

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: P775945

Luminaire Tested: HCDJBS1525CSD-HCD41TRMW-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775945  
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-2700K  
Description: 4 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

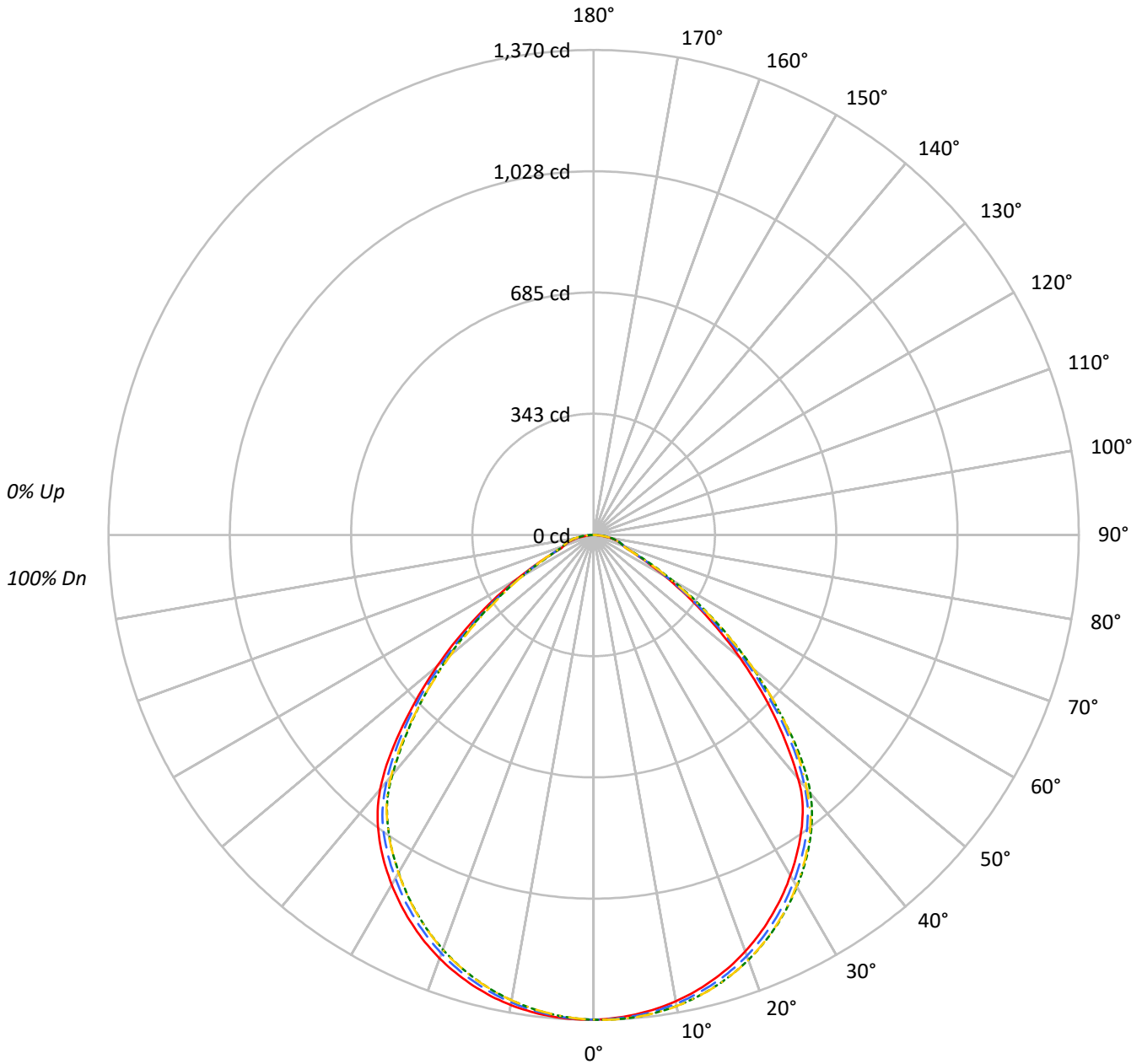
Lumens per Lamp: N/A  
Luminaire Lumens: 2858.9 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.28  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					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°	172301	172301	172301	172301
5°	171797	172719	172504	171671
10°	170908	172672	172301	170589
15°	169598	172164	171682	169037
20°	167649	171091	170448	166846
25°	164952	169354	168479	163841
30°	161449	166768	165751	160083
35°	156999	163282	161946	155432
40°	147577	156416	154149	145146
45°	128091	138699	135726	126400
50°	105471	115280	112969	104570
55°	81446	90113	88357	81446
60°	58117	64712	63378	58369
65°	39457	42286	41214	39546
70°	32896	32712	33006	33632
75°	34621	34864	33454	36517
80°	32323	36020	29352	38629
85°	17905	32922	12562	37399

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 112.5°  
 Vertical Angle: 45°  
 Luminance: 140906 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.4	4.5
10°-20°	369.3	12.9
20°-30°	552.4	19.3
30°-40°	645.9	22.6
40°-50°	571.2	20.0
50°-60°	347.6	12.2
60°-70°	144.8	5.1
70°-80°	75.2	2.6
80°-90°	23.0	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°	1051.1	36.8
0°-40°	1697.0	59.4
0°-60°	2615.9	91.5
0°-90°	2858.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2858.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1360	1367	1366	1359	1360	129
15°	1302	1321	1318	1297	1302	367
25°	1188	1220	1213	1180	1188	547
35°	1022	1063	1054	1012	1022	636
45°	720	779	763	710	720	553
55°	371	411	403	371	371	334
65°	132	142	138	133	132	140
75°	71	72	69	75	71	74
85°	12	23	9	26	12	18
90°	0	0	0	0	0	



