

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: P776136

Luminaire Tested: HCDJBL51525CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B048)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K
Description: 8 INCH ROUND SHALLOW-WIDE LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031.2 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

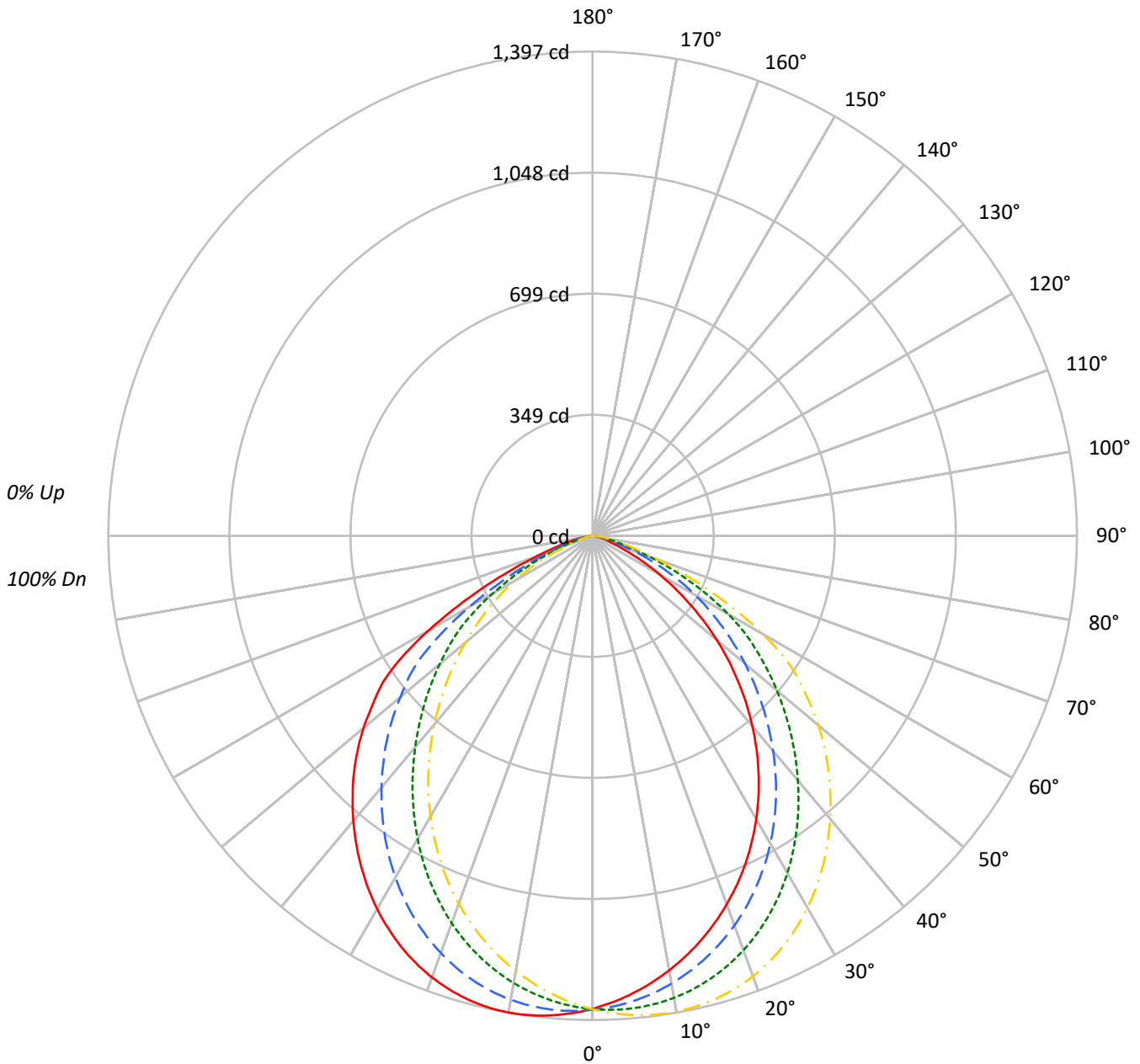
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	101	98	100	98	95	97	94	92	93	91	90	88					88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76					76			
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65					65			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57					57			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35					35			
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	41710	41710	41710	41710
5°	40613	41931	42575	41266
10°	39462	41957	43306	40618
15°	38188	41778	43792	39756
20°	36765	41340	44043	38627
25°	35142	40626	44052	37230
30°	33276	39607	43830	35609
35°	31102	38292	43390	33745
40°	28564	36706	42796	31732
45°	25625	34912	42058	29602
50°	22181	32948	40961	27330
55°	18167	30707	39346	24820
60°	13617	27538	33315	20297
65°	8727	22178	24143	14520
70°	4936	15237	14925	8748
75°	3763	8918	9437	4754
80°	2655	4905	5380	2250
85°	1541	2697	1401	946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 42641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	4.3
10°-20°	364.7	12.0
20°-30°	537.0	17.7
30°-40°	615.7	20.3
40°-50°	592.5	19.5
50°-60°	472.5	15.6
60°-70°	245.2	8.1
70°-80°	66.1	2.2
80°-90°	8.5	0.3
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°	1030.6	34.0
0°-40°	1646.3	54.3
0°-60°	2711.3	89.4
0°-90°	3031.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1366	1366	1366	1366	1366	
5°	1325	1368	1389	1346	1325	125
15°	1208	1322	1386	1258	1208	340
25°	1043	1206	1308	1105	1043	479
35°	834	1027	1164	905	834	520
45°	594	809	974	686	594	456
55°	341	577	739	466	341	305
65°	121	307	334	201	121	125
75°	32	76	80	40	32	35
85°	4	8	4	3	4	6
90°	0	1	0	0	0	



TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2
0.5°	1361.3	1367.2	1366.7	1366.0	1366.7	1368.0	1368.7	1368.7	1367.7	1371.9	1369.0
1°	1357.8	1364.8	1365.3	1365.7	1367.7	1370.2	1371.7	1371.7	1370.7	1373.9	1370.2
1.5°	1354.1	1362.0	1363.5	1365.5	1368.2	1371.7	1374.1	1374.1	1373.7	1375.6	1370.9
2°	1350.4	1359.3	1361.8	1364.8	1368.7	1373.4	1376.6	1376.6	1376.4	1377.4	1371.7
2.5°	1346.5	1356.4	1359.6	1364.3	1369.0	1374.9	1379.1	1379.1	1378.8	1379.1	1372.2
3°	1342.5	1353.2	1357.6	1363.3	1369.2	1376.4	1381.3	1381.3	1381.1	1380.6	1372.4
3.5°	1338.6	1349.9	1355.4	1362.3	1369.2	1377.6	1383.3	1383.3	1383.5	1381.8	1372.7
4°	1334.1	1346.5	1352.9	1361.1	1369.0	1378.6	1385.0	1385.0	1385.5	1382.8	1372.7
4.5°	1329.9	1343.0	1350.2	1359.6	1368.7	1379.3	1386.7	1386.7	1387.5	1383.8	1372.4
5°	1325.2	1339.3	1347.5	1358.1	1368.2	1379.8	1388.2	1388.2	1389.2	1384.5	1372.2
5.5°	1320.8	1335.6	1344.8	1356.4	1367.5	1380.3	1389.5	1389.5	1390.7	1385.0	1371.4
6°	1315.9	1331.7	1341.5	1354.4	1366.7	1380.6	1390.7	1390.7	1392.2	1385.3	1370.9
6.5°	1310.9	1327.5	1338.3	1352.4	1365.5	1380.8	1391.7	1391.7	1393.4	1385.5	1370.2
7°	1306.0	1323.3	1335.1	1350.2	1364.3	1380.8	1392.7	1392.7	1394.4	1385.5	1369.2
7.5°	1300.8	1318.8	1331.7	1348.0	1362.8	1380.6	1393.2	1393.2	1395.1	1385.3	1368.0
8°	1295.4	1314.4	1328.0	1345.3	1361.6	1380.3	1393.7	1393.7	1395.9	1385.0	1366.5
8.5°	1289.9	1309.7	1324.0	1342.5	1359.8	1379.6	1394.2	1394.2	1396.4	1384.3	1365.0
9°	1284.2	1305.0	1320.1	1339.6	1357.8	1379.1	1394.2	1394.2	1396.9	1383.8	1363.3
9.5°	1278.8	1300.1	1316.1	1336.6	1355.9	1378.1	1394.2	1394.2	1396.9	1382.8	1361.3
10°	1272.9	1295.1	1311.7	1333.4	1353.4	1376.9	1393.9	1400.8	1396.9	1381.6	1359.3
10.5°	1267.2	1289.9	1307.2	1329.9	1351.2	1375.9	1393.7	1400.6	1396.4	1380.3	1357.1
11°	1261.0	1284.5	1302.8	1326.2	1348.5	1374.4	1392.9	1400.3	1395.9	1378.8	1354.6
11.5°	1254.9	1279.3	1298.1	1322.8	1345.7	1372.9	1392.2	1399.8	1395.4	1377.4	1351.9
12°	1248.4	1273.6	1293.4	1318.8	1342.8	1371.2	1391.4	1399.3	1394.4	1375.4	1349.2
12.5°	1242.3	1267.9	1288.2	1314.6	1339.8	1369.2	1390.2	1398.3	1393.4	1373.4	1346.2
13°	1235.6	1262.0	1283.3	1310.4	1336.6	1367.2	1389.0	1397.4	1392.2	1371.2	1343.0
13.5°	1228.9	1256.1	1277.8	1306.2	1333.1	1365.0	1387.5	1396.1	1390.9	1369.0	1339.8
14°	1222.3	1250.2	1272.4	1301.5	1329.4	1362.5	1385.8	1394.9	1389.5	1366.2	1336.1
14.5°	1215.1	1244.0	1267.0	1297.1	1325.7	1359.8	1384.0	1393.4	1387.5	1363.5	1332.7
15°	1208.2	1237.8	1261.3	1292.2	1321.8	1356.9	1382.0	1391.4	1385.5	1360.6	1328.7
15.5°	1201.0	1231.2	1255.4	1287.2	1317.6	1354.1	1379.8	1389.5	1383.3	1357.6	1324.8
16°	1193.9	1224.5	1249.2	1282.0	1313.1	1350.9	1377.4	1387.5	1381.1	1354.1	1320.8
16.5°	1186.4	1217.8	1243.0	1276.6	1308.7	1347.5	1374.9	1385.0	1378.6	1350.7	1316.4
17°	1178.8	1210.9	1236.8	1270.9	1304.0	1344.0	1372.2	1382.5	1375.9	1347.0	1311.7
17.5°	1171.1	1204.0	1230.4	1265.5	1299.3	1340.3	1369.2	1379.8	1372.9	1343.0	1307.0
18°	1163.7	1196.8	1224.0	1259.6	1294.1	1336.4	1366.2	1376.9	1369.7	1339.1	1302.0
18.5°	1155.8	1189.7	1217.1	1253.6	1288.9	1332.2	1363.0	1373.9	1366.2	1334.9	1297.1
19°	1147.4	1182.3	1210.2	1247.5	1283.5	1328.2	1359.6	1370.7	1363.0	1330.7	1291.9
19.5°	1139.5	1174.6	1203.2	1241.0	1278.1	1323.8	1355.9	1367.2	1359.3	1326.0	1286.5
20°	1131.6	1167.2	1196.1	1234.9	1272.4	1319.1	1352.2	1363.5	1355.6	1321.3	1280.8
20.5°	1123.2	1159.3	1188.9	1228.2	1266.2	1314.4	1348.2	1359.8	1351.7	1316.4	1275.4
21°	1114.3	1151.6	1181.5	1221.5	1260.3	1309.4	1344.0	1355.9	1347.5	1311.4	1269.4



