

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: P775949

Luminaire Tested: HCDJBS1525CSD-HCD41TRMW-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775949
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-5000K
Description: 4 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

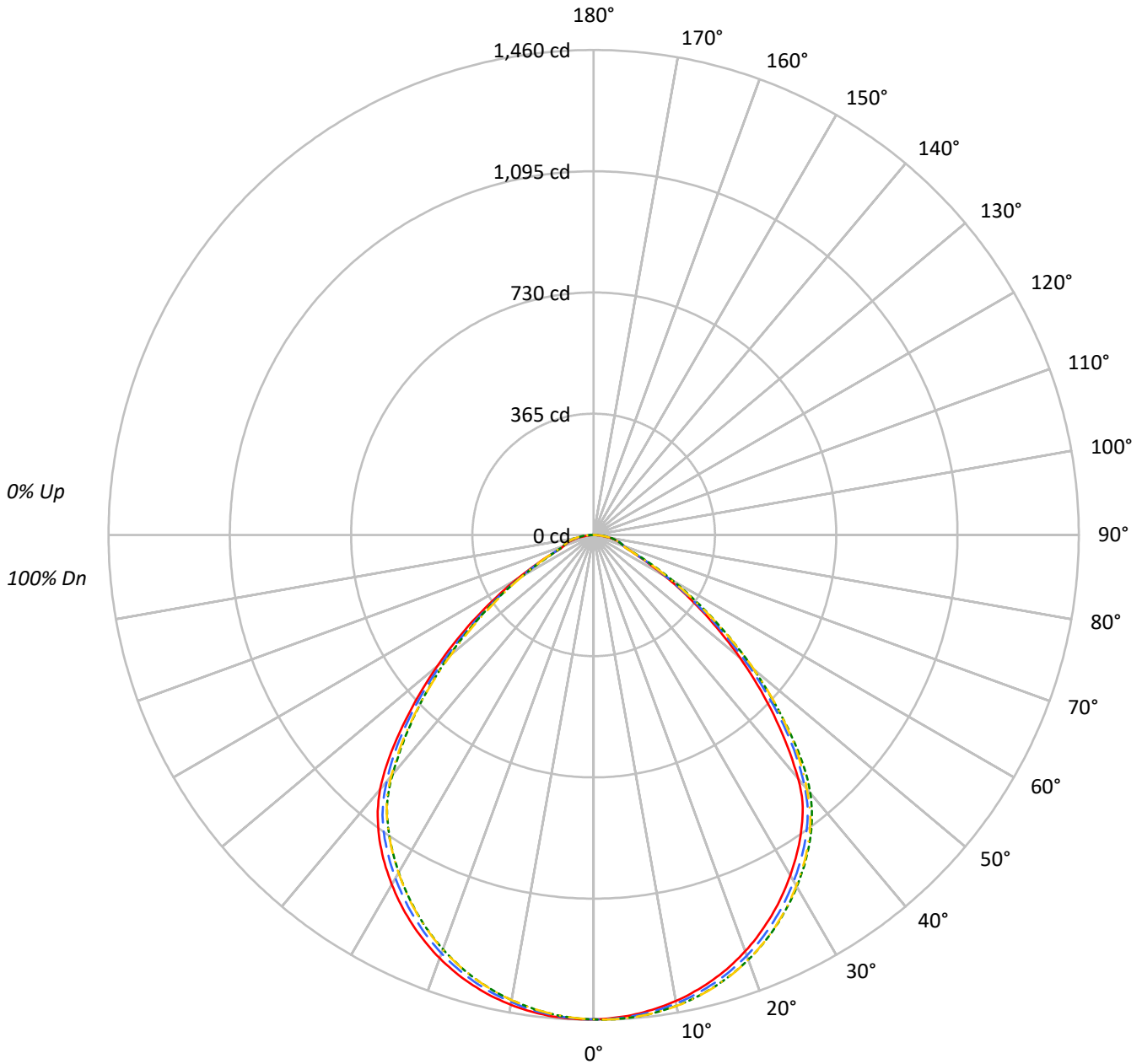
Lumens per Lamp: N/A
Luminaire Lumens: 3045.5 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.28
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





