

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: P776037

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B041)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K
Description: 6 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037.3 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

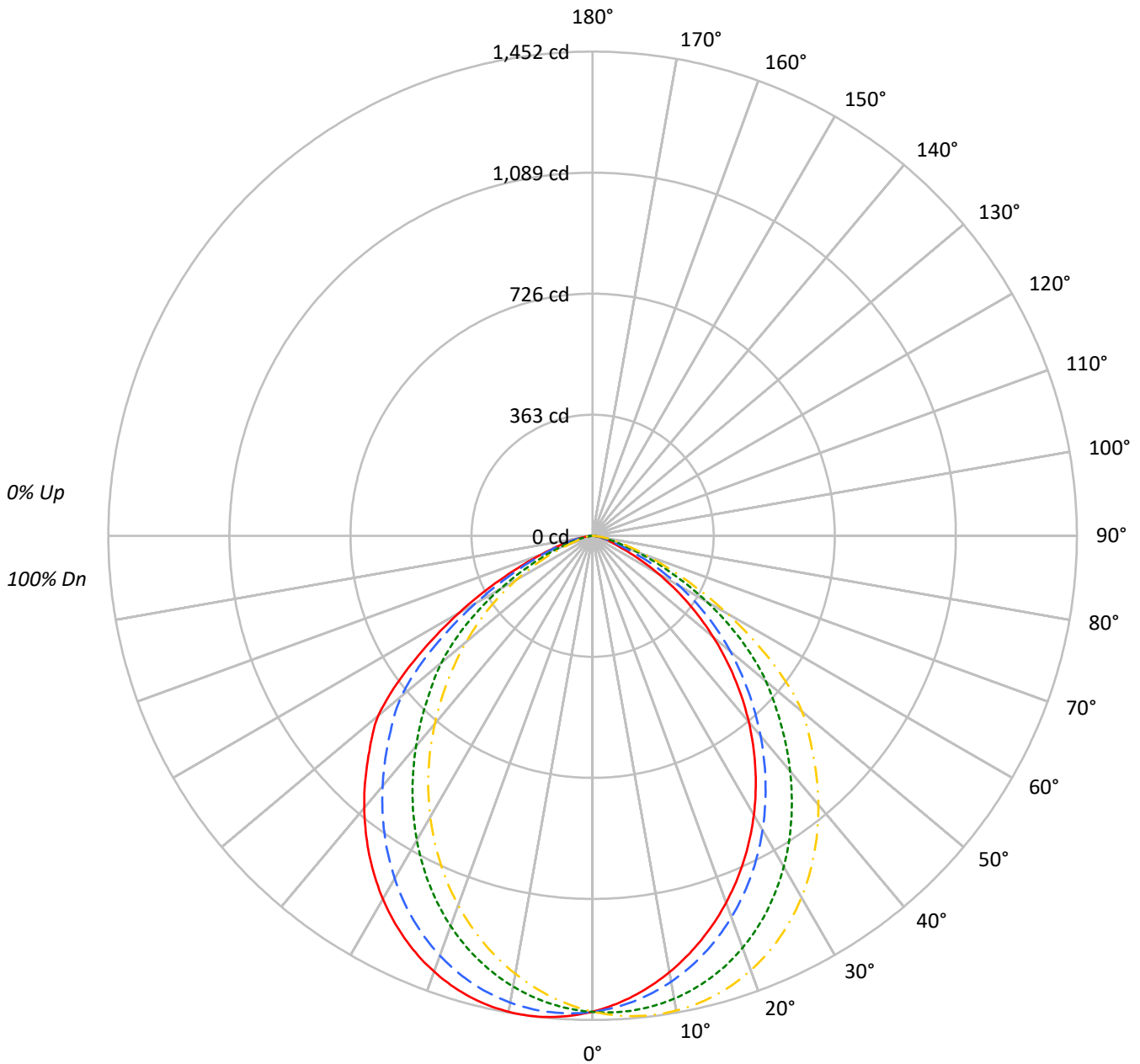
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

