

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: P776049

Luminaire Tested: HCDJBS1525CSD-HCD61TRMW-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B037)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD61TRMW-2500lm-5000K
Description: 6 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

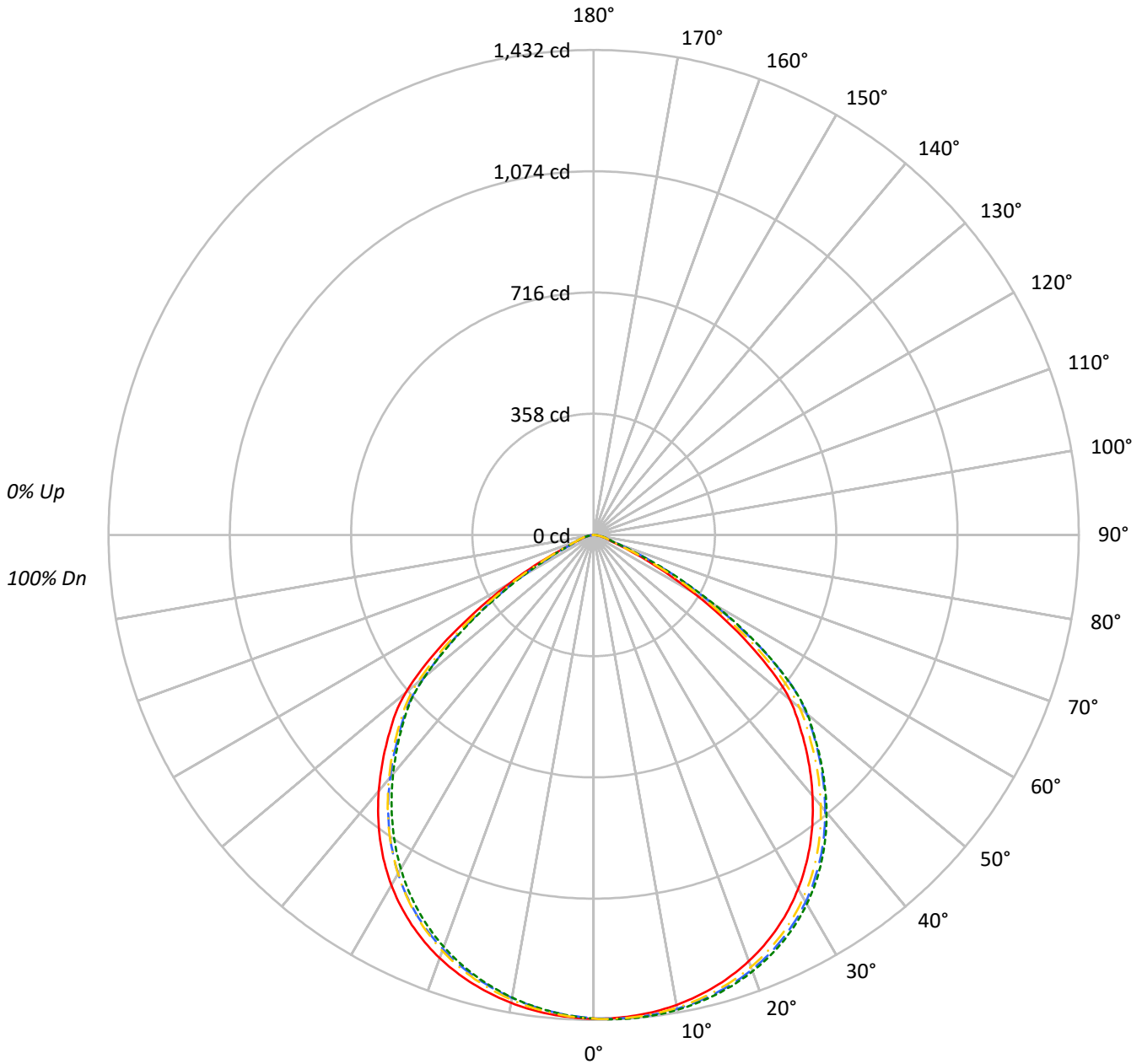
Lumens per Lamp: N/A
Luminaire Lumens: 3151.2 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P776049
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P776049

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34								
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	78283	78283	78283	78283
5°	78395	78791	78225	77784
10°	78455	79274	78110	77203
15°	78389	79694	77923	76487
20°	78127	80005	77555	75490
25°	77521	80067	76855	74073
30°	76392	79658	75594	72062
35°	74566	78554	73562	69332
40°	71942	76522	70611	65924
45°	68534	73574	66875	61937
50°	64475	70241	61661	55504
55°	53169	61188	48438	41461
60°	36894	45007	31631	26116
65°	19976	26579	15099	13361
70°	9505	11284	8319	8271
75°	7646	8642	6333	6672
80°	5777	7072	4325	5051
85°	3585	5661	1761	2893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 75636 cd/sqm



TEST NUMBER: P776049

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	4.3
10°-20°	388.3	12.3
20°-30°	586.8	18.6
30°-40°	690.1	21.9
40°-50°	672.0	21.3
50°-60°	474.0	15.0
60°-70°	158.8	5.0
70°-80°	38.3	1.2
80°-90°	7.6	0.2
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°	1110.3	35.2
0°-40°	1800.4	57.1
0°-60°	2946.5	93.5
0°-90°	3151.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3151.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1428	1428	1428	1428	1428	
5°	1425	1432	1422	1414	1425	136
15°	1381	1404	1373	1348	1381	390
25°	1282	1324	1271	1225	1282	590
35°	1114	1174	1099	1036	1114	696
45°	884	949	863	799	884	681
55°	556	640	507	434	556	493
65°	154	205	116	103	154	165
75°	36	41	30	32	36	39
85°	6	9	3	5	6	7
90°	0	0	0	0	0	



