

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: P776046

Luminaire Tested: HCDJBS1525CSD-HCD61TRMW-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776046
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-3000K
Description: 6 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

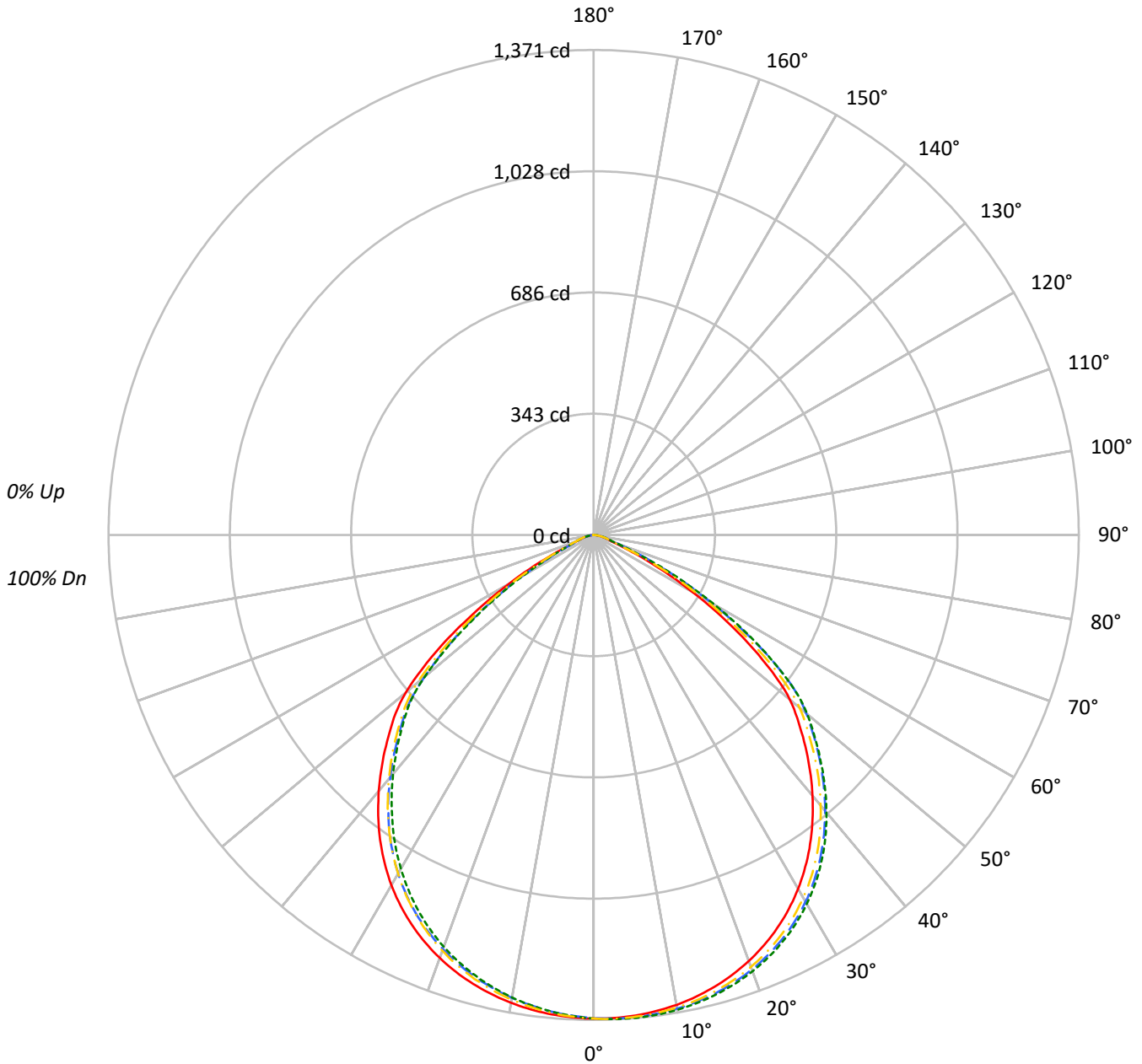
Lumens per Lamp: N/A
Luminaire Lumens: 3016.4 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P776046
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-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	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°	74928	74928	74928	74928
5°	75038	75418	74879	74455
10°	75099	75878	74765	73902
15°	75034	76283	74586	73213
20°	74784	76581	74236	72258
25°	74206	76644	73565	70903
30°	73125	76252	72359	68979
35°	71373	75195	70416	66368
40°	68865	73244	67591	63097
45°	65604	70426	64014	59285
50°	61721	67239	59026	53124
55°	50894	58569	46364	39683
60°	35315	43089	30272	24998
65°	19133	25437	14450	12777
70°	9104	10803	7950	7918
75°	7329	8261	6079	6375
80°	5525	6787	4136	4830
85°	3397	5409	1698	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 72403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	4.3
10°-20°	371.7	12.3
20°-30°	561.7	18.6
30°-40°	660.6	21.9
40°-50°	643.3	21.3
50°-60°	453.8	15.0
60°-70°	152.0	5.0
70°-80°	36.7	1.2
80°-90°	7.3	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°	1062.8	35.2
0°-40°	1723.3	57.1
0°-60°	2820.3	93.5
0°-90°	3016.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1367	1367	1367	1367	1367	
5°	1364	1370	1361	1353	1364	130
15°	1322	1344	1314	1290	1322	373
25°	1227	1267	1216	1172	1227	565
35°	1066	1124	1052	992	1066	666
45°	846	908	826	765	846	652
55°	532	613	485	415	532	472
65°	148	196	111	98	148	158
75°	35	39	29	30	35	37
85°	5	9	3	4	5	7
90°	0	0	0	0	0	