TEST NUMBER: P775949

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRMW-2500lm-5000K

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77					77			
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67					67			
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	50	45	69	57	50	45	56	49	44	55	49	44	53	48	44	42					42			
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	183552	183552	183552	183552
5°	183015	183988	183760	182876
10°	182064	183943	183547	181732
15°	180672	183395	182900	180073
20°	178591	182261	181564	177734
25°	175713	180407	179476	174533
30°	171999	177652	176577	170532
35°	167246	173945	172516	165572
40°	157205	166618	164203	154625
45°	136456	147758	144590	134659
50°	112343	122818	120331	111384
55°	86778	95993	94128	86778
60°	61918	68941	67506	62170
65°	42047	45055	43894	42137
70°	35067	34846	35140	35803
75°	36906	37149	35642	38900
80°	34425	38339	31236	41165
85°	19060	35088	13429	39853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 150089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	4.5
10°-20°	393.4	12.9
20°-30°	588.4	19.3
30°-40°	688.0	22.6
40°-50°	608.5	20.0
50°-60°	370.3	12.2
60°-70°	154.3	5.1
70°-80°	80.1	2.6
80°-90°	24.5	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°	1119.7	36.8
0°-40°	1807.8	59.4
0°-60°	2786.6	91.5
0°-90°	3045.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3045.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1458	1458	1458	1458	1458	
5°	1449	1456	1455	1448	1449	138
15°	1387	1408	1404	1382	1387	391
25°	1265	1299	1292	1257	1265	582
35°	1089	1132	1123	1078	1089	678
45°	767	830	812	757	767	589
55°	396	438	429	396	396	356
65°	141	151	147	142	141	149
75°	76	76	73	80	76	78
85°	13	24	9	28	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1458.5	1458.5	1458.5	1458.5	1458.5	1458.5	1458.5	1458.5	1458.5	1458.5	1458.5
0.5°	1458.2	1458.5	1458.7	1458.2	1459.3	1459.5	1459.0	1458.7	1458.7	1458.7	1458.5
1°	1457.7	1458.2	1458.5	1458.5	1459.5	1459.8	1459.5	1459.0	1458.7	1458.7	1458.2
1.5°	1456.9	1457.7	1458.2	1458.5	1459.5	1460.0	1459.5	1459.0	1458.7	1458.5	1457.7
2°	1456.2	1456.9	1458.0	1458.2	1459.5	1460.0	1459.5	1459.0	1458.5	1458.0	1457.2
2.5°	1455.1	1456.2	1457.5	1458.0	1459.3	1460.0	1459.5	1458.7	1458.2	1457.5	1456.4
3°	1454.1	1455.4	1456.7	1457.5	1459.0	1459.8	1459.0	1458.5	1457.7	1456.9	1455.6
3.5°	1453.1	1454.4	1455.9	1456.9	1458.5	1459.5	1458.7	1458.0	1457.2	1455.9	1454.6
4°	1451.8	1453.1	1454.9	1456.2	1458.0	1459.0	1458.0	1457.2	1456.4	1455.1	1453.3
4.5°	1450.2	1451.8	1453.6	1455.1	1457.2	1458.2	1457.5	1456.4	1455.4	1454.1	1452.0
5°	1448.7	1450.5	1452.3	1454.1	1456.4	1457.5	1456.4	1455.6	1454.6	1452.8	1450.5
5.5°	1446.9	1448.7	1451.0	1453.1	1455.1	1456.7	1455.4	1454.4	1453.3	1451.3	1448.9
6°	1444.8	1447.1	1449.5	1451.8	1454.1	1455.4	1454.4	1453.3	1452.0	1450.0	1447.1
6.5°	1442.7	1445.1	1447.9	1450.2	1452.8	1454.4	1453.1	1452.0	1450.7	1448.4	1445.3
7°	1440.7	1443.0	1446.1	1448.7	1451.3	1452.8	1451.5	1450.5	1448.9	1446.6	1443.5
7.5°	1438.4	1440.9	1444.0	1446.9	1449.7	1451.5	1450.0	1448.9	1447.1	1444.5	1441.2
8°	1436.0	1438.6	1442.2	1445.1	1447.6	1449.7	1448.2	1447.1	1445.3	1442.5	1438.9
8.5°	1433.4	1436.3	1439.6	1443.0	1445.8	1448.2	1446.4	1445.1	1443.3	1440.4	1436.5
9°	1430.6	1433.7	1437.3	1440.9	1443.8	1446.1	1444.3	1443.0	1441.2	1437.8	1434.0
9.5°	1427.8	1430.9	1435.0	1438.4	1441.7	1444.0	1442.2	1440.9	1438.9	1435.5	1431.1
10°	1424.7	1428.0	1432.2	1436.0	1439.4	1441.7	1439.9	1438.6	1436.3	1432.9	1428.3
10.5°	1421.6	1425.2	1429.3	1433.2	1436.8	1439.4	1437.3	1436.0	1433.7	1430.1	1425.4
11°	1418.2	1421.8	1426.5	1430.6	1434.2	1436.8	1434.7	1433.2	1431.1	1427.0	1422.1
11.5°	1414.9	1418.7	1423.4	1427.8	1431.4	1434.2	1431.9	1430.6	1428.0	1423.9	1418.7
12°	1411.2	1415.1	1420.0	1424.4	1428.5	1431.4	1429.1	1427.8	1425.2	1420.8	1415.4
12.5°	1407.4	1411.5	1416.7	1421.3	1425.4	1428.5	1426.0	1424.4	1422.1	1417.4	1411.8
13°	1403.8	1407.9	1413.1	1418.0	1422.1	1425.4	1422.6	1421.3	1418.7	1413.8	1408.2
13.5°	1399.4	1404.0	1409.2	1414.6	1418.7	1422.1	1419.3	1418.0	1415.1	1410.2	1404.3
14°	1395.5	1400.1	1405.6	1411.0	1415.1	1418.7	1415.9	1414.3	1411.5	1406.3	1400.1
14.5°	1391.1	1396.0	1401.4	1407.1	1411.5	1415.1	1412.0	1410.5	1407.6	1402.5	1396.0
15°	1386.7	1391.6	1397.6	1403.2	1407.6	1411.5	1408.4	1406.9	1403.8	1398.3	1391.6
15.5°	1382.1	1387.0	1393.2	1398.9	1403.8	1407.4	1404.3	1402.7	1399.6	1394.2	1387.2
16°	1377.2	1382.3	1388.5	1394.7	1399.6	1403.5	1399.9	1398.6	1395.2	1389.6	1382.6
16.5°	1372.3	1377.7	1384.1	1390.3	1395.2	1399.1	1395.8	1394.2	1391.1	1385.2	1377.7
17°	1367.4	1372.8	1379.5	1385.7	1390.9	1394.7	1391.4	1389.6	1386.2	1380.5	1372.8
17.5°	1362.2	1367.6	1374.6	1381.3	1386.2	1390.3	1386.5	1384.9	1381.6	1375.4	1367.6
18°	1356.8	1362.5	1369.4	1376.4	1381.6	1385.4	1381.8	1380.3	1376.9	1370.5	1362.5
18.5°	1351.1	1357.0	1364.3	1371.2	1376.7	1380.5	1376.9	1375.4	1371.8	1365.3	1357.0
19°	1345.4	1351.6	1358.8	1366.1	1371.5	1375.6	1371.8	1370.2	1366.8	1360.1	1351.6
19.5°	1339.5	1345.9	1353.4	1360.9	1366.3	1370.5	1366.3	1365.0	1361.4	1354.5	1345.9
20°	1333.5	1340.0	1347.7	1355.5	1360.9	1365.3	1360.9	1359.4	1355.7	1349.0	1340.0
20.5°	1327.6	1334.1	1342.1	1349.8	1355.5	1359.6	1355.2	1353.7	1350.1	1343.1	1333.8
21°	1320.9	1327.9	1335.9	1344.1	1349.8	1354.2	1349.6	1348.0	1344.4	1337.2	1327.9