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	101	99	100	98	95	97	94	93	93	91	90	88				
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76				
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66				
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58				
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51				
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	78256	78256	78256	78256
5°	76293	78599	79727	77575
10°	73952	78461	80704	76424
15°	71283	77861	81175	74785
20°	68303	76698	81131	72643
25°	64945	74944	80630	69935
30°	61187	72536	79620	66732
35°	56918	69506	78133	63015
40°	52090	65931	76229	58932
45°	46594	61898	73930	54626
50°	40289	57823	71494	50429
55°	33098	51764	62574	43975
60°	25020	43242	50643	35271
65°	16422	33181	37890	26021
70°	10899	23225	26158	17519
75°	8705	14975	18173	11099
80°	6409	9187	10923	6566
85°	3459	5346	2390	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 74434 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	4.4
10°-20°	378.4	12.5
20°-30°	552.2	18.2
30°-40°	625.0	20.6
40°-50°	591.3	19.5
50°-60°	448.9	14.8
60°-70°	224.9	7.4
70°-80°	71.2	2.3
80°-90°	10.8	0.4
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°	1065.1	35.1
0°-40°	1690.0	55.6
0°-60°	2730.3	89.9
0°-90°	3037.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1428	1428	1428	1428	1428	
5°	1386	1428	1449	1410	1386	131
15°	1256	1372	1430	1318	1256	353
25°	1074	1239	1333	1156	1074	493
35°	850	1039	1168	942	850	531
45°	601	798	954	705	601	462
55°	346	542	655	460	346	310
65°	127	256	292	201	127	131
75°	41	71	86	52	41	44
85°	6	8	4	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1427.5	1427.5	1427.5	1427.5	1427.5	1427.5	1427.5	1427.5	1427.5	1427.5	1427.5
0.5°	1424.0	1425.0	1426.0	1426.8	1429.0	1429.3	1429.8	1430.0	1430.3	1430.3	1429.3
1°	1420.5	1422.3	1424.0	1426.3	1429.8	1431.0	1432.3	1433.0	1433.0	1432.5	1430.5
1.5°	1417.0	1419.2	1422.0	1425.3	1430.3	1432.8	1434.8	1435.8	1435.8	1434.5	1431.8
2°	1413.2	1416.0	1419.7	1424.3	1430.5	1434.0	1436.8	1438.3	1438.1	1436.5	1432.5
2.5°	1409.0	1412.5	1417.2	1423.0	1430.5	1435.3	1438.8	1440.6	1440.6	1438.3	1433.5
3°	1405.0	1409.0	1414.5	1421.5	1430.5	1436.3	1440.8	1442.8	1442.3	1439.6	1434.0
3.5°	1400.7	1405.2	1411.7	1419.7	1430.3	1437.3	1442.3	1444.8	1444.3	1440.8	1434.3
4°	1395.9	1401.2	1408.7	1418.0	1429.8	1437.8	1443.8	1446.6	1446.1	1442.1	1434.5
4.5°	1391.4	1396.9	1405.5	1416.0	1429.3	1438.3	1445.1	1448.3	1447.6	1442.8	1434.5
5°	1386.4	1392.7	1401.9	1413.7	1428.3	1438.6	1446.1	1449.6	1448.8	1443.6	1434.3
5.5°	1381.4	1387.9	1398.4	1411.2	1427.3	1438.8	1446.8	1450.8	1449.8	1444.1	1434.0
6°	1376.1	1383.1	1394.4	1408.7	1426.0	1438.6	1447.6	1451.8	1450.6	1444.3	1433.3
6.5°	1370.9	1378.4	1390.7	1406.0	1424.8	1438.3	1448.1	1452.6	1451.3	1444.3	1432.5
7°	1365.3	1373.4	1386.4	1402.9	1423.0	1437.8	1448.3	1453.1	1451.6	1444.3	1431.5
7.5°	1359.6	1368.1	1382.1	1399.7	1421.3	1437.0	1448.3	1453.3	1451.8	1443.8	1430.3
8°	1353.5	1362.6	1377.6	1396.2	1419.2	1436.3	1448.3	1453.6	1451.8	1443.3	1429.0
8.5°	1347.5	1357.1	1372.9	1392.7	1417.2	1435.3	1448.1	1453.6	1451.6	1442.6	1427.3
9°	1341.5	1351.5	1367.8	1388.9	1414.7	1434.3	1447.3	1453.3	1451.3	1441.8	1425.5
9.5°	1335.0	1345.5	1362.8	1385.1	1412.2	1432.8	1446.8	1452.8	1450.6	1440.6	1423.8
10°	1328.5	1339.5	1357.8	1380.9	1409.5	1431.3	1445.8	1452.1	1449.8	1439.3	1421.5
10.5°	1322.0	1333.2	1352.3	1376.6	1406.7	1429.3	1444.8	1451.3	1448.8	1437.6	1419.2
11°	1315.2	1327.0	1346.5	1372.1	1403.4	1427.3	1443.6	1450.3	1447.3	1436.0	1416.7
11.5°	1308.2	1320.5	1340.8	1367.3	1400.2	1425.3	1442.1	1448.8	1446.1	1434.0	1414.0
12°	1301.1	1313.7	1335.0	1362.3	1396.7	1422.8	1440.3	1447.6	1444.3	1432.0	1411.2
12.5°	1293.9	1306.9	1328.7	1357.6	1393.2	1420.2	1438.3	1445.8	1442.6	1429.8	1408.0
13°	1286.6	1299.9	1322.5	1352.0	1389.2	1417.5	1436.3	1443.8	1440.6	1427.3	1404.7
13.5°	1279.1	1292.9	1315.9	1346.8	1385.1	1414.7	1434.0	1441.8	1438.1	1424.5	1401.4
14°	1271.6	1285.6	1309.4	1341.3	1380.9	1411.5	1431.5	1439.6	1435.8	1421.5	1397.7
14.5°	1263.8	1278.3	1302.6	1335.5	1376.4	1408.2	1428.8	1437.0	1433.0	1418.5	1393.9
15°	1256.0	1270.6	1295.6	1329.2	1371.9	1404.5	1426.0	1434.3	1430.3	1415.2	1389.9
15.5°	1248.0	1262.8	1288.4	1323.2	1366.8	1400.9	1423.0	1431.5	1427.3	1411.7	1385.6
16°	1240.0	1255.0	1281.3	1316.7	1361.8	1396.9	1419.7	1428.3	1423.8	1408.0	1381.1
16.5°	1231.7	1247.0	1273.8	1310.4	1356.8	1392.9	1416.2	1425.0	1420.5	1404.2	1376.6
17°	1223.2	1239.0	1266.0	1303.4	1351.5	1388.7	1412.7	1421.8	1416.7	1400.2	1371.9
17.5°	1214.9	1230.7	1258.3	1296.6	1345.8	1384.1	1408.7	1418.0	1413.0	1395.9	1367.1
18°	1206.1	1222.2	1250.5	1289.6	1339.8	1379.6	1404.7	1414.0	1408.7	1391.4	1361.8
18.5°	1197.6	1213.9	1242.2	1282.3	1334.0	1374.6	1400.4	1410.0	1404.7	1386.6	1356.6
19°	1188.6	1205.1	1234.2	1274.8	1327.7	1369.6	1395.9	1405.7	1400.2	1381.9	1351.0
19.5°	1179.5	1196.6	1225.7	1267.0	1321.5	1364.3	1391.4	1401.2	1395.4	1377.1	1345.3
20°	1170.8	1187.6	1217.4	1259.5	1314.7	1358.8	1386.9	1396.4	1390.7	1371.9	1339.5
20.5°	1161.2	1178.5	1208.6	1251.5	1307.9	1353.0	1381.9	1391.7	1385.6	1366.3	1333.2
21°	1151.9	1169.2	1199.8	1243.5	1301.1	1347.5	1376.6	1386.6	1380.6	1360.8	1327.2