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1366.8	1366.8	1366.8	1366.8	1366.8	1366.8	1366.8	1366.8	1366.8	1366.8	1366.8
0.5°	1367.6	1367.3	1366.6	1365.4	1368.1	1368.3	1368.1	1368.1	1367.3	1366.3	1365.1
1°	1367.6	1367.6	1367.3	1366.3	1368.8	1368.8	1368.6	1368.1	1367.1	1365.8	1364.1
1.5°	1367.6	1367.8	1367.6	1367.1	1369.3	1369.3	1368.8	1367.8	1366.3	1364.9	1363.1
2°	1367.3	1367.8	1368.1	1367.8	1369.8	1369.6	1368.8	1367.6	1365.8	1364.1	1361.9
2.5°	1366.8	1367.8	1368.3	1368.3	1370.3	1369.6	1368.8	1367.3	1365.4	1363.1	1360.9
3°	1366.6	1367.8	1368.6	1368.8	1370.3	1369.8	1368.8	1366.8	1364.4	1362.1	1359.4
3.5°	1365.8	1367.8	1368.8	1369.3	1370.5	1369.8	1368.6	1366.3	1363.6	1360.9	1357.9
4°	1365.4	1367.3	1368.6	1369.6	1370.5	1369.8	1368.3	1365.8	1362.9	1359.7	1356.5
4.5°	1364.4	1366.8	1368.6	1369.8	1370.8	1369.6	1368.1	1364.9	1361.6	1358.2	1354.5
5°	1363.6	1366.3	1368.3	1369.8	1370.5	1369.3	1367.3	1364.1	1360.7	1356.7	1353.0
5.5°	1362.6	1365.8	1367.8	1369.6	1370.3	1368.8	1366.8	1363.1	1359.4	1355.2	1351.0
6°	1361.6	1364.9	1367.6	1369.6	1369.8	1368.3	1366.3	1362.1	1357.9	1353.5	1349.1
6.5°	1360.4	1364.1	1366.8	1369.3	1369.3	1367.8	1365.4	1360.9	1356.5	1351.5	1346.8
7°	1359.2	1363.1	1366.1	1368.8	1368.8	1366.8	1364.6	1359.7	1355.0	1349.8	1344.6
7.5°	1357.7	1362.1	1365.4	1368.3	1368.1	1366.1	1363.6	1358.2	1353.2	1347.8	1342.1
8°	1356.2	1360.9	1364.4	1367.8	1367.3	1365.1	1362.4	1356.7	1351.5	1345.6	1339.9
8.5°	1354.5	1359.7	1363.6	1367.3	1366.3	1364.1	1360.9	1355.2	1349.5	1343.4	1337.2
9°	1352.8	1358.2	1362.4	1366.3	1365.4	1362.9	1359.7	1353.5	1347.6	1340.9	1334.7
9.5°	1350.8	1356.7	1361.2	1365.4	1364.4	1361.6	1358.4	1351.8	1345.3	1338.4	1331.8
10°	1349.1	1355.0	1359.9	1364.4	1363.1	1360.2	1356.7	1349.5	1343.1	1336.0	1329.0
10.5°	1346.8	1353.2	1358.4	1363.4	1361.6	1358.4	1355.0	1347.6	1340.7	1333.2	1325.8
11°	1344.6	1351.3	1356.7	1361.9	1360.2	1357.0	1353.2	1345.3	1338.2	1330.5	1322.9
11.5°	1342.1	1349.3	1355.2	1360.7	1358.4	1355.0	1351.3	1343.1	1335.7	1327.6	1319.7
12°	1339.7	1347.1	1353.2	1359.2	1356.7	1353.2	1349.3	1340.7	1333.0	1324.6	1316.4
12.5°	1336.9	1344.9	1351.3	1357.4	1355.0	1351.3	1347.1	1338.2	1330.0	1321.4	1313.0
13°	1334.2	1342.4	1349.3	1355.7	1353.0	1349.3	1344.9	1335.5	1327.1	1318.2	1309.3
13.5°	1331.3	1340.2	1347.1	1354.0	1351.0	1346.8	1342.4	1332.7	1324.1	1314.7	1305.6
14°	1328.3	1337.4	1344.9	1352.0	1348.8	1344.6	1339.9	1329.8	1320.9	1311.3	1301.9
14.5°	1325.3	1334.7	1342.4	1350.0	1346.3	1342.1	1337.2	1326.8	1317.4	1307.6	1297.7
15°	1322.1	1331.8	1339.9	1347.6	1344.1	1339.7	1334.5	1323.6	1314.2	1304.1	1293.7
15.5°	1318.7	1328.8	1337.2	1345.3	1341.6	1336.7	1331.5	1320.4	1310.5	1300.1	1289.5
16°	1315.2	1325.6	1334.5	1342.9	1338.9	1334.0	1328.3	1316.9	1307.1	1296.2	1285.3
16.5°	1311.5	1322.4	1331.3	1340.7	1336.0	1331.0	1325.3	1313.5	1303.1	1292.0	1280.9
17°	1307.6	1318.9	1328.6	1337.7	1333.2	1327.8	1322.1	1309.8	1299.2	1287.8	1276.2
17.5°	1303.6	1315.5	1325.3	1335.0	1330.0	1324.6	1318.7	1305.8	1295.0	1283.4	1271.5
18°	1299.7	1311.8	1322.1	1332.0	1326.8	1321.4	1315.0	1301.9	1290.8	1278.9	1266.8
18.5°	1295.5	1308.1	1318.7	1328.8	1323.4	1317.7	1311.3	1297.9	1286.6	1274.2	1261.6
19°	1291.0	1304.1	1315.0	1325.6	1320.2	1314.2	1307.6	1293.7	1281.9	1269.5	1256.7
19.5°	1286.6	1299.9	1311.3	1322.4	1316.4	1310.3	1303.6	1289.3	1277.2	1264.6	1251.5
20°	1281.9	1295.7	1307.3	1318.9	1312.7	1306.3	1299.7	1284.8	1272.5	1259.4	1246.1
20.5°	1277.2	1291.5	1303.6	1315.2	1308.8	1302.1	1295.2	1280.1	1267.5	1254.2	1240.4
21°	1272.2	1286.8	1299.4	1311.5	1304.8	1297.9	1290.8	1275.2	1262.6	1249.0	1234.9