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1428.0	1428.0	1428.0	1428.0	1428.0	1428.0	1428.0	1428.0	1428.0	1428.0	1428.0
0.5°	1428.7	1428.5	1427.7	1426.4	1429.2	1429.5	1429.2	1429.2	1428.5	1427.4	1426.1
1°	1428.7	1428.7	1428.5	1427.4	1430.0	1430.0	1429.8	1429.2	1428.2	1426.9	1425.1
1.5°	1428.7	1429.0	1428.7	1428.2	1430.5	1430.5	1430.0	1429.0	1427.4	1425.9	1424.1
2°	1428.5	1429.0	1429.2	1429.0	1431.0	1430.8	1430.0	1428.7	1426.9	1425.1	1422.8
2.5°	1428.0	1429.0	1429.5	1429.5	1431.6	1430.8	1430.0	1428.5	1426.4	1424.1	1421.8
3°	1427.7	1429.0	1429.8	1430.0	1431.6	1431.0	1430.0	1428.0	1425.4	1423.0	1420.2
3.5°	1426.9	1429.0	1430.0	1430.5	1431.8	1431.0	1429.8	1427.4	1424.6	1421.8	1418.7
4°	1426.4	1428.5	1429.8	1430.8	1431.8	1431.0	1429.5	1426.9	1423.8	1420.5	1417.1
4.5°	1425.4	1428.0	1429.8	1431.0	1432.1	1430.8	1429.2	1425.9	1422.5	1418.9	1415.1
5°	1424.6	1427.4	1429.5	1431.0	1431.8	1430.5	1428.5	1425.1	1421.5	1417.4	1413.5
5.5°	1423.6	1426.9	1429.0	1430.8	1431.6	1430.0	1428.0	1424.1	1420.2	1415.8	1411.4
6°	1422.5	1425.9	1428.7	1430.8	1431.0	1429.5	1427.4	1423.0	1418.7	1414.0	1409.4
6.5°	1421.2	1425.1	1428.0	1430.5	1430.5	1429.0	1426.4	1421.8	1417.1	1412.0	1407.1
7°	1420.0	1424.1	1427.2	1430.0	1430.0	1428.0	1425.6	1420.5	1415.6	1410.1	1404.7
7.5°	1418.4	1423.0	1426.4	1429.5	1429.2	1427.2	1424.6	1418.9	1413.8	1408.1	1402.1
8°	1416.9	1421.8	1425.4	1429.0	1428.5	1426.1	1423.3	1417.4	1412.0	1405.8	1399.8
8.5°	1415.1	1420.5	1424.6	1428.5	1427.4	1425.1	1421.8	1415.8	1409.9	1403.4	1397.0
9°	1413.2	1418.9	1423.3	1427.4	1426.4	1423.8	1420.5	1414.0	1407.8	1400.9	1394.4
9.5°	1411.2	1417.4	1422.0	1426.4	1425.4	1422.5	1419.2	1412.2	1405.5	1398.3	1391.3
10°	1409.4	1415.6	1420.7	1425.4	1424.1	1421.0	1417.4	1409.9	1403.2	1395.7	1388.5
10.5°	1407.1	1413.8	1419.2	1424.3	1422.5	1419.2	1415.6	1407.8	1400.6	1392.9	1385.1
11°	1404.7	1411.7	1417.4	1422.8	1421.0	1417.6	1413.8	1405.5	1398.0	1390.0	1382.0
11.5°	1402.1	1409.6	1415.8	1421.5	1419.2	1415.6	1411.7	1403.2	1395.4	1386.9	1378.7
12°	1399.6	1407.3	1413.8	1420.0	1417.4	1413.8	1409.6	1400.6	1392.6	1383.8	1375.3
12.5°	1396.7	1405.0	1411.7	1418.1	1415.6	1411.7	1407.3	1398.0	1389.5	1380.5	1371.7
13°	1393.9	1402.4	1409.6	1416.3	1413.5	1409.6	1405.0	1395.2	1386.4	1377.1	1367.8
13.5°	1390.8	1400.1	1407.3	1414.5	1411.4	1407.1	1402.4	1392.3	1383.3	1373.5	1364.0
14°	1387.7	1397.2	1405.0	1412.5	1409.1	1404.7	1399.8	1389.2	1380.0	1369.9	1360.1
14.5°	1384.6	1394.4	1402.4	1410.4	1406.5	1402.1	1397.0	1386.2	1376.3	1366.0	1355.7
15°	1381.2	1391.3	1399.8	1407.8	1404.2	1399.6	1394.2	1382.8	1373.0	1362.4	1351.6
15.5°	1377.6	1388.2	1397.0	1405.5	1401.6	1396.5	1391.1	1379.4	1369.1	1358.3	1347.2
16°	1374.0	1384.9	1394.2	1402.9	1398.8	1393.6	1387.7	1375.8	1365.5	1354.2	1342.8
16.5°	1370.2	1381.5	1390.8	1400.6	1395.7	1390.5	1384.6	1372.2	1361.4	1349.8	1338.2
17°	1366.0	1377.9	1388.0	1397.5	1392.9	1387.2	1381.2	1368.3	1357.3	1345.4	1333.3
17.5°	1361.9	1374.3	1384.6	1394.7	1389.5	1383.8	1377.6	1364.2	1352.9	1340.7	1328.4
18°	1357.8	1370.4	1381.2	1391.6	1386.2	1380.5	1373.8	1360.1	1348.5	1336.1	1323.4
18.5°	1353.4	1366.5	1377.6	1388.2	1382.5	1376.6	1369.9	1356.0	1344.1	1331.2	1318.0
19°	1348.7	1362.4	1373.8	1384.9	1379.2	1373.0	1366.0	1351.6	1339.2	1326.3	1312.9
19.5°	1344.1	1358.0	1369.9	1381.5	1375.3	1368.9	1361.9	1346.9	1334.3	1321.1	1307.5
20°	1339.2	1353.6	1365.8	1377.9	1371.4	1364.7	1357.8	1342.3	1329.4	1315.7	1301.8
20.5°	1334.3	1349.3	1361.9	1374.0	1367.3	1360.3	1353.1	1337.4	1324.2	1310.3	1295.8
21°	1329.1	1344.4	1357.5	1370.2	1363.2	1356.0	1348.5	1332.2	1319.1	1304.9	1290.2