TEST NUMBER: P775945

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1369.1	1369.1	1369.1	1369.1	1369.1	1369.1	1369.1	1369.1	1369.1	1369.1	1369.1
0.5°	1368.9	1369.1	1369.3	1368.9	1369.8	1370.1	1369.6	1369.3	1369.3	1369.3	1369.1
1°	1368.4	1368.9	1369.1	1369.1	1370.1	1370.3	1370.1	1369.6	1369.3	1369.3	1368.9
1.5°	1367.7	1368.4	1368.9	1369.1	1370.1	1370.6	1370.1	1369.6	1369.3	1369.1	1368.4
2°	1366.9	1367.7	1368.6	1368.9	1370.1	1370.6	1370.1	1369.6	1369.1	1368.6	1367.9
2.5°	1366.0	1366.9	1368.1	1368.6	1369.8	1370.6	1370.1	1369.3	1368.9	1368.1	1367.2
3°	1365.0	1366.2	1367.4	1368.1	1369.6	1370.3	1369.6	1369.1	1368.4	1367.7	1366.4
3.5°	1364.0	1365.2	1366.7	1367.7	1369.1	1370.1	1369.3	1368.6	1367.9	1366.7	1365.5
4°	1362.8	1364.0	1365.7	1366.9	1368.6	1369.6	1368.6	1367.9	1367.2	1366.0	1364.3
4.5°	1361.4	1362.8	1364.5	1366.0	1367.9	1368.9	1368.1	1367.2	1366.2	1365.0	1363.0
5°	1359.9	1361.6	1363.3	1365.0	1367.2	1368.1	1367.2	1366.4	1365.5	1363.8	1361.6
5.5°	1358.2	1359.9	1362.1	1364.0	1366.0	1367.4	1366.2	1365.2	1364.3	1362.3	1360.1
6°	1356.3	1358.4	1360.6	1362.8	1365.0	1366.2	1365.2	1364.3	1363.0	1361.1	1358.4
6.5°	1354.3	1356.5	1359.2	1361.4	1363.8	1365.2	1364.0	1363.0	1361.8	1359.7	1356.7
7°	1352.4	1354.6	1357.5	1359.9	1362.3	1363.8	1362.6	1361.6	1360.1	1358.0	1355.1
7.5°	1350.2	1352.6	1355.5	1358.2	1360.9	1362.6	1361.1	1360.1	1358.4	1356.0	1352.9
8°	1348.0	1350.4	1353.8	1356.5	1358.9	1360.9	1359.4	1358.4	1356.7	1354.1	1350.7
8.5°	1345.6	1348.3	1351.4	1354.6	1357.2	1359.4	1357.7	1356.5	1354.8	1352.1	1348.5
9°	1342.9	1345.8	1349.2	1352.6	1355.3	1357.5	1355.8	1354.6	1352.9	1349.7	1346.1
9.5°	1340.3	1343.2	1347.1	1350.2	1353.4	1355.5	1353.8	1352.6	1350.7	1347.5	1343.4
10°	1337.4	1340.5	1344.4	1348.0	1351.2	1353.4	1351.7	1350.4	1348.3	1345.1	1340.8
10.5°	1334.5	1337.8	1341.7	1345.4	1348.8	1351.2	1349.2	1348.0	1345.8	1342.5	1338.1
11°	1331.3	1334.7	1339.1	1342.9	1346.3	1348.8	1346.8	1345.4	1343.4	1339.5	1334.9
11.5°	1328.2	1331.8	1336.2	1340.3	1343.7	1346.3	1344.1	1342.9	1340.5	1336.6	1331.8
12°	1324.8	1328.4	1333.0	1337.1	1341.0	1343.7	1341.5	1340.3	1337.8	1333.7	1328.6
12.5°	1321.1	1325.0	1329.9	1334.2	1338.1	1341.0	1338.6	1337.1	1334.9	1330.6	1325.2
13°	1317.7	1321.6	1326.5	1331.1	1334.9	1338.1	1335.4	1334.2	1331.8	1327.2	1321.9
13.5°	1313.6	1318.0	1322.8	1327.9	1331.8	1334.9	1332.3	1331.1	1328.4	1323.8	1318.2
14°	1310.0	1314.3	1319.4	1324.5	1328.4	1331.8	1329.1	1327.7	1325.0	1320.2	1314.3
14.5°	1305.9	1310.5	1315.6	1320.9	1325.0	1328.4	1325.5	1324.0	1321.4	1316.5	1310.5
15°	1301.7	1306.3	1311.9	1317.3	1321.4	1325.0	1322.1	1320.6	1317.7	1312.6	1306.3
15.5°	1297.4	1302.0	1307.8	1313.1	1317.7	1321.1	1318.2	1316.8	1313.9	1308.8	1302.2
16°	1292.8	1297.6	1303.4	1309.3	1313.9	1317.5	1314.1	1312.9	1309.7	1304.4	1297.9
16.5°	1288.2	1293.3	1299.3	1305.1	1309.7	1313.4	1310.2	1308.8	1305.9	1300.3	1293.3
17°	1283.6	1288.7	1295.0	1300.8	1305.6	1309.3	1306.1	1304.4	1301.3	1295.9	1288.7
17.5°	1278.7	1283.8	1290.4	1296.7	1301.3	1305.1	1301.5	1300.0	1296.9	1291.1	1283.8
18°	1273.6	1279.0	1285.5	1292.0	1296.9	1300.5	1297.1	1295.7	1292.5	1286.5	1279.0
18.5°	1268.3	1273.9	1280.7	1287.2	1292.3	1295.9	1292.5	1291.1	1287.7	1281.6	1273.9
19°	1263.0	1268.8	1275.6	1282.4	1287.4	1291.3	1287.7	1286.2	1283.1	1276.8	1268.8
19.5°	1257.4	1263.5	1270.5	1277.5	1282.6	1286.5	1282.6	1281.4	1278.0	1271.5	1263.5
20°	1251.8	1257.9	1265.2	1272.4	1277.5	1281.6	1277.5	1276.1	1272.7	1266.4	1257.9
20.5°	1246.3	1252.3	1259.8	1267.1	1272.4	1276.3	1272.2	1270.7	1267.3	1260.8	1252.1
21°	1240.0	1246.5	1254.0	1261.8	1267.1	1271.2	1266.8	1265.4	1262.0	1255.2	1246.5