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1256.2	1272.5	1286.1	1299.7	1291.7	1284.3	1276.7	1260.1	1246.3	1232.0	1217.2
23°	1250.7	1267.5	1281.4	1295.2	1287.1	1279.6	1271.7	1254.7	1240.4	1226.1	1210.5
23.5°	1245.1	1262.1	1276.4	1290.8	1282.4	1274.7	1266.6	1249.0	1234.7	1219.9	1204.3
24°	1239.1	1256.7	1271.2	1286.3	1277.4	1269.5	1261.1	1243.3	1228.5	1213.7	1197.6
24.5°	1233.2	1251.0	1266.1	1281.4	1272.2	1264.1	1255.7	1237.4	1222.3	1207.0	1191.0
25°	1226.8	1245.1	1260.6	1276.4	1267.1	1258.7	1250.3	1231.5	1216.2	1200.6	1184.1
25.5°	1220.4	1239.1	1255.2	1271.2	1261.6	1253.0	1244.3	1225.1	1209.5	1193.9	1176.7
26°	1213.7	1233.0	1249.3	1266.1	1255.9	1247.3	1238.4	1218.6	1202.8	1187.0	1169.5
26.5°	1207.3	1226.8	1243.6	1260.6	1250.3	1241.1	1232.5	1212.2	1195.9	1179.6	1162.1
27°	1200.1	1220.1	1237.4	1254.9	1244.3	1235.2	1226.1	1205.3	1189.0	1172.7	1154.4
27.5°	1193.2	1213.7	1231.2	1249.3	1238.2	1228.8	1219.4	1198.4	1181.8	1165.3	1146.8
28°	1185.8	1207.0	1225.1	1243.3	1231.7	1222.1	1213.0	1191.5	1174.4	1157.4	1138.6
28.5°	1178.6	1199.9	1218.4	1237.4	1225.3	1215.4	1206.0	1184.3	1166.8	1149.7	1130.7
29°	1171.0	1192.7	1211.7	1231.0	1218.6	1208.5	1198.9	1176.9	1159.1	1141.6	1122.3
29.5°	1163.1	1185.5	1204.6	1224.6	1211.7	1201.4	1191.7	1169.2	1151.0	1133.4	1113.9
30°	1155.2	1177.9	1197.6	1217.9	1204.6	1194.4	1184.6	1161.3	1143.1	1125.0	1105.0
30.5°	1147.3	1170.2	1190.5	1211.0	1197.4	1186.8	1176.7	1153.4	1134.7	1116.4	1096.1
31°	1138.9	1162.6	1182.8	1204.3	1190.0	1179.1	1169.0	1145.3	1126.3	1107.7	1087.2
31.5°	1130.5	1154.4	1175.2	1196.9	1182.3	1171.2	1161.3	1136.9	1117.6	1098.9	1077.9
32°	1121.8	1146.0	1167.3	1189.5	1174.7	1163.3	1152.9	1128.2	1108.7	1089.7	1068.5
32.5°	1112.9	1137.9	1159.4	1181.8	1166.5	1155.2	1144.5	1119.6	1099.8	1080.3	1058.6
33°	1104.0	1129.2	1151.0	1174.2	1158.4	1146.5	1136.1	1111.0	1090.7	1070.9	1049.0
33.5°	1094.9	1120.3	1142.6	1166.0	1150.0	1137.9	1127.5	1101.8	1081.1	1061.1	1039.3
34°	1085.5	1111.7	1134.2	1158.1	1141.6	1129.2	1118.6	1092.4	1071.4	1051.2	1029.0
34.5°	1076.4	1102.6	1125.3	1149.7	1132.7	1120.3	1109.5	1083.0	1061.8	1041.3	1018.8
35°	1066.5	1093.4	1116.4	1141.1	1123.6	1111.2	1100.3	1073.7	1052.2	1031.2	1008.2
35.5°	1056.9	1083.8	1107.2	1132.4	1114.4	1102.1	1090.7	1063.8	1042.0	1020.6	997.6
36°	1046.5	1074.2	1097.9	1123.6	1105.3	1092.2	1081.3	1053.9	1031.7	1010.2	986.5
36.5°	1036.6	1064.5	1088.5	1114.4	1095.6	1082.3	1071.4	1043.8	1021.1	999.3	975.6
37°	1026.7	1054.6	1078.6	1105.3	1085.8	1072.4	1061.3	1033.6	1010.7	988.4	964.5
37.5°	1016.1	1044.8	1069.2	1095.6	1075.6	1062.3	1051.2	1023.0	1000.1	977.6	953.4
38°	1005.5	1034.4	1059.1	1086.0	1065.8	1052.2	1041.1	1012.4	989.4	966.5	941.8
38.5°	994.9	1024.0	1049.0	1076.1	1055.1	1041.8	1030.4	1001.8	978.1	955.1	929.9
39°	984.0	1013.4	1038.6	1066.2	1045.0	1030.9	1019.8	990.7	967.0	943.5	918.3
39.5°	973.4	1002.8	1028.2	1055.9	1034.1	1020.3	1008.9	979.6	955.8	931.6	906.4
40°	962.3	992.2	1017.6	1045.5	1023.5	1009.4	998.1	968.7	944.5	920.0	894.3
40.5°	950.9	981.0	1007.0	1034.9	1012.4	998.3	987.0	957.3	933.1	908.2	882.7
41°	939.8	969.9	995.9	1024.3	1001.5	987.0	975.9	946.0	921.3	896.1	870.1
41.5°	928.4	958.8	984.7	1013.1	990.4	975.9	964.2	934.1	909.7	884.2	858.0
42°	916.8	947.7	973.6	1002.3	979.1	964.5	952.9	922.5	897.8	872.1	845.7
42.5°	905.2	936.3	962.5	991.2	967.5	952.9	941.8	910.9	885.9	860.0	833.3
43°	893.6	924.7	950.9	980.1	955.8	941.3	929.9	899.0	874.1	847.4	820.5
43.5°	882.0	913.1	939.5	968.4	944.2	929.7	917.8	887.2	862.0	835.1	808.1



