

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: P776222

Luminaire Tested: HCDJBL51525CSD-HCD8TSQMW-2500lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TSQMW-2500lm-3500K  
Description: 8 INCH SQUARE MEDIUM MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

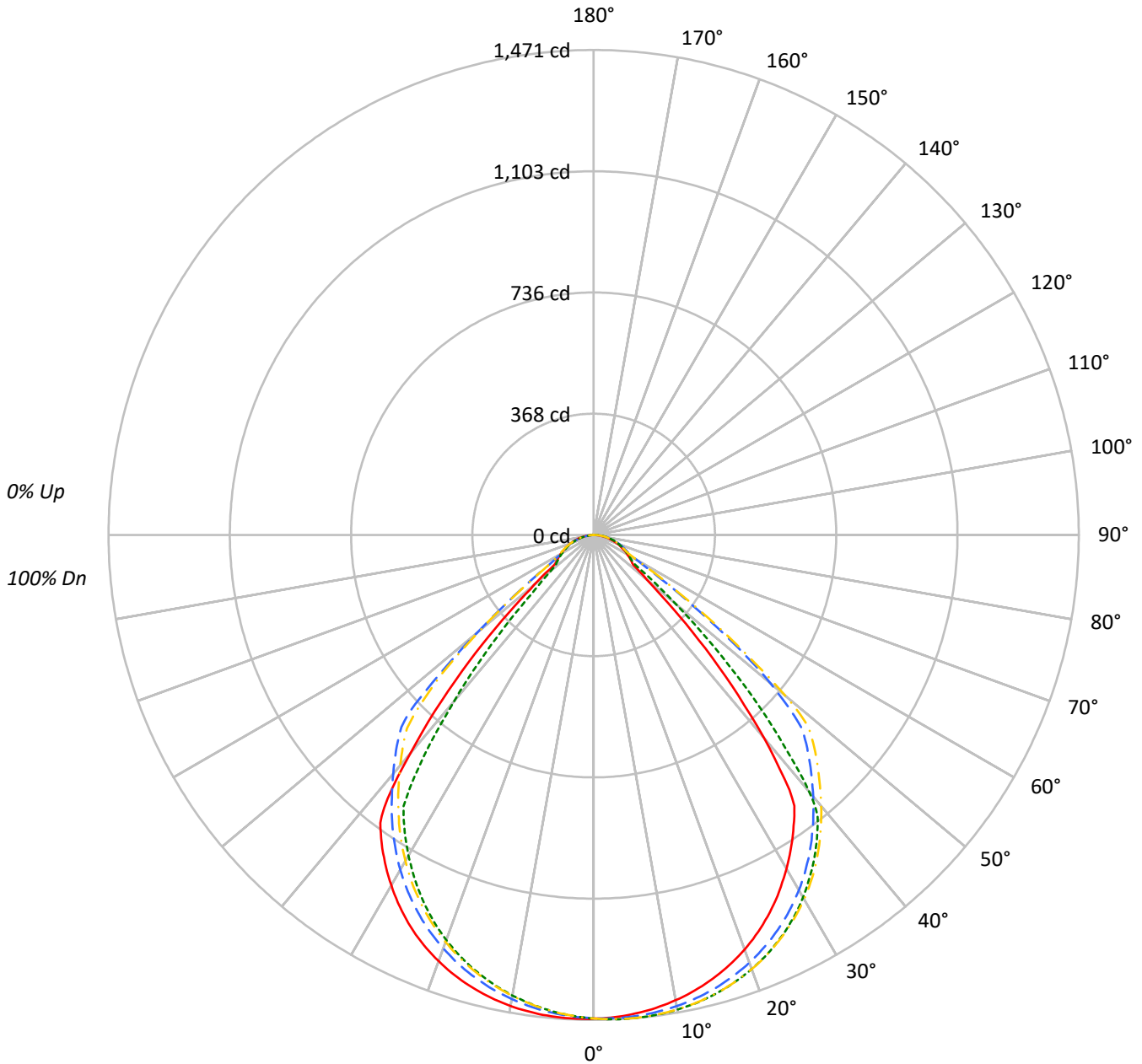
Lumens per Lamp: N/A  
Luminaire Lumens: 2656.4 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