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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°	1301.3	1308.5	1317.3	1325.8	1332.0	1336.4	1331.2	1329.9	1326.1	1318.6	1308.5
23°	1294.3	1301.8	1310.6	1319.6	1325.8	1330.2	1324.8	1323.5	1319.6	1312.1	1301.5
23.5°	1287.3	1294.8	1303.9	1312.9	1319.4	1323.7	1318.3	1316.8	1313.2	1305.2	1294.8
24°	1280.1	1287.9	1297.2	1306.4	1312.6	1317.3	1311.6	1310.1	1306.4	1298.4	1287.9
24.5°	1272.9	1280.6	1290.2	1299.5	1305.9	1310.6	1304.9	1303.3	1299.5	1291.5	1280.6
25°	1265.4	1273.1	1283.0	1292.5	1299.2	1303.6	1297.7	1296.4	1292.5	1284.5	1273.4
25.5°	1257.9	1265.9	1275.7	1285.5	1292.2	1296.6	1290.7	1289.1	1285.5	1277.3	1265.9
26°	1249.9	1258.4	1268.2	1278.3	1285.0	1289.7	1283.5	1281.9	1278.3	1269.8	1258.2
26.5°	1242.4	1250.7	1260.8	1271.1	1277.5	1282.4	1276.0	1274.4	1270.6	1262.6	1250.7
27°	1234.4	1242.7	1253.0	1263.3	1270.3	1275.2	1268.2	1266.9	1263.1	1254.8	1242.9
27.5°	1226.2	1234.9	1245.5	1255.8	1262.6	1267.5	1260.8	1259.2	1255.6	1246.8	1234.9
28°	1217.9	1226.7	1237.3	1248.1	1254.8	1259.7	1252.8	1251.5	1247.6	1239.3	1226.7
28.5°	1209.4	1218.4	1229.3	1240.1	1247.3	1252.0	1244.7	1243.5	1239.6	1230.8	1218.4
29°	1201.1	1209.9	1221.0	1232.1	1239.1	1244.0	1236.5	1235.5	1231.6	1223.1	1210.2
29.5°	1192.3	1201.6	1212.7	1223.8	1231.1	1236.0	1228.2	1227.2	1223.3	1214.5	1201.9
30°	1183.6	1193.1	1204.2	1215.6	1222.5	1227.7	1220.0	1218.7	1215.1	1206.3	1193.1
30.5°	1174.5	1184.3	1195.7	1207.3	1214.3	1219.2	1211.4	1210.2	1206.5	1197.5	1184.3
31°	1165.5	1175.3	1187.2	1198.5	1205.8	1210.9	1202.7	1201.4	1197.8	1189.0	1175.6
31.5°	1156.5	1166.5	1178.1	1190.0	1197.0	1202.2	1193.9	1192.6	1189.0	1180.2	1167.0
32°	1147.4	1157.5	1169.1	1181.2	1188.2	1193.4	1184.9	1183.8	1180.2	1171.7	1157.8
32.5°	1137.9	1148.2	1160.3	1172.2	1179.7	1184.6	1175.8	1174.8	1171.2	1162.7	1148.5
33°	1128.6	1138.9	1151.0	1163.2	1170.4	1175.6	1166.5	1165.5	1162.1	1153.4	1139.2
33.5°	1119.0	1129.4	1141.8	1154.1	1161.1	1166.3	1157.2	1155.9	1152.6	1143.8	1129.6
34°	1109.0	1119.8	1131.9	1144.6	1151.8	1157.0	1147.2	1146.1	1142.8	1134.0	1119.8
34.5°	1099.2	1109.7	1122.4	1134.8	1142.3	1146.9	1137.6	1136.3	1133.0	1124.5	1110.0
35°	1088.6	1099.7	1112.3	1125.0	1132.2	1137.1	1127.3	1126.3	1122.9	1114.4	1099.9
35.5°	1078.2	1089.3	1102.0	1114.9	1122.1	1127.0	1117.2	1115.9	1112.8	1104.1	1089.6
36°	1067.7	1078.8	1091.7	1104.6	1112.1	1117.0	1106.4	1104.8	1102.0	1093.2	1078.8
36.5°	1056.6	1067.9	1080.8	1094.3	1101.2	1106.1	1095.0	1093.7	1090.6	1082.1	1067.7
37°	1045.2	1056.6	1069.5	1082.6	1089.9	1094.8	1083.7	1082.4	1079.3	1070.8	1056.3
37.5°	1033.1	1044.9	1058.1	1071.5	1078.5	1083.4	1071.3	1070.5	1067.7	1058.9	1043.1
38°	1020.4	1032.6	1046.5	1059.7	1066.6	1071.8	1057.9	1057.6	1055.5	1046.2	1029.5
38.5°	1006.2	1018.4	1032.6	1047.5	1054.5	1059.1	1043.4	1043.1	1042.4	1033.3	1015.5
39°	991.3	1002.9	1017.6	1034.1	1041.6	1045.7	1028.4	1028.7	1028.7	1019.4	1000.3
39.5°	974.7	987.1	1002.9	1020.4	1028.2	1031.5	1013.5	1013.5	1014.5	1004.7	985.3
40°	956.9	970.3	987.4	1005.2	1014.2	1016.3	997.7	997.2	999.5	989.2	969.1
40.5°	938.6	952.5	970.9	990.0	999.3	1000.5	982.0	981.2	983.5	972.9	953.8
41°	920.0	934.7	954.3	973.4	983.5	984.5	966.2	965.2	966.5	956.4	936.5
41.5°	901.4	916.7	937.0	956.7	966.5	968.3	949.7	948.1	948.9	939.4	919.8
42°	881.8	897.8	919.8	939.4	948.9	951.5	933.2	931.6	930.9	921.8	902.2