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	846.2	877.8	904.5	933.9	908.4	893.6	882.0	850.6	825.7	798.3	771.6
45.5°	834.1	865.7	892.9	922.0	896.3	881.5	869.9	838.5	813.6	786.4	759.7
46°	822.0	853.6	880.8	910.2	884.5	869.2	857.5	826.4	801.2	774.3	748.1
46.5°	809.6	841.5	868.7	898.0	872.1	857.0	845.2	814.1	789.1	762.2	736.3
47°	797.8	829.6	856.6	885.9	859.8	845.2	833.3	802.2	777.5	750.6	723.7
47.5°	785.9	817.5	844.7	873.8	847.9	833.3	821.5	790.4	765.7	738.0	710.3
48°	774.1	805.4	832.4	861.5	836.3	821.2	809.6	778.5	752.8	724.4	695.8
48.5°	761.7	793.6	820.5	849.6	824.2	809.9	797.5	765.9	739.2	709.6	679.2
49°	750.1	781.7	808.4	837.5	812.3	797.5	785.7	751.8	724.9	693.3	661.7
49.5°	737.0	769.4	796.8	825.2	800.5	785.7	773.1	737.5	709.1	675.8	642.7
50°	723.7	757.0	784.7	813.3	788.4	772.3	759.2	722.2	692.1	657.2	623.6
50.5°	709.1	743.4	772.1	801.5	775.0	758.5	744.9	705.9	674.3	639.0	604.6
51°	692.6	728.9	758.5	789.4	761.0	743.2	729.4	688.4	656.0	619.4	584.6
51.5°	674.0	712.6	743.9	776.5	746.2	725.7	712.1	669.3	636.0	599.7	564.6
52°	655.3	695.3	728.6	762.7	729.4	707.9	693.5	649.1	615.5	579.4	544.1
52.5°	635.7	676.7	711.6	748.1	711.1	689.8	675.3	628.3	594.7	558.9	523.9
53°	615.7	657.2	693.8	732.6	692.8	670.6	655.3	607.1	573.5	537.4	503.4
53.5°	595.0	637.0	674.5	715.8	673.3	651.1	635.3	585.1	552.0	516.2	482.9
54°	574.5	617.0	654.3	697.5	653.5	631.3	614.5	563.4	529.8	495.2	462.6
54.5°	553.5	596.0	632.8	678.0	633.0	611.5	593.5	541.9	507.8	474.0	441.9
55°	532.5	574.7	611.3	657.2	612.8	591.0	571.8	519.2	485.1	452.0	420.9
55.5°	511.3	552.5	589.3	636.0	591.8	570.0	550.3	497.4	462.9	430.7	400.6
56°	490.5	530.5	566.8	614.0	570.5	548.6	528.6	475.2	440.4	409.5	380.1
56.5°	468.8	508.3	543.9	591.8	548.8	526.8	506.6	454.0	418.4	388.3	359.9
57°	447.8	485.6	520.7	569.3	526.8	505.1	484.3	432.5	396.9	367.5	340.1
57.5°	426.5	463.4	498.2	546.6	504.4	483.4	462.6	411.5	375.7	346.8	320.8
58°	405.1	440.6	475.7	524.4	482.4	461.1	440.9	390.2	354.7	326.3	301.6
58.5°	384.1	417.9	452.7	501.9	459.9	438.4	419.4	369.2	333.9	306.5	282.6
59°	363.3	396.2	430.3	479.7	437.4	415.9	397.7	348.3	314.2	286.5	264.3
59.5°	342.8	374.4	408.5	457.9	415.2	393.5	376.4	328.5	294.9	267.5	246.7
60°	322.1	352.9	387.3	435.9	393.0	371.5	355.4	308.2	276.1	248.7	229.9
60.5°	301.8	332.2	366.0	414.4	371.2	349.5	334.7	289.0	257.9	232.2	213.2
61°	282.8	311.7	344.3	392.7	350.0	328.0	314.4	269.5	239.8	215.6	196.4
61.5°	263.3	291.7	324.0	372.5	329.2	307.0	294.4	251.2	223.0	199.3	179.6
62°	245.0	272.2	304.3	351.0	308.5	286.3	274.4	234.1	206.2	182.8	162.8
62.5°	227.2	253.4	285.0	330.7	288.0	265.8	254.9	216.9	189.2	166.2	148.4
63°	210.2	235.4	266.0	310.7	268.2	246.5	237.4	199.8	172.4	152.1	134.9
63.5°	193.4	217.6	247.2	291.0	249.0	228.5	219.6	182.8	155.4	139.1	122.3
64°	177.6	200.8	229.5	271.4	231.2	210.7	201.8	165.7	139.8	126.5	110.7
64.5°	162.3	184.5	212.2	252.2	213.6	192.7	184.3	150.4	125.0	114.6	100.0
65°	147.5	169.2	195.6	233.9	196.1	174.9	166.5	136.1	111.4	103.7	90.6
65.5°	133.4	154.4	179.8	216.1	178.3	159.1	150.4	122.5	98.5	93.6	82.2
66°	120.0	141.0	164.5	198.6	160.8	143.7	135.6	109.9	87.7	85.0	75.3



