

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: P776045

Luminaire Tested: HCDJBS1525CSD-HCD61TRMW-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776045
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-2700K
Description: 6 INCH ROUND SHALLOW-WIDE MATTE WHITE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

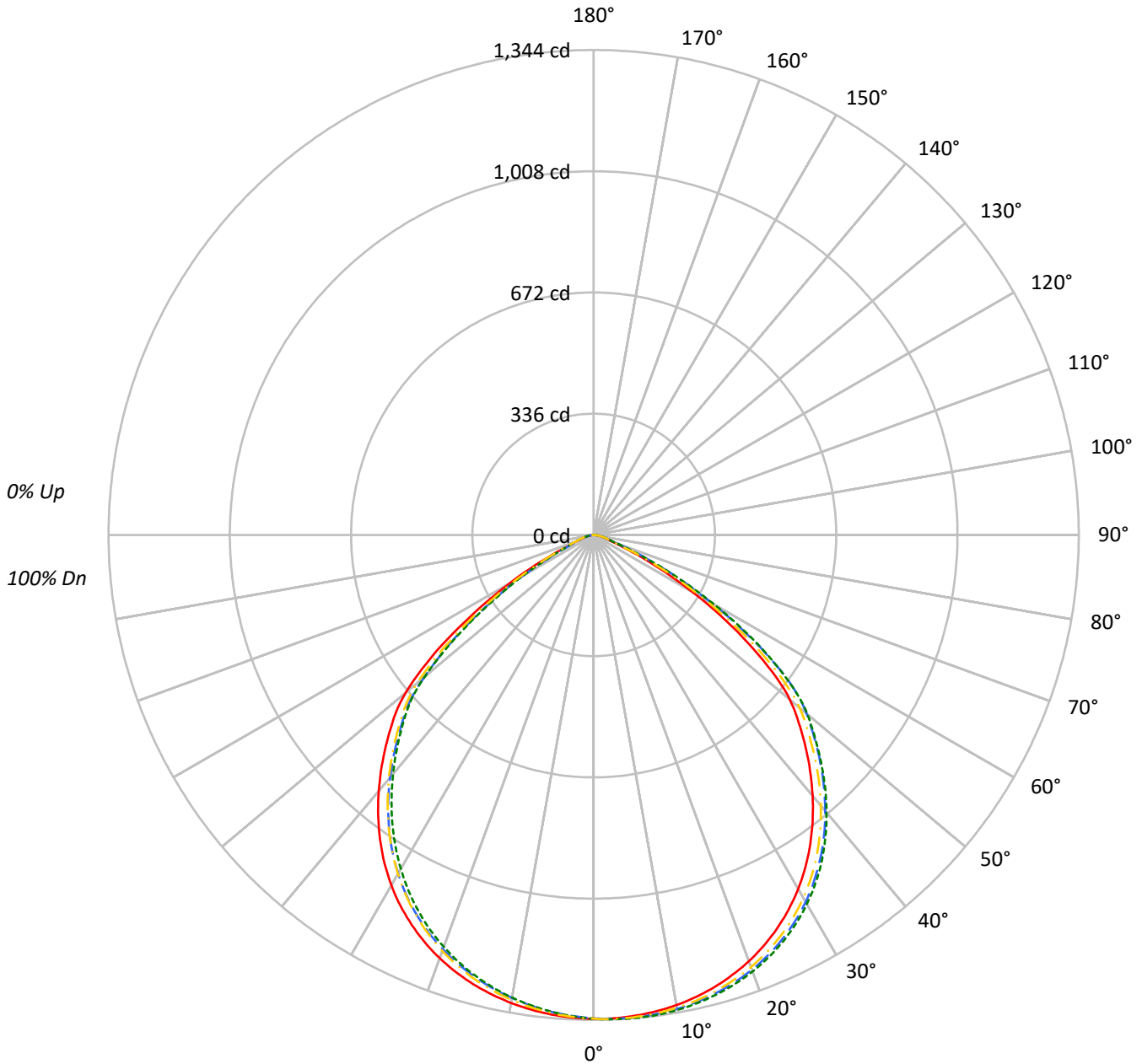
Lumens per Lamp: N/A
Luminaire Lumens: 2958.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P776045
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P776045

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	73481	73481	73481	73481
5°	73591	73965	73431	73019
10°	73646	74414	73323	72471
15°	73587	74813	73145	71800
20°	73337	75105	72800	70864
25°	72772	75162	72143	69536
30°	71714	74777	70960	67650
35°	69995	73743	69058	65083
40°	67534	71835	66281	61880
45°	64332	69069	62774	58138
50°	60527	65942	57883	52101
55°	49910	57432	45466	38919
60°	34635	42255	29691	24516
65°	18757	24944	14165	12531
70°	8928	10595	7806	7758
75°	7180	8112	5952	6270
80°	5430	6661	4041	4735
85°	3334	5346	1698	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 71000 cd/sqm



TEST NUMBER: P776045

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	4.3
10°-20°	364.5	12.3
20°-30°	550.8	18.6
30°-40°	647.8	21.9
40°-50°	630.8	21.3
50°-60°	445.0	15.0
60°-70°	149.1	5.0
70°-80°	36.0	1.2
80°-90°	7.2	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°	1042.2	35.2
0°-40°	1690.1	57.1
0°-60°	2765.9	93.5
0°-90°	2958.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2958.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1340	1340	1340	1340	1340	
5°	1337	1344	1334	1327	1337	127
15°	1297	1318	1289	1265	1297	366
25°	1203	1243	1193	1150	1203	554
35°	1046	1102	1032	972	1046	653
45°	830	891	810	750	830	639
55°	522	601	476	407	522	463
65°	145	192	109	97	145	155
75°	34	38	28	30	34	37
85°	5	8	3	4	5	7
90°	0	0	0	0	0	



