	1218.4
25°	1208.0	1203.1	1198.4	1204.3	1206.5	1211.2
25.5°	1200.6	1195.7	1190.5	1196.9	1199.1	1204.1
26°	1193.2	1188.0	1183.1	1189.5	1191.7	1196.4
26.5°	1185.5	1180.6	1175.4	1181.6	1184.1	1189.2
27°	1177.9	1172.7	1167.3	1173.9	1176.4	1181.6
27.5°	1170.2	1164.8	1159.4	1166.0	1168.5	1173.7
28°	1162.3	1156.4	1151.2	1157.9	1160.3	1165.8
28.5°	1154.2	1148.5	1142.8	1149.5	1152.4	1157.6
29°	1146.0	1140.3	1134.6	1141.1	1144.0	1149.7
29.5°	1137.6	1131.9	1125.7	1132.9	1135.6	1141.3
30°	1129.5	1123.3	1117.6	1124.3	1127.2	1132.9
30.5°	1120.8	1114.6	1108.7	1115.6	1118.6	1124.3
31°	1112.4	1106.0	1100.0	1107.2	1109.9	1115.6
31.5°	1103.8	1097.3	1090.7	1098.1	1101.0	1107.0
32°	1094.9	1088.2	1082.0	1089.2	1092.1	1098.3
32.5°	1086.0	1079.3	1072.9	1080.0	1083.2	1089.2
33°	1076.8	1070.2	1063.7	1070.9	1074.1	1080.3
33.5°	1067.7	1060.8	1054.1	1061.7	1065.0	1071.1
34°	1058.0	1051.4	1044.5	1052.1	1055.3	1061.5
34.5°	1048.4	1041.5	1034.8	1042.5	1045.7	1052.1
35°	1038.8	1031.6	1024.7	1032.3	1035.8	1042.0
35.5°	1028.6	1021.5	1014.3	1022.2	1025.7	1032.1
36°	1018.3	1011.1	1003.9	1012.3	1015.5	1022.0
36.5°	1007.6	1000.5	993.3	1001.5	1004.7	1011.3
37°	996.5	989.4	982.2	990.6	993.8	1000.5
37.5°	983.9	977.5	970.3	979.5	982.7	988.9
38°	969.8	964.4	956.7	967.9	970.6	976.8
38.5°	955.5	950.3	941.9	954.3	956.2	963.2
39°	940.4	935.0	927.3	939.2	941.9	948.8
39.5°	924.9	918.2	911.5	923.6	926.6	933.0
40°	908.8	900.9	894.5	907.3	910.5	916.0
40.5°	892.5	883.6	877.4	890.5	893.2	898.4
41°	875.7	866.1	859.6	873.5	875.9	880.6
41.5°	858.4	848.0	841.6	856.4	857.9	862.8
42°	840.9	830.7	823.6	838.6	839.6	844.1
42.5°	823.3	813.4	804.8	820.8	821.1	826.0
43°	805.5	795.9	786.2	802.8	802.8	807.7
43.5°	788.0	777.8	767.2	784.3	783.8	789.5

TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	734.6	724.2	711.6	727.4	726.7	733.9
45.5°	716.8	706.2	693.1	708.2	707.4	715.3
46°	699.0	688.6	674.8	688.9	688.4	697.0
46.5°	681.2	670.1	656.3	670.1	669.4	678.5
47°	662.7	651.8	638.2	650.3	650.3	659.5
47.5°	644.9	633.8	619.7	631.1	631.6	641.0
48°	626.9	615.8	601.7	611.3	613.0	622.4
48.5°	608.6	597.5	583.1	592.8	594.5	603.9
49°	590.1	579.9	565.8	573.3	576.2	585.6
49.5°	571.8	562.4	548.3	554.7	557.9	567.3
50°	553.5	544.6	530.3	535.7	539.9	549.3
50.5°	535.4	527.0	512.7	517.7	521.9	531.2
51°	517.7	510.2	495.4	499.4	503.8	513.2
51.5°	499.6	492.9	478.4	481.8	486.0	495.9
52°	481.8	476.1	461.3	464.3	468.7	478.4
52.5°	464.3	459.3	444.3	447.7	451.7	461.3
53°	447.0	442.8	427.7	430.7	434.9	444.3
53.5°	429.9	426.5	411.7	414.1	418.1	427.5
54°	412.9	409.9	395.3	398.3	401.5	410.9
54.5°	396.3	394.1	379.8	382.7	385.5	394.6
55°	380.0	378.5	364.5	367.2	370.1	378.5
55.5°	364.0	363.0	349.4	352.6	354.8	363.0
56°	348.2	347.4	334.3	338.0	339.5	347.7
56.5°	332.8	332.6	320.0	323.9	324.9	332.3
57°	317.5	317.8	305.9	310.1	310.8	317.5
57.5°	302.7	303.4	292.1	296.5	297.0	302.9
58°	288.6	289.3	279.0	283.9	283.4	288.6
58.5°	274.5	275.8	266.1	271.3	270.8	274.8
59°	260.9	262.2	253.5	259.0	258.0	261.4
59.5°	247.6	249.1	241.7	247.1	246.1	248.3
60°	235.0	236.5	229.8	236.0	234.2	235.5
60.5°	223.9	224.1	218.4	224.9	223.1	223.4
61°	212.5	212.3	207.6	214.2	212.0	211.3
61.5°	201.1	200.9	197.4	203.8	201.6	199.9
62°	190.0	189.8	187.5	194.2	191.5	189.0
62.5°	178.6	179.4	177.9	184.8	181.9	178.6
63°	169.0	169.5	168.8	175.7	172.5	168.8
63.5°	160.1	159.9	160.1	167.0	163.8	159.6
64°	151.2	151.0	152.0	158.6	155.4	150.7
64.5°	143.1	142.8	144.3	150.7	147.5	142.3
65°	135.7	135.4	136.9	143.1	139.6	135.2
65.5°	128.7	128.7	130.0	136.1	133.2	128.2
66°	122.3	122.6	123.8	129.5	126.5	121.6



