

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: P776036

Luminaire Tested: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776036
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-3000K
Description: 6 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: 2991.7 lumens
Efficiency: N/A
Efficacy: 119.7 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

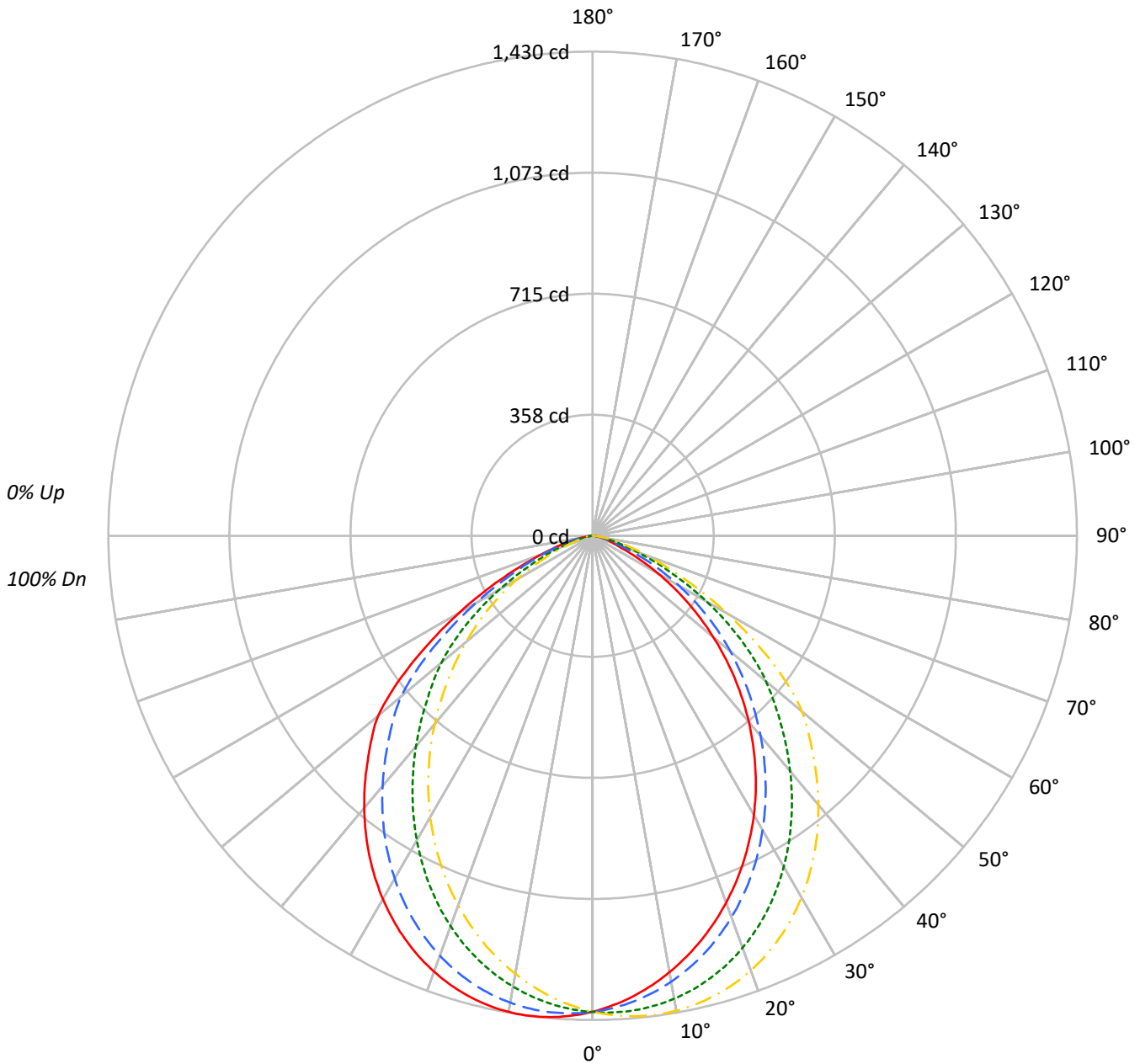
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

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	100	100	100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88	88	88	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66	66	66	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58	58	58	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	77083	77083	77083	77083
5°	75148	77416	78533	76414
10°	72839	77281	79496	75271
15°	70210	76692	79955	73661
20°	67276	75542	79912	71552
25°	63971	73819	79420	68883
30°	60269	71448	78423	65725
35°	56068	68462	76962	62064
40°	51310	64936	75084	58044
45°	45896	60968	72822	53804
50°	39683	56953	70420	49670
55°	32601	50990	61637	43315
60°	24647	42595	49875	34745
65°	16176	32675	37319	25632
70°	10723	22888	25774	17263
75°	8578	14742	17898	10929
80°	6314	9060	10765	6472
85°	3397	5284	2327	3711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 73318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.4
10°-20°	372.7	12.5
20°-30°	543.9	18.2
30°-40°	615.6	20.6
40°-50°	582.5	19.5
50°-60°	442.2	14.8
60°-70°	221.5	7.4
70°-80°	70.2	2.3
80°-90°	10.6	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°	1049.1	35.1
0°-40°	1664.7	55.6
0°-60°	2689.3	89.9
0°-90°	2991.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2991.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1406	1406	1406	1406	1406	
5°	1366	1407	1427	1389	1366	129
15°	1237	1351	1409	1298	1237	348
25°	1058	1220	1313	1139	1058	486
35°	838	1023	1150	927	838	523
45°	592	786	939	694	592	455
55°	341	534	645	453	341	305
65°	125	252	288	198	125	130
75°	40	70	84	52	40	44
85°	5	8	4	6	5	8
90°	0	0	0	0	0	



TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1406.1	1406.1	1406.1	1406.1	1406.1	1406.1	1406.1	1406.1	1406.1	1406.1	1406.1
0.5°	1402.6	1403.6	1404.6	1405.3	1407.6	1407.8	1408.3	1408.6	1408.8	1408.8	1407.8
1°	1399.2	1400.9	1402.6	1404.9	1408.3	1409.5	1410.8	1411.5	1411.5	1411.0	1409.1
1.5°	1395.7	1397.9	1400.7	1403.9	1408.8	1411.3	1413.2	1414.2	1414.2	1413.0	1410.3
2°	1392.0	1394.7	1398.4	1402.9	1409.1	1412.5	1415.2	1416.7	1416.5	1415.0	1411.0
2.5°	1387.8	1391.3	1396.0	1401.6	1409.1	1413.7	1417.2	1418.9	1418.9	1416.7	1412.0
3°	1383.9	1387.8	1393.2	1400.2	1409.1	1414.7	1419.2	1421.2	1420.7	1417.9	1412.5
3.5°	1379.7	1384.1	1390.5	1398.4	1408.8	1415.7	1420.7	1423.1	1422.6	1419.2	1412.8
4°	1375.0	1380.2	1387.6	1396.7	1408.3	1416.2	1422.1	1424.9	1424.4	1420.4	1413.0
4.5°	1370.5	1376.0	1384.4	1394.7	1407.8	1416.7	1423.4	1426.6	1425.8	1421.2	1413.0
5°	1365.6	1371.8	1380.9	1392.5	1406.8	1417.0	1424.4	1427.8	1427.1	1421.9	1412.8
5.5°	1360.6	1367.1	1377.4	1390.0	1405.8	1417.2	1425.1	1429.1	1428.1	1422.4	1412.5
6°	1355.5	1362.4	1373.5	1387.6	1404.6	1417.0	1425.8	1430.0	1428.8	1422.6	1411.8
6.5°	1350.3	1357.7	1369.8	1384.8	1403.4	1416.7	1426.3	1430.8	1429.6	1422.6	1411.0
7°	1344.8	1352.7	1365.6	1381.9	1401.6	1416.2	1426.6	1431.3	1429.8	1422.6	1410.0
7.5°	1339.2	1347.6	1361.4	1378.7	1399.9	1415.5	1426.6	1431.5	1430.0	1422.1	1408.8
8°	1333.2	1342.1	1356.9	1375.2	1397.9	1414.7	1426.6	1431.8	1430.0	1421.6	1407.6
8.5°	1327.3	1336.7	1352.2	1371.8	1396.0	1413.7	1426.3	1431.8	1429.8	1420.9	1405.8
9°	1321.4	1331.3	1347.3	1368.1	1393.5	1412.8	1425.6	1431.5	1429.6	1420.2	1404.1
9.5°	1314.9	1325.3	1342.4	1364.3	1391.0	1411.3	1425.1	1431.0	1428.8	1418.9	1402.4
10°	1308.5	1319.4	1337.4	1360.1	1388.3	1409.8	1424.1	1430.3	1428.1	1417.7	1400.2
10.5°	1302.1	1313.2	1332.0	1355.9	1385.6	1407.8	1423.1	1429.6	1427.1	1416.0	1397.9
11°	1295.4	1307.0	1326.3	1351.5	1382.4	1405.8	1421.9	1428.6	1425.6	1414.5	1395.5
11.5°	1288.5	1300.6	1320.6	1346.8	1379.2	1403.9	1420.4	1427.1	1424.4	1412.5	1392.7
12°	1281.6	1294.0	1314.9	1341.9	1375.7	1401.4	1418.7	1425.8	1422.6	1410.5	1390.0
12.5°	1274.4	1287.3	1308.8	1337.2	1372.2	1398.9	1416.7	1424.1	1420.9	1408.3	1386.8
13°	1267.3	1280.4	1302.6	1331.7	1368.3	1396.2	1414.7	1422.1	1418.9	1405.8	1383.6
13.5°	1259.9	1273.5	1296.2	1326.6	1364.3	1393.5	1412.5	1420.2	1416.5	1403.1	1380.4
14°	1252.5	1266.3	1289.8	1321.1	1360.1	1390.3	1410.0	1417.9	1414.2	1400.2	1376.7
14.5°	1244.8	1259.1	1283.1	1315.4	1355.7	1387.1	1407.3	1415.5	1411.5	1397.2	1373.0
15°	1237.1	1251.5	1276.2	1309.3	1351.3	1383.4	1404.6	1412.8	1408.8	1394.0	1369.0
15.5°	1229.2	1243.8	1269.0	1303.3	1346.3	1379.9	1401.6	1410.0	1405.8	1390.5	1364.8
16°	1221.3	1236.2	1262.1	1296.9	1341.4	1376.0	1398.4	1406.8	1402.4	1386.8	1360.4
16.5°	1213.2	1228.3	1254.7	1290.7	1336.4	1372.0	1395.0	1403.6	1399.2	1383.1	1355.9
17°	1204.8	1220.4	1247.0	1283.8	1331.3	1367.8	1391.5	1400.4	1395.5	1379.2	1351.3
17.5°	1196.6	1212.2	1239.4	1277.2	1325.6	1363.4	1387.6	1396.7	1391.8	1375.0	1346.6
18°	1188.0	1203.8	1231.7	1270.2	1319.6	1358.9	1383.6	1392.7	1387.6	1370.5	1341.4
18.5°	1179.6	1195.7	1223.6	1263.1	1314.0	1354.0	1379.4	1388.8	1383.6	1365.8	1336.2
19°	1170.7	1187.0	1215.7	1255.7	1307.8	1349.0	1375.0	1384.6	1379.2	1361.1	1330.8
19.5°	1161.8	1178.6	1207.3	1248.0	1301.6	1343.8	1370.5	1380.2	1374.5	1356.4	1325.1
20°	1153.2	1169.7	1199.1	1240.6	1294.9	1338.4	1366.1	1375.5	1369.8	1351.3	1319.4
20.5°	1143.8	1160.8	1190.5	1232.7	1288.3	1332.7	1361.1	1370.8	1364.8	1345.8	1313.2
21°	1134.6	1151.7	1181.8	1224.8	1281.6	1327.3	1355.9	1365.8	1359.9	1340.4	1307.3