TEST NUMBER: P776045

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4
0.5°	1341.2	1340.9	1340.2	1339.0	1341.7	1341.9	1341.7	1341.7	1340.9	1340.0	1338.7
1°	1341.2	1341.2	1340.9	1340.0	1342.4	1342.4	1342.1	1341.7	1340.7	1339.5	1337.8
1.5°	1341.2	1341.4	1341.2	1340.7	1342.9	1342.9	1342.4	1341.4	1340.0	1338.5	1336.8
2°	1340.9	1341.4	1341.7	1341.4	1343.3	1343.1	1342.4	1341.2	1339.5	1337.8	1335.6
2.5°	1340.4	1341.4	1341.9	1341.9	1343.8	1343.1	1342.4	1340.9	1339.0	1336.8	1334.6
3°	1340.2	1341.4	1342.1	1342.4	1343.8	1343.3	1342.4	1340.4	1338.0	1335.8	1333.2
3.5°	1339.5	1341.4	1342.4	1342.9	1344.1	1343.3	1342.1	1340.0	1337.3	1334.6	1331.7
4°	1339.0	1340.9	1342.1	1343.1	1344.1	1343.3	1341.9	1339.5	1336.6	1333.4	1330.3
4.5°	1338.0	1340.4	1342.1	1343.3	1344.3	1343.1	1341.7	1338.5	1335.4	1332.0	1328.3
5°	1337.3	1340.0	1341.9	1343.3	1344.1	1342.9	1340.9	1337.8	1334.4	1330.5	1326.9
5.5°	1336.3	1339.5	1341.4	1343.1	1343.8	1342.4	1340.4	1336.8	1333.2	1329.1	1324.9
6°	1335.4	1338.5	1341.2	1343.1	1343.3	1341.9	1340.0	1335.8	1331.7	1327.4	1323.0
6.5°	1334.1	1337.8	1340.4	1342.9	1342.9	1341.4	1339.0	1334.6	1330.3	1325.4	1320.8
7°	1332.9	1336.8	1339.7	1342.4	1342.4	1340.4	1338.3	1333.4	1328.8	1323.7	1318.6
7.5°	1331.5	1335.8	1339.0	1341.9	1341.7	1339.7	1337.3	1332.0	1327.1	1321.8	1316.2
8°	1330.0	1334.6	1338.0	1341.4	1340.9	1338.7	1336.1	1330.5	1325.4	1319.6	1314.0
8.5°	1328.3	1333.4	1337.3	1340.9	1340.0	1337.8	1334.6	1329.1	1323.5	1317.4	1311.4
9°	1326.6	1332.0	1336.1	1340.0	1339.0	1336.6	1333.4	1327.4	1321.5	1315.0	1309.0
9.5°	1324.7	1330.5	1334.9	1339.0	1338.0	1335.4	1332.2	1325.7	1319.4	1312.6	1306.0
10°	1323.0	1328.8	1333.7	1338.0	1336.8	1333.9	1330.5	1323.5	1317.2	1310.2	1303.4
10.5°	1320.8	1327.1	1332.2	1337.1	1335.4	1332.2	1328.8	1321.5	1314.8	1307.5	1300.2
11°	1318.6	1325.2	1330.5	1335.6	1333.9	1330.8	1327.1	1319.4	1312.3	1304.8	1297.3
11.5°	1316.2	1323.2	1329.1	1334.4	1332.2	1328.8	1325.2	1317.2	1309.9	1301.9	1294.2
12°	1313.8	1321.1	1327.1	1332.9	1330.5	1327.1	1323.2	1314.8	1307.3	1299.0	1291.0
12.5°	1311.1	1318.9	1325.2	1331.2	1328.8	1325.2	1321.1	1312.3	1304.4	1295.9	1287.6
13°	1308.5	1316.5	1323.2	1329.5	1326.9	1323.2	1318.9	1309.7	1301.4	1292.7	1284.0
13.5°	1305.6	1314.3	1321.1	1327.8	1324.9	1320.8	1316.5	1307.0	1298.5	1289.3	1280.4
14°	1302.7	1311.6	1318.9	1325.9	1322.8	1318.6	1314.0	1304.1	1295.4	1285.9	1276.7
14.5°	1299.7	1309.0	1316.5	1324.0	1320.3	1316.2	1311.4	1301.2	1292.0	1282.3	1272.6
15°	1296.6	1306.0	1314.0	1321.5	1318.2	1313.8	1308.7	1298.1	1288.8	1278.9	1268.7
15.5°	1293.2	1303.1	1311.4	1319.4	1315.7	1310.9	1305.8	1294.9	1285.2	1275.0	1264.6
16°	1289.8	1300.0	1308.7	1316.9	1313.1	1308.2	1302.7	1291.5	1281.8	1271.2	1260.5
16.5°	1286.2	1296.8	1305.6	1314.8	1310.2	1305.3	1299.7	1288.1	1277.9	1267.0	1256.1
17°	1282.3	1293.5	1302.9	1311.9	1307.5	1302.2	1296.6	1284.5	1274.1	1262.9	1251.5
17.5°	1278.4	1290.1	1299.7	1309.2	1304.4	1299.0	1293.2	1280.6	1270.0	1258.6	1246.9
18°	1274.6	1286.4	1296.6	1306.3	1301.2	1295.9	1289.6	1276.7	1265.8	1254.2	1242.3
18.5°	1270.4	1282.8	1293.2	1303.1	1297.8	1292.2	1285.9	1272.9	1261.7	1249.6	1237.3
19°	1266.1	1278.9	1289.6	1300.0	1294.7	1288.8	1282.3	1268.7	1257.1	1245.0	1232.4
19.5°	1261.7	1274.8	1285.9	1296.8	1291.0	1285.0	1278.4	1264.4	1252.5	1240.2	1227.3
20°	1257.1	1270.7	1282.1	1293.5	1287.4	1281.1	1274.6	1260.0	1247.9	1235.1	1222.0
20.5°	1252.5	1266.6	1278.4	1289.8	1283.5	1277.0	1270.2	1255.4	1243.1	1230.0	1216.4
21°	1247.7	1262.0	1274.3	1286.2	1279.6	1272.9	1265.8	1250.6	1238.2	1224.9	1211.1