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	86.7	104.7	122.5	149.9	117.8	104.5	97.3	78.8	63.7	64.2	60.0
68°	80.0	94.3	110.2	135.6	105.0	93.4	87.2	71.1	59.3	59.5	56.6
68.5°	73.6	86.0	98.8	121.8	94.1	83.2	78.3	64.7	56.6	55.6	54.1
69°	66.9	79.3	88.9	109.2	83.7	74.6	70.9	59.5	54.3	52.9	51.9
69.5°	60.3	72.9	82.2	97.3	75.1	67.2	64.5	55.8	52.1	50.6	49.9
70°	56.8	66.2	75.6	86.4	67.4	61.5	59.5	53.1	49.6	48.4	47.7
70.5°	54.3	59.8	69.2	79.5	61.7	56.8	55.8	50.9	47.4	46.2	45.7
71°	52.1	55.6	62.7	72.4	57.1	54.1	53.3	48.7	45.0	44.2	43.7
71.5°	49.9	52.6	56.1	65.5	53.8	51.9	51.1	46.4	42.7	42.0	41.5
72°	47.7	50.4	53.3	58.5	51.6	49.6	49.2	44.2	40.5	39.8	39.5
72.5°	45.2	48.2	51.4	54.8	49.4	47.4	46.9	42.0	38.3	37.8	37.5
73°	43.0	45.9	49.2	52.6	47.4	45.4	44.7	39.8	36.3	35.8	35.6
73.5°	40.8	43.7	46.9	50.4	45.2	43.2	42.7	37.8	34.3	33.8	33.8
74°	38.8	41.5	44.7	48.4	43.0	41.2	40.5	35.6	32.4	31.9	31.9
74.5°	36.6	39.5	42.7	46.2	41.0	39.0	38.5	33.6	30.4	29.9	30.1
75°	34.6	37.3	40.5	44.0	39.0	37.0	36.6	31.6	28.7	28.2	28.4
75.5°	32.6	35.3	38.5	42.0	37.0	35.1	34.6	29.9	26.9	26.4	26.7
76°	30.6	33.3	36.3	39.8	35.1	33.3	32.6	27.9	25.2	24.7	25.2
76.5°	28.9	31.4	34.6	37.8	33.1	31.4	30.9	26.2	23.5	23.0	23.5
77°	26.9	29.6	32.6	35.8	31.4	29.6	29.1	24.5	21.7	21.5	22.0
77.5°	25.2	27.7	30.6	33.8	29.6	27.9	27.4	22.7	20.3	20.0	20.5
78°	23.7	25.9	28.9	32.1	27.9	26.2	25.7	21.2	18.8	18.5	19.0
78.5°	22.0	24.2	27.2	30.1	26.2	24.7	24.0	19.8	17.3	16.8	17.5
79°	20.5	22.7	25.4	28.4	24.5	23.0	22.5	18.3	15.8	15.3	16.3
79.5°	19.0	21.0	23.7	26.9	23.0	21.7	21.0	16.8	14.3	14.1	14.8
80°	17.5	19.5	22.2	25.2	21.5	20.3	19.5	15.3	13.1	12.6	13.3
80.5°	16.1	18.0	20.7	23.5	20.0	18.8	18.0	13.8	11.9	11.4	12.1
81°	14.8	16.5	19.3	22.0	18.5	17.3	16.5	12.6	10.6	10.1	11.1
81.5°	13.6	15.3	17.8	20.5	17.0	16.1	15.1	11.1	9.4	8.9	9.9
82°	12.1	13.8	16.3	19.0	15.6	14.6	13.8	10.1	8.4	7.7	8.6
82.5°	10.9	12.6	15.1	17.8	14.3	13.3	12.6	8.9	7.2	6.7	7.7
83°	9.9	11.4	13.8	16.3	13.1	12.1	11.4	7.7	6.2	5.7	6.7
83.5°	8.6	10.4	12.6	15.1	12.1	10.9	10.1	6.7	5.2	4.7	5.7
84°	7.7	9.1	11.4	13.8	10.9	9.9	9.1	5.7	4.2	3.7	4.7
84.5°	6.7	8.2	10.1	12.6	9.6	8.6	7.9	4.7	3.5	3.0	4.0
85°	5.4	6.9	9.1	11.4	8.6	7.7	6.9	4.0	2.7	2.5	3.2
85.5°	4.4	5.9	7.9	10.1	7.7	6.7	5.9	3.2	2.0	2.0	2.5
86°	3.7	4.9	6.9	9.1	6.7	5.7	5.2	2.7	1.7	1.5	1.7
86.5°	2.7	4.0	6.2	8.2	5.7	4.7	4.2	2.0	1.2	1.0	1.0
87°	2.2	3.2	5.2	7.2	4.7	4.0	3.5	1.5	0.7	0.5	0.5
87.5°	1.7	2.7	4.4	6.2	3.7	3.0	2.7	1.0	0.5	0.2	0.0
88°	1.2	2.2	3.5	5.2	3.0	2.2	2.0	0.5	0.2	0.0	0.0
88.5°	0.7	1.5	2.7	4.2	2.2	1.5	1.2	0.2	0.0	0.0	0.0