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**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								
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79								
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63								
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56								
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46								
8	69	57	50	44	67	56	49	44	55	49	44	54	48	44	53	48	44	42								
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38								
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	35169	35169	35169	35169
5°	35075	35405	35284	34899
10°	34894	35595	35327	34541
15°	34598	35732	35278	34039
20°	34150	35757	35097	33359
25°	33426	35596	34712	32384
30°	32378	35161	33973	31088
35°	31008	34325	32882	29401
40°	25126	31840	27085	20628
45°	15300	21906	17189	11340
50°	7845	11952	8770	6405
55°	5857	6120	5711	5481
60°	5664	5832	5505	5275
65°	5475	5731	5333	5089
70°	5307	5658	5146	4866
75°	5040	5670	4919	4530
80°	4529	5744	4529	3908
85°	3246	6135	3577	2284

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°

Vertical Angle: 45°

Luminance: 32371 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.8	5.2
10°-20°	396.7	14.9
20°-30°	593.0	22.3
30°-40°	680.5	25.6
40°-50°	494.1	18.6
50°-60°	181.1	6.8
60°-70°	97.1	3.7
70°-80°	58.7	2.2
80°-90°	16.4	0.6
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°	1128.5	42.5
0°-40°	1808.9	68.1
0°-60°	2484.1	93.5
0°-90°	2656.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2656.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1467	1467	1467	1467	1467	
5°	1457	1471	1466	1450	1457	138
15°	1394	1439	1421	1371	1394	393
25°	1263	1345	1312	1224	1263	581
35°	1059	1173	1123	1004	1059	647
45°	451	646	507	334	451	356
55°	140	146	137	131	140	131
65°	96	101	94	90	96	96
75°	54	61	53	49	54	57
85°	12	22	13	8	12	14
90°	0	4	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7
0.5°	1467.2	1467.4	1466.7	1466.4	1467.7	1467.7	1467.7	1468.2	1468.2	1467.4	1465.4
1°	1466.7	1467.2	1466.9	1467.2	1468.7	1468.4	1468.4	1468.7	1468.4	1467.2	1464.7
1.5°	1465.9	1466.9	1467.2	1467.7	1469.4	1469.2	1469.2	1469.2	1468.4	1466.9	1463.9
2°	1465.2	1466.4	1467.2	1467.9	1469.9	1469.9	1469.7	1469.4	1468.4	1466.7	1463.2
2.5°	1463.9	1465.9	1467.2	1468.4	1470.4	1470.4	1470.2	1469.4	1468.4	1466.2	1461.9
3°	1462.9	1465.2	1466.9	1468.7	1470.9	1470.9	1470.4	1469.4	1468.2	1465.7	1460.9
3.5°	1461.9	1464.4	1466.7	1468.7	1470.9	1471.2	1470.7	1469.7	1467.9	1464.9	1459.4
4°	1460.4	1463.4	1466.4	1468.7	1470.9	1471.2	1470.9	1469.4	1467.4	1463.9	1457.9
4.5°	1458.9	1462.4	1465.7	1468.2	1470.9	1471.2	1470.7	1469.2	1466.7	1462.9	1456.4