TEST NUMBER: P776045

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1231.9	1247.9	1261.2	1274.6	1266.8	1259.5	1252.0	1235.8	1222.2	1208.2	1193.7
23°	1226.6	1243.1	1256.6	1270.2	1262.2	1254.9	1247.2	1230.5	1216.4	1202.4	1187.1
23.5°	1221.0	1237.7	1251.8	1265.8	1257.6	1250.1	1242.1	1224.9	1210.9	1196.3	1181.1
24°	1215.2	1232.4	1246.7	1261.5	1252.8	1245.0	1236.8	1219.3	1204.8	1190.3	1174.5
24.5°	1209.4	1226.8	1241.6	1256.6	1247.7	1239.7	1231.4	1213.5	1198.7	1183.7	1168.0
25°	1203.1	1221.0	1236.3	1251.8	1242.6	1234.3	1226.1	1207.7	1192.7	1177.4	1161.2
25.5°	1196.8	1215.2	1231.0	1246.7	1237.3	1228.8	1220.3	1201.4	1186.1	1170.9	1153.9
26°	1190.3	1209.2	1225.1	1241.6	1231.7	1223.2	1214.5	1195.1	1179.6	1164.1	1146.9
26.5°	1184.0	1203.1	1219.6	1236.3	1226.1	1217.2	1208.7	1188.8	1172.8	1156.8	1139.6
27°	1176.9	1196.6	1213.5	1230.7	1220.3	1211.3	1202.4	1182.0	1166.0	1150.1	1132.1
27.5°	1170.2	1190.3	1207.5	1225.1	1214.2	1205.0	1195.8	1175.2	1159.0	1142.8	1124.6
28°	1162.9	1183.7	1201.4	1219.3	1207.9	1198.5	1189.5	1168.5	1151.8	1135.0	1116.6
28.5°	1155.9	1176.7	1194.9	1213.5	1201.7	1192.0	1182.8	1161.4	1144.2	1127.5	1108.9
29°	1148.4	1169.7	1188.3	1207.2	1195.1	1185.2	1175.7	1154.2	1136.7	1119.5	1100.6
29.5°	1140.6	1162.7	1181.3	1200.9	1188.3	1178.2	1168.7	1146.7	1128.7	1111.5	1092.4
30°	1132.9	1155.1	1174.5	1194.4	1181.3	1171.4	1161.7	1138.9	1121.0	1103.3	1083.7
30.5°	1125.1	1147.6	1167.5	1187.6	1174.3	1163.9	1153.9	1131.2	1112.8	1094.8	1075.0
31°	1116.9	1140.1	1160.0	1181.1	1167.0	1156.4	1146.4	1123.2	1104.5	1086.4	1066.2
31.5°	1108.6	1132.1	1152.5	1173.8	1159.5	1148.6	1138.9	1114.9	1096.0	1077.6	1057.0
32°	1100.2	1123.9	1144.7	1166.5	1152.0	1140.9	1130.7	1106.5	1087.3	1068.7	1047.8
32.5°	1091.4	1115.9	1137.0	1159.0	1144.0	1132.9	1122.4	1098.0	1078.6	1059.5	1038.2
33°	1082.7	1107.4	1128.7	1151.5	1136.0	1124.4	1114.2	1089.5	1069.6	1050.3	1028.7
33.5°	1073.8	1098.7	1120.5	1143.5	1127.8	1115.9	1105.7	1080.5	1060.2	1040.6	1019.3
34°	1064.6	1090.2	1112.3	1135.8	1119.5	1107.4	1097.0	1071.3	1050.7	1030.9	1009.1
34.5°	1055.6	1081.3	1103.6	1127.5	1110.8	1098.7	1088.0	1062.1	1041.3	1021.2	999.2
35°	1045.9	1072.3	1094.8	1119.1	1101.9	1089.7	1079.1	1052.9	1031.9	1011.3	988.7
35.5°	1036.5	1062.9	1085.9	1110.6	1092.9	1080.8	1069.6	1043.2	1021.9	1000.9	978.3
36°	1026.3	1053.4	1076.7	1101.9	1083.9	1071.1	1060.4	1033.5	1011.8	990.7	967.4
36.5°	1016.6	1044.0	1067.5	1092.9	1074.5	1061.4	1050.7	1023.6	1001.3	980.0	956.8
37°	1006.9	1034.3	1057.8	1083.9	1064.8	1051.7	1040.8	1013.7	991.2	969.4	945.9
37.5°	996.5	1024.6	1048.6	1074.5	1054.9	1041.8	1030.9	1003.3	980.7	958.7	935.0
38°	986.1	1014.4	1038.6	1065.0	1045.2	1031.9	1021.0	992.9	970.3	947.8	923.6
38.5°	975.7	1004.2	1028.7	1055.3	1034.8	1021.7	1010.5	982.4	959.2	936.7	912.0
39°	965.0	993.8	1018.5	1045.7	1024.8	1011.0	1000.1	971.5	948.3	925.3	900.6
39.5°	954.6	983.4	1008.4	1035.5	1014.2	1000.6	989.5	960.6	937.4	913.7	888.9
40°	943.7	973.0	997.9	1025.3	1003.8	990.0	978.8	950.0	926.2	902.3	877.1
40.5°	932.5	962.1	987.5	1014.9	992.9	979.1	967.9	938.8	915.1	890.6	865.7
41°	921.6	951.2	976.6	1004.5	982.2	967.9	957.0	927.7	903.5	878.8	853.3
41.5°	910.5	940.3	965.7	993.6	971.3	957.0	945.6	916.1	892.1	867.1	841.5
42°	899.1	929.4	954.8	982.9	960.2	945.9	934.5	904.7	880.5	855.3	829.4
42.5°	887.7	918.3	943.9	972.0	948.8	934.5	923.6	893.3	868.8	843.4	817.2
43°	876.3	906.9	932.5	961.1	937.4	923.1	912.0	881.7	857.2	831.1	804.7
43.5°	865.0	895.5	921.4	949.7	926.0	911.7	900.1	870.1	845.3	818.9	792.5