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1312.4	1329.4	1343.6	1357.8	1349.5	1341.8	1333.8	1316.5	1302.0	1287.1	1271.6
23°	1306.7	1324.2	1338.7	1353.1	1344.6	1336.9	1328.6	1310.8	1295.8	1280.9	1264.6
23.5°	1300.7	1318.5	1333.5	1348.5	1339.7	1331.7	1323.2	1304.9	1289.9	1274.4	1258.2
24°	1294.5	1312.9	1328.1	1343.8	1334.5	1326.3	1317.5	1298.9	1283.5	1268.0	1251.2
24.5°	1288.4	1306.9	1322.7	1338.7	1329.1	1320.6	1311.8	1292.7	1277.0	1261.0	1244.2
25°	1281.6	1300.7	1317.0	1333.5	1323.7	1314.9	1306.2	1286.6	1270.6	1254.3	1237.0
25.5°	1274.9	1294.5	1311.3	1328.1	1318.0	1309.0	1300.0	1279.8	1263.6	1247.3	1229.3
26°	1268.0	1288.1	1305.1	1322.7	1312.1	1303.1	1293.8	1273.1	1256.6	1240.1	1221.8
26.5°	1261.3	1281.6	1299.2	1317.0	1306.2	1296.6	1287.6	1266.4	1249.4	1232.4	1214.0
27°	1253.8	1274.7	1292.7	1311.1	1300.0	1290.4	1280.9	1259.2	1242.2	1225.1	1206.0
27.5°	1246.6	1268.0	1286.3	1305.1	1293.5	1283.7	1273.9	1252.0	1234.7	1217.4	1198.0
28°	1238.8	1261.0	1279.8	1298.9	1286.8	1276.7	1267.2	1244.7	1226.9	1209.1	1189.5
28.5°	1231.3	1253.5	1272.9	1292.7	1280.1	1269.8	1260.0	1237.3	1218.9	1201.1	1181.3
29°	1223.3	1246.0	1265.9	1286.0	1273.1	1262.6	1252.5	1229.5	1210.9	1192.6	1172.5
29.5°	1215.1	1238.6	1258.4	1279.3	1265.9	1255.1	1245.0	1221.5	1202.4	1184.1	1163.7
30°	1206.8	1230.6	1251.2	1272.4	1258.4	1247.8	1237.5	1213.3	1194.2	1175.3	1154.4
30.5°	1198.6	1222.6	1243.7	1265.1	1250.9	1239.8	1229.3	1205.0	1185.4	1166.3	1145.1
31°	1189.8	1214.6	1235.7	1258.2	1243.2	1231.8	1221.3	1196.5	1176.6	1157.3	1135.9
31.5°	1181.0	1206.0	1227.7	1250.4	1235.2	1223.6	1213.3	1187.7	1167.6	1148.0	1126.1
32°	1172.0	1197.3	1219.5	1242.7	1227.2	1215.3	1204.5	1178.7	1158.3	1138.4	1116.2
32.5°	1162.7	1188.8	1211.2	1234.7	1218.7	1206.8	1195.7	1169.7	1149.0	1128.6	1105.9
33°	1153.4	1179.7	1202.4	1226.7	1210.2	1197.8	1187.0	1160.6	1139.5	1118.8	1095.9
33.5°	1143.9	1170.4	1193.7	1218.2	1201.4	1188.8	1177.9	1151.1	1129.4	1108.5	1085.8
34°	1134.1	1161.4	1184.9	1209.9	1192.6	1179.7	1168.6	1141.3	1119.3	1098.2	1075.0
34.5°	1124.5	1151.9	1175.6	1201.1	1183.3	1170.4	1159.1	1131.5	1109.3	1087.9	1064.4
35°	1114.2	1142.3	1166.3	1192.1	1173.8	1160.9	1149.5	1121.7	1099.2	1077.3	1053.3
35.5°	1104.1	1132.2	1156.8	1183.1	1164.2	1151.3	1139.5	1111.3	1088.6	1066.2	1042.2
36°	1093.3	1122.2	1147.0	1173.8	1154.7	1141.0	1129.7	1101.0	1077.8	1055.4	1030.6
36.5°	1083.0	1112.1	1137.1	1164.2	1144.6	1130.7	1119.3	1090.4	1066.7	1044.0	1019.2
37°	1072.6	1101.8	1126.8	1154.7	1134.3	1120.4	1108.8	1079.9	1055.9	1032.6	1007.6
37.5°	1061.5	1091.5	1117.0	1144.6	1123.7	1109.8	1098.2	1068.8	1044.8	1021.3	996.0
38°	1050.5	1080.6	1106.4	1134.6	1113.4	1099.2	1087.6	1057.7	1033.7	1009.7	983.9
38.5°	1039.4	1069.8	1095.9	1124.2	1102.3	1088.4	1076.5	1046.6	1021.8	997.8	971.5
39°	1028.0	1058.7	1085.0	1113.9	1091.7	1077.0	1065.4	1035.0	1010.2	985.7	959.4
39.5°	1016.9	1047.6	1074.2	1103.1	1080.4	1065.9	1054.1	1023.4	998.6	973.3	947.0
40°	1005.3	1036.5	1063.1	1092.3	1069.3	1054.6	1042.7	1012.0	986.7	961.2	934.3
40.5°	993.4	1024.9	1052.0	1081.2	1057.7	1043.0	1031.1	1000.1	974.8	948.8	922.2
41°	981.8	1013.3	1040.4	1070.1	1046.3	1031.1	1019.5	988.3	962.5	936.1	909.0
41.5°	969.9	1001.7	1028.8	1058.4	1034.7	1019.5	1007.4	975.9	950.3	923.8	896.4
42°	957.8	990.1	1017.2	1047.1	1022.8	1007.6	995.5	963.8	937.9	911.1	883.5
42.5°	945.7	978.2	1005.6	1035.5	1010.7	995.5	983.9	951.6	925.6	898.5	870.6
43°	933.6	966.1	993.4	1023.9	998.6	983.4	971.5	939.2	913.2	885.3	857.2
43.5°	921.4	953.9	981.6	1011.7	986.5	971.2	958.8	926.9	900.5	872.4	844.3