42.5°	863.0	879.0	901.9	921.8	930.3	934.2	915.9	914.1	912.0	903.5	884.4
43°	843.9	860.4	883.9	903.5	911.2	916.4	898.6	896.3	892.6	884.9	865.8
43.5°	824.8	841.5	864.5	884.9	891.1	898.8	881.0	878.2	872.5	865.8	847.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	766.7	785.0	806.7	826.0	830.2	843.3	825.8	822.2	812.4	805.9	790.2
45.5°	747.3	765.9	786.8	805.7	809.3	823.5	807.5	802.8	792.0	785.3	770.8
46°	728.2	746.8	766.7	784.7	788.1	804.1	787.8	782.7	771.8	764.6	750.4
46.5°	708.9	727.4	746.5	763.8	767.7	784.2	768.5	763.1	751.7	744.0	730.3
47°	689.0	708.3	726.4	742.7	747.6	763.8	749.1	743.4	732.1	723.3	710.4
47.5°	669.6	688.7	705.5	721.8	727.2	743.4	730.0	723.0	712.5	703.2	690.5
48°	650.3	668.8	685.6	700.6	707.0	723.0	709.9	702.9	692.6	682.3	669.9
48.5°	630.9	649.5	665.0	679.4	687.2	702.7	690.5	682.5	673.0	662.1	650.3
49°	611.8	629.9	644.8	658.8	667.0	682.5	669.9	662.6	653.6	641.7	629.9
49.5°	592.7	609.7	624.7	637.9	646.9	661.9	649.5	642.5	634.0	621.9	610.0
50°	573.8	590.4	604.3	617.2	627.3	641.7	629.6	622.4	614.6	601.7	590.1
50.5°	555.0	570.5	584.2	596.6	607.7	621.6	608.7	602.8	595.0	582.4	570.2
51°	536.2	551.1	564.3	576.4	587.8	601.2	589.1	583.4	576.2	563.3	550.9
51.5°	518.1	532.3	544.7	556.3	568.4	582.1	568.4	563.8	557.3	543.9	531.8
52°	499.8	513.2	525.1	536.9	549.3	562.2	547.8	544.2	539.0	524.5	512.7
52.5°	481.9	494.3	505.7	517.6	530.0	542.4	528.2	525.1	519.9	506.0	493.3
53°	464.1	475.8	486.1	498.5	511.1	522.7	508.3	506.2	501.0	487.1	474.7
53.5°	446.6	457.4	467.2	479.6	492.0	503.9	488.9	487.1	482.5	469.3	456.4
54°	429.3	439.4	448.1	461.3	473.9	484.8	468.8	468.5	465.2	451.0	438.8
54.5°	412.2	421.0	430.1	443.0	455.9	466.2	449.9	450.5	447.1	433.4	421.3
55°	395.5	403.7	412.2	425.4	437.5	448.1	431.1	432.4	429.0	415.9	403.5
55.5°	379.2	386.7	394.2	407.9	419.7	429.8	412.5	414.6	411.5	399.1	386.4
56°	363.2	369.9	376.6	391.1	402.2	411.2	394.4	396.5	395.0	382.0	370.2
56.5°	347.2	353.1	360.1	374.3	385.1	393.7	376.6	379.5	377.7	365.8	353.9
57°	331.7	337.1	343.6	358.0	368.1	376.6	359.3	362.4	360.9	350.0	338.2
57.5°	316.5	321.1	327.3	341.8	351.6	359.3	342.6	345.9	344.6	334.5	322.4
58°	301.5	305.6	311.3	326.5	335.1	342.3	326.3	329.6	329.1	319.3	307.7
58.5°	287.1	290.7	296.3	311.1	319.8	326.0	310.3	313.1	313.1	304.6	293.2
59°	273.1	276.2	282.1	296.9	303.8	310.0	294.8	297.4	297.6	290.1	278.8
59.5°	259.4	262.0	267.9	281.9	288.6	294.3	279.6	282.4	282.7	276.0	265.4
60°	246.0	248.3	254.5	267.9	273.9	278.8	264.9	267.4	268.2	262.3	252.2
60.5°	233.4	235.2	241.4	254.3	259.7	264.1	251.2	252.7	254.0	249.1	239.3
61°	220.7	222.5	228.7	241.1	245.7	250.1	238.5	239.0	240.3	237.0	227.9
61.5°	208.8	210.6	216.8	227.9	233.1	237.2	225.6	226.4	227.7	224.8	216.8
62°	197.5	199.3	205.2	215.8	220.5	224.1	213.0	213.5	215.0	212.7	205.5
62.5°	186.6	188.2	194.1	203.7	208.1	211.2	200.3	200.6	202.4	200.6	194.1
63°	176.3	177.6	183.5	192.1	195.4	198.0	187.7	187.9	190.0	188.4	182.8
63.5°	166.8	167.8	173.5	181.0	182.8	185.1	176.1	176.6	178.9	177.6	172.7
64°	157.5	158.8	163.9	170.1	171.9	173.7	165.5	165.5	168.0	167.5	163.1
64.5°	148.7	150.0	154.9	160.3	161.3	163.1	155.7	155.7	157.7	157.7	154.4
65°	141.2	142.0	146.4	151.0	151.3	153.1	146.1	146.4	147.4	148.7	146.1
65.5°	134.0	134.7	138.6	142.2	142.0	143.5	137.3	137.6	137.6	140.4	138.4
66°	127.0	128.0	131.4	134.0	133.2	135.0	129.3	129.6	128.3	132.2	131.1