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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°	1123.6	1141.2	1172.5	1217.9	1279.3	1328.7	1359.8	1370.6	1364.1	1343.3	1307.7
23°	1113.8	1131.4	1163.2	1209.1	1271.6	1322.2	1354.1	1364.8	1358.1	1337.0	1300.6
23.5°	1104.1	1121.9	1154.0	1200.1	1263.8	1315.4	1348.0	1358.8	1352.0	1330.5	1293.6
24°	1094.0	1112.1	1144.2	1191.1	1255.8	1308.4	1341.5	1352.8	1346.0	1323.7	1286.3
24.5°	1083.7	1102.0	1134.1	1181.5	1247.5	1301.1	1335.0	1346.5	1339.3	1316.9	1278.8
25°	1073.7	1091.8	1124.4	1172.3	1239.0	1294.1	1328.5	1340.0	1333.0	1310.2	1271.3
25.5°	1063.4	1081.7	1114.6	1162.7	1230.4	1286.3	1321.7	1333.5	1326.0	1303.1	1263.5
26°	1053.2	1071.5	1104.6	1152.9	1221.9	1278.6	1314.7	1326.7	1319.2	1295.6	1255.8
26.5°	1042.6	1061.2	1093.8	1142.9	1212.9	1270.8	1307.4	1319.4	1311.9	1288.4	1247.7
27°	1032.1	1050.6	1083.7	1133.1	1203.6	1262.8	1299.9	1312.4	1304.9	1280.6	1239.5
27.5°	1021.3	1039.9	1073.2	1122.9	1194.6	1254.5	1292.6	1305.2	1297.4	1273.1	1231.2
28°	1010.5	1029.1	1062.7	1112.6	1185.0	1246.0	1284.8	1297.6	1289.6	1265.3	1222.4
28.5°	999.7	1018.3	1051.6	1102.0	1175.5	1237.5	1276.8	1289.9	1281.8	1257.0	1213.9
29°	989.0	1007.8	1040.9	1091.8	1166.0	1228.9	1268.8	1282.3	1273.8	1248.7	1205.1
29.5°	977.9	996.7	1030.1	1081.2	1156.0	1219.6	1260.8	1274.1	1265.8	1240.5	1196.1
30°	966.6	985.4	1019.3	1070.5	1145.9	1210.9	1252.2	1266.0	1257.8	1231.9	1186.8
30.5°	955.4	974.4	1007.8	1059.4	1135.9	1201.3	1243.5	1257.8	1249.5	1223.2	1177.5
31°	944.1	963.1	996.7	1048.6	1125.6	1191.8	1234.7	1249.5	1241.0	1214.4	1168.2
31.5°	932.8	951.8	985.2	1037.4	1115.1	1182.0	1225.9	1240.7	1231.9	1205.4	1158.5
32°	921.3	940.6	973.9	1026.1	1104.3	1172.8	1216.9	1231.9	1223.4	1196.3	1148.9
32.5°	909.7	929.0	962.4	1015.0	1093.8	1162.7	1207.9	1222.9	1214.6	1187.1	1139.2
33°	897.9	917.2	951.1	1003.8	1083.2	1152.4	1198.3	1213.9	1205.4	1177.8	1129.4
33.5°	886.4	905.7	939.3	992.0	1072.2	1142.4	1188.8	1204.9	1196.1	1168.2	1119.6
34°	874.6	894.2	927.8	980.7	1061.2	1132.1	1179.0	1195.6	1186.5	1158.5	1109.1
34.5°	862.6	882.4	915.7	968.9	1049.6	1121.4	1169.2	1185.8	1177.0	1148.7	1098.8
35°	850.5	870.4	904.2	957.1	1038.6	1110.8	1159.5	1176.3	1167.5	1138.9	1088.5
35.5°	838.8	858.6	891.9	945.6	1027.3	1100.3	1149.2	1166.5	1158.0	1129.1	1078.2
36°	826.7	846.5	880.4	933.8	1015.8	1089.3	1139.2	1156.7	1148.2	1118.8	1067.4
36.5°	814.7	834.5	868.3	921.8	1004.3	1078.2	1128.9	1146.7	1137.9	1109.1	1056.9
37°	802.4	822.2	855.8	909.7	992.5	1067.2	1118.3	1136.4	1127.9	1098.5	1046.1
37.5°	790.1	810.2	844.0	897.7	980.7	1055.9	1107.6	1126.1	1117.6	1088.3	1035.1
38°	777.6	797.9	832.0	885.6	969.1	1044.6	1097.0	1115.8	1107.3	1077.5	1024.1
38.5°	765.5	785.9	819.7	873.6	957.1	1033.1	1086.0	1105.3	1097.0	1067.2	1013.5
39°	753.5	773.3	807.7	861.3	945.3	1021.6	1075.2	1094.8	1086.2	1056.4	1002.2
39.5°	740.7	761.3	795.4	849.3	933.5	1010.0	1064.2	1084.0	1076.0	1045.6	991.2
40°	727.9	748.7	783.3	837.0	921.3	998.2	1052.9	1073.2	1065.2	1034.8	979.7
40.5°	715.6	736.2	770.6	824.7	908.7	986.7	1041.6	1062.2	1054.2	1024.1	968.6
41°	703.1	723.7	758.5	812.4	896.7	974.4	1030.1	1051.1	1043.4	1012.8	957.1
41.5°	690.3	711.4	746.0	799.9	884.9	962.6	1018.8	1040.1	1032.6	1002.0	945.8
42°	677.5	698.6	733.7	787.9	872.1	950.6	1007.3	1028.8	1021.3	990.7	934.3
42.5°	665.0	686.3	721.7	775.6	860.3	938.8	995.7	1017.5	1010.3	979.7	922.8
43°	652.5	673.8	709.1	763.3	847.8	926.8	983.9	1006.3	999.0	968.1	911.2
43.5°	639.7	661.2	696.8	751.0	835.8	914.7	972.4	995.0	988.0	956.9	899.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	601.0	623.4	659.7	714.1	798.4	878.1	936.6	960.1	953.6	922.8	864.8
45.5°	588.3	611.1	647.9	702.1	786.9	865.8	924.8	948.6	942.3	911.2	853.3
46°	575.5	598.3	635.4	689.8	774.1	853.3	912.7	937.1	930.8	900.2	842.0
46.5°	562.2	586.0	623.4	677.8	761.8	841.5	901.2	925.8	920.0	889.2	831.0
47°	549.1	573.2	611.1	665.7	749.5	829.5	889.7	914.5	909.2	878.4	820.0
47.5°	536.6	560.7	599.0	653.7	738.0	817.7	878.4	903.7	898.2	867.3	808.7
48°	523.8	548.4	586.8	641.7	725.7	806.2	866.8	892.7	887.4	856.6	797.9
48.5°	511.0	535.9	574.7	630.1	714.1	794.6	855.8	881.6	876.4	845.3	786.4
49°	498.0	523.6	562.7	618.3	702.1	782.6	844.0	870.1	864.8	833.2	774.6
49.5°	485.5	511.3	550.9	606.6	690.1	770.8	832.2	858.6	852.6	820.5	761.5
50°	472.4	498.7	539.1	594.3	678.0	758.5	819.5	845.0	838.3	806.4	748.5
50.5°	459.6	486.5	526.8	582.7	666.0	745.2	805.4	830.5	823.2	790.6	733.7
51°	446.3	474.4	515.0	570.5	653.2	731.2	790.9	814.4	805.4	774.1	718.9
51.5°	434.0	462.1	503.3	558.2	639.9	717.4	775.6	797.6	788.4	757.0	702.6
52°	421.3	449.8	491.2	545.9	626.9	702.4	759.0	779.6	770.6	739.2	685.8
52.5°	408.7	437.8	479.4	533.1	612.8	687.1	742.0	761.0	751.5	720.7	668.5
53°	396.2	425.8	467.4	520.6	598.5	671.5	724.2	742.2	733.2	702.1	651.4
53.5°	383.6	413.7	455.1	507.8	584.7	655.5	706.1	723.4	713.4	683.0	633.6
54°	370.9	401.7	443.1	494.5	570.2	638.9	688.3	704.6	693.6	664.0	616.1
54.5°	358.6	389.7	431.0	481.9	556.4	622.9	669.8	685.0	674.0	644.9	598.3
55°	346.3	377.9	419.0	469.4	541.6	606.3	651.4	666.0	654.7	625.9	580.7
55.5°	333.7	366.1	406.5	456.4	527.3	589.8	632.4	646.7	634.6	606.3	562.4
56°	322.0	354.1	394.4	443.3	512.5	572.5	613.8	627.1	614.6	586.5	544.6
56.5°	309.7	342.0	382.4	430.3	498.0	555.4	594.8	607.6	595.3	567.4	526.6
57°	297.6	330.2	370.1	417.2	482.9	538.4	576.5	587.8	575.5	548.6	509.0
57.5°	285.6	318.5	357.8	404.2	468.7	521.6	557.4	568.5	556.2	529.1	491.0
58°	274.1	306.9	346.0	391.2	453.6	504.3	539.6	549.1	537.4	510.0	473.4
58.5°	262.5	295.1	333.7	378.4	438.8	487.5	520.8	530.1	518.0	491.5	456.1
59°	250.8	283.8	322.0	365.1	423.8	470.4	502.3	511.0	499.0	473.4	438.6
59.5°	239.5	272.3	309.9	352.3	409.5	453.6	484.2	492.0	480.2	454.9	421.3
60°	228.2	261.0	298.4	339.8	394.4	437.1	466.1	473.4	461.9	437.1	405.0
60.5°	216.9	249.5	286.6	327.0	379.9	420.3	447.8	455.1	443.8	419.5	388.2
61°	205.9	238.7	274.8	314.2	365.1	404.2	430.3	437.1	425.8	402.7	372.1
61.5°	195.3	227.7	263.5	301.7	351.1	388.4	413.0	419.0	408.2	385.9	356.6
62°	184.6	216.9	252.5	289.4	336.5	372.9	396.4	401.7	390.9	369.6	341.3
62.5°	174.0	206.1	241.0	277.1	322.7	357.1	378.6	384.1	373.9	353.6	326.0
63°	164.0	195.8	229.9	264.8	308.7	341.3	362.1	367.1	357.6	337.5	311.2
63.5°	154.2	185.3	218.9	252.8	295.1	326.7	345.8	350.5	340.5	322.5	297.1
64°	144.4	175.3	207.9	240.7	281.6	311.4	330.5	334.5	323.7	308.4	283.6
64.5°	135.4	165.5	197.1	228.9	268.6	296.9	314.7	318.5	307.7	293.9	270.3
65°	126.6	156.0	186.6	217.4	255.8	282.8	299.4	303.4	292.1	280.1	257.3
65.5°	117.9	146.2	176.0	206.4	243.5	269.1	284.9	288.4	276.1	266.3	245.0
66°	109.8	137.2	165.5	194.8	231.2	255.3	270.8	273.6	261.0	253.3	232.9