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	884.0	917.0	944.9	975.6	949.0	933.6	921.4	888.7	862.6	834.0	806.1
45.5°	871.4	904.4	932.8	963.2	936.4	920.9	908.8	876.0	850.0	821.6	793.7
46°	858.7	891.8	920.1	950.9	924.0	908.0	895.9	863.4	837.1	808.9	781.6
46.5°	845.8	879.1	907.5	938.2	911.1	895.4	883.0	850.5	824.4	796.3	769.2
47°	833.4	866.7	894.9	925.6	898.2	883.0	870.6	838.1	812.3	784.2	756.0
47.5°	821.1	854.1	882.5	912.9	885.8	870.6	858.2	825.7	799.9	771.0	742.1
48°	808.7	841.4	869.6	900.0	873.7	858.0	845.8	813.3	786.5	756.8	726.9
48.5°	795.8	829.1	857.2	887.6	861.1	846.1	833.2	800.2	772.3	741.3	709.6
49°	783.6	816.7	844.5	875.0	848.7	833.2	820.8	785.5	757.3	724.3	691.3
49.5°	770.0	803.8	832.4	862.1	836.3	820.8	807.6	770.5	740.8	706.0	671.4
50°	756.0	790.9	819.8	849.7	823.6	806.9	793.2	754.5	723.0	686.6	651.5
50.5°	740.8	776.7	806.6	837.3	809.7	792.4	778.2	737.5	704.4	667.5	631.7
51°	723.5	761.5	792.4	824.7	795.0	776.4	762.0	719.1	685.3	647.1	610.8
51.5°	704.2	744.4	777.2	811.3	779.5	758.1	743.9	699.3	664.4	626.5	589.9
52°	684.6	726.4	761.2	796.8	762.0	739.5	724.6	678.1	643.0	605.3	568.4
52.5°	664.2	707.0	743.4	781.6	742.9	720.7	705.5	656.4	621.3	583.9	547.3
53°	643.3	686.6	724.8	765.3	723.8	700.6	684.6	634.2	599.2	561.5	525.9
53.5°	621.6	665.5	704.7	747.8	703.4	680.2	663.7	611.3	576.7	539.3	504.5
54°	600.2	644.6	683.5	728.7	682.8	659.5	642.0	588.6	553.5	517.4	483.3
54.5°	578.3	622.6	661.1	708.3	661.3	638.9	620.1	566.1	530.5	495.2	461.6
55°	556.3	600.4	638.6	686.6	640.2	617.5	597.3	542.4	506.8	472.2	439.7
55.5°	534.1	577.2	615.7	664.4	618.2	595.5	574.9	519.7	483.6	450.0	418.5
56°	512.5	554.3	592.2	641.5	596.1	573.1	552.2	496.5	460.1	427.8	397.1
56.5°	489.7	531.0	568.2	618.2	573.3	550.4	529.2	474.3	437.1	405.6	376.0
57°	467.8	507.3	543.9	594.8	550.4	527.7	506.0	451.8	414.7	384.0	355.3
57.5°	445.6	484.1	520.5	571.0	526.9	505.0	483.3	429.9	392.5	362.3	335.2
58°	423.2	460.3	497.0	547.8	503.9	481.7	460.6	407.7	370.5	340.9	315.1
58.5°	401.2	436.6	473.0	524.3	480.5	458.0	438.1	385.8	348.9	320.2	295.2
59°	379.6	413.9	449.5	501.1	457.0	434.5	415.4	363.8	328.2	299.3	276.1
59.5°	358.1	391.2	426.8	478.4	433.8	411.0	393.2	343.2	308.1	279.4	257.8
60°	336.5	368.7	404.6	455.4	410.5	388.1	371.3	322.0	288.5	259.8	240.2
60.5°	315.3	347.1	382.4	433.0	387.8	365.1	349.6	301.9	269.4	242.6	222.7
61°	295.4	325.6	359.7	410.3	365.6	342.7	328.5	281.5	250.5	225.3	205.1
61.5°	275.1	304.7	338.5	389.1	344.0	320.7	307.6	262.4	233.0	208.2	187.6
62°	256.0	284.4	317.9	366.7	322.3	299.1	286.7	244.6	215.5	190.9	170.0
62.5°	237.4	264.7	297.8	345.5	300.9	277.6	266.3	226.6	197.7	173.7	155.1
63°	219.6	245.9	277.9	324.6	280.2	257.5	248.0	208.7	180.1	158.9	140.9
63.5°	202.0	227.3	258.3	304.0	260.1	238.7	229.4	190.9	162.3	145.3	127.7
64°	185.5	209.8	239.7	283.6	241.5	220.1	210.8	173.1	146.0	132.1	115.6
64.5°	169.5	192.8	221.7	263.5	223.2	201.3	192.5	157.1	130.6	119.7	104.5
65°	154.0	176.8	204.4	244.4	204.9	182.7	173.9	142.2	116.4	108.4	94.7
65.5°	139.3	161.3	187.8	225.8	186.3	166.2	157.1	128.0	103.0	97.8	85.9
66°	125.4	147.3	171.8	207.5	168.0	150.2	141.7	114.8	91.6	88.8	78.7