TEST NUMBER: P775949

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	110.2	111.5	113.1	113.8	112.3	114.1	109.7	110.7	107.9	112.8	113.6
68°	105.8	107.1	108.2	108.7	107.1	108.7	105.1	106.1	103.5	108.2	108.9
68.5°	101.7	103.5	104.0	104.0	102.7	104.0	101.4	102.2	100.9	104.0	104.8
69°	98.9	100.4	100.2	100.2	99.4	100.4	98.6	99.1	99.1	100.9	101.4
69.5°	97.1	97.6	97.3	97.1	96.5	97.3	96.5	97.1	97.3	98.4	99.1
70°	95.3	95.3	95.3	95.0	94.7	95.5	95.0	95.3	95.5	96.5	97.3
70.5°	93.4	93.7	94.2	93.4	93.2	94.0	93.4	93.4	93.7	94.7	95.8
71°	91.6	91.9	92.4	91.6	91.4	92.2	91.6	91.4	91.6	92.9	94.2
71.5°	90.1	90.1	90.9	90.1	89.8	90.6	89.8	89.6	89.8	90.9	92.4
72°	88.3	88.3	89.1	88.5	88.0	88.8	88.0	87.5	87.5	88.8	90.6
72.5°	86.7	86.7	87.3	87.0	86.2	87.0	86.2	85.4	85.4	86.7	88.8
73°	84.7	84.7	85.4	85.2	84.4	85.2	84.2	83.1	83.1	84.7	86.7
73.5°	82.6	82.6	83.6	83.1	82.6	83.1	82.1	80.8	80.8	82.3	84.7
74°	80.3	80.5	81.6	81.3	80.5	81.3	80.0	78.5	78.5	80.0	82.6
74.5°	78.0	78.2	79.5	79.5	78.5	79.2	78.0	76.2	75.9	77.7	80.5
75°	75.9	75.9	77.4	77.4	76.4	77.2	75.6	73.6	73.3	75.1	78.2
75.5°	73.3	73.6	75.4	75.4	74.3	75.1	73.3	71.0	70.7	72.5	75.9
76°	70.7	71.0	73.1	73.3	72.3	73.1	71.0	68.4	67.9	70.0	73.6
76.5°	68.4	68.7	70.7	71.0	70.0	70.7	68.4	65.8	65.3	67.1	71.2
77°	65.6	66.1	68.4	68.9	67.6	68.4	66.1	63.0	62.2	64.3	68.9
77.5°	62.7	63.2	66.1	66.6	65.3	66.1	63.5	60.1	59.1	61.2	66.1
78°	59.9	60.7	63.5	64.3	63.0	63.8	60.7	57.0	56.0	58.3	63.5
78.5°	57.0	57.8	60.9	62.0	60.4	61.2	58.1	54.0	52.9	55.2	60.7
79°	54.0	54.7	58.3	59.4	58.1	58.6	55.2	50.9	49.8	52.1	58.1
79.5°	50.9	51.9	55.8	56.8	55.5	56.3	52.4	47.8	46.5	48.8	55.2
80°	47.5	48.5	52.9	54.2	52.9	53.4	49.6	44.7	43.1	45.4	52.1
80.5°	44.4	45.4	50.1	51.6	50.1	50.9	46.7	41.3	39.8	42.3	49.3
81°	41.3	42.3	47.2	49.0	47.5	48.0	43.9	37.9	36.1	38.7	46.2
81.5°	37.7	39.0	44.4	46.2	44.7	45.2	40.8	34.6	32.8	35.4	43.1
82°	34.3	35.6	41.3	43.4	41.8	42.6	37.9	31.2	29.2	32.0	40.3
82.5°	31.0	32.3	38.5	40.5	39.0	39.5	35.1	28.1	25.8	28.4	37.2
83°	27.4	28.9	35.6	37.7	36.1	36.7	32.3	25.3	22.2	25.6	34.3
83.5°	23.7	25.6	32.8	34.8	33.3	33.8	29.4	22.5	18.8	22.7	31.2
84°	20.1	22.2	29.9	32.0	30.5	31.0	26.6	19.6	15.2	19.9	28.7
84.5°	16.5	19.1	27.1	28.9	27.4	27.9	23.7	17.0	11.6	16.8	25.8
85°	13.2	16.5	24.5	26.1	24.3	24.8	20.9	14.2	9.3	13.9	23.0
85.5°	10.1	14.5	21.7	23.0	21.2	21.7	17.8	12.1	8.0	12.4	20.4
86°	8.8	12.6	18.8	19.9	18.1	18.6	15.0	10.3	7.0	10.6	17.6
86.5°	7.5	10.6	15.7	16.8	15.0	15.5	12.1	8.5	5.7	9.0	14.7
87°	6.2	8.8	12.9	13.4	11.9	12.1	9.3	6.5	4.6	7.2	11.9
87.5°	4.6	7.0	9.8	10.3	8.8	9.0	6.2	4.6	3.4	5.7	9.0
88°	3.4	5.2	7.5	7.7	5.7	6.2	3.6	2.8	2.1	3.9	6.2
88.5°	2.3	3.4	5.2	5.2	3.1	3.4	1.3	1.3	1.3	2.3	3.6