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	0.7	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1366.8	1366.8	1366.8	1366.8	1366.8	1366.8
0.5°	1363.4	1366.3	1366.8	1366.8	1367.6	1367.6
1°	1362.1	1365.4	1365.8	1366.1	1367.3	1367.6
1.5°	1360.7	1364.1	1364.9	1365.4	1366.8	1367.6
2°	1359.2	1362.9	1363.9	1364.4	1366.3	1367.3
2.5°	1357.7	1361.4	1362.6	1363.4	1365.6	1366.8
3°	1356.0	1359.9	1361.4	1362.4	1364.9	1366.6
3.5°	1354.2	1358.4	1359.9	1360.9	1364.1	1365.8
4°	1352.5	1356.7	1358.4	1359.7	1362.9	1365.4
4.5°	1350.5	1355.0	1356.7	1358.2	1361.9	1364.4
5°	1348.3	1353.0	1354.7	1356.5	1360.7	1363.6
5.5°	1346.1	1351.0	1353.0	1354.7	1359.4	1362.6
6°	1343.6	1348.8	1351.0	1353.0	1357.9	1361.6
6.5°	1341.1	1346.6	1349.1	1351.0	1356.5	1360.4
7°	1338.7	1344.1	1346.8	1349.1	1354.7	1359.2
7.5°	1336.0	1341.6	1344.4	1346.8	1353.0	1357.7
8°	1333.2	1339.2	1341.9	1344.6	1351.3	1356.2
8.5°	1330.3	1336.5	1339.4	1342.1	1349.3	1354.5
9°	1327.3	1333.7	1336.7	1339.7	1347.1	1352.8
9.5°	1324.4	1330.8	1334.0	1336.9	1344.9	1350.8
10°	1320.9	1327.6	1331.0	1334.2	1342.4	1349.1
10.5°	1317.7	1324.6	1328.1	1331.3	1339.9	1346.8
11°	1314.0	1321.1	1324.8	1328.3	1337.2	1344.6
11.5°	1310.5	1317.7	1321.4	1325.1	1334.7	1342.1
12°	1306.8	1314.2	1317.9	1321.9	1332.0	1339.7
12.5°	1302.9	1310.5	1314.5	1318.4	1328.8	1336.9
13°	1298.7	1306.6	1310.8	1315.0	1325.8	1334.2
13.5°	1294.7	1302.6	1306.8	1311.3	1322.4	1331.3
14°	1290.5	1298.7	1302.9	1307.6	1318.9	1328.3
14.5°	1286.1	1294.5	1298.7	1303.4	1315.5	1325.3
15°	1281.6	1290.0	1294.7	1299.7	1312.0	1322.1
15.5°	1276.9	1285.6	1290.3	1295.2	1308.1	1318.7
16°	1272.2	1280.9	1285.8	1290.8	1304.1	1315.2
16.5°	1267.3	1276.2	1280.9	1286.3	1299.9	1311.5
17°	1262.1	1271.2	1276.2	1281.6	1295.7	1307.6
17.5°	1257.2	1266.1	1271.2	1276.9	1291.5	1303.6
18°	1251.7	1261.1	1266.1	1272.0	1287.1	1299.7
18.5°	1246.3	1255.4	1260.9	1266.8	1282.4	1295.5
19°	1240.6	1250.3	1255.4	1261.6	1277.4	1291.0
19.5°	1234.7	1244.6	1250.0	1256.2	1272.5	1286.6
20°	1228.8	1238.6	1244.3	1250.7	1267.5	1281.9
20.5°	1222.8	1233.0	1238.2	1245.1	1262.4	1277.2
21°	1216.7	1226.5	1232.2	1239.1	1256.9	1272.2