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	90.6	109.4	128.0	156.6	123.1	109.1	101.7	82.3	66.6	67.1	62.7
68°	83.6	98.6	115.1	141.7	109.7	97.5	91.1	74.3	61.9	62.2	59.1
68.5°	76.9	89.8	103.2	127.2	98.3	87.0	81.8	67.6	59.1	58.1	56.5
69°	69.9	82.8	92.9	114.1	87.5	77.9	74.1	62.2	56.8	55.2	54.2
69.5°	63.0	76.1	85.9	101.7	78.4	70.2	67.3	58.3	54.4	52.9	52.1
70°	59.3	69.2	79.0	90.3	70.4	64.3	62.2	55.5	51.9	50.6	49.8
70.5°	56.8	62.4	72.2	83.1	64.5	59.3	58.3	53.2	49.5	48.3	47.7
71°	54.4	58.1	65.5	75.6	59.6	56.5	55.7	50.8	47.0	46.2	45.7
71.5°	52.1	55.0	58.6	68.4	56.3	54.2	53.4	48.5	44.6	43.9	43.3
72°	49.8	52.6	55.7	61.2	53.9	51.9	51.3	46.2	42.3	41.5	41.3
72.5°	47.2	50.3	53.7	57.3	51.6	49.5	49.0	43.9	40.0	39.5	39.2
73°	44.9	48.0	51.3	55.0	49.5	47.5	46.7	41.5	37.9	37.4	37.2
73.5°	42.6	45.7	49.0	52.6	47.2	45.2	44.6	39.5	35.9	35.4	35.4
74°	40.5	43.3	46.7	50.6	44.9	43.1	42.3	37.2	33.8	33.3	33.3
74.5°	38.2	41.3	44.6	48.3	42.8	40.8	40.3	35.1	31.7	31.2	31.5
75°	36.1	39.0	42.3	45.9	40.8	38.7	38.2	33.0	29.9	29.4	29.7
75.5°	34.1	36.9	40.3	43.9	38.7	36.6	36.1	31.2	28.1	27.6	27.9
76°	32.0	34.8	37.9	41.5	36.6	34.8	34.1	29.2	26.3	25.8	26.3
76.5°	30.2	32.8	36.1	39.5	34.6	32.8	32.3	27.4	24.5	24.0	24.5
77°	28.1	31.0	34.1	37.4	32.8	31.0	30.4	25.5	22.7	22.4	23.0
77.5°	26.3	28.9	32.0	35.4	31.0	29.2	28.6	23.7	21.2	20.9	21.4
78°	24.8	27.1	30.2	33.5	29.2	27.4	26.8	22.2	19.6	19.4	19.9
78.5°	23.0	25.3	28.4	31.5	27.4	25.8	25.0	20.6	18.1	17.5	18.3
79°	21.4	23.7	26.6	29.7	25.5	24.0	23.5	19.1	16.5	16.0	17.0
79.5°	19.9	21.9	24.8	28.1	24.0	22.7	21.9	17.5	15.0	14.7	15.5
80°	18.3	20.4	23.2	26.3	22.4	21.2	20.4	16.0	13.7	13.2	13.9
80.5°	16.8	18.8	21.7	24.5	20.9	19.6	18.8	14.4	12.4	11.9	12.6
81°	15.5	17.3	20.1	23.0	19.4	18.1	17.3	13.2	11.1	10.6	11.6
81.5°	14.2	16.0	18.6	21.4	17.8	16.8	15.7	11.6	9.8	9.3	10.3
82°	12.6	14.4	17.0	19.9	16.3	15.2	14.4	10.6	8.8	8.0	9.0
82.5°	11.4	13.2	15.7	18.6	15.0	13.9	13.2	9.3	7.5	7.0	8.0
83°	10.3	11.9	14.4	17.0	13.7	12.6	11.9	8.0	6.5	5.9	7.0
83.5°	9.0	10.8	13.2	15.7	12.6	11.4	10.6	7.0	5.4	4.9	5.9
84°	8.0	9.5	11.9	14.4	11.4	10.3	9.5	5.9	4.4	3.9	4.9
84.5°	7.0	8.5	10.6	13.2	10.1	9.0	8.3	4.9	3.6	3.1	4.1
85°	5.7	7.2	9.5	11.9	9.0	8.0	7.2	4.1	2.8	2.6	3.4
85.5°	4.6	6.2	8.3	10.6	8.0	7.0	6.2	3.4	2.1	2.1	2.6
86°	3.9	5.2	7.2	9.5	7.0	5.9	5.4	2.8	1.8	1.5	1.8
86.5°	2.8	4.1	6.5	8.5	5.9	4.9	4.4	2.1	1.3	1.0	1.0
87°	2.3	3.4	5.4	7.5	4.9	4.1	3.6	1.5	0.8	0.5	0.5
87.5°	1.8	2.8	4.6	6.5	3.9	3.1	2.8	1.0	0.5	0.3	0.0
88°	1.3	2.3	3.6	5.4	3.1	2.3	2.1	0.5	0.3	0.0	0.0
88.5°	0.8	1.5	2.8	4.4	2.3	1.5	1.3	0.3	0.0	0.0	0.0