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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°	1221.5	1228.3	1236.6	1244.6	1250.4	1254.5	1249.6	1248.4	1244.8	1237.8	1228.3
23°	1215.0	1222.0	1230.3	1238.7	1244.6	1248.7	1243.6	1242.4	1238.7	1231.7	1221.8
23.5°	1208.4	1215.5	1224.0	1232.4	1238.5	1242.6	1237.5	1236.1	1232.7	1225.2	1215.5
24°	1201.7	1208.9	1217.7	1226.4	1232.2	1236.6	1231.2	1229.8	1226.4	1218.9	1208.9
24.5°	1194.9	1202.1	1211.1	1219.8	1225.9	1230.3	1224.9	1223.5	1219.8	1212.3	1202.1
25°	1187.9	1195.1	1204.3	1213.3	1219.6	1223.7	1218.1	1216.9	1213.3	1205.8	1195.4
25.5°	1180.8	1188.3	1197.5	1206.8	1213.1	1217.2	1211.6	1210.1	1206.8	1199.0	1188.3
26°	1173.3	1181.3	1190.5	1200.0	1206.3	1210.6	1204.8	1203.4	1200.0	1192.0	1181.1
26.5°	1166.3	1174.0	1183.5	1193.2	1199.2	1203.8	1197.8	1196.3	1192.7	1185.2	1174.0
27°	1158.8	1166.5	1176.2	1185.9	1192.5	1197.1	1190.5	1189.3	1185.7	1177.9	1166.8
27.5°	1151.0	1159.3	1169.2	1178.9	1185.2	1189.8	1183.5	1182.0	1178.6	1170.4	1159.3
28°	1143.3	1151.5	1161.4	1171.6	1177.9	1182.5	1176.0	1174.8	1171.1	1163.4	1151.5
28.5°	1135.3	1143.7	1153.9	1164.1	1170.9	1175.3	1168.5	1167.3	1163.6	1155.4	1143.7
29°	1127.5	1135.8	1146.2	1156.6	1163.1	1167.7	1160.7	1159.7	1156.1	1148.1	1136.0
29.5°	1119.3	1128.0	1138.4	1148.8	1155.6	1160.2	1153.0	1152.0	1148.4	1140.1	1128.2
30°	1111.0	1120.0	1130.4	1141.1	1147.6	1152.5	1145.2	1144.0	1140.6	1132.4	1120.0
30.5°	1102.6	1111.8	1122.4	1133.3	1139.9	1144.5	1137.2	1136.0	1132.6	1124.1	1111.8
31°	1094.1	1103.3	1114.4	1125.1	1131.9	1136.7	1129.0	1127.8	1124.4	1116.1	1103.5
31.5°	1085.6	1095.0	1105.9	1117.1	1123.6	1128.5	1120.7	1119.5	1116.1	1107.9	1095.5
32°	1077.1	1086.6	1097.5	1108.9	1115.4	1120.2	1112.2	1111.3	1107.9	1099.9	1086.8
32.5°	1068.1	1077.8	1089.2	1100.4	1107.4	1112.0	1103.8	1102.8	1099.4	1091.4	1078.1
33°	1059.4	1069.1	1080.5	1091.9	1098.7	1103.5	1095.0	1094.1	1090.9	1082.7	1069.4
33.5°	1050.5	1060.1	1071.8	1083.4	1090.0	1094.8	1086.3	1085.1	1082.0	1073.7	1060.4
34°	1041.0	1051.2	1062.6	1074.4	1081.2	1086.1	1076.9	1075.9	1072.7	1064.5	1051.2
34.5°	1031.8	1041.7	1053.6	1065.2	1072.3	1076.6	1067.9	1066.7	1063.5	1055.5	1042.0
35°	1021.9	1032.3	1044.2	1056.0	1062.8	1067.4	1058.2	1057.2	1054.1	1046.1	1032.5
35.5°	1012.2	1022.6	1034.5	1046.6	1053.4	1058.0	1048.8	1047.5	1044.6	1036.4	1022.8
36°	1002.2	1012.7	1024.8	1036.9	1043.9	1048.5	1038.6	1037.1	1034.5	1026.2	1012.7
36.5°	991.8	1002.5	1014.6	1027.2	1033.7	1038.3	1027.9	1026.7	1023.8	1015.8	1002.2
37°	981.2	991.8	1003.9	1016.3	1023.1	1027.7	1017.3	1016.0	1013.1	1005.1	991.6
37.5°	969.8	980.9	993.3	1005.9	1012.4	1017.0	1005.6	1004.9	1002.2	994.0	979.2
38°	957.9	969.3	982.4	994.7	1001.3	1006.1	993.0	992.8	990.8	982.1	966.4
38.5°	944.6	956.0	969.3	983.3	989.9	994.2	979.5	979.2	978.5	970.0	953.3
39°	930.5	941.4	955.2	970.7	977.8	981.6	965.4	965.6	965.6	956.9	939.0
39.5°	915.0	926.6	941.4	957.9	965.2	968.3	951.3	951.3	952.3	943.1	924.9
40°	898.3	910.9	926.9	943.6	952.1	954.0	936.6	936.1	938.3	928.6	909.7
40.5°	881.1	894.2	911.4	929.3	938.0	939.2	921.8	921.1	923.2	913.3	895.4
41°	863.6	877.4	895.9	913.8	923.2	924.2	907.0	906.0	907.2	897.8	879.1
41.5°	846.2	860.5	879.6	898.0	907.2	908.9	891.5	890.0	890.8	881.8	863.4
42°	827.8	842.8	863.4	881.8	890.8	893.2	876.0	874.5	873.8	865.3	846.9