5°	1457.2	1461.2	1465.2	1467.9	1470.9	1471.2	1470.7	1468.7	1465.9	1461.7	1454.7
5.5°	1455.4	1459.9	1464.2	1467.4	1470.7	1470.7	1470.2	1468.2	1464.9	1460.2	1452.9
6°	1453.4	1458.4	1463.4	1466.9	1470.2	1470.4	1469.7	1467.4	1463.9	1458.9	1450.9
6.5°	1451.6	1456.7	1462.2	1466.2	1469.7	1469.9	1469.2	1466.7	1462.7	1457.4	1448.9
7°	1449.4	1454.9	1461.2	1465.4	1468.9	1469.4	1468.4	1465.7	1461.4	1455.7	1446.4
7.5°	1446.9	1453.1	1459.7	1464.4	1468.2	1468.9	1467.7	1464.7	1459.9	1453.9	1444.1
8°	1444.4	1451.1	1458.4	1463.4	1467.2	1467.9	1466.7	1463.4	1458.4	1451.9	1441.4
8.5°	1441.9	1448.9	1456.7	1461.9	1466.2	1466.9	1465.7	1462.2	1456.7	1449.6	1438.6
9°	1439.1	1446.6	1454.9	1460.7	1464.9	1465.9	1464.4	1460.7	1454.9	1447.4	1435.9
9.5°	1436.1	1444.1	1453.1	1459.2	1463.7	1464.4	1463.2	1459.2	1452.9	1444.9	1432.8
10°	1433.1	1441.4	1451.4	1457.7	1461.9	1463.2	1461.4	1457.2	1450.9	1442.4	1429.8
10.5°	1429.8	1438.6	1449.1	1455.9	1460.4	1461.7	1459.9	1455.2	1448.4	1439.9	1426.3
11°	1426.6	1435.9	1446.9	1453.9	1458.7	1460.2	1458.2	1453.1	1445.9	1436.9	1422.8
11.5°	1423.1	1432.8	1444.1	1451.9	1456.9	1458.2	1456.2	1450.9	1443.4	1434.1	1419.3
12°	1419.3	1429.6	1441.9	1449.6	1454.9	1456.2	1454.2	1448.6	1440.9	1430.8	1415.8
12.5°	1415.3	1426.3	1439.1	1447.4	1452.6	1454.2	1452.1	1446.4	1437.9	1427.3	1411.8
13°	1411.5	1422.6	1436.4	1444.9	1450.4	1451.9	1449.6	1443.6	1434.9	1423.8	1407.8
13.5°	1407.3	1419.1	1433.3	1442.4	1447.9	1449.6	1447.1	1440.9	1431.6	1420.3	1403.5
14°	1403.0	1415.0	1430.3	1439.6	1445.1	1446.9	1444.6	1437.9	1428.3	1416.6	1399.0
14.5°	1398.5	1411.3	1427.1	1436.9	1442.4	1444.4	1441.9	1434.9	1424.8	1412.8	1394.5
15°	1393.7	1407.0	1423.6	1433.6	1439.4	1441.6	1438.9	1431.6	1421.1	1408.5	1390.0
15.5°	1389.0	1402.8	1420.1	1430.3	1436.4	1438.4	1436.1	1428.3	1417.3	1404.5	1385.2
16°	1384.0	1398.0	1416.3	1427.1	1433.1	1435.4	1432.8	1424.8	1413.3	1400.0	1380.2
16.5°	1379.0	1393.7	1412.3	1423.6	1429.8	1432.1	1429.3	1421.1	1409.3	1395.5	1374.9
17°	1373.7	1389.0	1408.3	1419.8	1426.1	1428.6	1425.8	1417.3	1405.0	1391.0	1369.7
17.5°	1368.2	1384.0	1404.3	1416.1	1422.3	1425.1	1422.1	1413.3	1400.5	1386.2	1364.2
18°	1362.7	1379.0	1399.8	1412.0	1418.6	1421.3	1418.6	1408.8	1395.7	1381.2	1358.6
18.5°	1356.6	1373.7	1395.2	1408.0	1414.5	1417.3	1414.5	1404.8	1391.0	1375.9	1352.6
19°	1350.6	1368.2	1390.7	1403.5	1410.3	1413.3	1410.3	1400.0	1386.0	1370.7	1346.6
19.5°	1344.6	1362.4	1385.7	1399.0	1405.8	1409.0	1406.0	1395.7	1381.0	1365.2	1340.6
20°	1338.3	1356.6	1380.7	1394.5	1401.3	1404.8	1401.5	1390.5	1375.4	1359.6	1334.3
20.5°	1331.6	1350.6	1375.7	1389.7	1396.5	1400.0	1397.0	1385.7	1369.9	1353.9	1327.8
21°	1324.8	1344.6	1370.4	1384.7	1391.7	1395.5	1392.0	1380.5	1364.4	1347.6	1321.0