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-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	0.8	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1428.0	1428.0	1428.0	1428.0	1428.0	1428.0
0.5°	1424.3	1427.4	1428.0	1428.0	1428.7	1428.7
1°	1423.0	1426.4	1426.9	1427.2	1428.5	1428.7
1.5°	1421.5	1425.1	1425.9	1426.4	1428.0	1428.7
2°	1420.0	1423.8	1424.9	1425.4	1427.4	1428.5
2.5°	1418.4	1422.3	1423.6	1424.3	1426.7	1428.0
3°	1416.6	1420.7	1422.3	1423.3	1425.9	1427.7
3.5°	1414.8	1419.2	1420.7	1421.8	1425.1	1426.9
4°	1413.0	1417.4	1419.2	1420.5	1423.8	1426.4
4.5°	1410.9	1415.6	1417.4	1418.9	1422.8	1425.4
5°	1408.6	1413.5	1415.3	1417.1	1421.5	1424.6
5.5°	1406.3	1411.4	1413.5	1415.3	1420.2	1423.6
6°	1403.7	1409.1	1411.4	1413.5	1418.7	1422.5
6.5°	1401.1	1406.8	1409.4	1411.4	1417.1	1421.2
7°	1398.5	1404.2	1407.1	1409.4	1415.3	1420.0
7.5°	1395.7	1401.6	1404.5	1407.1	1413.5	1418.4
8°	1392.9	1399.1	1401.9	1404.7	1411.7	1416.9
8.5°	1389.8	1396.2	1399.3	1402.1	1409.6	1415.1
9°	1386.7	1393.4	1396.5	1399.6	1407.3	1413.2
9.5°	1383.6	1390.3	1393.6	1396.7	1405.0	1411.2
10°	1380.0	1386.9	1390.5	1393.9	1402.4	1409.4
10.5°	1376.6	1383.8	1387.4	1390.8	1399.8	1407.1
11°	1372.7	1380.2	1384.1	1387.7	1397.0	1404.7
11.5°	1369.1	1376.6	1380.5	1384.3	1394.4	1402.1
12°	1365.3	1373.0	1376.9	1381.0	1391.6	1399.6
12.5°	1361.1	1369.1	1373.2	1377.4	1388.2	1396.7
13°	1356.7	1365.0	1369.4	1373.8	1385.1	1393.9
13.5°	1352.6	1360.9	1365.3	1369.9	1381.5	1390.8
14°	1348.2	1356.7	1361.1	1366.0	1377.9	1387.7
14.5°	1343.6	1352.3	1356.7	1361.6	1374.3	1384.6
15°	1338.9	1347.7	1352.6	1357.8	1370.7	1381.2
15.5°	1334.0	1343.1	1348.0	1353.1	1366.5	1377.6
16°	1329.1	1338.2	1343.3	1348.5	1362.4	1374.0
16.5°	1324.0	1333.3	1338.2	1343.8	1358.0	1370.2
17°	1318.5	1328.1	1333.3	1338.9	1353.6	1366.0
17.5°	1313.4	1322.7	1328.1	1334.0	1349.3	1361.9
18°	1307.7	1317.5	1322.7	1328.9	1344.6	1357.8
18.5°	1302.0	1311.6	1317.3	1323.4	1339.7	1353.4
19°	1296.1	1306.2	1311.6	1318.0	1334.5	1348.7
19.5°	1289.9	1300.2	1305.9	1312.4	1329.4	1344.1
20°	1283.7	1294.0	1300.0	1306.7	1324.2	1339.2
20.5°	1277.5	1288.1	1293.5	1300.7	1318.8	1334.3
21°	1271.1	1281.4	1287.3	1294.5	1313.1	1329.1