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	88.8	110.6	135.9	163.0	196.6	218.4	230.9	232.9	220.7	217.4	200.6
68°	84.3	102.3	126.6	153.2	185.1	206.9	219.4	220.9	208.6	205.9	189.8
68.5°	79.5	94.5	117.6	143.2	174.8	195.3	207.9	209.1	196.3	194.3	179.0
69°	75.0	88.3	109.1	133.9	164.5	183.8	196.3	197.3	184.1	183.0	169.5
69.5°	70.2	82.2	100.8	124.4	154.5	172.8	184.6	185.6	173.3	172.8	160.0
70°	68.0	76.2	93.3	116.1	144.9	162.7	174.3	175.5	163.2	163.0	151.0
70.5°	65.4	70.0	87.3	107.8	135.9	153.2	164.7	165.7	153.7	154.0	142.7
71°	62.7	63.9	81.2	99.8	127.4	143.9	155.2	156.2	144.7	144.9	134.4
71.5°	59.9	61.2	75.0	92.5	118.9	134.9	145.9	146.9	135.9	136.4	126.4
72°	56.9	58.7	69.0	86.5	110.8	126.9	137.4	138.7	127.6	128.1	118.9
72.5°	54.2	56.2	62.9	80.5	103.1	118.6	129.4	130.4	119.9	120.6	111.6
73°	51.4	53.4	58.2	74.5	96.0	111.1	121.6	122.9	112.3	112.8	104.6
73.5°	48.6	50.9	53.9	68.2	89.3	103.8	113.8	115.3	105.6	106.1	98.0
74°	46.1	48.4	50.2	62.2	82.7	97.0	107.1	108.3	98.5	99.3	91.8
74.5°	43.4	45.9	46.9	57.4	76.5	90.3	100.3	101.6	92.0	92.8	85.8
75°	41.1	43.4	43.9	52.9	70.7	84.0	94.0	95.0	85.8	86.8	79.7
75.5°	38.6	41.1	41.4	48.6	65.4	78.2	87.8	89.0	79.7	80.7	74.2
76°	36.4	38.6	38.9	44.9	60.2	72.5	81.7	83.0	73.7	75.0	69.0
76.5°	34.1	36.4	36.9	41.1	55.4	67.2	76.2	77.2	68.2	69.7	63.9
77°	31.8	34.1	34.6	37.9	50.9	62.2	70.7	72.0	62.7	64.4	59.2
77.5°	29.8	32.1	32.6	34.9	46.6	57.4	65.7	66.7	57.7	59.4	54.7
78°	27.6	29.8	30.6	32.1	42.6	52.9	60.7	61.7	52.7	54.7	50.2
78.5°	25.8	27.8	28.6	29.3	38.9	48.4	55.9	56.9	47.6	50.4	45.9
79°	23.8	25.8	26.8	26.8	35.4	44.4	51.4	52.2	43.1	45.9	41.9
79.5°	22.1	23.8	25.1	24.6	32.1	40.4	47.1	47.9	38.9	41.9	38.1
80°	20.3	22.1	23.3	22.6	29.1	36.6	42.9	43.6	34.6	37.9	34.4
80.5°	18.6	20.3	21.6	20.6	26.3	33.1	38.9	39.6	30.3	34.1	30.8
81°	16.8	18.6	19.8	18.8	23.8	29.8	35.1	35.9	26.8	30.6	27.6
81.5°	15.3	17.1	18.3	17.3	21.6	26.8	31.3	32.1	23.6	27.3	24.8
82°	13.8	15.3	16.8	15.8	19.3	24.1	27.8	28.8	20.1	24.6	22.1
82.5°	12.3	13.8	15.3	14.3	17.1	21.6	25.1	25.8	16.5	21.8	19.3
83°	10.8	12.3	13.8	13.0	14.8	19.1	22.3	23.1	13.3	19.1	16.5
83.5°	9.3	10.8	12.3	11.8	13.0	16.5	19.6	20.3	10.5	16.0	13.8
84°	8.0	9.3	11.0	10.5	11.3	14.0	16.5	17.3	7.8	13.3	11.8
84.5°	6.8	8.0	9.8	9.3	9.8	12.0	13.8	14.5	5.5	11.0	9.8
85°	5.5	6.8	8.5	8.3	8.5	10.0	11.5	11.8	3.8	9.0	8.0
85.5°	4.3	5.5	7.5	7.3	7.3	8.5	9.5	9.5	2.5	7.0	6.3
86°	3.3	4.5	6.3	6.3	6.0	6.8	7.8	7.3	1.8	5.3	4.8
86.5°	2.8	3.5	5.0	5.0	5.0	5.5	6.0	5.5	1.5	3.8	3.5
87°	2.0	2.8	4.0	4.0	4.0	4.3	4.5	4.0	1.0	2.5	2.5
87.5°	1.5	2.0	3.0	3.0	3.3	3.3	3.3	2.8	0.8	1.5	1.5
88°	1.0	1.5	2.0	2.3	2.5	2.3	2.0	1.5	0.5	0.8	0.8
88.5°	0.5	0.8	1.3	1.3	1.5	1.3	1.0	0.8	0.3	0.3	0.3