TEST NUMBER: P776045

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	829.8	860.8	887.0	915.8	890.9	876.3	865.0	834.2	809.7	782.9	756.7
45.5°	818.0	849.0	875.6	904.2	879.0	864.5	853.1	822.3	797.9	771.2	745.1
46°	806.1	837.1	863.8	892.6	867.4	852.4	841.0	810.5	785.8	759.4	733.7
46.5°	794.0	825.2	851.9	880.7	855.3	840.5	828.9	798.4	773.9	747.5	722.1
47°	782.4	813.6	840.0	868.8	843.2	828.9	817.2	786.7	762.5	736.1	709.7
47.5°	770.7	801.7	828.4	857.0	831.5	817.2	805.6	775.1	750.9	723.8	696.6
48°	759.1	789.9	816.3	844.9	820.2	805.4	794.0	763.5	738.3	710.4	682.3
48.5°	747.0	778.3	804.7	833.2	808.3	794.2	782.1	751.1	725.0	695.9	666.1
49°	735.6	766.6	792.8	821.4	796.7	782.1	770.5	737.3	710.9	679.9	648.9
49.5°	722.8	754.5	781.4	809.3	785.0	770.5	758.1	723.3	695.4	662.7	630.3
50°	709.7	742.4	769.5	797.6	773.2	757.4	744.6	708.2	678.7	644.5	611.6
50.5°	695.4	729.1	757.2	786.0	760.1	743.9	730.5	692.3	661.3	626.6	593.0
51°	679.2	714.8	743.9	774.1	746.3	728.8	715.3	675.1	643.3	607.5	573.3
51.5°	661.0	698.8	729.6	761.5	731.7	711.6	698.3	656.4	623.7	588.1	553.7
52°	642.6	681.8	714.5	748.0	715.3	694.2	680.2	636.6	603.6	568.2	533.6
52.5°	623.5	663.7	697.8	733.7	697.3	676.5	662.2	616.2	583.3	548.1	513.7
53°	603.9	644.5	680.4	718.4	679.4	657.6	642.6	595.4	562.4	527.1	493.6
53.5°	583.5	624.7	661.5	702.0	660.3	638.5	623.0	573.8	541.4	506.2	473.5
54°	563.4	605.1	641.6	684.0	640.9	619.1	602.6	552.5	519.6	485.6	453.7
54.5°	542.8	584.5	620.6	664.9	620.8	599.7	582.1	531.4	498.0	464.8	433.3
55°	522.2	563.6	599.5	644.5	600.9	579.6	560.7	509.1	475.7	443.3	412.7
55.5°	501.4	541.8	577.9	623.7	580.4	559.0	539.7	487.8	453.9	422.4	392.9
56°	481.0	520.3	555.9	602.2	559.5	538.0	518.3	466.0	431.9	401.6	372.8
56.5°	459.7	498.5	533.4	580.4	538.2	516.7	496.8	445.2	410.3	380.8	352.9
57°	439.1	476.2	510.6	558.3	516.7	495.3	475.0	424.1	389.2	360.4	333.5
57.5°	418.3	454.4	488.6	536.0	494.6	474.0	453.7	403.5	368.4	340.1	314.6
58°	397.2	432.1	466.5	514.2	473.1	452.2	432.4	382.7	347.8	320.0	295.7
58.5°	376.7	409.8	444.0	492.2	451.0	429.9	411.3	362.1	327.5	300.6	277.1
59°	356.3	388.5	421.9	470.4	429.0	407.9	390.0	341.5	308.1	281.0	259.2
59.5°	336.2	367.2	400.6	449.1	407.2	385.9	369.1	322.2	289.2	262.3	242.0
60°	315.9	346.1	379.8	427.5	385.4	364.3	348.6	302.3	270.8	243.9	225.5
60.5°	296.0	325.8	359.0	406.4	364.1	342.7	328.2	283.4	252.9	227.7	209.0
61°	277.3	305.7	337.7	385.1	343.2	321.7	308.3	264.3	235.2	211.5	192.6
61.5°	258.2	286.1	317.8	365.3	322.9	301.1	288.7	246.3	218.7	195.5	176.1
62°	240.3	266.9	298.4	344.2	302.5	280.7	269.1	229.6	202.3	179.2	159.6
62.5°	222.8	248.5	279.5	324.3	282.4	260.6	250.0	212.7	185.5	163.0	145.6
63°	206.1	230.8	260.9	304.7	263.1	241.7	232.8	196.0	169.1	149.2	132.3
63.5°	189.7	213.4	242.5	285.3	244.2	224.1	215.3	179.2	152.4	136.4	119.9
64°	174.2	196.9	225.0	266.2	226.7	206.6	197.9	162.5	137.1	124.0	108.5
64.5°	159.1	180.9	208.1	247.3	209.5	188.9	180.7	147.5	122.6	112.4	98.1
65°	144.6	165.9	191.8	229.4	192.3	171.5	163.3	133.5	109.2	101.7	88.9
65.5°	130.8	151.4	176.3	211.9	174.9	156.0	147.5	120.1	96.6	91.8	80.7
66°	117.7	138.3	161.3	194.7	157.7	141.0	133.0	107.8	86.0	83.3	73.9