TEST NUMBER: P776049

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1250.4	1261.3	1267.7	1275.2	1295.3	1312.4
23°	1243.5	1254.6	1260.5	1268.2	1289.1	1306.7
23.5°	1236.0	1247.3	1253.5	1261.3	1282.7	1300.7
24°	1228.5	1239.8	1246.3	1254.0	1276.2	1294.5
24.5°	1221.0	1232.4	1238.8	1246.8	1269.5	1288.4
25°	1213.0	1224.6	1231.1	1239.6	1262.3	1281.6
25.5°	1205.0	1216.9	1223.1	1231.8	1255.1	1274.9
26°	1197.0	1208.6	1215.3	1224.1	1247.8	1268.0
26.5°	1188.5	1200.6	1207.1	1215.8	1240.4	1261.3
27°	1180.0	1192.1	1198.8	1207.6	1232.6	1253.8
27.5°	1171.5	1183.6	1190.0	1199.6	1224.9	1246.6
28°	1162.7	1174.8	1181.5	1191.1	1216.9	1238.8
28.5°	1153.4	1165.8	1172.8	1182.3	1208.6	1231.3
29°	1144.1	1156.8	1163.5	1173.3	1200.4	1223.3
29.5°	1134.8	1147.5	1154.4	1164.5	1191.6	1215.1
30°	1125.0	1138.4	1144.9	1155.0	1182.8	1206.8
30.5°	1115.5	1128.6	1135.3	1145.9	1174.0	1198.6
31°	1105.4	1118.8	1125.8	1136.1	1165.0	1189.8
31.5°	1095.1	1109.3	1116.2	1126.6	1155.7	1181.0
32°	1084.8	1099.2	1106.2	1116.5	1146.2	1172.0
32.5°	1074.4	1088.9	1095.9	1106.7	1136.6	1162.7
33°	1063.6	1078.8	1086.1	1096.6	1126.8	1153.4
33.5°	1052.8	1068.5	1075.7	1086.3	1116.8	1143.9
34°	1041.9	1057.7	1065.2	1075.7	1106.7	1134.1
34.5°	1030.6	1046.8	1054.3	1065.4	1096.4	1124.5
35°	1019.5	1036.0	1043.7	1054.3	1086.1	1114.2
35.5°	1007.9	1024.9	1032.9	1043.5	1075.5	1104.1
36°	996.5	1013.8	1021.8	1032.4	1064.6	1093.3
36.5°	984.7	1002.7	1011.0	1021.3	1053.8	1083.0
37°	973.0	991.4	999.6	1010.2	1042.5	1072.6
37.5°	960.9	979.7	988.3	998.8	1031.6	1061.5
38°	949.0	968.1	976.9	987.2	1020.3	1050.5
38.5°	936.4	956.8	965.3	975.4	1008.9	1039.4
39°	924.5	944.7	953.9	964.0	997.0	1028.0
39.5°	911.9	932.8	942.3	952.4	985.4	1016.9
40°	899.5	921.2	930.5	940.5	973.8	1005.3
40.5°	887.1	909.3	918.6	928.4	961.9	993.4
41°	874.5	896.9	906.5	916.5	950.1	981.8
41.5°	861.6	884.8	894.6	904.4	937.7	969.9
42°	848.9	872.7	882.5	892.3	925.8	957.8
42.5°	836.0	860.5	870.3	880.1	913.4	945.7
43°	823.6	848.4	858.2	868.0	901.3	933.6
43.5°	810.7	835.8	846.1	855.4	888.9	921.4



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	774.4	798.9	809.2	818.2	851.5	884.0
45.5°	762.2	786.7	796.8	805.8	838.6	871.4
46°	749.3	774.4	784.7	793.7	826.2	858.7
46.5°	735.9	762.2	772.3	781.1	813.6	845.8
47°	721.5	749.8	760.4	768.9	801.4	833.4
47.5°	704.9	736.2	747.8	756.6	789.1	821.1
48°	686.9	722.5	734.1	743.1	776.7	808.7
48.5°	667.3	707.0	719.9	729.2	764.0	795.8
49°	647.1	689.7	705.5	715.0	750.6	783.6
49.5°	626.8	670.9	687.7	698.5	736.9	770.0
50°	606.4	650.8	669.1	680.2	722.0	756.0
50.5°	585.0	629.9	648.2	660.0	704.9	740.8
51°	563.5	609.0	627.5	639.4	685.9	723.5
51.5°	542.1	587.3	605.6	618.2	665.5	704.2
52°	520.5	565.9	584.4	596.6	644.8	684.6
52.5°	499.3	543.7	562.8	574.6	623.9	664.2
53°	477.6	521.0	540.3	552.7	603.0	643.3
53.5°	456.7	499.0	517.1	530.0	581.3	621.6
54°	435.6	476.8	495.2	507.8	559.7	600.2
54.5°	414.4	455.7	472.7	485.6	537.7	578.3
55°	393.8	433.8	450.0	464.5	515.5	556.3
55.5°	373.1	412.3	428.3	442.5	493.6	534.1
56°	353.2	391.4	406.7	421.1	471.7	512.5
56.5°	334.2	370.5	385.2	400.2	450.0	489.7
57°	314.3	350.2	364.3	379.8	428.3	467.8
57.5°	295.2	330.3	343.7	358.7	407.2	445.6
58°	276.1	310.4	323.6	338.5	386.0	423.2
58.5°	258.5	291.6	304.7	319.4	365.1	401.2
59°	241.3	273.3	286.2	300.1	345.2	379.6
59.5°	224.2	255.2	268.4	281.5	325.4	358.1
60°	206.9	238.2	250.8	263.5	306.0	336.5
60.5°	189.9	220.9	234.0	245.6	287.2	315.3
61°	172.6	204.6	217.8	228.6	268.1	295.4
61.5°	157.7	189.4	202.6	211.8	249.8	275.1
62°	143.2	174.9	187.6	196.4	232.0	256.0
62.5°	130.0	160.8	173.4	181.1	214.7	237.4
63°	117.7	147.6	160.0	166.4	197.9	219.6
63.5°	106.8	135.2	147.3	153.0	182.2	202.0
64°	96.5	123.6	135.5	140.1	166.7	185.5
64.5°	87.7	112.8	123.9	128.2	151.7	169.5
65°	80.5	103.0	113.5	116.9	137.8	154.0
65.5°	74.1	93.7	103.7	106.6	124.9	139.3
66°	68.6	87.2	94.7	97.0	113.3	125.4