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1427.5	1427.5	1427.5	1427.5	1427.5	1427.5
0.5°	1427.8	1427.3	1425.3	1424.0	1423.5	1424.0
1°	1428.0	1426.0	1422.8	1421.0	1420.0	1420.5
1.5°	1427.8	1424.5	1420.5	1417.5	1416.2	1417.0
2°	1427.8	1423.0	1417.7	1414.0	1412.2	1413.2
2.5°	1427.3	1421.3	1414.7	1410.5	1408.2	1409.0
3°	1426.8	1419.2	1411.7	1406.5	1404.0	1405.0
3.5°	1426.0	1417.0	1408.5	1402.4	1399.7	1400.7
4°	1425.0	1414.7	1405.2	1398.2	1395.2	1395.9
4.5°	1423.8	1412.2	1401.7	1393.7	1390.2	1391.4
5°	1422.5	1409.7	1397.9	1389.2	1385.1	1386.4
5.5°	1421.0	1406.7	1393.9	1384.4	1380.1	1381.4
6°	1419.2	1403.7	1389.7	1379.4	1374.9	1376.1
6.5°	1417.2	1400.4	1385.4	1374.4	1369.3	1370.9
7°	1415.2	1397.2	1381.1	1369.1	1363.6	1365.3
7.5°	1412.7	1393.4	1376.4	1363.6	1357.8	1359.6
8°	1410.5	1389.7	1371.6	1358.1	1352.0	1353.5
8.5°	1407.7	1385.9	1366.3	1352.3	1345.8	1347.5
9°	1405.0	1381.6	1361.3	1346.5	1339.5	1341.5
9.5°	1401.9	1377.1	1355.8	1340.3	1333.0	1335.0
10°	1398.7	1372.9	1350.3	1334.0	1326.5	1328.5
10.5°	1395.2	1368.1	1344.5	1327.7	1319.9	1322.0
11°	1391.7	1363.3	1338.8	1321.2	1313.2	1315.2
11.5°	1387.9	1358.1	1332.7	1314.4	1306.2	1308.2
12°	1384.1	1352.8	1326.5	1307.7	1298.9	1301.1
12.5°	1379.9	1347.5	1319.9	1300.4	1291.6	1293.9
13°	1375.6	1342.0	1313.4	1293.4	1284.3	1286.6
13.5°	1371.1	1336.0	1306.9	1286.1	1276.6	1279.1
14°	1366.3	1330.2	1299.9	1278.8	1269.0	1271.6
14.5°	1361.6	1324.0	1292.9	1271.3	1261.3	1263.8
15°	1356.3	1317.7	1285.8	1263.5	1253.2	1256.0
15.5°	1351.0	1311.4	1278.3	1255.5	1245.2	1248.0
16°	1345.8	1304.7	1270.8	1247.5	1237.2	1240.0
16.5°	1340.3	1297.9	1263.0	1239.5	1228.7	1231.7
17°	1334.5	1290.9	1255.3	1231.2	1220.4	1223.2
17.5°	1328.5	1283.8	1247.2	1222.7	1211.6	1214.9
18°	1322.2	1276.3	1239.2	1214.1	1203.1	1206.1
18.5°	1315.9	1268.8	1230.7	1205.4	1194.3	1197.6
19°	1309.4	1261.0	1222.4	1196.6	1185.3	1188.6
19.5°	1302.6	1253.2	1213.9	1187.6	1176.3	1179.5
20°	1295.9	1245.2	1205.1	1178.8	1167.2	1170.8
20.5°	1288.9	1237.2	1196.1	1169.5	1158.0	1161.2
21°	1281.6	1228.7	1187.1	1160.0	1148.4	1151.9

TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1259.0	1202.8	1159.0	1131.4	1119.9	1123.6
23°	1251.0	1193.6	1149.4	1121.6	1110.1	1113.8
23.5°	1243.2	1184.8	1139.9	1111.8	1100.3	1104.1
24°	1234.9	1175.3	1129.9	1101.8	1090.0	1094.0
24.5°	1226.4	1166.0	1120.1	1091.8	1079.7	1083.7
25°	1217.9	1156.2	1109.8	1081.5	1069.7	1073.7
25.5°	1209.1	1146.7	1099.8	1071.0	1059.4	1063.4
26°	1200.3	1137.2	1089.3	1060.4	1048.9	1053.2
26.5°	1191.1	1126.9	1079.2	1050.1	1038.4	1042.6
27°	1182.0	1116.6	1068.4	1039.6	1027.8	1032.1
27.5°	1173.0	1106.6	1057.9	1028.8	1017.0	1021.3
28°	1163.5	1096.3	1046.9	1017.8	1006.0	1010.5
28.5°	1154.2	1086.0	1036.4	1007.0	995.5	999.7
29°	1144.2	1075.2	1025.3	996.0	984.2	989.0
29.5°	1134.4	1064.7	1014.3	984.9	973.2	977.9
30°	1124.4	1054.2	1003.3	973.7	961.9	966.6
30.5°	1114.6	1043.1	992.0	962.4	950.8	955.4
31°	1104.3	1032.1	980.4	951.1	939.3	944.1
31.5°	1093.8	1021.1	969.4	939.6	928.0	932.8
32°	1083.2	1009.8	957.9	928.0	916.2	921.3
32.5°	1073.0	998.7	946.3	916.5	905.0	909.7
33°	1062.2	987.7	934.8	905.0	893.2	897.9
33.5°	1051.4	976.2	923.3	893.2	881.6	886.4
34°	1040.6	964.6	911.5	881.4	869.9	874.6
34.5°	1029.6	953.1	899.4	869.6	858.1	862.6
35°	1018.5	941.6	887.7	857.6	845.8	850.5
35.5°	1007.5	929.8	876.1	845.5	834.2	838.8
36°	996.5	918.5	864.1	833.7	822.2	826.7
36.5°	985.2	906.5	852.3	821.7	809.9	814.7
37°	973.7	894.7	840.0	809.4	797.9	802.4
37.5°	962.4	883.1	828.2	797.4	785.9	790.1
38°	950.8	871.1	815.9	785.1	773.6	777.6
38.5°	939.3	859.1	804.2	773.1	761.3	765.5
39°	927.8	847.5	792.1	761.0	749.0	753.5
39.5°	916.2	835.5	780.1	748.7	736.7	740.7
40°	904.5	823.5	767.8	736.2	724.2	727.9
40.5°	892.9	811.7	755.8	724.2	711.9	715.6
41°	881.1	799.4	743.7	711.9	699.1	703.1
41.5°	869.4	787.6	731.4	699.6	686.6	690.3
42°	857.6	775.8	719.4	687.3	674.3	677.5
42.5°	845.8	764.0	707.6	675.0	661.7	665.0
43°	834.2	752.3	695.6	662.7	649.2	652.5
43.5°	822.2	740.0	683.8	650.4	636.7	639.7