42.5°	810.1	825.1	846.7	865.3	873.3	877.0	859.8	858.1	856.1	848.1	830.2
43°	792.1	807.7	829.7	848.1	855.4	860.2	843.5	841.3	837.9	830.7	812.7
43.5°	774.2	790.0	811.5	830.7	836.5	843.8	827.0	824.4	819.0	812.7	795.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	719.7	736.9	757.2	775.4	779.3	791.7	775.2	771.8	762.6	756.5	741.7
45.5°	701.5	719.0	738.6	756.3	759.7	773.0	758.0	753.6	743.4	737.1	723.6
46°	683.6	701.0	719.7	736.7	739.8	754.8	739.6	734.7	724.5	717.8	704.4
46.5°	665.4	682.9	700.8	717.0	720.7	736.2	721.4	716.3	705.6	698.4	685.5
47°	646.8	664.9	681.9	697.2	701.8	717.0	703.2	697.9	687.2	679.0	666.9
47.5°	628.6	646.5	662.3	677.5	682.6	697.9	685.3	678.7	668.8	660.1	648.2
48°	610.4	627.9	643.6	657.7	663.7	678.7	666.4	659.8	650.1	640.5	628.8
48.5°	592.2	609.7	624.2	637.8	645.1	659.6	648.2	640.7	631.7	621.6	610.4
49°	574.3	591.3	605.3	618.4	626.2	640.7	628.8	622.0	613.6	602.4	591.3
49.5°	556.4	572.4	586.4	598.8	607.3	621.3	609.7	603.1	595.1	583.7	572.6
50°	538.7	554.2	567.3	579.4	588.8	602.4	591.0	584.2	577.0	564.8	553.9
50.5°	521.0	535.5	548.4	560.0	570.4	583.5	571.4	565.8	558.5	546.7	535.3
51°	503.3	517.4	529.7	541.1	551.8	564.4	553.0	547.6	540.9	528.7	517.1
51.5°	486.3	499.7	511.3	522.2	533.6	546.4	533.6	529.2	523.2	510.6	499.2
52°	469.1	481.7	492.9	504.0	515.7	527.8	514.2	510.8	506.0	492.4	481.2
52.5°	452.4	464.0	474.7	485.9	497.5	509.1	495.8	492.9	488.0	474.9	463.1
53°	435.7	446.6	456.3	467.9	479.8	490.7	477.1	475.2	470.3	457.3	445.6
53.5°	419.2	429.4	438.6	450.2	461.9	473.0	459.0	457.3	452.9	440.5	428.4
54°	403.0	412.4	420.7	433.0	444.9	455.1	440.1	439.8	436.7	423.3	411.9
54.5°	387.0	395.2	403.7	415.8	427.9	437.6	422.4	422.8	419.7	406.9	395.5
55°	371.2	379.0	387.0	399.3	410.7	420.7	404.7	405.9	402.7	390.4	378.7
55.5°	356.0	363.0	370.0	382.9	394.0	403.5	387.2	389.2	386.3	374.6	362.8
56°	340.9	347.2	353.5	367.1	377.5	386.0	370.3	372.2	370.7	358.6	347.5
56.5°	325.9	331.5	338.0	351.4	361.5	369.5	353.5	356.2	354.5	343.4	332.2
57°	311.4	316.5	322.5	336.1	345.5	353.5	337.3	340.2	338.8	328.6	317.4
57.5°	297.1	301.4	307.3	320.8	330.0	337.3	321.6	324.7	323.5	314.0	302.7
58°	283.0	286.9	292.2	306.5	314.5	321.3	306.3	309.4	309.0	299.7	288.8
58.5°	269.5	272.9	278.2	292.0	300.2	306.0	291.3	293.9	293.9	285.9	275.3
59°	256.4	259.3	264.9	278.7	285.2	291.0	276.7	279.2	279.4	272.4	261.7
59.5°	243.5	246.0	251.5	264.6	270.9	276.2	262.4	265.1	265.3	259.0	249.1
60°	230.9	233.1	238.9	251.5	257.1	261.7	248.6	251.0	251.8	246.2	236.7
60.5°	219.1	220.8	226.6	238.7	243.8	247.9	235.8	237.2	238.4	233.8	224.6
61°	207.2	208.9	214.7	226.3	230.7	234.8	223.9	224.4	225.6	222.4	214.0
61.5°	196.0	197.7	203.5	214.0	218.8	222.7	211.8	212.5	213.7	211.1	203.5
62°	185.4	187.1	192.6	202.6	206.9	210.3	199.9	200.4	201.9	199.7	192.9
62.5°	175.2	176.7	182.2	191.2	195.3	198.2	188.0	188.3	190.0	188.3	182.2
63°	165.5	166.7	172.3	180.3	183.4	185.9	176.2	176.4	178.3	176.9	171.6
63.5°	156.5	157.5	162.8	169.9	171.6	173.7	165.3	165.7	167.9	166.7	162.1
64°	147.8	149.0	153.9	159.7	161.4	163.1	155.3	155.3	157.8	157.3	153.1
64.5°	139.6	140.8	145.4	150.5	151.4	153.1	146.1	146.1	148.1	148.1	144.9
65°	132.5	133.3	137.4	141.8	142.0	143.7	137.2	137.4	138.4	139.6	137.2
65.5°	125.8	126.5	130.1	133.5	133.3	134.7	128.9	129.2	129.2	131.8	129.9
66°	119.2	120.2	123.3	125.8	125.0	126.7	121.4	121.6	120.4	124.1	123.1