TEST NUMBER: P776045

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	85.0	102.7	120.1	147.0	115.5	102.5	95.4	77.3	62.5	63.0	58.9
68°	78.5	92.5	108.0	133.0	102.9	91.6	85.5	69.8	58.1	58.4	55.5
68.5°	72.2	84.3	96.9	119.4	92.3	81.6	76.8	63.5	55.5	54.5	53.0
69°	65.6	77.8	87.2	107.1	82.1	73.2	69.5	58.4	53.3	51.8	50.9
69.5°	59.1	71.5	80.7	95.4	73.6	65.9	63.2	54.7	51.1	49.7	48.9
70°	55.7	64.9	74.1	84.8	66.1	60.3	58.4	52.1	48.7	47.5	46.7
70.5°	53.3	58.6	67.8	78.0	60.6	55.7	54.7	49.9	46.5	45.3	44.8
71°	51.1	54.5	61.5	71.0	56.0	53.0	52.3	47.7	44.1	43.4	42.9
71.5°	48.9	51.6	55.0	64.2	52.8	50.9	50.1	45.5	41.9	41.2	40.7
72°	46.7	49.4	52.3	57.4	50.6	48.7	48.2	43.4	39.7	39.0	38.8
72.5°	44.3	47.2	50.4	53.8	48.4	46.5	46.0	41.2	37.5	37.1	36.8
73°	42.1	45.1	48.2	51.6	46.5	44.6	43.8	39.0	35.6	35.1	34.9
73.5°	40.0	42.9	46.0	49.4	44.3	42.4	41.9	37.1	33.7	33.2	33.2
74°	38.0	40.7	43.8	47.5	42.1	40.5	39.7	34.9	31.7	31.2	31.2
74.5°	35.8	38.8	41.9	45.3	40.2	38.3	37.8	32.9	29.8	29.3	29.6
75°	33.9	36.6	39.7	43.1	38.3	36.3	35.8	31.0	28.1	27.6	27.9
75.5°	32.0	34.6	37.8	41.2	36.3	34.4	33.9	29.3	26.4	25.9	26.2
76°	30.0	32.7	35.6	39.0	34.4	32.7	32.0	27.4	24.7	24.2	24.7
76.5°	28.3	30.8	33.9	37.1	32.5	30.8	30.3	25.7	23.0	22.5	23.0
77°	26.4	29.1	32.0	35.1	30.8	29.1	28.6	24.0	21.3	21.1	21.6
77.5°	24.7	27.1	30.0	33.2	29.1	27.4	26.9	22.3	19.9	19.6	20.1
78°	23.3	25.4	28.3	31.5	27.4	25.7	25.2	20.8	18.4	18.2	18.7
78.5°	21.6	23.7	26.6	29.6	25.7	24.2	23.5	19.4	17.0	16.5	17.2
79°	20.1	22.3	24.9	27.9	24.0	22.5	22.0	17.9	15.5	15.0	16.0
79.5°	18.7	20.6	23.3	26.4	22.5	21.3	20.6	16.5	14.0	13.8	14.5
80°	17.2	19.1	21.8	24.7	21.1	19.9	19.1	15.0	12.8	12.4	13.1
80.5°	15.7	17.7	20.3	23.0	19.6	18.4	17.7	13.6	11.6	11.1	11.9
81°	14.5	16.2	18.9	21.6	18.2	17.0	16.2	12.4	10.4	9.9	10.9
81.5°	13.3	15.0	17.4	20.1	16.7	15.7	14.8	10.9	9.2	8.7	9.7
82°	11.9	13.6	16.0	18.7	15.3	14.3	13.6	9.9	8.2	7.5	8.5
82.5°	10.7	12.4	14.8	17.4	14.0	13.1	12.4	8.7	7.0	6.5	7.5
83°	9.7	11.1	13.6	16.0	12.8	11.9	11.1	7.5	6.1	5.6	6.5
83.5°	8.5	10.2	12.4	14.8	11.9	10.7	9.9	6.5	5.1	4.6	5.6
84°	7.5	9.0	11.1	13.6	10.7	9.7	9.0	5.6	4.1	3.6	4.6
84.5°	6.5	8.0	9.9	12.4	9.4	8.5	7.8	4.6	3.4	2.9	3.9
85°	5.3	6.8	9.0	11.1	8.5	7.5	6.8	3.9	2.7	2.4	3.1
85.5°	4.4	5.8	7.8	9.9	7.5	6.5	5.8	3.1	1.9	1.9	2.4
86°	3.6	4.8	6.8	9.0	6.5	5.6	5.1	2.7	1.7	1.5	1.7
86.5°	2.7	3.9	6.1	8.0	5.6	4.6	4.1	1.9	1.2	1.0	1.0
87°	2.2	3.1	5.1	7.0	4.6	3.9	3.4	1.5	0.7	0.5	0.5
87.5°	1.7	2.7	4.4	6.1	3.6	2.9	2.7	1.0	0.5	0.2	0.0
88°	1.2	2.2	3.4	5.1	2.9	2.2	1.9	0.5	0.2	0.0	0.0
88.5°	0.7	1.5	2.7	4.1	2.2	1.5	1.2	0.2	0.0	0.0	0.0