TEST NUMBER: P775949
CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P775949

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1458.5	1458.5	1458.5	1458.5	1458.5	1458.5
0.5°	1457.7	1458.5	1458.5	1458.2	1458.0	1458.2
1°	1457.2	1458.0	1457.5	1457.7	1457.5	1457.7
1.5°	1456.7	1457.2	1456.7	1456.7	1456.7	1456.9
2°	1455.6	1456.2	1455.6	1455.9	1455.6	1456.2
2.5°	1454.9	1455.1	1454.6	1454.9	1454.6	1455.1
3°	1453.8	1453.8	1453.1	1453.6	1453.3	1454.1
3.5°	1452.6	1452.6	1451.8	1452.3	1452.3	1453.1
4°	1451.3	1451.3	1450.0	1450.7	1450.7	1451.8
4.5°	1449.7	1449.5	1448.4	1449.2	1449.2	1450.2
5°	1447.9	1447.6	1446.6	1447.4	1447.4	1448.7
5.5°	1446.1	1445.8	1444.5	1445.3	1445.6	1446.9
6°	1444.3	1443.8	1442.2	1443.5	1443.5	1444.8
6.5°	1442.2	1441.7	1439.9	1441.2	1441.5	1442.7
7°	1440.2	1439.4	1437.6	1438.9	1439.1	1440.7
7.5°	1437.6	1436.8	1435.0	1436.3	1436.5	1438.4
8°	1435.3	1434.2	1432.2	1433.7	1434.2	1436.0
8.5°	1432.4	1431.1	1429.6	1431.1	1431.4	1433.4
9°	1429.8	1428.3	1426.5	1428.3	1428.8	1430.6
9.5°	1426.7	1425.2	1423.4	1425.2	1425.7	1427.8
10°	1423.6	1422.1	1420.0	1421.8	1422.6	1424.7
10.5°	1420.5	1418.7	1416.4	1418.7	1419.5	1421.6
11°	1416.9	1415.4	1412.8	1415.1	1416.2	1418.2
11.5°	1413.6	1411.8	1409.2	1411.5	1412.5	1414.9
12°	1410.0	1407.9	1405.3	1407.9	1408.7	1411.2
12.5°	1406.1	1403.8	1401.2	1404.0	1405.1	1407.4
13°	1402.2	1399.9	1397.1	1399.9	1400.9	1403.8
13.5°	1397.8	1395.5	1392.9	1395.8	1396.8	1399.4
14°	1393.7	1391.4	1388.5	1391.6	1392.4	1395.5
14.5°	1389.3	1386.7	1383.9	1387.0	1388.0	1391.1
15°	1384.7	1382.1	1379.0	1382.6	1383.6	1386.7
15.5°	1380.0	1377.4	1374.3	1377.7	1378.7	1382.1
16°	1375.1	1372.3	1369.2	1372.8	1373.8	1377.2
16.5°	1370.2	1367.4	1364.0	1367.6	1368.9	1372.3
17°	1365.0	1361.9	1358.6	1362.5	1363.8	1367.4
17.5°	1359.6	1356.5	1353.2	1357.0	1358.3	1362.2
18°	1354.2	1350.8	1347.2	1351.6	1352.9	1356.8
18.5°	1348.5	1345.2	1341.6	1345.9	1347.2	1351.1
19°	1342.8	1339.2	1335.6	1340.0	1341.3	1345.4
19.5°	1336.9	1333.3	1329.4	1334.1	1335.4	1339.5
20°	1331.0	1327.1	1323.2	1327.9	1329.4	1333.5
20.5°	1324.5	1320.6	1316.5	1321.4	1323.5	1327.6
21°	1318.1	1313.9	1309.8	1315.2	1317.0	1320.9