TEST NUMBER: P775945

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	103.5	104.7	106.1	106.9	105.4	107.1	103.0	104.0	101.3	105.9	106.6
68°	99.4	100.6	101.5	102.0	100.6	102.0	98.6	99.6	97.2	101.5	102.3
68.5°	95.5	97.2	97.7	97.7	96.4	97.7	95.2	96.0	94.7	97.7	98.4
69°	92.8	94.3	94.0	94.0	93.3	94.3	92.6	93.1	93.1	94.7	95.2
69.5°	91.1	91.6	91.4	91.1	90.6	91.4	90.6	91.1	91.4	92.3	93.1
70°	89.4	89.4	89.4	89.2	88.9	89.7	89.2	89.4	89.7	90.6	91.4
70.5°	87.7	88.0	88.4	87.7	87.5	88.2	87.7	87.7	88.0	88.9	89.9
71°	86.0	86.3	86.8	86.0	85.8	86.5	86.0	85.8	86.0	87.2	88.4
71.5°	84.6	84.6	85.3	84.6	84.3	85.1	84.3	84.1	84.3	85.3	86.8
72°	82.9	82.9	83.6	83.1	82.6	83.4	82.6	82.1	82.1	83.4	85.1
72.5°	81.4	81.4	81.9	81.7	80.9	81.7	80.9	80.2	80.2	81.4	83.4
73°	79.5	79.5	80.2	80.0	79.2	80.0	79.0	78.0	78.0	79.5	81.4
73.5°	77.5	77.5	78.5	78.0	77.5	78.0	77.1	75.8	75.8	77.3	79.5
74°	75.4	75.6	76.6	76.3	75.6	76.3	75.1	73.7	73.7	75.1	77.5
74.5°	73.2	73.4	74.6	74.6	73.7	74.4	73.2	71.5	71.2	72.9	75.6
75°	71.2	71.2	72.7	72.7	71.7	72.5	71.0	69.1	68.8	70.5	73.4
75.5°	68.8	69.1	70.8	70.8	69.8	70.5	68.8	66.6	66.4	68.1	71.2
76°	66.4	66.6	68.6	68.8	67.8	68.6	66.6	64.2	63.7	65.7	69.1
76.5°	64.2	64.5	66.4	66.6	65.7	66.4	64.2	61.8	61.3	63.0	66.9
77°	61.5	62.0	64.2	64.7	63.5	64.2	62.0	59.1	58.4	60.3	64.7
77.5°	58.9	59.4	62.0	62.5	61.3	62.0	59.6	56.5	55.5	57.4	62.0
78°	56.2	56.9	59.6	60.3	59.1	59.9	56.9	53.6	52.6	54.8	59.6
78.5°	53.6	54.3	57.2	58.2	56.7	57.4	54.5	50.6	49.7	51.9	56.9
79°	50.6	51.4	54.8	55.7	54.5	55.0	51.9	47.7	46.8	48.9	54.5
79.5°	47.7	48.7	52.3	53.3	52.1	52.8	49.2	44.8	43.6	45.8	51.9
80°	44.6	45.6	49.7	50.9	49.7	50.2	46.5	41.9	40.5	42.6	48.9
80.5°	41.7	42.6	47.0	48.5	47.0	47.7	43.9	38.8	37.3	39.7	46.3
81°	38.8	39.7	44.3	46.0	44.6	45.1	41.2	35.6	33.9	36.3	43.4
81.5°	35.4	36.6	41.7	43.4	41.9	42.4	38.3	32.5	30.8	33.2	40.5
82°	32.2	33.4	38.8	40.7	39.3	40.0	35.6	29.3	27.4	30.0	37.8
82.5°	29.1	30.3	36.1	38.0	36.6	37.1	33.0	26.4	24.2	26.7	34.9
83°	25.7	27.1	33.4	35.4	33.9	34.4	30.3	23.7	20.8	24.0	32.2
83.5°	22.3	24.0	30.8	32.7	31.3	31.7	27.6	21.1	17.7	21.3	29.3
84°	18.9	20.8	28.1	30.0	28.6	29.1	25.0	18.4	14.3	18.7	26.9
84.5°	15.5	17.9	25.4	27.1	25.7	26.2	22.3	16.0	10.9	15.8	24.2
85°	12.4	15.5	23.0	24.5	22.8	23.3	19.6	13.3	8.7	13.1	21.6
85.5°	9.5	13.6	20.4	21.6	19.9	20.4	16.7	11.4	7.5	11.6	19.1
86°	8.2	11.9	17.7	18.7	17.0	17.4	14.1	9.7	6.5	9.9	16.5
86.5°	7.0	9.9	14.8	15.8	14.1	14.5	11.4	8.0	5.3	8.5	13.8
87°	5.8	8.2	12.1	12.6	11.1	11.4	8.7	6.1	4.4	6.8	11.1
87.5°	4.4	6.5	9.2	9.7	8.2	8.5	5.8	4.4	3.2	5.3	8.5
88°	3.2	4.8	7.0	7.3	5.3	5.8	3.4	2.7	1.9	3.6	5.8
88.5°	2.2	3.2	4.8	4.8	2.9	3.2	1.2	1.2	1.2	2.2	3.4