TEST NUMBER: P776045
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-2700K

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: P776045

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4
0.5°	1337.1	1340.0	1340.4	1340.4	1341.2	1341.2
1°	1335.8	1339.0	1339.5	1339.7	1340.9	1341.2
1.5°	1334.4	1337.8	1338.5	1339.0	1340.4	1341.2
2°	1332.9	1336.6	1337.5	1338.0	1340.0	1340.9
2.5°	1331.5	1335.1	1336.3	1337.1	1339.2	1340.4
3°	1329.8	1333.7	1335.1	1336.1	1338.5	1340.2
3.5°	1328.1	1332.2	1333.7	1334.6	1337.8	1339.5
4°	1326.4	1330.5	1332.2	1333.4	1336.6	1339.0
4.5°	1324.5	1328.8	1330.5	1332.0	1335.6	1338.0
5°	1322.3	1326.9	1328.6	1330.3	1334.4	1337.3
5.5°	1320.1	1324.9	1326.9	1328.6	1333.2	1336.3
6°	1317.7	1322.8	1324.9	1326.9	1331.7	1335.4
6.5°	1315.3	1320.6	1323.0	1324.9	1330.3	1334.1
7°	1312.8	1318.2	1320.8	1323.0	1328.6	1332.9
7.5°	1310.2	1315.7	1318.4	1320.8	1326.9	1331.5
8°	1307.5	1313.3	1316.0	1318.6	1325.2	1330.0
8.5°	1304.6	1310.6	1313.6	1316.2	1323.2	1328.3
9°	1301.7	1308.0	1310.9	1313.8	1321.1	1326.6
9.5°	1298.8	1305.1	1308.2	1311.1	1318.9	1324.7
10°	1295.4	1301.9	1305.3	1308.5	1316.5	1323.0
10.5°	1292.2	1299.0	1302.4	1305.6	1314.0	1320.8
11°	1288.6	1295.6	1299.3	1302.7	1311.4	1318.6
11.5°	1285.2	1292.2	1295.9	1299.5	1309.0	1316.2
12°	1281.6	1288.8	1292.5	1296.4	1306.3	1313.8
12.5°	1277.7	1285.2	1289.1	1293.0	1303.1	1311.1
13°	1273.6	1281.3	1285.5	1289.6	1300.2	1308.5
13.5°	1269.7	1277.5	1281.6	1285.9	1296.8	1305.6
14°	1265.6	1273.6	1277.7	1282.3	1293.5	1302.7
14.5°	1261.2	1269.5	1273.6	1278.2	1290.1	1299.7
15°	1256.9	1265.1	1269.7	1274.6	1286.7	1296.6
15.5°	1252.3	1260.8	1265.4	1270.2	1282.8	1293.2
16°	1247.7	1256.1	1261.0	1265.8	1278.9	1289.8
16.5°	1242.8	1251.5	1256.1	1261.5	1274.8	1286.2
17°	1237.7	1246.7	1251.5	1256.9	1270.7	1282.3
17.5°	1232.9	1241.6	1246.7	1252.3	1266.6	1278.4
18°	1227.6	1236.8	1241.6	1247.4	1262.2	1274.6
18.5°	1222.2	1231.2	1236.5	1242.3	1257.6	1270.4
19°	1216.7	1226.1	1231.2	1237.3	1252.8	1266.1
19.5°	1210.9	1220.5	1225.9	1231.9	1247.9	1261.7
20°	1205.0	1214.7	1220.3	1226.6	1243.1	1257.1
20.5°	1199.2	1209.2	1214.2	1221.0	1238.0	1252.5
21°	1193.2	1202.9	1208.4	1215.2	1232.7	1247.7