TEST NUMBER: P776046

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1196.9	1207.3	1213.5	1220.6	1239.9	1256.2
23°	1190.2	1200.9	1206.5	1213.9	1234.0	1250.7
23.5°	1183.1	1193.9	1199.9	1207.3	1227.8	1245.1
24°	1175.9	1186.8	1193.0	1200.4	1221.6	1239.1
24.5°	1168.7	1179.6	1185.8	1193.4	1215.2	1233.2
25°	1161.1	1172.2	1178.4	1186.5	1208.3	1226.8
25.5°	1153.4	1164.8	1170.7	1179.1	1201.4	1220.4
26°	1145.8	1156.9	1163.3	1171.7	1194.4	1213.7
26.5°	1137.6	1149.2	1155.4	1163.8	1187.3	1207.3
27°	1129.5	1141.1	1147.5	1155.9	1179.9	1200.1
27.5°	1121.3	1132.9	1139.1	1148.2	1172.5	1193.2
28°	1112.9	1124.5	1131.0	1140.1	1164.8	1185.8
28.5°	1104.0	1115.9	1122.6	1131.7	1156.9	1178.6
29°	1095.1	1107.2	1113.7	1123.1	1149.0	1171.0
29.5°	1086.3	1098.4	1105.0	1114.7	1140.6	1163.1
30°	1076.9	1089.7	1095.9	1105.5	1132.2	1155.2
30.5°	1067.7	1080.3	1086.7	1096.9	1123.8	1147.3
31°	1058.1	1070.9	1077.6	1087.5	1115.2	1138.9
31.5°	1048.2	1061.8	1068.5	1078.4	1106.3	1130.5
32°	1038.3	1052.2	1058.8	1068.7	1097.1	1121.8
32.5°	1028.5	1042.3	1049.0	1059.3	1088.0	1112.9
33°	1018.1	1032.7	1039.6	1049.7	1078.6	1104.0
33.5°	1007.7	1022.8	1029.7	1039.8	1069.0	1094.9
34°	997.3	1012.4	1019.6	1029.7	1059.3	1085.5
34.5°	986.5	1002.0	1009.2	1019.8	1049.5	1076.4
35°	975.9	991.7	999.1	1009.2	1039.6	1066.5
35.5°	964.7	981.0	988.7	998.8	1029.4	1056.9
36°	953.9	970.4	978.1	988.2	1019.1	1046.5
36.5°	942.5	959.8	967.7	977.6	1008.7	1036.6
37°	931.4	948.9	956.8	967.0	997.8	1026.7
37.5°	919.8	937.8	946.0	956.1	987.5	1016.1
38°	908.4	926.7	935.1	945.0	976.6	1005.5
38.5°	896.3	915.8	924.0	933.6	965.7	994.9
39°	885.0	904.2	913.1	922.7	954.4	984.0
39.5°	872.9	892.9	902.0	911.6	943.2	973.4
40°	861.0	881.7	890.6	900.3	932.1	962.3
40.5°	849.1	870.4	879.3	888.7	920.8	950.9
41°	837.0	858.5	867.7	877.3	909.4	939.8
41.5°	824.7	846.9	856.3	865.7	897.6	928.4
42°	812.6	835.3	844.7	854.1	886.2	916.8
42.5°	800.2	823.7	833.1	842.5	874.3	905.2
43°	788.4	812.1	821.5	830.9	862.7	893.6
43.5°	776.0	800.0	809.9	818.8	850.9	882.0



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	741.2	764.7	774.6	783.2	815.1	846.2
45.5°	729.6	753.1	762.7	771.3	802.7	834.1
46°	717.3	741.2	751.1	759.7	790.9	822.0
46.5°	704.4	729.6	739.2	747.6	778.8	809.6
47°	690.6	717.7	727.9	736.0	767.1	797.8
47.5°	674.8	704.7	715.8	724.2	755.3	785.9
48°	657.5	691.6	702.7	711.3	743.4	774.1
48.5°	638.7	676.7	689.1	698.0	731.3	761.7
49°	619.4	660.2	675.3	684.4	718.5	750.1
49.5°	599.9	642.2	658.2	668.6	705.4	737.0
50°	580.4	622.9	640.4	651.1	691.1	723.7
50.5°	559.9	602.9	620.4	631.8	674.8	709.1
51°	539.4	582.9	600.7	612.0	656.5	692.6
51.5°	518.9	562.1	579.7	591.8	637.0	674.0
52°	498.2	541.6	559.4	571.0	617.2	655.3
52.5°	477.9	520.4	538.7	550.0	597.2	635.7
53°	457.2	498.7	517.2	529.0	577.2	615.7
53.5°	437.2	477.7	495.0	507.3	556.5	595.0
54°	416.9	456.4	474.0	486.1	535.7	574.5
54.5°	396.7	436.2	452.5	464.8	514.7	553.5
55°	376.9	415.2	430.7	444.6	493.5	532.5
55.5°	357.1	394.7	410.0	423.6	472.5	511.3
56°	338.1	374.7	389.3	403.1	451.5	490.5
56.5°	319.9	354.7	368.8	383.1	430.7	468.8
57°	300.8	335.2	348.7	363.6	410.0	447.8
57.5°	282.6	316.1	329.0	343.3	389.7	426.5
58°	264.3	297.1	309.7	324.0	369.5	405.1
58.5°	247.5	279.1	291.7	305.8	349.5	384.1
59°	230.9	261.6	273.9	287.2	330.5	363.3
59.5°	214.6	244.3	256.9	269.5	311.5	342.8
60°	198.1	228.0	240.1	252.2	292.9	322.1
60.5°	181.8	211.4	224.0	235.1	274.9	301.8
61°	165.2	195.9	208.5	218.8	256.6	282.8
61.5°	150.9	181.3	193.9	202.8	239.1	263.3
62°	137.1	167.5	179.6	188.0	222.0	245.0
62.5°	124.5	153.9	166.0	173.4	205.5	227.2
63°	112.6	141.3	153.1	159.3	189.4	210.2
63.5°	102.3	129.4	141.0	146.5	174.4	193.4
64°	92.4	118.3	129.7	134.1	159.6	177.6
64.5°	84.0	107.9	118.6	122.8	145.2	162.3
65°	77.1	98.5	108.7	111.9	131.9	147.5
65.5°	70.9	89.7	99.3	102.0	119.5	133.4
66°	65.7	83.5	90.6	92.9	108.4	120.0