TEST NUMBER: P776049

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	57.0	68.1	75.1	75.1	86.7	90.6
68°	55.0	61.7	68.6	70.7	80.8	83.6
68.5°	52.6	58.1	62.2	66.1	74.6	76.9
69°	50.6	55.7	58.3	61.4	68.6	69.9
69.5°	48.5	53.7	55.7	56.8	62.4	63.0
70°	46.4	51.6	53.7	54.7	58.6	59.3
70.5°	44.4	49.3	51.6	52.4	55.7	56.8
71°	42.3	47.2	49.5	50.3	53.4	54.4
71.5°	40.3	45.2	47.5	48.3	51.1	52.1
72°	38.2	43.1	45.2	46.2	48.8	49.8
72.5°	36.4	41.0	43.1	44.1	46.7	47.2
73°	34.6	39.0	41.0	42.1	44.4	44.9
73.5°	32.5	37.2	39.2	40.0	42.3	42.6
74°	30.7	35.1	37.2	37.9	40.0	40.5
74.5°	29.2	33.3	35.4	35.9	37.9	38.2
75°	27.4	31.5	33.5	34.1	35.9	36.1
75.5°	25.8	29.7	31.7	32.3	33.8	34.1
76°	24.0	28.1	29.9	30.4	32.0	32.0
76.5°	22.4	26.3	28.1	28.6	29.9	30.2
77°	21.2	24.8	26.6	26.8	28.1	28.1
77.5°	19.6	23.2	24.8	25.0	26.3	26.3
78°	18.3	21.7	23.2	23.5	24.5	24.8
78.5°	16.8	20.1	21.7	21.9	23.0	23.0
79°	15.5	18.8	20.1	20.4	21.4	21.4
79.5°	14.2	17.3	18.8	18.8	19.6	19.9
80°	12.9	16.0	17.3	17.5	18.3	18.3
80.5°	11.6	14.7	16.0	16.0	16.8	16.8
81°	10.6	13.4	14.7	14.7	15.2	15.5
81.5°	9.3	12.1	13.4	13.4	13.9	14.2
82°	8.3	11.1	12.1	12.1	12.6	12.6
82.5°	7.2	9.8	11.1	11.1	11.4	11.4
83°	6.2	8.8	9.8	9.8	10.1	10.3
83.5°	5.2	7.7	8.8	8.8	8.8	9.0
84°	4.1	6.7	7.7	7.7	7.7	8.0
84.5°	3.1	5.7	6.7	6.7	6.7	7.0
85°	2.3	4.6	5.7	5.7	5.4	5.7
85.5°	1.5	3.6	4.6	4.6	4.6	4.6
86°	0.8	2.6	3.6	3.9	3.9	3.9
86.5°	0.3	1.8	2.8	2.8	3.1	2.8
87°	0.0	1.0	1.8	2.1	2.3	2.3
87.5°	0.0	0.5	1.0	1.3	1.8	1.8
88°	0.0	0.0	0.5	0.5	1.3	1.3
88.5°	0.0	0.0	0.0	0.3	0.8	0.8



TEST NUMBER: P776049
CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

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



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Scaled Data Report





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

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21.5°	1323.7	1339.4	1352.9	1366.3	1358.8	1351.3	1343.8	1327.3	1313.4	1298.9	1284.0
22°	1318.0	1334.5	1348.2	1362.2	1354.4	1346.9	1338.9	1321.9	1307.7	1293.3	1277.8



44°	909.3	941.8	969.7	1000.1	974.1	958.6	946.5	914.2	887.9	859.5	831.4
44.5°	896.4	929.2	957.0	988.0	961.4	946.5	933.8	901.6	875.0	846.9	818.7



66.5°	112.8	133.7	156.6	190.4	152.0	135.7	127.0	103.0	81.5	80.5	72.5
67°	101.4	121.0	141.9	172.9	136.8	121.8	113.8	91.9	73.3	73.3	67.1



89°	0.5	1.0	2.1	3.6	1.5	0.8	0.5	0.0	0.0	0.0	0.0
89.5°	0.3	0.5	1.3	2.6	0.8	0.3	0.3	0.0	0.0	0.0	0.0

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21.5°	1264.4	1274.9	1280.9	1288.1	1307.5	1323.7
22°	1257.4	1268.5	1274.4	1281.6	1301.5	1318.0



44°	798.6	823.4	833.7	843.3	876.5	909.3
44.5°	786.5	811.0	821.3	830.6	863.9	896.4



66.5°	64.0	80.8	88.2	88.2	102.4	112.8
67°	60.1	74.3	81.5	80.8	92.9	101.4

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89°	0.0	0.0	0.0	0.0	0.3	0.5
89.5°	0.0	0.0	0.0	0.0	0.0	0.3

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(END OF REPORT)