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	787.1	704.6	647.7	613.8	599.0	601.0
45.5°	775.3	692.8	635.9	601.5	586.3	588.3
46°	763.8	681.5	624.4	589.8	573.7	575.5
46.5°	752.5	670.3	612.8	577.5	561.2	562.2
47°	741.2	659.0	601.0	565.4	548.6	549.1
47.5°	729.9	647.4	589.5	553.4	536.4	536.6
48°	719.2	636.9	578.2	541.4	523.8	523.8
48.5°	708.1	625.6	566.7	529.6	511.0	511.0
49°	696.6	614.3	555.7	518.0	498.7	498.0
49.5°	684.3	603.1	544.6	506.3	486.5	485.5
50°	671.8	591.3	533.3	494.5	473.9	472.4
50.5°	658.5	579.0	521.6	482.9	461.9	459.6
51°	644.9	566.7	510.3	471.4	449.3	446.3
51.5°	630.9	553.9	498.7	459.9	437.3	434.0
52°	616.6	541.1	487.0	448.6	425.3	421.3
52.5°	601.5	527.8	474.9	436.8	413.0	408.7
53°	586.8	514.5	462.9	425.3	401.2	396.2
53.5°	571.0	501.0	450.8	413.5	389.2	383.6
54°	555.2	487.5	438.6	402.2	377.4	370.9
54.5°	539.4	473.9	426.3	390.4	365.6	358.6
55°	523.8	460.1	413.7	378.6	354.1	346.3
55.5°	507.5	445.8	401.5	366.8	342.0	333.7
56°	491.5	432.0	388.9	355.3	330.5	322.0
56.5°	475.7	418.3	376.6	343.5	319.0	309.7
57°	459.9	404.2	363.8	332.0	307.4	297.6
57.5°	443.8	390.2	351.3	320.0	295.9	285.6
58°	428.3	376.4	339.0	308.7	284.9	274.1
58.5°	413.0	362.6	326.7	296.9	273.3	262.5
59°	397.2	348.8	314.4	285.4	262.0	250.8
59.5°	382.1	335.0	302.2	274.1	251.0	239.5
60°	367.1	321.7	290.1	262.8	240.0	228.2
60.5°	352.3	308.4	278.1	251.5	228.9	216.9
61°	337.5	295.4	266.3	240.5	218.2	205.9
61.5°	323.2	282.8	254.5	229.7	207.6	195.3
62°	309.7	270.3	243.0	218.9	197.3	184.6
62.5°	295.6	258.0	231.7	208.1	187.1	174.0
63°	282.1	245.7	220.7	197.6	177.0	164.0
63.5°	268.8	234.2	209.6	187.3	167.0	154.2
64°	256.0	222.7	198.8	177.0	157.5	144.4
64.5°	243.7	211.6	188.3	167.0	147.9	135.4
65°	231.7	200.6	178.0	157.2	139.2	126.6
65.5°	220.4	190.1	168.0	147.4	130.1	117.9
66°	209.4	179.5	158.0	138.2	121.6	109.8