TEST NUMBER: P775949

CATALOG NUMBER: HCDJBLS1525CSD-HCD41TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1298.2	1293.8	1289.1	1294.8	1296.9	1301.3
23°	1291.2	1286.8	1281.9	1287.9	1289.9	1294.3
23.5°	1284.2	1279.9	1274.7	1280.6	1282.7	1287.3
24°	1277.0	1272.1	1267.2	1273.1	1275.2	1280.1
24.5°	1269.5	1264.6	1259.7	1265.9	1268.0	1272.9
25°	1262.0	1256.9	1252.0	1258.2	1260.5	1265.4
25.5°	1254.3	1249.1	1243.7	1250.4	1252.8	1257.9
26°	1246.6	1241.1	1236.0	1242.7	1245.0	1249.9
26.5°	1238.6	1233.4	1228.0	1234.4	1237.0	1242.4
27°	1230.6	1225.1	1219.5	1226.4	1229.0	1234.4
27.5°	1222.5	1216.9	1211.2	1218.2	1220.7	1226.2
28°	1214.3	1208.1	1202.7	1209.6	1212.2	1217.9
28.5°	1205.8	1199.8	1193.9	1200.9	1204.0	1209.4
29°	1197.3	1191.3	1185.4	1192.1	1195.2	1201.1
29.5°	1188.5	1182.5	1176.1	1183.6	1186.4	1192.3
30°	1180.0	1173.5	1167.6	1174.5	1177.6	1183.6
30.5°	1170.9	1164.5	1158.3	1165.5	1168.6	1174.5
31°	1162.1	1155.4	1149.2	1156.7	1159.6	1165.5
31.5°	1153.1	1146.4	1139.4	1147.2	1150.3	1156.5
32°	1143.8	1136.8	1130.4	1137.9	1141.0	1147.4
32.5°	1134.5	1127.6	1120.8	1128.3	1131.7	1137.9
33°	1125.0	1118.0	1111.3	1118.8	1122.1	1128.6
33.5°	1115.4	1108.2	1101.2	1109.2	1112.6	1119.0
34°	1105.4	1098.4	1091.2	1099.2	1102.5	1109.0
34.5°	1095.3	1088.1	1081.1	1089.1	1092.4	1099.2
35°	1085.2	1077.7	1070.5	1078.5	1082.1	1088.6
35.5°	1074.6	1067.1	1059.7	1067.9	1071.5	1078.2
36°	1063.8	1056.3	1048.8	1057.6	1061.0	1067.7
36.5°	1052.7	1045.2	1037.7	1046.2	1049.6	1056.6
37°	1041.1	1033.6	1026.1	1034.9	1038.2	1045.2
37.5°	1027.9	1021.2	1013.7	1023.3	1026.6	1033.1
38°	1013.2	1007.5	999.5	1011.1	1014.0	1020.4
38.5°	998.2	992.8	984.0	996.9	999.0	1006.2
39°	982.5	976.8	968.8	981.2	984.0	991.3
39.5°	966.2	959.2	952.3	964.9	968.0	974.7
40°	949.4	941.2	934.5	947.9	951.2	956.9
40.5°	932.4	923.1	916.7	930.3	933.2	938.6
41°	914.8	904.8	898.1	912.5	915.1	920.0
41.5°	896.8	885.9	879.2	894.7	896.3	901.4
42°	878.4	867.9	860.4	876.1	877.2	881.8
42.5°	860.1	849.8	840.8	857.5	857.8	863.0
43°	841.5	831.5	821.4	838.7	838.7	843.9
43.5°	823.2	812.6	801.5	819.3	818.8	824.8



TEST NUMBER: P775949

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	767.4	756.6	743.4	760.0	759.2	766.7
45.5°	748.9	737.8	724.1	739.8	739.1	747.3
46°	730.3	719.4	705.0	719.7	719.2	728.2
46.5°	711.7	700.1	685.6	700.1	699.3	708.9
47°	692.3	681.0	666.8	679.4	679.4	689.0
47.5°	673.7	662.1	647.4	659.3	659.8	669.6
48°	654.9	643.3	628.6	638.6	640.4	650.3
48.5°	635.8	624.2	609.2	619.3	621.1	630.9
49°	616.4	605.9	591.1	598.9	602.0	611.8
49.5°	597.3	587.5	572.8	579.5	582.9	592.7
50°	578.2	568.9	554.0	559.6	564.0	573.8
50.5°	559.4	550.6	535.6	540.8	545.2	555.0
51°	540.8	533.1	517.6	521.7	526.3	536.2
51.5°	522.0	515.0	499.8	503.4	507.8	518.1
52°	503.4	497.4	481.9	485.0	489.7	499.8
52.5°	485.0	479.9	464.1	467.7	471.9	481.9
53°	467.0	462.6	446.8	449.9	454.3	464.1
53.5°	449.2	445.5	430.1	432.6	436.8	446.6
54°	431.4	428.3	413.0	416.1	419.5	429.3
54.5°	414.1	411.7	396.8	399.9	402.7	412.2
55°	397.0	395.5	380.8	383.6	386.7	395.5
55.5°	380.2	379.2	365.0	368.4	370.7	379.2
56°	363.7	362.9	349.3	353.1	354.7	363.2
56.5°	347.7	347.5	334.3	338.4	339.5	347.2
57°	331.7	332.0	319.6	324.0	324.7	331.7
57.5°	316.2	317.0	305.1	309.8	310.3	316.5
58°	301.5	302.3	291.4	296.6	296.1	301.5
58.5°	286.8	288.1	278.0	283.4	282.9	287.1
59°	272.6	273.9	264.9	270.5	269.5	273.1
59.5°	258.7	260.2	252.5	258.1	257.1	259.4
60°	245.5	247.0	240.1	246.5	244.7	246.0
60.5°	233.9	234.1	228.2	234.9	233.1	233.4
61°	222.0	221.7	216.8	223.8	221.5	220.7
61.5°	210.1	209.9	206.3	213.0	210.6	208.8
62°	198.5	198.3	195.9	202.9	200.1	197.5
62.5°	186.6	187.4	185.9	193.1	190.0	186.6
63°	176.6	177.1	176.3	183.5	180.2	176.3
63.5°	167.3	167.0	167.3	174.5	171.1	166.8
64°	158.0	157.7	158.8	165.7	162.4	157.5
64.5°	149.5	149.2	150.8	157.5	154.1	148.7
65°	141.7	141.5	143.0	149.5	145.8	141.2
65.5°	134.5	134.5	135.8	142.2	139.1	134.0
66°	127.8	128.0	129.3	135.3	132.2	127.0