TEST NUMBER: P775945  
CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0



TEST NUMBER: P775945

CATALOG NUMBER: HCDJBLS1525CSD-HCD41TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1369.1	1369.1	1369.1	1369.1	1369.1	1369.1
0.5°	1368.4	1369.1	1369.1	1368.9	1368.6	1368.9
1°	1367.9	1368.6	1368.1	1368.4	1368.1	1368.4
1.5°	1367.4	1367.9	1367.4	1367.4	1367.4	1367.7
2°	1366.4	1366.9	1366.4	1366.7	1366.4	1366.9
2.5°	1365.7	1366.0	1365.5	1365.7	1365.5	1366.0
3°	1364.7	1364.7	1364.0	1364.5	1364.3	1365.0
3.5°	1363.5	1363.5	1362.8	1363.3	1363.3	1364.0
4°	1362.3	1362.3	1361.1	1361.8	1361.8	1362.8
4.5°	1360.9	1360.6	1359.7	1360.4	1360.4	1361.4
5°	1359.2	1358.9	1358.0	1358.7	1358.7	1359.9
5.5°	1357.5	1357.2	1356.0	1356.7	1357.0	1358.2
6°	1355.8	1355.3	1353.8	1355.1	1355.1	1356.3
6.5°	1353.8	1353.4	1351.7	1352.9	1353.1	1354.3
7°	1351.9	1351.2	1349.5	1350.7	1350.9	1352.4
7.5°	1349.5	1348.8	1347.1	1348.3	1348.5	1350.2
8°	1347.3	1346.3	1344.4	1345.8	1346.3	1348.0
8.5°	1344.6	1343.4	1342.0	1343.4	1343.7	1345.6
9°	1342.2	1340.8	1339.1	1340.8	1341.2	1342.9
9.5°	1339.3	1337.8	1336.2	1337.8	1338.3	1340.3
10°	1336.4	1334.9	1333.0	1334.7	1335.4	1337.4
10.5°	1333.5	1331.8	1329.6	1331.8	1332.5	1334.5
11°	1330.1	1328.6	1326.2	1328.4	1329.4	1331.3
11.5°	1326.9	1325.2	1322.8	1325.0	1326.0	1328.2
12°	1323.6	1321.6	1319.2	1321.6	1322.3	1324.8
12.5°	1319.9	1317.7	1315.3	1318.0	1318.9	1321.1
13°	1316.3	1314.1	1311.4	1314.1	1315.1	1317.7
13.5°	1312.2	1310.0	1307.6	1310.2	1311.2	1313.6
14°	1308.3	1306.1	1303.4	1306.3	1307.1	1310.0
14.5°	1304.2	1301.7	1299.1	1302.0	1303.0	1305.9
15°	1299.8	1297.4	1294.5	1297.9	1298.8	1301.7
15.5°	1295.4	1293.0	1290.1	1293.3	1294.2	1297.4
16°	1290.8	1288.2	1285.3	1288.7	1289.6	1292.8
16.5°	1286.2	1283.6	1280.4	1283.8	1285.0	1288.2
17°	1281.4	1278.5	1275.3	1279.0	1280.2	1283.6
17.5°	1276.3	1273.4	1270.2	1273.9	1275.1	1278.7
18°	1271.2	1268.1	1264.7	1268.8	1270.0	1273.6
18.5°	1265.9	1262.7	1259.3	1263.5	1264.7	1268.3
19°	1260.5	1257.2	1253.8	1257.9	1259.1	1263.0
19.5°	1255.0	1251.6	1247.9	1252.3	1253.5	1257.4
20°	1249.4	1245.8	1242.1	1246.5	1247.9	1251.8
20.5°	1243.3	1239.7	1235.8	1240.4	1242.4	1246.3
21°	1237.3	1233.4	1229.5	1234.6	1236.3	1240.0