TEST NUMBER: P776045

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1173.8	1184.0	1190.0	1197.0	1215.9	1231.9
23°	1167.3	1177.7	1183.2	1190.5	1210.1	1226.6
23.5°	1160.2	1170.9	1176.7	1184.0	1204.1	1221.0
24°	1153.2	1163.9	1169.9	1177.2	1198.0	1215.2
24.5°	1146.2	1156.8	1162.9	1170.4	1191.7	1209.4
25°	1138.7	1149.6	1155.6	1163.6	1184.9	1203.1
25.5°	1131.2	1142.3	1148.1	1156.4	1178.2	1196.8
26°	1123.7	1134.6	1140.9	1149.1	1171.4	1190.3
26.5°	1115.7	1127.0	1133.1	1141.3	1164.3	1184.0
27°	1107.7	1119.1	1125.4	1133.6	1157.1	1176.9
27.5°	1099.7	1111.1	1117.1	1126.1	1149.8	1170.2
28°	1091.4	1102.8	1109.1	1118.1	1142.3	1162.9
28.5°	1082.7	1094.3	1100.9	1109.8	1134.6	1155.9
29°	1074.0	1085.9	1092.2	1101.4	1126.8	1148.4
29.5°	1065.3	1077.1	1083.7	1093.1	1118.6	1140.6
30°	1056.1	1068.7	1074.7	1084.2	1110.3	1132.9
30.5°	1047.1	1059.5	1065.8	1075.7	1102.1	1125.1
31°	1037.7	1050.3	1056.8	1066.5	1093.6	1116.9
31.5°	1028.0	1041.3	1047.8	1057.5	1084.9	1108.6
32°	1018.3	1031.9	1038.4	1048.1	1075.9	1100.2
32.5°	1008.6	1022.2	1028.7	1038.9	1067.0	1091.4
33°	998.4	1012.7	1019.5	1029.4	1057.8	1082.7
33.5°	988.3	1003.0	1009.8	1019.7	1048.3	1073.8
34°	978.1	992.9	999.9	1009.8	1038.9	1064.6
34.5°	967.4	982.7	989.7	1000.1	1029.2	1055.6
35°	957.0	972.5	979.8	989.7	1019.5	1045.9
35.5°	946.1	962.1	969.6	979.5	1009.6	1036.5
36°	935.5	951.7	959.2	969.1	999.4	1026.3
36.5°	924.3	941.3	949.0	958.7	989.2	1016.6
37°	913.4	930.6	938.4	948.3	978.6	1006.9
37.5°	902.0	919.7	927.7	937.6	968.4	996.5
38°	890.9	908.8	917.0	926.7	957.7	986.1
38.5°	879.0	898.1	906.1	915.6	947.1	975.7
39°	867.9	886.8	895.5	904.9	935.9	965.0
39.5°	856.0	875.6	884.6	894.0	925.0	954.6
40°	844.4	864.7	873.4	882.9	914.1	943.7
40.5°	832.8	853.6	862.3	871.5	903.0	932.5
41°	820.9	842.0	850.9	860.4	891.9	921.6
41.5°	808.8	830.6	839.8	849.0	880.2	910.5
42°	796.9	819.2	828.4	837.6	869.1	899.1
42.5°	784.8	807.8	817.0	826.2	857.5	887.7
43°	773.2	796.4	805.6	814.8	846.1	876.3
43.5°	761.1	784.5	794.2	803.0	834.4	865.0



TEST NUMBER: P776045

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	726.9	749.9	759.6	768.1	799.3	829.8
45.5°	715.5	738.5	748.0	756.5	787.2	818.0
46°	703.4	726.9	736.6	745.1	775.6	806.1
46.5°	690.8	715.5	725.0	733.2	763.7	794.0
47°	677.2	703.9	713.8	721.8	752.3	782.4
47.5°	661.7	691.1	702.0	710.2	740.7	770.7
48°	644.8	678.2	689.1	697.6	729.1	759.1
48.5°	626.4	663.7	675.8	684.5	717.2	747.0
49°	607.5	647.5	662.2	671.2	704.6	735.6
49.5°	588.4	629.8	645.5	655.7	691.8	722.8
50°	569.2	610.9	628.1	638.5	677.7	709.7
50.5°	549.1	591.3	608.5	619.6	661.7	695.4
51°	529.0	571.6	589.1	600.2	643.8	679.2
51.5°	508.9	551.3	568.5	580.4	624.7	661.0
52°	488.6	531.2	548.6	560.0	605.3	642.6
52.5°	468.7	510.4	528.3	539.4	585.7	623.5
53°	448.3	489.0	507.2	518.8	566.1	603.9
53.5°	428.7	468.5	485.4	497.5	545.7	583.5
54°	408.9	447.6	464.8	476.7	525.4	563.4
54.5°	389.0	427.8	443.7	455.9	504.8	542.8
55°	369.6	407.2	422.4	436.0	484.0	522.2
55.5°	350.2	387.1	402.1	415.4	463.4	501.4
56°	331.6	367.4	381.7	395.3	442.8	481.0
56.5°	313.7	347.8	361.6	375.7	422.4	459.7
57°	295.0	328.7	342.0	356.5	402.1	439.1
57.5°	277.1	310.0	322.6	336.7	382.2	418.3
58°	259.2	291.4	303.7	317.8	362.4	397.2
58.5°	242.7	273.7	286.1	299.9	342.7	376.7
59°	226.5	256.5	268.6	281.7	324.1	356.3
59.5°	210.5	239.6	251.9	264.3	305.4	336.2
60°	194.3	223.6	235.4	247.3	287.3	315.9
60.5°	178.3	207.3	219.7	230.6	269.6	296.0
61°	162.0	192.1	204.4	214.6	251.7	277.3
61.5°	148.0	177.8	190.1	198.9	234.5	258.2
62°	134.4	164.2	176.1	184.3	217.8	240.3
62.5°	122.1	150.9	162.8	170.0	201.5	222.8
63°	110.5	138.5	150.2	156.2	185.8	206.1
63.5°	100.3	126.9	138.3	143.6	171.0	189.7
64°	90.6	116.0	127.2	131.5	156.5	174.2
64.5°	82.4	105.8	116.3	120.4	142.4	159.1
65°	75.6	96.6	106.6	109.7	129.3	144.6
65.5°	69.5	87.9	97.4	100.0	117.2	130.8
66°	64.4	81.9	88.9	91.1	106.3	117.7