TEST NUMBER: P775949

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	112.0	113.1	112.8	117.2	114.9	110.2
68°	108.2	108.9	108.7	112.3	110.0	105.8
68.5°	104.5	105.3	104.8	107.9	105.8	101.7
69°	101.4	102.2	101.4	103.8	102.2	98.9
69.5°	98.9	99.4	98.6	100.4	99.1	97.1
70°	97.3	97.3	96.5	97.8	96.8	95.3
70.5°	95.8	95.8	95.0	96.0	94.7	93.4
71°	94.0	94.0	93.4	94.5	92.9	91.6
71.5°	92.4	92.4	91.9	92.7	91.4	90.1
72°	90.6	90.6	90.1	91.1	89.6	88.3
72.5°	88.8	89.1	88.3	89.3	87.8	86.7
73°	87.0	87.5	86.7	87.8	86.0	84.7
73.5°	85.2	85.7	84.9	86.2	83.9	82.6
74°	83.4	83.9	83.4	84.2	81.8	80.3
74.5°	81.3	82.1	81.3	82.1	79.5	78.0
75°	79.2	80.0	79.2	80.3	77.4	75.9
75.5°	77.2	78.0	77.2	78.0	74.9	73.3
76°	75.1	75.9	75.1	75.9	72.5	70.7
76.5°	72.8	73.6	73.1	73.6	70.0	68.4
77°	70.5	71.5	70.7	71.2	67.4	65.6
77.5°	68.1	69.2	68.7	68.9	64.8	62.7
78°	65.8	66.9	66.3	66.6	62.0	59.9
78.5°	63.2	64.5	63.8	64.0	59.1	57.0
79°	60.7	62.0	61.4	61.4	56.3	54.0
79.5°	58.1	59.4	58.9	58.6	53.2	50.9
80°	55.5	56.8	56.0	56.0	50.1	47.5
80.5°	52.7	54.0	53.4	53.2	47.0	44.4
81°	50.1	51.4	50.9	50.3	43.9	41.3
81.5°	47.2	48.5	48.0	47.5	40.5	37.7
82°	44.1	45.7	45.2	44.4	37.2	34.3
82.5°	41.3	42.9	42.3	41.6	33.8	31.0
83°	38.5	39.8	39.2	38.7	30.7	27.4
83.5°	35.4	36.9	36.4	35.9	27.4	23.7
84°	32.3	33.8	33.6	32.8	24.0	20.1
84.5°	29.2	30.7	30.5	29.9	20.9	16.5
85°	26.1	27.6	27.4	27.4	18.1	13.2
85.5°	23.0	24.5	24.3	24.5	15.7	10.1
86°	19.6	21.4	21.2	21.7	13.7	8.8
86.5°	16.5	18.1	17.8	18.8	11.9	7.5
87°	13.4	15.0	14.7	15.7	9.8	6.2
87.5°	10.1	11.6	11.4	12.9	8.0	4.6
88°	7.0	8.5	8.3	9.8	6.2	3.4
88.5°	4.1	6.5	6.2	7.5	4.4	2.3



TEST NUMBER: P775949

CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.3	0.3	0.3	0.3	0.0



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Scaled Data Report





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

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21.5°	1314.7	1321.4	1329.9	1338.2	1344.1	1348.3	1343.6	1342.1	1338.2	1331.0	1321.4
22°	1308.0	1315.2	1323.7	1332.0	1337.9	1342.3	1337.4	1336.1	1332.3	1324.8	1315.0



44°	805.4	822.9	845.7	865.8	871.0	880.5	863.2	860.1	852.6	846.2	828.6
44.5°	785.8	803.8	826.3	845.9	850.6	861.9	844.4	841.0	832.5	826.6	809.5



66.5°	120.8	121.8	124.7	126.7	125.2	127.3	121.8	122.6	120.6	124.9	124.7
67°	115.4	116.2	118.5	119.8	118.2	120.3	115.4	116.2	113.6	118.5	118.7



89°	1.3	1.5	2.6	2.8	0.5	0.8	0.0	0.3	0.3	0.8	1.5
89.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.0

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21.5°	1311.6	1307.5	1303.1	1308.5	1310.3	1314.7
22°	1305.2	1300.8	1296.4	1301.8	1303.6	1308.0



44°	804.4	793.8	782.2	799.7	798.7	805.4
44.5°	786.0	775.2	762.5	779.8	778.8	785.8

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66.5°	122.1	122.6	123.4	128.8	125.7	120.8
67°	116.7	117.2	117.7	122.9	120.0	115.4



89°	1.8	4.4	4.1	5.2	2.6	1.3
89.5°	0.0	2.3	2.3	2.8	1.0	0.3

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(END OF REPORT)