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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°	1106.7	1124.0	1154.9	1199.6	1260.1	1308.8	1339.4	1350.0	1343.6	1323.1	1288.0
23°	1097.1	1114.4	1145.8	1191.0	1252.5	1302.4	1333.7	1344.3	1337.7	1316.9	1281.1
23.5°	1087.5	1105.0	1136.6	1182.1	1244.8	1295.7	1327.8	1338.4	1331.7	1310.5	1274.2
24°	1077.6	1095.4	1127.0	1173.2	1236.9	1288.8	1321.4	1332.5	1325.8	1303.8	1267.0
24.5°	1067.5	1085.5	1117.1	1163.8	1228.8	1281.6	1314.9	1326.3	1319.1	1297.2	1259.6
25°	1057.6	1075.4	1107.5	1154.7	1220.4	1274.7	1308.5	1319.9	1313.0	1290.5	1252.2
25.5°	1047.5	1065.5	1097.8	1145.3	1212.0	1267.0	1301.9	1313.5	1306.1	1283.6	1244.6
26°	1037.3	1055.4	1088.0	1135.6	1203.6	1259.4	1294.9	1306.8	1299.4	1276.2	1236.9
26.5°	1027.0	1045.2	1077.3	1125.8	1194.7	1251.7	1287.8	1299.6	1292.2	1269.0	1229.0
27°	1016.6	1034.9	1067.5	1116.1	1185.5	1243.8	1280.4	1292.7	1285.3	1261.4	1220.8
27.5°	1006.0	1024.2	1057.1	1106.0	1176.6	1235.7	1273.2	1285.6	1277.9	1253.9	1212.7
28°	995.4	1013.6	1046.7	1095.9	1167.3	1227.3	1265.6	1278.1	1270.2	1246.3	1204.1
28.5°	984.7	1003.0	1035.9	1085.5	1157.9	1218.9	1257.6	1270.5	1262.6	1238.1	1195.7
29°	974.1	992.6	1025.2	1075.4	1148.5	1210.5	1249.7	1263.1	1254.7	1230.0	1187.0
29.5°	963.2	981.8	1014.6	1065.0	1138.6	1201.3	1241.8	1254.9	1246.8	1221.8	1178.1
30°	952.1	970.7	1004.0	1054.4	1128.7	1192.7	1233.4	1247.0	1238.9	1213.4	1169.0
30.5°	941.0	959.8	992.6	1043.5	1118.8	1183.3	1224.8	1238.9	1230.7	1204.8	1159.8
31°	929.9	948.7	981.8	1032.9	1108.7	1173.9	1216.2	1230.7	1222.3	1196.1	1150.7
31.5°	918.8	937.6	970.4	1021.8	1098.3	1164.3	1207.5	1222.1	1213.4	1187.3	1141.1
32°	907.4	926.4	959.3	1010.7	1087.7	1155.1	1198.6	1213.4	1205.0	1178.4	1131.7
32.5°	896.1	915.1	947.9	999.8	1077.3	1145.3	1189.7	1204.5	1196.4	1169.2	1122.1
33°	884.5	903.5	936.8	988.7	1067.0	1135.1	1180.3	1195.7	1187.3	1160.1	1112.4
33.5°	873.1	892.1	925.2	977.1	1056.1	1125.3	1171.0	1186.8	1178.1	1150.7	1102.8
34°	861.5	880.7	913.8	966.0	1045.2	1115.1	1161.3	1177.6	1168.7	1141.1	1092.4
34.5°	849.6	869.1	902.0	954.4	1033.9	1104.5	1151.7	1168.0	1159.3	1131.4	1082.3
35°	837.8	857.3	890.6	942.7	1023.0	1094.1	1142.1	1158.6	1150.0	1121.8	1072.2
35.5°	826.2	845.7	878.5	931.4	1011.9	1083.8	1131.9	1149.0	1140.6	1112.2	1062.0
36°	814.3	833.8	867.2	919.8	1000.5	1072.9	1122.1	1139.3	1130.9	1102.0	1051.4
36.5°	802.5	822.0	855.3	907.9	989.2	1062.0	1111.9	1129.5	1120.8	1092.4	1041.0
37°	790.4	809.9	843.0	896.1	977.6	1051.2	1101.6	1119.3	1110.9	1082.0	1030.4
37.5°	778.3	798.0	831.4	884.2	966.0	1040.1	1090.9	1109.2	1100.8	1071.9	1019.6
38°	765.9	785.9	819.5	872.4	954.6	1028.9	1080.6	1099.1	1090.7	1061.3	1008.7
38.5°	754.0	774.1	807.4	860.5	942.7	1017.6	1069.7	1088.7	1080.6	1051.2	998.3
39°	742.2	761.7	795.5	848.4	931.1	1006.2	1059.1	1078.3	1069.9	1040.5	987.2
39.5°	729.6	749.8	783.4	836.5	919.5	994.9	1048.2	1067.7	1059.8	1029.9	976.3
40°	717.0	737.5	771.6	824.4	907.4	983.2	1037.1	1057.1	1049.2	1019.3	965.0
40.5°	704.9	725.1	759.0	812.3	895.1	971.9	1026.0	1046.2	1038.3	1008.7	954.1
41°	692.5	712.8	747.1	800.2	883.2	959.8	1014.6	1035.4	1027.7	997.6	942.7
41.5°	680.0	700.7	734.8	787.9	871.6	948.2	1003.5	1024.5	1017.1	987.0	931.6
42°	667.4	688.1	722.7	776.0	859.0	936.3	992.1	1013.4	1006.0	975.8	920.3
42.5°	655.0	676.0	710.8	763.9	847.4	924.7	980.8	1002.3	995.1	965.0	908.9
43°	642.7	663.6	698.5	751.8	835.1	912.9	969.2	991.2	984.0	953.6	897.5
43.5°	630.1	651.3	686.4	739.7	823.2	901.0	957.8	980.0	973.1	942.5	886.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	592.0	614.0	649.8	703.4	786.4	864.9	922.5	945.7	939.3	908.9	851.9
45.5°	579.4	601.9	638.2	691.6	775.0	852.8	910.9	934.3	928.2	897.5	840.5
46°	566.8	589.3	625.9	679.5	762.4	840.5	899.0	923.0	916.8	886.7	829.4
46.5°	553.7	577.2	614.0	667.6	750.3	828.9	887.7	911.9	906.2	875.8	818.5
47°	540.9	564.6	601.9	655.7	738.2	817.0	876.3	900.8	895.6	865.2	807.6
47.5°	528.5	552.3	590.0	643.9	726.9	805.4	865.2	890.1	884.7	854.3	796.5
48°	516.0	540.2	577.9	632.0	714.8	794.1	853.8	879.3	874.1	843.7	785.9
48.5°	503.4	527.8	566.1	620.7	703.4	782.7	843.0	868.4	863.2	832.6	774.5
49°	490.5	515.7	554.2	609.1	691.6	770.8	831.4	857.0	851.9	820.7	762.9
49.5°	478.2	503.6	542.6	597.5	679.7	759.2	819.7	845.7	839.7	808.1	750.1
50°	465.3	491.3	531.0	585.4	667.8	747.1	807.1	832.3	825.7	794.3	737.3
50.5°	452.7	479.2	518.9	574.0	656.0	734.0	793.3	818.0	810.9	778.7	722.7
51°	439.6	467.3	507.3	561.9	643.4	720.2	779.0	802.2	793.3	762.4	708.1
51.5°	427.5	455.2	495.7	549.8	630.3	706.6	763.9	785.7	776.5	745.6	692.1
52°	414.9	443.1	483.8	537.7	617.5	691.8	747.6	767.9	759.0	728.1	675.5
52.5°	402.6	431.2	472.2	525.1	603.6	676.7	730.8	749.6	740.2	709.8	658.5
53°	390.2	419.4	460.4	512.7	589.6	661.4	713.3	731.1	722.2	691.6	641.7
53.5°	377.9	407.5	448.3	500.1	576.0	645.6	695.5	712.6	702.7	672.8	624.1
54°	365.3	395.7	436.4	487.1	561.6	629.3	678.0	694.0	683.2	654.0	606.8
54.5°	353.2	383.8	424.6	474.7	548.1	613.5	659.7	674.8	663.9	635.2	589.3
55°	341.1	372.2	412.7	462.4	533.5	597.2	641.7	656.0	644.9	616.5	572.0
55.5°	328.7	360.6	400.4	449.5	519.4	580.9	622.9	637.0	625.1	597.2	554.0
56°	317.1	348.7	388.5	436.7	504.8	563.9	604.6	617.7	605.4	577.7	536.5
56.5°	305.0	336.9	376.7	423.8	490.5	547.1	585.8	598.4	586.3	558.9	518.7
57°	293.2	325.3	364.6	411.0	475.7	530.3	567.8	578.9	566.8	540.4	501.4
57.5°	281.3	313.7	352.4	398.1	461.6	513.7	549.0	559.9	547.8	521.1	483.6
58°	270.0	302.3	340.8	385.3	446.8	496.7	531.5	540.9	529.3	502.4	466.3
58.5°	258.6	290.7	328.7	372.7	432.2	480.1	513.0	522.1	510.3	484.1	449.3
59°	247.0	279.6	317.1	359.6	417.4	463.3	494.7	503.4	491.5	466.3	432.0
59.5°	235.9	268.2	305.3	347.0	403.3	446.8	476.9	484.6	473.0	448.0	414.9
60°	224.8	257.1	293.9	334.7	388.5	430.5	459.1	466.3	454.9	430.5	398.9
60.5°	213.6	245.8	282.3	322.1	374.2	413.9	441.1	448.3	437.2	413.2	382.3
61°	202.8	235.1	270.7	309.5	359.6	398.1	423.8	430.5	419.4	396.7	366.5
61.5°	192.4	224.3	259.6	297.1	345.8	382.6	406.8	412.7	402.1	380.1	351.2
62°	181.8	213.6	248.7	285.0	331.5	367.3	390.5	395.7	385.0	364.1	336.1
62.5°	171.4	203.0	237.4	272.9	317.9	351.7	372.9	378.4	368.3	348.2	321.1
63°	161.5	192.9	226.5	260.8	304.0	336.1	356.6	361.6	352.2	332.4	306.5
63.5°	151.9	182.5	215.6	249.0	290.7	321.8	340.6	345.3	335.4	317.6	292.7
64°	142.3	172.6	204.8	237.1	277.4	306.8	325.5	329.5	318.9	303.8	279.3
64.5°	133.4	163.0	194.1	225.5	264.5	292.4	310.0	313.7	303.1	289.5	266.3
65°	124.7	153.6	183.8	214.1	251.9	278.6	294.9	298.9	287.7	275.9	253.4
65.5°	116.1	144.0	173.4	203.3	239.8	265.0	280.6	284.0	271.9	262.3	241.3
66°	108.2	135.1	163.0	191.9	227.7	251.4	266.7	269.5	257.1	249.5	229.4



TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	87.4	108.9	133.9	160.5	193.6	215.1	227.5	229.4	217.3	214.1	197.6
68°	83.0	100.8	124.7	150.9	182.3	203.8	216.1	217.6	205.5	202.8	187.0
68.5°	78.3	93.1	115.8	141.0	172.1	192.4	204.8	206.0	193.4	191.4	176.3
69°	73.8	86.9	107.4	131.9	162.0	181.0	193.4	194.4	181.3	180.3	167.0
69.5°	69.2	81.0	99.3	122.5	152.1	170.2	181.8	182.8	170.7	170.2	157.6
70°	66.9	75.1	91.9	114.4	142.8	160.3	171.7	172.9	160.8	160.5	148.7
70.5°	64.5	68.9	86.0	106.2	133.9	150.9	162.3	163.3	151.4	151.6	140.5
71°	61.7	63.0	80.0	98.3	125.5	141.8	152.9	153.9	142.5	142.8	132.4
71.5°	59.0	60.3	73.8	91.1	117.1	132.9	143.7	144.7	133.9	134.4	124.5
72°	56.1	57.8	67.9	85.2	109.2	125.0	135.3	136.6	125.7	126.2	117.1
72.5°	53.3	55.3	62.0	79.3	101.5	116.8	127.4	128.4	118.1	118.8	109.9
73°	50.6	52.6	57.3	73.4	94.6	109.4	119.8	121.0	110.6	111.1	103.0
73.5°	47.9	50.1	53.1	67.2	87.9	102.3	112.1	113.6	104.0	104.5	96.6
74°	45.4	47.7	49.4	61.3	81.5	95.6	105.5	106.7	97.1	97.8	90.4
74.5°	42.7	45.2	46.2	56.6	75.3	88.9	98.8	100.0	90.6	91.4	84.5
75°	40.5	42.7	43.2	52.1	69.6	82.7	92.6	93.6	84.5	85.5	78.5
75.5°	38.0	40.5	40.8	47.9	64.5	77.1	86.4	87.7	78.5	79.5	73.1
76°	35.8	38.0	38.3	44.2	59.3	71.4	80.5	81.8	72.6	73.8	67.9
76.5°	33.6	35.8	36.3	40.5	54.6	66.2	75.1	76.1	67.2	68.7	63.0
77°	31.4	33.6	34.1	37.3	50.1	61.3	69.6	70.9	61.7	63.5	58.3
77.5°	29.4	31.6	32.1	34.3	45.9	56.6	64.7	65.7	56.8	58.5	53.8
78°	27.2	29.4	30.1	31.6	42.0	52.1	59.8	60.8	51.9	53.8	49.4
78.5°	25.4	27.4	28.2	28.9	38.3	47.7	55.1	56.1	46.9	49.6	45.2
79°	23.5	25.4	26.4	26.4	34.8	43.7	50.6	51.4	42.5	45.2	41.2
79.5°	21.7	23.5	24.7	24.2	31.6	39.8	46.4	47.2	38.3	41.2	37.5
80°	20.0	21.7	23.0	22.2	28.7	36.1	42.2	43.0	34.1	37.3	33.8
80.5°	18.3	20.0	21.2	20.3	25.9	32.6	38.3	39.0	29.9	33.6	30.4
81°	16.5	18.3	19.5	18.5	23.5	29.4	34.6	35.3	26.4	30.1	27.2
81.5°	15.1	16.8	18.0	17.0	21.2	26.4	30.9	31.6	23.2	26.9	24.5
82°	13.6	15.1	16.5	15.6	19.0	23.7	27.4	28.4	19.8	24.2	21.7
82.5°	12.1	13.6	15.1	14.1	16.8	21.2	24.7	25.4	16.3	21.5	19.0
83°	10.6	12.1	13.6	12.8	14.6	18.8	22.0	22.7	13.1	18.8	16.3
83.5°	9.1	10.6	12.1	11.6	12.8	16.3	19.3	20.0	10.4	15.8	13.6
84°	7.9	9.1	10.9	10.4	11.1	13.8	16.3	17.0	7.7	13.1	11.6
84.5°	6.7	7.9	9.6	9.1	9.6	11.9	13.6	14.3	5.4	10.9	9.6
85°	5.4	6.7	8.4	8.2	8.4	9.9	11.4	11.6	3.7	8.9	7.9
85.5°	4.2	5.4	7.4	7.2	7.2	8.4	9.4	9.4	2.5	6.9	6.2
86°	3.2	4.4	6.2	6.2	5.9	6.7	7.7	7.2	1.7	5.2	4.7
86.5°	2.7	3.5	4.9	4.9	4.9	5.4	5.9	5.4	1.5	3.7	3.5
87°	2.0	2.7	4.0	4.0	4.0	4.2	4.4	4.0	1.0	2.5	2.5
87.5°	1.5	2.0	3.0	3.0	3.2	3.2	3.2	2.7	0.7	1.5	1.5
88°	1.0	1.5	2.0	2.2	2.5	2.2	2.0	1.5	0.5	0.7	0.7
88.5°	0.5	0.7	1.2	1.2	1.5	1.2	1.0	0.7	0.2	0.2	0.2



TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1406.1	1406.1	1406.1	1406.1	1406.1	1406.1
0.5°	1406.3	1405.8	1403.9	1402.6	1402.1	1402.6
1°	1406.6	1404.6	1401.4	1399.7	1398.7	1399.2
1.5°	1406.3	1403.1	1399.2	1396.2	1395.0	1395.7
2°	1406.3	1401.6	1396.5	1392.7	1391.0	1392.0
2.5°	1405.8	1399.9	1393.5	1389.3	1387.1	1387.8
3°	1405.3	1397.9	1390.5	1385.3	1382.9	1383.9
3.5°	1404.6	1395.7	1387.3	1381.4	1378.7	1379.7
4°	1403.6	1393.5	1384.1	1377.2	1374.2	1375.0
4.5°	1402.4	1391.0	1380.6	1372.7	1369.3	1370.5
5°	1401.1	1388.6	1376.9	1368.3	1364.3	1365.6
5.5°	1399.7	1385.6	1373.0	1363.6	1359.4	1360.6
6°	1397.9	1382.6	1368.8	1358.7	1354.2	1355.5
6.5°	1396.0	1379.4	1364.6	1353.7	1348.8	1350.3
7°	1394.0	1376.2	1360.4	1348.5	1343.1	1344.8
7.5°	1391.5	1372.5	1355.7	1343.1	1337.4	1339.2
8°	1389.3	1368.8	1351.0	1337.7	1331.7	1333.2
8.5°	1386.6	1365.1	1345.8	1332.0	1325.6	1327.3
9°	1383.9	1360.9	1340.9	1326.3	1319.4	1321.4
9.5°	1380.9	1356.4	1335.4	1320.1	1313.0	1314.9
10°	1377.7	1352.2	1330.0	1314.0	1306.6	1308.5
10.5°	1374.2	1347.6	1324.3	1307.8	1300.1	1302.1
11°	1370.8	1342.9	1318.7	1301.4	1293.5	1295.4
11.5°	1367.1	1337.7	1312.7	1294.7	1286.5	1288.5
12°	1363.4	1332.5	1306.6	1288.0	1279.4	1281.6
12.5°	1359.2	1327.3	1300.1	1280.9	1272.2	1274.4
13°	1355.0	1321.9	1293.7	1273.9	1265.1	1267.3
13.5°	1350.5	1315.9	1287.3	1266.8	1257.4	1259.9
14°	1345.8	1310.3	1280.4	1259.6	1250.0	1252.5
14.5°	1341.1	1304.1	1273.5	1252.2	1242.3	1244.8
15°	1335.9	1297.9	1266.5	1244.6	1234.4	1237.1
15.5°	1330.8	1291.7	1259.1	1236.7	1226.5	1229.2
16°	1325.6	1285.1	1251.7	1228.8	1218.6	1221.3
16.5°	1320.1	1278.4	1244.1	1220.8	1210.2	1213.2
17°	1314.5	1271.5	1236.4	1212.7	1202.1	1204.8
17.5°	1308.5	1264.6	1228.5	1204.3	1193.4	1196.6
18°	1302.4	1257.2	1220.6	1195.9	1185.0	1188.0
18.5°	1296.2	1249.7	1212.2	1187.3	1176.4	1179.6
19°	1289.8	1242.1	1204.1	1178.6	1167.5	1170.7
19.5°	1283.1	1234.4	1195.7	1169.7	1158.6	1161.8
20°	1276.4	1226.5	1187.0	1161.1	1149.7	1153.2
20.5°	1269.5	1218.6	1178.1	1151.9	1140.6	1143.8
21°	1262.3	1210.2	1169.2	1142.6	1131.2	1134.6

TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1240.1	1184.8	1141.6	1114.4	1103.0	1106.7
23°	1232.2	1175.6	1132.2	1104.8	1093.4	1097.1
23.5°	1224.6	1167.0	1122.8	1095.1	1083.8	1087.5
24°	1216.4	1157.6	1112.9	1085.3	1073.6	1077.6
24.5°	1208.0	1148.5	1103.3	1075.4	1063.5	1067.5
25°	1199.6	1138.8	1093.2	1065.2	1053.6	1057.6
25.5°	1191.0	1129.5	1083.3	1054.9	1043.5	1047.5
26°	1182.3	1120.1	1072.9	1044.5	1033.1	1037.3
26.5°	1173.2	1110.0	1063.0	1034.4	1022.8	1027.0
27°	1164.3	1099.8	1052.4	1024.0	1012.4	1016.6
27.5°	1155.4	1089.9	1042.0	1013.4	1001.8	1006.0
28°	1146.0	1079.8	1031.2	1002.5	990.9	995.4
28.5°	1136.9	1069.7	1020.8	991.9	980.5	984.7
29°	1127.0	1059.1	1009.9	981.0	969.4	974.1
29.5°	1117.4	1048.7	999.1	970.2	958.5	963.2
30°	1107.5	1038.3	988.2	959.0	947.4	952.1
30.5°	1097.8	1027.5	977.1	947.9	936.6	941.0
31°	1087.7	1016.6	965.7	936.8	925.2	929.9
31.5°	1077.3	1005.7	954.8	925.5	914.1	918.8
32°	1067.0	994.6	943.5	914.1	902.5	907.4
32.5°	1056.8	983.7	932.1	902.7	891.4	896.1
33°	1046.2	972.9	920.8	891.4	879.8	884.5
33.5°	1035.6	961.5	909.4	879.8	868.4	873.1
34°	1025.0	950.2	897.8	868.2	856.8	861.5
34.5°	1014.1	938.8	885.9	856.5	845.2	849.6
35°	1003.3	927.4	874.3	844.7	833.1	837.8
35.5°	992.4	915.8	863.0	832.8	821.7	826.2
36°	981.5	904.7	851.1	821.2	809.9	814.3
36.5°	970.4	892.9	839.5	809.4	797.8	802.5
37°	959.0	881.2	827.4	797.3	785.9	790.4
37.5°	947.9	869.9	815.8	785.4	774.1	778.3
38°	936.6	858.0	803.7	773.3	761.9	765.9
38.5°	925.2	846.2	792.1	761.5	749.8	754.0
39°	913.8	834.8	780.2	749.6	737.7	742.2
39.5°	902.5	823.0	768.4	737.5	725.6	729.6
40°	890.9	811.1	756.3	725.1	713.3	717.0
40.5°	879.5	799.5	744.4	713.3	701.2	704.9
41°	867.9	787.4	732.6	701.2	688.6	692.5
41.5°	856.3	775.8	720.5	689.1	676.2	680.0
42°	844.7	764.2	708.6	677.0	664.1	667.4
42.5°	833.1	752.6	697.0	664.9	651.8	655.0
43°	821.7	741.0	685.1	652.8	639.4	642.7
43.5°	809.9	728.9	673.5	640.7	627.1	630.1

TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	775.3	694.0	638.0	604.6	590.0	592.0
45.5°	763.7	682.4	626.4	592.5	577.5	579.4
46°	752.3	671.3	615.0	580.9	565.1	566.8
46.5°	741.2	660.2	603.6	568.8	552.8	553.7
47°	730.1	649.1	592.0	557.0	540.4	540.9
47.5°	719.0	637.7	580.7	545.1	528.3	528.5
48°	708.4	627.3	569.5	533.2	516.0	516.0
48.5°	697.5	616.2	558.2	521.6	503.4	503.4
49°	686.1	605.1	547.3	510.3	491.3	490.5
49.5°	674.0	594.0	536.5	498.7	479.2	478.2
50°	661.7	582.4	525.3	487.1	466.8	465.3
50.5°	648.6	570.3	513.7	475.7	454.9	452.7
51°	635.2	558.2	502.6	464.3	442.6	439.6
51.5°	621.4	545.6	491.3	453.0	430.7	427.5
52°	607.3	533.0	479.6	441.9	418.9	414.9
52.5°	592.5	519.9	467.8	430.2	406.8	402.6
53°	577.9	506.8	455.9	418.9	395.2	390.2
53.5°	562.4	493.5	444.1	407.3	383.3	377.9
54°	546.8	480.1	432.0	396.2	371.7	365.3
54.5°	531.3	466.8	419.9	384.6	360.1	353.2
55°	516.0	453.2	407.5	372.9	348.7	341.1
55.5°	499.9	439.1	395.4	361.3	336.9	328.7
56°	484.1	425.6	383.1	350.0	325.5	317.1
56.5°	468.5	412.0	371.0	338.4	314.2	305.0
57°	453.0	398.1	358.4	327.0	302.8	293.2
57.5°	437.2	384.3	346.0	315.2	291.4	281.3
58°	421.9	370.7	333.9	304.0	280.6	270.0
58.5°	406.8	357.1	321.8	292.4	269.2	258.6
59°	391.2	343.6	309.7	281.1	258.1	247.0
59.5°	376.4	330.0	297.6	270.0	247.2	235.9
60°	361.6	316.9	285.8	258.8	236.4	224.8
60.5°	347.0	303.8	273.9	247.7	225.5	213.6
61°	332.4	290.9	262.3	236.9	214.9	202.8
61.5°	318.4	278.6	250.7	226.2	204.5	192.4
62°	305.0	266.3	239.3	215.6	194.4	181.8
62.5°	291.2	254.1	228.2	205.0	184.3	171.4
63°	277.9	242.0	217.3	194.6	174.4	161.5
63.5°	264.8	230.7	206.5	184.5	164.5	151.9
64°	252.2	219.3	195.9	174.4	155.1	142.3
64.5°	240.1	208.5	185.5	164.5	145.7	133.4
65°	228.2	197.6	175.4	154.9	137.1	124.7
65.5°	217.1	187.2	165.5	145.2	128.2	116.1
66°	206.2	176.8	155.6	136.1	119.8	108.2



TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRH-HCD61TRLWW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	174.6	148.4	128.4	109.9	96.1	87.4
68°	165.0	139.5	119.8	102.3	89.2	83.0
68.5°	155.8	131.1	111.9	94.6	83.7	78.3
69°	147.0	123.0	103.7	87.2	78.5	73.8
69.5°	138.6	115.3	96.3	81.5	73.4	69.2
70°	130.4	107.7	89.7	75.8	67.9	66.9
70.5°	122.8	100.5	84.0	70.1	62.7	64.5
71°	115.1	93.9	78.3	64.5	60.3	61.7
71.5°	108.2	87.2	72.6	60.0	58.0	59.0
72°	101.3	81.8	66.9	56.1	55.6	56.1
72.5°	94.8	76.3	61.3	52.4	52.9	53.3
73°	88.4	70.9	56.6	48.9	50.1	50.6
73.5°	82.5	65.2	52.4	45.9	47.7	47.9
74°	76.8	60.5	48.4	43.5	45.2	45.4
74.5°	71.6	55.8	44.7	41.2	42.7	42.7
75°	66.4	51.6	41.5	39.3	40.5	40.5
75.5°	61.5	47.4	38.3	37.0	38.0	38.0
76°	56.8	43.7	35.6	35.1	35.8	35.8
76.5°	52.6	40.0	32.8	33.1	33.6	33.6
77°	48.4	36.6	30.4	31.1	31.6	31.4
77.5°	44.5	33.6	28.2	29.1	29.6	29.4
78°	40.5	30.4	25.9	27.4	27.7	27.2
78.5°	37.0	27.7	24.0	25.7	25.7	25.4
79°	33.6	25.2	22.2	24.0	23.7	23.5
79.5°	30.6	22.7	20.5	22.2	22.0	21.7
80°	27.7	20.5	19.0	20.5	20.3	20.0
80.5°	24.7	18.5	17.8	19.0	18.5	18.3
81°	22.5	16.5	16.3	17.5	16.8	16.5
81.5°	20.3	14.8	15.1	16.1	15.3	15.1
82°	17.8	13.3	13.6	14.6	13.6	13.6
82.5°	15.6	11.9	12.3	13.1	12.1	12.1
83°	13.1	10.4	11.1	11.9	10.6	10.6
83.5°	11.4	9.1	9.9	10.6	9.1	9.1
84°	9.6	7.9	8.9	9.4	8.2	7.9
84.5°	8.2	6.9	7.7	8.2	6.9	6.7
85°	6.7	5.9	6.7	6.9	5.7	5.4
85.5°	5.4	4.7	5.4	5.9	4.4	4.2
86°	4.2	4.0	4.4	4.7	3.7	3.2
86.5°	3.2	3.0	3.5	3.7	3.0	2.7
87°	2.2	2.2	2.5	2.7	2.2	2.0
87.5°	1.5	1.2	1.5	1.7	1.5	1.5
88°	1.0	0.5	0.7	1.0	1.0	1.0
88.5°	0.2	0.2	0.2	0.2	0.5	0.5



TEST NUMBER: P776036

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRH-HCD61TRLWW-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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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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°	1125.5	1142.6	1172.9	1216.4	1274.4	1321.1	1350.5	1360.9	1354.7	1335.0	1300.9
22°	1116.1	1133.4	1164.0	1208.0	1267.5	1314.9	1345.3	1355.5	1349.0	1328.8	1294.4



44°	617.0	638.7	674.3	727.6	810.9	888.7	946.0	968.4	961.8	931.4	874.8
44.5°	604.6	626.4	662.2	715.8	798.8	876.8	934.3	957.1	950.6	920.3	863.5



66.5°	100.5	126.2	153.1	181.3	216.4	238.6	253.2	255.6	242.8	236.6	218.8
67°	93.4	117.6	143.5	170.7	205.0	226.5	240.3	242.3	229.4	225.3	208.2



89°	0.2	0.2	0.5	0.5	1.0	0.7	0.5	0.2	0.0	0.0	0.0
89.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0

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21.5°	1255.2	1201.8	1160.3	1133.2	1121.8	1125.5
22°	1247.5	1193.4	1151.0	1124.0	1112.4	1116.1



44°	798.3	717.2	661.4	628.6	614.5	617.0
44.5°	786.4	705.6	649.8	616.5	602.4	604.6



66.5°	195.1	167.2	146.2	126.7	111.6	100.5
67°	184.3	157.3	137.1	118.6	103.7	93.4

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

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(END OF REPORT)