TEST NUMBER: P776045

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	53.5	63.9	70.5	70.5	81.4	85.0
68°	51.6	57.9	64.4	66.4	75.8	78.5
68.5°	49.4	54.5	58.4	62.0	70.0	72.2
69°	47.5	52.3	54.7	57.6	64.4	65.6
69.5°	45.5	50.4	52.3	53.3	58.6	59.1
70°	43.6	48.4	50.4	51.4	55.0	55.7
70.5°	41.7	46.3	48.4	49.2	52.3	53.3
71°	39.7	44.3	46.5	47.2	50.1	51.1
71.5°	37.8	42.4	44.6	45.3	48.0	48.9
72°	35.8	40.5	42.4	43.4	45.8	46.7
72.5°	34.2	38.5	40.5	41.4	43.8	44.3
73°	32.5	36.6	38.5	39.5	41.7	42.1
73.5°	30.5	34.9	36.8	37.5	39.7	40.0
74°	28.8	32.9	34.9	35.6	37.5	38.0
74.5°	27.4	31.2	33.2	33.7	35.6	35.8
75°	25.7	29.6	31.5	32.0	33.7	33.9
75.5°	24.2	27.9	29.8	30.3	31.7	32.0
76°	22.5	26.4	28.1	28.6	30.0	30.0
76.5°	21.1	24.7	26.4	26.9	28.1	28.3
77°	19.9	23.3	24.9	25.2	26.4	26.4
77.5°	18.4	21.8	23.3	23.5	24.7	24.7
78°	17.2	20.3	21.8	22.0	23.0	23.3
78.5°	15.7	18.9	20.3	20.6	21.6	21.6
79°	14.5	17.7	18.9	19.1	20.1	20.1
79.5°	13.3	16.2	17.7	17.7	18.4	18.7
80°	12.1	15.0	16.2	16.5	17.2	17.2
80.5°	10.9	13.8	15.0	15.0	15.7	15.7
81°	9.9	12.6	13.8	13.8	14.3	14.5
81.5°	8.7	11.4	12.6	12.6	13.1	13.3
82°	7.8	10.4	11.4	11.4	11.9	11.9
82.5°	6.8	9.2	10.4	10.4	10.7	10.7
83°	5.8	8.2	9.2	9.2	9.4	9.7
83.5°	4.8	7.3	8.2	8.2	8.2	8.5
84°	3.9	6.3	7.3	7.3	7.3	7.5
84.5°	2.9	5.3	6.3	6.3	6.3	6.5
85°	2.2	4.4	5.3	5.3	5.1	5.3
85.5°	1.5	3.4	4.4	4.4	4.4	4.4
86°	0.7	2.4	3.4	3.6	3.6	3.6
86.5°	0.2	1.7	2.7	2.7	2.9	2.7
87°	0.0	1.0	1.7	1.9	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: P776045

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMW-2500lm-2700K

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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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°	1242.6	1257.4	1270.0	1282.6	1275.5	1268.5	1261.5	1246.0	1232.9	1219.3	1205.3
22°	1237.3	1252.8	1265.6	1278.7	1271.4	1264.4	1256.9	1240.9	1227.6	1214.0	1199.5



44°	853.6	884.1	910.3	938.8	914.4	899.8	888.5	858.2	833.5	806.8	780.4
44.5°	841.5	872.2	898.4	927.5	902.5	888.5	876.6	846.3	821.4	795.0	768.6



66.5°	105.8	125.5	147.0	178.8	142.7	127.4	119.2	96.6	76.5	75.6	68.1
67°	95.2	113.6	133.2	162.3	128.4	114.3	106.8	86.2	68.8	68.8	63.0



89°	0.5	1.0	1.9	3.4	1.5	0.7	0.5	0.0	0.0	0.0	0.0
89.5°	0.2	0.5	1.2	2.4	0.7	0.2	0.2	0.0	0.0	0.0	0.0

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21.5°	1186.9	1196.8	1202.4	1209.2	1227.3	1242.6
22°	1180.3	1190.8	1196.3	1203.1	1221.8	1237.3



44°	749.7	772.9	782.6	791.6	822.8	853.6
44.5°	738.3	761.3	771.0	779.7	811.0	841.5

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66.5°	60.1	75.8	82.8	82.8	96.2	105.8
67°	56.4	69.8	76.5	75.8	87.2	95.2

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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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Scaled Data Report



(END OF REPORT)