TEST NUMBER: P775945

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1218.6	1214.5	1210.1	1215.5	1217.4	1221.5
23°	1212.1	1208.0	1203.4	1208.9	1210.9	1215.0
23.5°	1205.5	1201.4	1196.6	1202.1	1204.1	1208.4
24°	1198.8	1194.2	1189.5	1195.1	1197.1	1201.7
24.5°	1191.7	1187.1	1182.5	1188.3	1190.3	1194.9
25°	1184.7	1179.9	1175.3	1181.1	1183.2	1187.9
25.5°	1177.4	1172.6	1167.5	1173.8	1176.0	1180.8
26°	1170.2	1165.1	1160.2	1166.5	1168.7	1173.3
26.5°	1162.7	1157.8	1152.7	1158.8	1161.2	1166.3
27°	1155.1	1150.0	1144.7	1151.3	1153.7	1158.8
27.5°	1147.6	1142.3	1137.0	1143.5	1145.9	1151.0
28°	1139.9	1134.1	1129.0	1135.5	1137.9	1143.3
28.5°	1131.9	1126.3	1120.7	1127.3	1130.2	1135.3
29°	1123.9	1118.3	1112.7	1119.0	1121.9	1127.5
29.5°	1115.6	1110.1	1104.0	1111.0	1113.7	1119.3
30°	1107.6	1101.6	1096.0	1102.6	1105.5	1111.0
30.5°	1099.2	1093.1	1087.3	1094.1	1097.0	1102.6
31°	1090.9	1084.6	1078.8	1085.8	1088.5	1094.1
31.5°	1082.4	1076.1	1069.6	1076.9	1079.8	1085.6
32°	1073.7	1067.2	1061.1	1068.1	1071.1	1077.1
32.5°	1065.0	1058.5	1052.2	1059.2	1062.3	1068.1
33°	1056.0	1049.5	1043.2	1050.2	1053.4	1059.4
33.5°	1047.1	1040.3	1033.7	1041.2	1044.4	1050.5
34°	1037.6	1031.1	1024.3	1031.8	1034.9	1041.0
34.5°	1028.2	1021.4	1014.8	1022.3	1025.5	1031.8
35°	1018.7	1011.7	1004.9	1012.4	1015.8	1021.9
35.5°	1008.8	1001.8	994.7	1002.5	1005.9	1012.2
36°	998.6	991.6	984.5	992.8	995.9	1002.2
36.5°	988.2	981.2	974.1	982.1	985.3	991.8
37°	977.3	970.2	963.2	971.5	974.6	981.2
37.5°	964.9	958.6	951.6	960.6	963.7	969.8
38°	951.1	945.8	938.3	949.2	951.8	957.9
38.5°	937.1	932.0	923.7	935.8	937.8	944.6
39°	922.3	916.9	909.4	921.1	923.7	930.5
39.5°	907.0	900.5	893.9	905.8	908.7	915.0
40°	891.3	883.5	877.2	889.8	892.9	898.3
40.5°	875.3	866.5	860.5	873.3	876.0	881.1
41°	858.8	849.3	843.0	856.6	859.0	863.6
41.5°	841.8	831.6	825.3	839.9	841.3	846.2
42°	824.6	814.7	807.7	822.4	823.4	827.8
42.5°	807.4	797.7	789.2	805.0	805.2	810.1
43°	790.0	780.5	771.1	787.3	787.3	792.1
43.5°	772.8	762.8	752.4	769.1	768.6	774.2

TEST NUMBER: P775945

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	720.4	710.2	697.9	713.4	712.7	719.7
45.5°	703.0	692.6	679.7	694.5	693.8	701.5
46°	685.5	675.3	661.8	675.6	675.1	683.6
46.5°	668.1	657.2	643.6	657.2	656.4	665.4
47°	649.9	639.2	625.9	637.8	637.8	646.8
47.5°	632.5	621.6	607.7	618.9	619.4	628.6
48°	614.8	603.9	590.0	599.5	601.2	610.4
48.5°	596.8	585.9	571.9	581.3	583.0	592.2
49°	578.7	568.7	554.9	562.2	565.1	574.3
49.5°	560.7	551.5	537.7	544.0	547.2	556.4
50°	542.8	534.1	520.0	525.3	529.5	538.7
50.5°	525.1	516.9	502.8	507.7	511.8	521.0
51°	507.7	500.4	485.9	489.7	494.1	503.3
51.5°	490.0	483.4	469.1	472.5	476.6	486.3
52°	472.5	467.0	452.4	455.3	459.7	469.1
52.5°	455.3	450.5	435.7	439.1	443.0	452.4
53°	438.4	434.2	419.5	422.4	426.5	435.7
53.5°	421.6	418.2	403.7	406.1	410.0	419.2
54°	404.9	402.0	387.7	390.6	393.8	403.0
54.5°	388.7	386.5	372.4	375.4	378.0	387.0
55°	372.7	371.2	357.4	360.1	363.0	371.2
55.5°	356.9	356.0	342.6	345.8	348.0	356.0
56°	341.4	340.7	327.9	331.5	332.9	340.9
56.5°	326.4	326.2	313.8	317.7	318.7	325.9
57°	311.4	311.6	300.0	304.1	304.8	311.4
57.5°	296.8	297.6	286.4	290.8	291.3	297.1
58°	283.0	283.8	273.6	278.4	277.9	283.0
58.5°	269.2	270.4	261.0	266.1	265.6	269.5
59°	255.9	257.1	248.6	254.0	253.0	256.4
59.5°	242.8	244.3	237.0	242.3	241.4	243.5
60°	230.4	231.9	225.4	231.4	229.7	230.9
60.5°	219.5	219.8	214.2	220.5	218.8	219.1
61°	208.4	208.2	203.5	210.1	207.9	207.2
61.5°	197.2	197.0	193.6	199.9	197.7	196.0
62°	186.3	186.1	183.9	190.5	187.8	185.4
62.5°	175.2	175.9	174.5	181.3	178.3	175.2
63°	165.7	166.2	165.5	172.3	169.1	165.5
63.5°	157.0	156.8	157.0	163.8	160.7	156.5
64°	148.3	148.1	149.0	155.6	152.4	147.8
64.5°	140.3	140.1	141.5	147.8	144.7	139.6
65°	133.0	132.8	134.2	140.3	136.9	132.5
65.5°	126.2	126.2	127.5	133.5	130.6	125.8
66°	119.9	120.2	121.4	127.0	124.1	119.2