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	107.2	108.2	108.0	112.2	110.0	105.5
68°	103.5	104.3	104.0	107.5	105.3	101.3
68.5°	100.1	100.8	100.3	103.3	101.3	97.4
69°	97.1	97.8	97.1	99.3	97.8	94.6
69.5°	94.6	95.1	94.4	96.1	94.9	92.9
70°	93.2	93.2	92.4	93.6	92.7	91.2
70.5°	91.7	91.7	90.9	91.9	90.7	89.4
71°	89.9	89.9	89.4	90.4	89.0	87.7
71.5°	88.5	88.5	88.0	88.7	87.5	86.2
72°	86.7	86.7	86.2	87.2	85.7	84.5
72.5°	85.0	85.2	84.5	85.5	84.0	83.0
73°	83.3	83.8	83.0	84.0	82.3	81.0
73.5°	81.5	82.0	81.3	82.5	80.3	79.1
74°	79.8	80.3	79.8	80.6	78.3	76.8
74.5°	77.8	78.6	77.8	78.6	76.1	74.6
75°	75.9	76.6	75.9	76.8	74.1	72.6
75.5°	73.9	74.6	73.9	74.6	71.7	70.2
76°	71.9	72.6	71.9	72.6	69.4	67.7
76.5°	69.7	70.4	69.9	70.4	67.0	65.5
77°	67.5	68.4	67.7	68.2	64.5	62.8
77.5°	65.2	66.2	65.7	66.0	62.0	60.0
78°	63.0	64.0	63.5	63.7	59.3	57.3
78.5°	60.5	61.8	61.0	61.3	56.6	54.6
79°	58.1	59.3	58.8	58.8	53.9	51.6
79.5°	55.6	56.8	56.3	56.1	50.9	48.7
80°	53.1	54.4	53.6	53.6	47.9	45.5
80.5°	50.4	51.6	51.1	50.9	45.0	42.5
81°	47.9	49.2	48.7	48.2	42.0	39.5
81.5°	45.2	46.5	46.0	45.5	38.8	36.1
82°	42.3	43.7	43.2	42.5	35.6	32.9
82.5°	39.5	41.0	40.5	39.8	32.4	29.7
83°	36.8	38.1	37.6	37.1	29.4	26.2
83.5°	33.9	35.3	34.8	34.3	26.2	22.7
84°	30.9	32.4	32.1	31.4	23.0	19.3
84.5°	27.9	29.4	29.2	28.7	20.0	15.8
85°	25.0	26.4	26.2	26.2	17.3	12.6
85.5°	22.0	23.5	23.2	23.5	15.1	9.6
86°	18.8	20.5	20.3	20.8	13.1	8.4
86.5°	15.8	17.3	17.0	18.0	11.4	7.2
87°	12.8	14.3	14.1	15.1	9.4	5.9
87.5°	9.6	11.1	10.9	12.4	7.7	4.4
88°	6.7	8.2	7.9	9.4	5.9	3.2
88.5°	4.0	6.2	5.9	7.2	4.2	2.2



TEST NUMBER: P775946

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.2	0.2	0.2	0.2	0.0



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Scaled Data Report





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

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21.5°	1258.4	1264.9	1273.0	1280.9	1286.6	1290.6	1286.1	1284.6	1280.9	1274.0	1264.9
22°	1252.0	1258.9	1267.1	1275.0	1280.7	1284.9	1280.2	1278.9	1275.2	1268.1	1258.7



44°	770.9	787.7	809.5	828.7	833.7	842.8	826.3	823.3	816.1	810.0	793.2
44.5°	752.1	769.4	790.9	809.7	814.2	825.0	808.2	805.0	796.9	791.2	774.9



66.5°	115.6	116.6	119.3	121.3	119.8	121.8	116.6	117.4	115.4	119.6	119.3
67°	110.4	111.2	113.4	114.7	113.2	115.1	110.4	111.2	108.7	113.4	113.7



89°	1.2	1.5	2.5	2.7	0.5	0.7	0.0	0.2	0.2	0.7	1.5
89.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0

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21.5°	1255.5	1251.5	1247.3	1252.5	1254.2	1258.4
22°	1249.3	1245.1	1240.9	1246.1	1247.8	1252.0



44°	769.9	759.8	748.7	765.5	764.5	770.9
44.5°	752.4	742.0	729.9	746.5	745.5	752.1

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66.5°	116.9	117.4	118.1	123.3	120.3	115.6
67°	111.7	112.2	112.7	117.6	114.9	110.4



89°	1.7	4.2	4.0	4.9	2.5	1.2
89.5°	0.0	2.2	2.2	2.7	1.0	0.2

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Scaled Data Report



(END OF REPORT)