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	54.6	65.2	71.9	71.9	83.0	86.7
68°	52.6	59.0	65.7	67.7	77.3	80.0
68.5°	50.4	55.6	59.5	63.2	71.4	73.6
69°	48.4	53.3	55.8	58.8	65.7	66.9
69.5°	46.4	51.4	53.3	54.3	59.8	60.3
70°	44.5	49.4	51.4	52.4	56.1	56.8
70.5°	42.5	47.2	49.4	50.1	53.3	54.3
71°	40.5	45.2	47.4	48.2	51.1	52.1
71.5°	38.5	43.2	45.4	46.2	48.9	49.9
72°	36.6	41.2	43.2	44.2	46.7	47.7
72.5°	34.8	39.3	41.2	42.2	44.7	45.2
73°	33.1	37.3	39.3	40.3	42.5	43.0
73.5°	31.1	35.6	37.5	38.3	40.5	40.8
74°	29.4	33.6	35.6	36.3	38.3	38.8
74.5°	27.9	31.9	33.8	34.3	36.3	36.6
75°	26.2	30.1	32.1	32.6	34.3	34.6
75.5°	24.7	28.4	30.4	30.9	32.4	32.6
76°	23.0	26.9	28.7	29.1	30.6	30.6
76.5°	21.5	25.2	26.9	27.4	28.7	28.9
77°	20.3	23.7	25.4	25.7	26.9	26.9
77.5°	18.8	22.2	23.7	24.0	25.2	25.2
78°	17.5	20.7	22.2	22.5	23.5	23.7
78.5°	16.1	19.3	20.7	21.0	22.0	22.0
79°	14.8	18.0	19.3	19.5	20.5	20.5
79.5°	13.6	16.5	18.0	18.0	18.8	19.0
80°	12.3	15.3	16.5	16.8	17.5	17.5
80.5°	11.1	14.1	15.3	15.3	16.1	16.1
81°	10.1	12.8	14.1	14.1	14.6	14.8
81.5°	8.9	11.6	12.8	12.8	13.3	13.6
82°	7.9	10.6	11.6	11.6	12.1	12.1
82.5°	6.9	9.4	10.6	10.6	10.9	10.9
83°	5.9	8.4	9.4	9.4	9.6	9.9
83.5°	4.9	7.4	8.4	8.4	8.4	8.6
84°	4.0	6.4	7.4	7.4	7.4	7.7
84.5°	3.0	5.4	6.4	6.4	6.4	6.7
85°	2.2	4.4	5.4	5.4	5.2	5.4
85.5°	1.5	3.5	4.4	4.4	4.4	4.4
86°	0.7	2.5	3.5	3.7	3.7	3.7
86.5°	0.2	1.7	2.7	2.7	3.0	2.7
87°	0.0	1.0	1.7	2.0	2.2	2.2
87.5°	0.0	0.5	1.0	1.2	1.7	1.7
88°	0.0	0.0	0.5	0.5	1.2	1.2
88.5°	0.0	0.0	0.0	0.2	0.7	0.7



TEST NUMBER: P776046

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-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
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Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1267.1	1282.1	1295.0	1307.8	1300.6	1293.5	1286.3	1270.5	1257.2	1243.3	1229.0
22°	1261.6	1277.4	1290.5	1303.9	1296.4	1289.3	1281.6	1265.3	1251.7	1237.9	1223.1



44°	870.4	901.5	928.2	957.3	932.4	917.6	906.0	875.1	849.9	822.7	795.8
44.5°	858.0	889.4	916.1	945.7	920.3	906.0	893.9	863.0	837.5	810.6	783.7



66.5°	107.9	127.9	149.9	182.3	145.5	129.9	121.5	98.5	78.0	77.1	69.4
67°	97.1	115.8	135.8	165.5	130.9	116.6	108.9	87.9	70.1	70.1	64.2



89°	0.5	1.0	2.0	3.5	1.5	0.7	0.5	0.0	0.0	0.0	0.0
89.5°	0.2	0.5	1.2	2.5	0.7	0.2	0.2	0.0	0.0	0.0	0.0

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21.5°	1210.2	1220.4	1226.1	1233.0	1251.5	1267.1
22°	1203.6	1214.2	1219.9	1226.8	1245.8	1261.6



44°	764.4	788.1	798.0	807.2	839.0	870.4
44.5°	752.8	776.3	786.2	795.1	826.9	858.0



66.5°	61.3	77.3	84.5	84.5	98.1	107.9
67°	57.5	71.1	78.0	77.3	88.9	97.1

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89°	0.0	0.0	0.0	0.0	0.2	0.5
89.5°	0.0	0.0	0.0	0.0	0.0	0.2

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(END OF REPORT)