TEST NUMBER: P775945

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	105.2	106.1	105.9	110.0	107.8	103.5
68°	101.5	102.3	102.0	105.4	103.2	99.4
68.5°	98.1	98.9	98.4	101.3	99.4	95.5
69°	95.2	96.0	95.2	97.4	96.0	92.8
69.5°	92.8	93.3	92.6	94.3	93.1	91.1
70°	91.4	91.4	90.6	91.8	90.9	89.4
70.5°	89.9	89.9	89.2	90.1	88.9	87.7
71°	88.2	88.2	87.7	88.7	87.2	86.0
71.5°	86.8	86.8	86.3	87.0	85.8	84.6
72°	85.1	85.1	84.6	85.5	84.1	82.9
72.5°	83.4	83.6	82.9	83.8	82.4	81.4
73°	81.7	82.1	81.4	82.4	80.7	79.5
73.5°	80.0	80.5	79.7	80.9	78.8	77.5
74°	78.3	78.8	78.3	79.0	76.8	75.4
74.5°	76.3	77.1	76.3	77.1	74.6	73.2
75°	74.4	75.1	74.4	75.4	72.7	71.2
75.5°	72.5	73.2	72.5	73.2	70.3	68.8
76°	70.5	71.2	70.5	71.2	68.1	66.4
76.5°	68.3	69.1	68.6	69.1	65.7	64.2
77°	66.2	67.1	66.4	66.9	63.2	61.5
77.5°	64.0	64.9	64.5	64.7	60.8	58.9
78°	61.8	62.8	62.3	62.5	58.2	56.2
78.5°	59.4	60.6	59.9	60.1	55.5	53.6
79°	56.9	58.2	57.7	57.7	52.8	50.6
79.5°	54.5	55.7	55.2	55.0	49.9	47.7
80°	52.1	53.3	52.6	52.6	47.0	44.6
80.5°	49.4	50.6	50.2	49.9	44.1	41.7
81°	47.0	48.2	47.7	47.3	41.2	38.8
81.5°	44.3	45.6	45.1	44.6	38.0	35.4
82°	41.4	42.9	42.4	41.7	34.9	32.2
82.5°	38.8	40.2	39.7	39.0	31.7	29.1
83°	36.1	37.3	36.8	36.3	28.8	25.7
83.5°	33.2	34.7	34.2	33.7	25.7	22.3
84°	30.3	31.7	31.5	30.8	22.5	18.9
84.5°	27.4	28.8	28.6	28.1	19.6	15.5
85°	24.5	25.9	25.7	25.7	17.0	12.4
85.5°	21.6	23.0	22.8	23.0	14.8	9.5
86°	18.4	20.1	19.9	20.4	12.8	8.2
86.5°	15.5	17.0	16.7	17.7	11.1	7.0
87°	12.6	14.1	13.8	14.8	9.2	5.8
87.5°	9.5	10.9	10.7	12.1	7.5	4.4
88°	6.5	8.0	7.8	9.2	5.8	3.2
88.5°	3.9	6.1	5.8	7.0	4.1	2.2



TEST NUMBER: P775945

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMW-2500lm-2700K

**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°	1234.1	1240.4	1248.4	1256.2	1261.8	1265.6	1261.3	1259.8	1256.2	1249.4	1240.4
22°	1227.8	1234.6	1242.6	1250.4	1255.9	1260.1	1255.5	1254.2	1250.6	1243.6	1234.4



44°	756.0	772.5	793.8	812.7	817.6	826.6	810.3	807.4	800.4	794.3	777.8
44.5°	737.6	754.6	775.7	794.1	798.4	809.1	792.6	789.5	781.5	775.9	759.9



66.5°	113.4	114.4	117.0	119.0	117.5	119.5	114.4	115.1	113.2	117.3	117.0
67°	108.3	109.0	111.2	112.4	111.0	112.9	108.3	109.0	106.6	111.2	111.5



89°	1.2	1.5	2.4	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°	1231.2	1227.3	1223.2	1228.3	1230.0	1234.1
22°	1225.2	1221.0	1216.9	1222.0	1223.7	1227.8



44°	755.1	745.1	734.2	750.7	749.7	756.0
44.5°	737.9	727.7	715.8	732.0	731.1	737.6

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66.5°	114.6	115.1	115.8	120.9	118.0	113.4
67°	109.5	110.0	110.5	115.3	112.7	108.3



89°	1.7	4.1	3.9	4.8	2.4	1.2
89.5°	0.0	2.2	2.2	2.7	1.0	0.2

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(END OF REPORT)