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	177.3	150.7	130.4	111.6	97.5	88.8
68°	167.5	141.7	121.6	103.8	90.5	84.3
68.5°	158.2	133.1	113.6	96.0	85.0	79.5
69°	149.2	124.9	105.3	88.5	79.7	75.0
69.5°	140.7	117.1	97.8	82.7	74.5	70.2
70°	132.4	109.3	91.0	77.0	69.0	68.0
70.5°	124.6	102.1	85.3	71.2	63.7	65.4
71°	116.8	95.3	79.5	65.4	61.2	62.7
71.5°	109.8	88.5	73.7	60.9	58.9	59.9
72°	102.8	83.0	68.0	56.9	56.4	56.9
72.5°	96.3	77.5	62.2	53.2	53.7	54.2
73°	89.8	72.0	57.4	49.6	50.9	51.4
73.5°	83.8	66.2	53.2	46.6	48.4	48.6
74°	78.0	61.4	49.1	44.1	45.9	46.1
74.5°	72.7	56.7	45.4	41.9	43.4	43.4
75°	67.5	52.4	42.1	39.9	41.1	41.1
75.5°	62.4	48.1	38.9	37.6	38.6	38.6
76°	57.7	44.4	36.1	35.6	36.4	36.4
76.5°	53.4	40.6	33.3	33.6	34.1	34.1
77°	49.1	37.1	30.8	31.6	32.1	31.8
77.5°	45.1	34.1	28.6	29.6	30.1	29.8
78°	41.1	30.8	26.3	27.8	28.1	27.6
78.5°	37.6	28.1	24.3	26.1	26.1	25.8
79°	34.1	25.6	22.6	24.3	24.1	23.8
79.5°	31.1	23.1	20.8	22.6	22.3	22.1
80°	28.1	20.8	19.3	20.8	20.6	20.3
80.5°	25.1	18.8	18.1	19.3	18.8	18.6
81°	22.8	16.8	16.5	17.8	17.1	16.8
81.5°	20.6	15.0	15.3	16.3	15.5	15.3
82°	18.1	13.5	13.8	14.8	13.8	13.8
82.5°	15.8	12.0	12.5	13.3	12.3	12.3
83°	13.3	10.5	11.3	12.0	10.8	10.8
83.5°	11.5	9.3	10.0	10.8	9.3	9.3
84°	9.8	8.0	9.0	9.5	8.3	8.0
84.5°	8.3	7.0	7.8	8.3	7.0	6.8
85°	6.8	6.0	6.8	7.0	5.8	5.5
85.5°	5.5	4.8	5.5	6.0	4.5	4.3
86°	4.3	4.0	4.5	4.8	3.8	3.3
86.5°	3.3	3.0	3.5	3.8	3.0	2.8
87°	2.3	2.3	2.5	2.8	2.3	2.0
87.5°	1.5	1.3	1.5	1.8	1.5	1.5
88°	1.0	0.5	0.8	1.0	1.0	1.0
88.5°	0.3	0.3	0.3	0.3	0.5	0.5



TEST NUMBER: P776037

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-3500K

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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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





21.5°	1142.7	1160.0	1190.8	1234.9	1293.9	1341.3	1371.1	1381.6	1375.4	1355.3	1320.7
22°	1133.1	1150.7	1181.8	1226.4	1286.8	1335.0	1365.8	1376.1	1369.6	1349.0	1314.2



44°	626.4	648.4	684.5	738.7	823.2	902.2	960.4	983.2	976.4	945.6	888.2
44.5°	613.8	635.9	672.3	726.7	810.9	890.2	948.6	971.7	965.1	934.3	876.6



66.5°	102.1	128.1	155.5	184.1	219.7	242.2	257.0	259.5	246.5	240.2	222.2
67°	94.8	119.4	145.7	173.3	208.1	229.9	244.0	246.0	232.9	228.7	211.4



89°	0.3	0.3	0.5	0.5	1.0	0.8	0.5	0.3	0.0	0.0	0.0
89.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0

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21.5°	1274.3	1220.2	1178.0	1150.4	1138.9	1142.7
22°	1266.5	1211.6	1168.5	1141.2	1129.4	1133.1



44°	810.4	728.2	671.5	638.2	623.9	626.4
44.5°	798.4	716.4	659.7	625.9	611.6	613.8



66.5°	198.1	169.8	148.4	128.6	113.3	102.1
67°	187.1	159.7	139.2	120.4	105.3	94.8

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

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(END OF REPORT)