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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°	1088.9	1127.2	1158.3	1200.0	1241.3	1293.6	1330.4	1342.8	1333.6	1295.4	1250.9
23°	1080.0	1118.8	1150.4	1192.6	1234.6	1288.0	1325.5	1338.3	1328.7	1289.4	1244.2
23.5°	1070.9	1110.4	1142.2	1185.2	1227.4	1282.3	1320.6	1333.4	1323.8	1283.8	1237.8
24°	1061.7	1101.7	1133.8	1177.6	1220.5	1276.1	1315.4	1328.5	1318.6	1277.6	1230.9
24.5°	1052.6	1093.1	1125.4	1169.4	1213.4	1269.9	1309.9	1323.3	1313.1	1271.4	1224.0
25°	1043.2	1084.2	1117.0	1161.5	1206.0	1263.8	1304.3	1317.8	1307.7	1265.0	1216.8
25.5°	1033.8	1075.1	1108.4	1153.4	1198.3	1257.1	1298.6	1312.4	1301.8	1258.6	1209.7
26°	1024.2	1066.2	1099.5	1145.0	1190.6	1250.4	1292.6	1306.7	1295.9	1251.9	1202.3
26.5°	1014.6	1057.0	1090.6	1136.3	1182.7	1243.7	1286.7	1300.8	1289.9	1245.0	1194.8
27°	1004.7	1047.9	1081.7	1127.9	1174.8	1236.8	1280.3	1294.6	1283.8	1238.1	1186.9
27.5°	994.8	1038.5	1072.6	1119.3	1166.7	1229.7	1273.9	1288.7	1277.3	1231.2	1179.3
28°	984.9	1028.9	1063.5	1110.4	1158.0	1222.0	1267.5	1282.3	1270.9	1223.7	1171.1
28.5°	974.5	1019.0	1054.1	1101.2	1149.6	1214.9	1260.8	1275.6	1264.0	1216.3	1163.2
29°	964.4	1009.4	1044.4	1091.9	1141.0	1206.9	1253.6	1268.9	1257.3	1208.7	1154.8
29.5°	954.3	999.5	1035.1	1082.7	1132.4	1199.3	1246.7	1262.3	1250.2	1201.0	1146.4
30°	943.9	989.9	1025.2	1073.3	1123.5	1191.4	1239.5	1255.4	1243.3	1193.4	1137.8
30.5°	933.3	979.5	1015.3	1064.0	1114.3	1183.0	1232.1	1248.2	1235.8	1185.2	1129.4
31°	922.7	969.4	1005.4	1054.6	1105.4	1174.8	1224.7	1240.8	1228.4	1177.3	1120.8
31.5°	911.8	959.2	995.3	1044.4	1096.1	1166.4	1216.8	1233.4	1220.8	1169.2	1111.9
32°	901.2	948.9	985.2	1034.6	1086.4	1157.8	1209.2	1225.7	1213.1	1161.0	1103.0
32.5°	890.3	938.0	974.8	1024.4	1076.8	1149.2	1201.3	1218.3	1205.2	1152.4	1094.1
33°	879.5	927.6	964.2	1014.6	1067.2	1140.0	1193.1	1210.7	1197.3	1144.0	1084.7
33.5°	868.3	917.0	953.8	1004.2	1057.3	1131.1	1185.0	1202.3	1189.2	1135.1	1075.6
34°	857.0	906.4	943.4	994.1	1047.7	1122.2	1176.3	1194.1	1181.0	1126.4	1066.2
34.5°	845.9	895.5	932.8	983.4	1037.5	1112.9	1167.9	1186.0	1172.6	1117.8	1056.8
35°	834.5	884.4	922.2	973.3	1027.4	1103.5	1159.3	1177.8	1164.2	1108.7	1047.2
35.5°	823.2	873.3	911.1	962.4	1017.0	1094.1	1150.4	1169.2	1155.8	1099.5	1037.8
36°	811.5	862.2	900.2	951.8	1006.9	1084.4	1141.7	1160.3	1146.9	1090.1	1027.6
36.5°	799.9	851.1	889.1	940.7	996.5	1074.8	1132.4	1151.6	1138.3	1081.2	1017.8
37°	788.3	839.7	878.2	930.3	986.2	1064.7	1123.2	1143.0	1129.2	1071.6	1008.1
37.5°	776.7	828.3	866.9	919.5	975.3	1054.8	1113.8	1133.8	1120.3	1062.2	998.3
38°	764.6	817.0	855.5	908.4	964.7	1044.7	1104.5	1124.7	1111.1	1052.6	988.1
38.5°	752.8	805.4	844.1	896.8	953.8	1034.6	1095.1	1115.6	1102.0	1043.2	978.0
39°	741.2	793.5	832.8	886.1	943.4	1024.4	1085.4	1106.7	1092.6	1033.3	967.9
39.5°	729.3	782.2	821.4	874.8	932.1	1014.1	1075.6	1097.0	1083.5	1023.4	957.8
40°	716.7	770.5	809.8	863.7	921.0	1003.4	1065.9	1087.4	1073.8	1013.6	947.1
40.5°	704.9	758.7	798.2	852.0	909.8	993.1	1056.0	1077.8	1064.2	1003.7	937.0
41°	692.5	746.8	786.6	840.9	898.7	982.5	1045.7	1068.4	1054.6	993.6	926.4
41.5°	680.4	735.0	775.0	829.6	887.6	971.6	1035.8	1058.5	1044.7	983.9	916.0
42°	667.8	723.1	762.9	818.2	876.5	960.7	1025.4	1048.4	1034.8	973.6	905.6
42.5°	656.0	711.0	751.5	806.9	865.4	950.1	1015.5	1038.5	1024.9	963.2	894.8
43°	643.4	698.9	739.7	795.5	854.0	939.2	1004.9	1028.6	1015.1	952.6	884.2
43.5°	630.8	686.8	728.1	783.6	842.7	928.4	994.6	1018.5	1004.9	942.4	873.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	593.5	650.0	692.3	749.1	808.6	895.0	962.7	987.6	974.1	910.3	840.7
45.5°	580.9	637.9	680.7	737.7	797.2	883.9	951.8	977.3	963.7	899.2	829.6
46°	568.3	625.6	668.6	725.8	785.9	872.8	941.0	966.4	953.1	888.4	818.5
46.5°	555.7	613.2	656.9	714.2	774.5	861.4	930.1	955.8	942.4	877.2	807.1
47°	543.3	601.1	644.8	702.6	763.1	850.1	918.7	944.9	931.3	865.9	795.7
47.5°	530.5	588.8	633.0	691.0	751.3	838.7	907.9	933.8	920.2	854.5	783.9
48°	517.4	576.4	620.9	679.7	739.9	827.4	896.5	922.7	909.3	842.4	772.3
48.5°	505.1	563.8	609.0	667.8	728.6	816.0	885.1	911.3	898.0	830.6	760.4
49°	492.5	551.7	596.9	656.2	717.0	804.1	873.5	900.0	886.4	818.5	748.3
49.5°	479.9	539.4	585.3	644.6	705.1	792.5	862.2	888.4	874.3	806.1	736.2
50°	467.0	527.0	573.7	632.7	693.7	780.9	850.1	876.5	862.4	793.8	724.1
50.5°	454.2	514.7	561.6	621.4	682.1	769.1	838.0	864.4	850.1	780.9	712.3
51°	441.6	502.1	549.8	609.8	670.5	757.2	825.9	852.0	837.7	768.6	700.4
51.5°	429.2	489.7	537.9	598.2	658.9	745.4	813.5	839.5	825.1	756.5	688.8
52°	416.4	477.6	526.0	586.6	647.1	733.0	800.9	826.6	812.3	744.9	677.7
52.5°	404.0	465.3	514.2	574.9	635.2	720.9	788.3	813.8	799.4	733.5	666.1
53°	391.2	452.9	502.6	563.3	623.4	708.3	775.5	801.4	787.3	721.4	654.5
53.5°	378.6	440.8	490.7	552.0	611.7	696.0	762.6	788.3	775.5	708.8	640.9
54°	366.3	428.7	479.1	539.9	599.9	683.6	750.3	776.5	763.9	694.5	627.1
54.5°	353.9	416.6	467.3	528.5	588.3	671.8	738.2	765.1	751.8	678.7	611.3
55°	341.3	404.5	455.7	516.9	576.9	659.9	726.6	753.5	739.2	660.9	595.0
55.5°	329.2	392.2	444.3	505.8	565.8	648.5	714.5	740.4	724.1	643.6	577.9
56°	316.9	380.6	432.4	494.4	554.4	636.7	701.9	725.8	707.6	624.3	560.4
56.5°	304.8	368.7	421.1	483.1	543.1	624.1	687.8	709.5	690.3	605.1	542.8
57°	292.7	356.6	410.0	472.2	530.7	610.5	672.7	693.0	671.8	585.3	525.1
57.5°	280.6	345.0	398.9	461.1	518.4	596.9	656.7	674.5	651.8	565.8	506.0
58°	269.2	333.4	387.3	450.0	505.3	582.1	640.1	655.5	631.5	544.6	487.3
58.5°	257.3	322.1	375.9	438.1	492.5	567.0	622.9	635.2	611.0	523.3	468.5
59°	245.7	310.7	364.8	426.3	478.6	551.5	604.1	614.7	589.5	502.6	449.7
59.5°	234.1	299.3	353.4	414.2	465.0	535.2	585.3	592.7	567.5	482.1	430.7
60°	223.0	287.7	342.1	402.1	451.0	519.1	566.1	571.5	545.6	460.6	412.2
60.5°	211.9	276.6	330.2	390.0	437.4	502.6	546.5	549.5	523.6	439.9	393.7
61°	201.0	265.7	318.8	377.4	422.8	485.8	526.3	528.3	501.8	419.4	375.4
61.5°	189.9	254.4	307.2	365.3	408.5	468.8	505.8	506.3	479.6	398.4	357.1
62°	179.5	243.3	295.6	352.7	394.4	451.5	486.0	485.1	458.1	378.1	338.8
62.5°	169.2	232.2	284.3	340.3	379.6	434.2	465.3	463.6	436.2	358.4	321.3
63°	159.0	221.3	272.4	328.0	365.0	416.4	445.0	442.1	415.2	339.8	304.3
63.5°	148.7	210.4	261.0	314.9	350.5	398.9	425.0	420.8	394.2	321.1	287.5
64°	139.3	200.0	249.7	302.5	336.1	381.6	405.8	400.3	373.9	303.3	271.2
64.5°	129.9	189.4	238.3	289.9	321.6	364.0	386.0	380.1	354.2	286.0	255.4
65°	120.8	178.8	227.2	277.6	307.0	346.7	367.2	360.3	334.2	269.2	240.3
65.5°	111.9	168.7	215.9	265.0	292.4	329.7	348.5	340.8	314.6	253.4	227.0
66°	103.5	158.8	204.7	252.7	277.8	312.9	330.0	321.8	295.4	238.1	213.9



TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	81.7	129.9	171.6	215.9	235.9	264.8	277.3	268.7	240.8	198.1	174.4
68°	75.6	120.8	161.0	203.8	222.8	249.4	260.8	252.2	225.5	184.5	162.8
68.5°	69.6	111.9	150.7	191.6	209.7	234.4	244.5	236.1	210.2	171.2	152.1
69°	63.5	103.0	140.0	179.8	196.6	220.5	230.4	221.8	194.9	159.8	142.0
69.5°	58.8	94.3	129.7	167.7	183.7	207.0	216.3	207.7	179.8	149.2	132.4
70°	55.3	86.7	119.5	156.6	170.7	193.1	202.5	193.4	167.2	139.0	123.5
70.5°	53.1	79.3	109.7	145.2	159.0	179.3	188.4	179.3	155.3	129.7	115.1
71°	50.6	72.1	100.3	134.1	147.9	167.4	174.4	167.2	144.2	120.8	106.9
71.5°	48.2	65.0	91.1	123.5	137.1	155.3	162.3	155.6	133.9	112.4	99.5
72°	45.7	57.8	83.7	113.4	126.7	144.2	150.7	144.7	124.5	104.7	92.6
72.5°	43.2	52.6	76.6	103.7	116.6	133.6	140.0	134.6	115.6	97.3	85.7
73°	40.8	48.9	69.4	94.8	107.2	123.7	130.2	125.0	107.4	90.4	79.5
73.5°	38.5	46.4	62.2	86.2	98.5	114.3	120.8	116.1	100.0	84.0	73.6
74°	36.3	44.0	54.8	79.3	90.4	105.7	111.9	107.9	92.9	77.8	67.9
74.5°	34.1	41.7	49.6	72.1	82.5	97.6	103.7	100.3	86.2	72.1	62.7
75°	31.9	39.5	44.9	65.2	75.6	89.9	96.1	93.1	80.0	66.7	57.5
75.5°	29.9	37.3	41.2	58.3	68.9	82.7	88.9	86.4	73.8	61.2	52.9
76°	27.9	35.1	37.8	52.6	62.7	76.1	82.2	80.0	68.2	56.3	48.2
76.5°	26.2	33.1	34.8	47.4	56.8	69.6	76.1	74.3	62.7	51.6	44.0
77°	24.5	30.9	32.4	43.0	51.9	64.2	70.1	68.7	57.3	47.2	39.8
77.5°	22.7	28.9	30.1	38.8	46.9	58.5	64.7	63.5	52.4	42.7	35.8
78°	21.0	27.2	28.4	35.1	42.5	53.3	59.3	58.3	47.7	38.8	32.1
78.5°	19.5	25.4	26.4	31.9	38.3	48.7	54.3	53.3	43.0	35.1	28.6
79°	18.0	23.7	24.9	28.9	34.6	44.2	49.6	48.9	38.5	31.4	25.4
79.5°	16.5	22.0	23.2	26.2	31.1	40.0	45.2	44.5	34.6	28.2	23.0
80°	15.1	20.3	21.7	23.7	27.9	36.1	41.0	40.3	30.6	25.4	20.3
80.5°	13.8	18.8	20.0	21.5	24.9	32.6	37.0	36.6	26.9	22.5	17.5
81°	12.6	17.3	18.8	19.5	22.7	28.9	33.3	32.8	24.0	19.8	15.1
81.5°	11.4	16.1	17.3	17.8	20.3	25.9	29.6	29.4	21.0	17.0	12.3
82°	10.1	14.6	16.1	16.1	18.0	23.2	26.4	25.9	18.0	14.3	10.4
82.5°	9.1	13.3	14.6	14.6	15.6	20.7	23.7	23.2	14.8	11.6	8.6
83°	7.9	11.9	13.3	13.1	13.3	18.3	21.0	20.5	11.9	9.6	6.9
83.5°	6.9	10.9	12.3	12.1	11.6	15.6	18.3	17.8	9.6	7.7	5.4
84°	6.2	9.6	11.1	10.9	10.1	13.1	15.6	15.1	7.4	5.9	4.2
84.5°	5.2	8.6	9.9	9.9	8.9	11.4	12.8	12.3	5.7	4.4	3.2
85°	4.4	7.7	8.9	8.9	7.7	9.6	10.9	10.1	4.0	3.0	2.2
85.5°	3.7	6.7	8.2	7.9	6.4	7.9	8.9	8.2	2.5	2.0	1.5
86°	3.0	5.7	7.2	7.2	5.7	6.7	7.2	6.4	1.5	1.2	0.7
86.5°	2.2	4.7	6.2	6.2	4.7	5.4	5.7	4.7	1.0	0.5	0.2
87°	1.7	4.0	5.2	5.4	4.0	4.2	4.4	3.5	0.7	0.2	0.0
87.5°	1.2	3.2	4.4	4.7	3.2	3.5	3.2	2.5	0.5	0.0	0.0
88°	1.0	2.5	3.7	4.0	2.7	2.5	2.2	1.5	0.2	0.0	0.0
88.5°	0.5	2.0	3.0	3.2	2.0	1.7	1.5	0.7	0.2	0.0	0.0



TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.7	1.2	1.5	0.7	0.5	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1366.2	1366.2	1366.2	1366.2	1366.2	1366.2
0.5°	1366.0	1364.8	1363.5	1362.8	1361.8	1361.3
1°	1365.7	1363.3	1361.1	1359.6	1358.1	1357.8
1.5°	1365.3	1361.8	1358.3	1355.9	1354.4	1354.1
2°	1364.8	1360.1	1355.6	1352.4	1350.4	1350.4
2.5°	1363.8	1358.1	1352.7	1348.7	1346.5	1346.5
3°	1362.8	1356.1	1349.4	1344.8	1342.3	1342.5
3.5°	1361.8	1354.1	1346.2	1340.8	1338.1	1338.6
4°	1360.3	1351.7	1342.8	1336.6	1333.4	1334.1
4.5°	1359.1	1349.2	1339.1	1332.2	1329.0	1329.9
5°	1357.4	1346.5	1335.4	1327.7	1324.0	1325.2
5.5°	1355.6	1343.5	1331.4	1323.0	1319.3	1320.8
6°	1353.6	1340.6	1327.2	1318.3	1314.4	1315.9
6.5°	1351.4	1337.3	1323.0	1313.4	1309.2	1310.9
7°	1349.2	1334.1	1318.6	1308.5	1304.0	1306.0
7.5°	1346.7	1330.4	1314.1	1303.3	1298.6	1300.8
8°	1344.0	1326.7	1309.4	1297.8	1293.1	1295.4
8.5°	1341.3	1322.8	1304.5	1292.4	1287.5	1289.9
9°	1338.1	1318.8	1299.6	1286.7	1281.5	1284.2
9.5°	1335.1	1314.6	1294.4	1281.0	1275.6	1278.8
10°	1331.7	1310.2	1288.9	1275.1	1269.7	1272.9
10.5°	1328.2	1306.0	1283.5	1268.9	1263.5	1267.2
11°	1324.5	1301.0	1277.8	1263.0	1257.3	1261.0
11.5°	1320.8	1296.1	1271.9	1256.6	1250.9	1254.9
12°	1316.6	1291.2	1266.0	1250.2	1244.2	1248.4
12.5°	1312.4	1286.0	1259.8	1243.5	1237.6	1242.3
13°	1308.0	1280.8	1253.6	1236.8	1230.9	1235.6
13.5°	1303.5	1275.1	1247.2	1229.9	1224.2	1228.9
14°	1298.8	1269.4	1240.5	1223.2	1217.1	1222.3
14.5°	1294.1	1263.8	1234.1	1216.1	1209.9	1215.1
15°	1288.9	1257.8	1227.2	1208.7	1202.7	1208.2
15.5°	1283.8	1251.6	1220.0	1201.3	1195.1	1201.0
16°	1278.3	1245.2	1213.1	1193.9	1187.9	1193.9
16.5°	1272.9	1238.8	1205.7	1186.2	1180.3	1186.4
17°	1267.2	1232.1	1198.3	1178.5	1172.6	1178.8
17.5°	1261.3	1225.2	1190.6	1170.4	1164.7	1171.1
18°	1255.1	1218.3	1183.0	1162.7	1156.8	1163.7
18.5°	1248.9	1211.1	1175.1	1154.3	1148.4	1155.8
19°	1242.8	1204.0	1166.9	1146.4	1140.5	1147.4
19.5°	1236.1	1196.6	1158.8	1137.8	1132.1	1139.5
20°	1229.4	1188.9	1150.4	1129.4	1123.7	1131.6
20.5°	1222.5	1181.3	1142.0	1120.5	1115.3	1123.2
21°	1215.6	1173.4	1133.3	1111.9	1106.4	1114.3

TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1193.9	1148.9	1106.9	1084.7	1079.8	1088.9
23°	1186.2	1140.5	1098.0	1075.6	1070.6	1080.0
23.5°	1178.5	1131.9	1088.9	1066.4	1061.5	1070.9
24°	1170.4	1123.0	1079.5	1057.0	1052.1	1061.7
24.5°	1162.5	1114.3	1070.1	1047.2	1042.7	1052.6
25°	1154.3	1105.2	1060.2	1037.5	1033.1	1043.2
25.5°	1145.9	1096.6	1050.9	1027.9	1023.4	1033.8
26°	1137.5	1087.2	1041.2	1018.0	1013.8	1024.2
26.5°	1128.9	1078.0	1031.4	1007.9	1003.9	1014.6
27°	1120.3	1068.4	1021.5	997.8	994.1	1004.7
27.5°	1111.4	1059.0	1011.3	987.6	983.9	994.8
28°	1102.5	1049.4	1001.2	977.5	973.6	984.9
28.5°	1093.3	1039.5	991.1	967.1	963.4	974.5
29°	1084.2	1029.9	980.7	956.5	953.3	964.4
29.5°	1074.8	1020.0	970.3	945.9	942.7	954.3
30°	1065.4	1010.1	960.0	935.5	932.1	943.9
30.5°	1056.0	999.7	949.4	924.7	921.7	933.3
31°	1046.7	989.6	938.7	914.0	910.8	922.7
31.5°	1036.8	979.2	927.9	903.2	900.2	911.8
32°	1027.2	968.9	917.0	892.1	889.1	901.2
32.5°	1017.0	958.5	906.4	881.2	878.2	890.3
33°	1007.1	948.1	895.5	870.1	867.1	879.5
33.5°	997.0	937.3	884.6	859.0	856.0	868.3
34°	986.9	926.9	873.3	847.9	844.6	857.0
34.5°	977.0	916.0	862.4	836.7	833.5	845.9
35°	966.6	905.4	851.1	825.4	821.9	834.5
35.5°	956.3	894.8	839.9	813.8	810.8	823.2
36°	945.9	883.7	829.1	802.7	799.0	811.5
36.5°	935.5	873.0	817.7	791.3	787.8	799.9
37°	924.9	862.2	806.6	779.7	776.0	788.3
37.5°	914.3	851.3	795.5	768.1	764.4	776.7
38°	903.7	840.2	784.1	756.5	752.5	764.6
38.5°	893.0	829.1	773.0	745.1	740.9	752.8
39°	882.7	818.2	761.4	733.5	729.1	741.2
39.5°	871.8	807.3	750.3	721.9	717.2	729.3
40°	860.9	796.2	738.9	710.3	705.3	716.7
40.5°	850.3	785.1	727.8	698.7	693.5	704.9
41°	839.5	773.8	716.5	687.1	681.1	692.5
41.5°	828.8	763.1	704.9	675.5	669.3	680.4
42°	818.0	752.3	693.7	663.6	657.4	667.8
42.5°	806.9	740.9	682.6	652.0	645.3	656.0
43°	796.0	729.8	671.5	640.1	633.0	643.4
43.5°	785.1	718.9	659.9	628.8	621.1	630.8

TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	752.0	685.6	626.3	593.7	584.3	593.5
45.5°	740.9	675.0	615.0	582.4	572.5	580.9
46°	730.0	664.1	604.1	570.7	560.4	568.3
46.5°	718.7	652.7	592.7	559.1	548.0	555.7
47°	707.3	641.6	581.9	547.5	535.9	543.3
47.5°	696.0	630.8	570.3	535.9	523.6	530.5
48°	684.4	619.7	559.6	524.6	511.5	517.4
48.5°	673.0	608.5	548.3	513.0	499.4	505.1
49°	661.4	597.7	537.4	501.6	487.3	492.5
49.5°	649.5	586.6	526.3	490.0	475.4	479.9
50°	638.2	575.4	515.2	478.6	463.1	467.0
50.5°	626.8	564.1	504.1	467.5	451.0	454.2
51°	615.7	553.0	493.2	456.2	439.1	441.6
51.5°	604.6	542.3	482.3	444.5	427.3	429.2
52°	594.2	532.0	471.7	433.7	415.4	416.4
52.5°	583.1	521.6	461.1	422.6	403.3	404.0
53°	571.5	511.2	451.0	411.7	391.4	391.2
53.5°	559.1	500.6	440.3	400.6	379.8	378.6
54°	545.8	489.5	430.0	389.7	368.0	366.3
54.5°	532.5	478.1	419.4	379.3	356.4	353.9
55°	517.7	466.3	408.5	368.7	345.0	341.3
55.5°	502.8	453.7	397.1	357.6	333.7	329.2
56°	487.3	441.1	386.0	347.0	322.5	316.9
56.5°	472.0	428.2	374.7	335.9	311.2	304.8
57°	455.7	414.9	363.3	325.0	300.1	292.7
57.5°	439.9	401.3	351.7	313.9	289.0	280.6
58°	423.6	387.7	340.3	303.3	278.1	269.2
58.5°	407.3	374.2	328.2	292.4	267.2	257.3
59°	391.2	360.1	316.6	281.5	256.4	245.7
59.5°	375.1	346.3	304.8	270.7	245.5	234.1
60°	358.8	332.4	292.7	260.1	234.6	223.0
60.5°	343.0	318.6	280.6	248.9	224.0	211.9
61°	327.5	304.8	268.5	238.3	213.4	201.0
61.5°	311.7	291.2	256.4	227.7	203.0	189.9
62°	296.1	277.6	244.5	217.1	192.9	179.5
62.5°	281.3	264.3	232.4	206.2	182.5	169.2
63°	266.5	251.2	220.3	195.6	172.6	159.0
63.5°	252.2	238.1	208.7	184.5	162.8	148.7
64°	238.6	225.2	197.1	173.9	153.4	139.3
64.5°	225.5	213.1	185.7	163.2	144.0	129.9
65°	212.4	201.0	174.4	153.1	134.8	120.8
65.5°	199.6	188.7	163.7	142.5	125.5	111.9
66°	186.5	176.8	152.6	132.1	116.8	103.5



TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	151.1	144.5	122.5	104.0	91.1	81.7
68°	141.0	134.1	112.9	95.1	84.2	75.6
68.5°	131.1	124.2	103.7	86.2	77.3	69.6
69°	121.8	115.1	95.1	79.5	70.6	63.5
69.5°	113.1	106.4	86.4	72.9	63.7	58.8
70°	105.2	98.0	79.8	65.9	56.8	55.3
70.5°	97.3	90.4	73.4	59.3	51.9	53.1
71°	89.9	84.0	66.7	53.6	48.4	50.6
71.5°	83.2	77.5	60.0	48.9	45.9	48.2
72°	76.6	71.4	54.6	44.7	43.7	45.7
72.5°	70.9	65.0	49.6	41.0	41.5	43.2
73°	65.2	58.8	44.9	37.8	39.3	40.8
73.5°	59.8	53.3	40.8	34.8	37.0	38.5
74°	54.8	48.7	37.0	32.4	34.8	36.3
74.5°	49.9	44.2	33.8	30.4	32.8	34.1
75°	45.4	40.3	30.6	28.4	30.9	31.9
75.5°	41.2	36.3	27.9	26.7	28.9	29.9
76°	37.5	32.8	25.2	24.9	26.9	27.9
76.5°	33.6	29.4	23.0	23.5	25.2	26.2
77°	30.4	26.4	21.0	21.7	23.5	24.5
77.5°	27.2	23.7	19.0	20.5	21.7	22.7
78°	24.5	21.2	17.3	19.0	20.3	21.0
78.5°	22.0	18.8	15.8	17.5	18.8	19.5
79°	19.3	16.8	14.3	16.3	17.3	18.0
79.5°	16.8	14.8	13.1	14.8	15.8	16.5
80°	14.3	12.8	11.9	13.6	14.3	15.1
80.5°	12.3	11.4	10.9	12.3	13.1	13.8
81°	10.6	9.9	9.9	11.4	11.9	12.6
81.5°	8.9	8.9	8.9	10.1	10.6	11.4
82°	7.4	7.9	7.9	9.1	9.4	10.1
82.5°	6.2	6.7	6.9	8.2	8.4	9.1
83°	4.9	5.7	6.2	7.2	7.4	7.9
83.5°	4.0	4.7	5.2	6.2	6.4	6.9
84°	3.2	4.0	4.4	5.2	5.4	6.2
84.5°	2.2	3.2	4.0	4.4	4.4	5.2
85°	1.7	2.7	3.2	3.7	3.7	4.4
85.5°	1.2	2.0	2.5	3.2	3.0	3.7
86°	0.7	1.5	2.0	2.5	2.5	3.0
86.5°	0.2	1.0	1.2	1.7	2.0	2.2
87°	0.0	0.5	0.7	1.2	1.5	1.7
87.5°	0.0	0.2	0.2	0.7	1.0	1.2
88°	0.0	0.0	0.0	0.2	0.5	1.0
88.5°	0.0	0.0	0.0	0.0	0.2	0.5



TEST NUMBER: P776136

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-HCD81TRLWW-2500lm-3000K

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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Peachtree City, GA 30269

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°	1105.9	1143.5	1173.9	1214.4	1254.1	1304.3	1339.6	1351.7	1343.0	1306.2	1263.5
22°	1097.5	1135.6	1166.2	1207.2	1247.9	1299.1	1335.1	1347.2	1338.6	1300.8	1257.1



44°	618.4	674.7	716.0	772.3	831.3	917.0	983.7	1008.1	994.8	931.8	862.7
44.5°	606.1	662.4	704.4	760.9	819.9	906.1	973.3	997.8	984.7	921.2	851.8



66.5°	95.6	148.9	193.9	240.3	263.8	296.6	311.9	303.5	276.4	224.7	200.5
67°	87.7	139.0	183.0	228.0	249.9	280.3	294.6	286.0	258.6	211.4	187.5



89°	0.2	1.5	2.5	2.7	1.5	1.2	0.7	0.2	0.0	0.0	0.0
89.5°	0.0	1.0	1.7	2.0	1.0	0.7	0.2	0.0	0.0	0.0	0.0

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21.5°	1208.4	1165.2	1124.7	1103.0	1097.5	1105.9
22°	1201.0	1157.1	1116.1	1093.8	1088.9	1097.5



44°	774.3	708.1	648.5	616.9	609.0	618.4
44.5°	762.9	696.7	637.4	605.6	596.7	606.1



66.5°	173.6	166.0	142.3	122.5	107.9	95.6
67°	161.8	154.9	131.9	112.9	99.3	87.7

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89°	0.0	0.0	0.0	0.0	0.0	0.2
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)