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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°	1303.2	1325.1	1353.1	1368.7	1375.7	1380.0	1376.7	1363.9	1346.4	1328.6	1300.5
23°	1295.7	1318.0	1347.1	1363.2	1370.2	1374.4	1371.4	1358.1	1339.8	1321.8	1293.2
23.5°	1288.0	1311.0	1341.1	1357.1	1364.2	1368.9	1365.7	1352.1	1333.1	1314.8	1285.7
24°	1279.9	1303.5	1334.6	1351.1	1358.4	1363.2	1359.6	1345.6	1326.6	1307.8	1278.2
24.5°	1271.9	1296.0	1328.1	1345.1	1352.1	1357.1	1353.9	1339.3	1319.3	1300.5	1270.2
25°	1263.4	1288.2	1321.3	1338.3	1345.4	1350.9	1347.6	1332.8	1312.0	1293.0	1262.4
25.5°	1254.9	1280.2	1314.5	1331.8	1339.1	1344.4	1341.3	1326.1	1304.8	1285.2	1254.1
26°	1246.3	1272.2	1307.3	1325.1	1332.1	1338.1	1334.8	1319.0	1297.0	1277.4	1245.8
26.5°	1237.3	1263.9	1300.2	1318.0	1325.1	1331.3	1328.1	1311.5	1289.0	1269.2	1237.3
27°	1228.3	1255.4	1293.0	1311.0	1317.8	1323.8	1321.3	1304.0	1280.7	1260.9	1228.5
27.5°	1218.5	1246.6	1285.2	1303.7	1310.3	1316.8	1314.3	1296.5	1272.4	1252.4	1219.8
28°	1209.2	1237.8	1277.2	1296.0	1302.5	1309.5	1307.0	1288.7	1263.9	1243.6	1211.0
28.5°	1199.0	1228.8	1269.4	1288.5	1294.5	1301.7	1299.5	1280.4	1255.1	1234.6	1201.5
29°	1189.7	1219.5	1261.1	1280.2	1287.0	1293.7	1292.0	1272.4	1245.8	1225.5	1192.2
29.5°	1179.2	1210.0	1252.9	1272.2	1277.9	1285.7	1284.2	1263.6	1236.8	1215.8	1182.4
30°	1169.4	1200.2	1244.3	1263.9	1269.9	1277.4	1275.9	1255.1	1227.0	1206.5	1172.9
30.5°	1158.6	1190.4	1235.8	1255.4	1260.4	1268.9	1267.9	1246.1	1217.8	1196.7	1162.6
31°	1148.6	1180.7	1226.8	1246.3	1252.1	1260.4	1259.4	1237.1	1208.0	1186.7	1152.6
31.5°	1137.8	1170.1	1217.5	1237.6	1242.1	1251.1	1250.9	1227.8	1198.2	1176.7	1142.3
32°	1127.3	1159.9	1208.2	1228.3	1232.6	1242.3	1241.8	1218.3	1188.2	1166.6	1131.8
32.5°	1116.0	1149.6	1198.7	1218.8	1223.0	1232.8	1232.8	1208.7	1177.9	1156.4	1120.8
33°	1105.5	1139.3	1188.7	1209.2	1213.5	1223.5	1223.5	1199.0	1167.4	1146.1	1110.0
33.5°	1094.2	1128.5	1179.2	1199.7	1203.2	1213.8	1214.0	1189.2	1156.9	1135.8	1098.9
34°	1082.9	1118.0	1168.9	1189.7	1193.0	1203.7	1204.2	1178.9	1146.1	1125.3	1087.7
34.5°	1070.6	1107.0	1158.6	1179.7	1182.7	1193.7	1194.5	1168.9	1134.5	1114.5	1076.4
35°	1059.3	1095.9	1148.1	1169.4	1172.6	1183.9	1184.4	1158.6	1123.3	1103.5	1064.9
35.5°	1047.6	1084.7	1137.6	1159.1	1161.4	1173.6	1173.9	1148.3	1111.7	1092.2	1053.3
36°	1035.3	1073.4	1126.5	1148.6	1150.6	1163.1	1163.4	1137.6	1100.0	1080.9	1041.5
36.5°	1022.5	1061.6	1115.7	1138.3	1139.1	1152.8	1152.6	1126.5	1086.9	1069.4	1029.5
37°	1000.9	1049.8	1104.7	1127.5	1127.5	1141.8	1141.8	1115.2	1067.9	1057.3	1017.7
37.5°	975.1	1038.0	1093.4	1116.5	1115.7	1130.8	1130.5	1104.0	1044.1	1045.6	1005.4
38°	940.5	1025.8	1082.2	1105.5	1103.7	1119.3	1119.5	1092.2	1014.5	1032.8	993.4
38.5°	905.9	1013.2	1070.4	1094.2	1090.2	1108.0	1108.0	1080.6	979.6	1018.5	981.6
39°	872.3	994.4	1058.8	1082.9	1070.9	1096.2	1096.7	1068.6	942.8	995.2	969.6
39.5°	838.2	969.4	1047.3	1071.1	1047.1	1084.2	1084.9	1055.1	904.2	969.4	957.6
40°	802.7	936.5	1035.5	1059.1	1017.2	1071.9	1072.9	1033.0	865.3	938.5	945.8
40.5°	765.6	902.2	1023.7	1046.8	983.4	1058.6	1060.8	1010.7	828.5	904.2	934.3
41°	727.7	869.3	1011.7	1034.5	945.0	1037.8	1049.3	981.4	793.1	870.1	922.5
41.5°	690.4	836.2	999.9	1021.2	906.2	1014.7	1037.3	948.8	757.0	831.7	910.7
42°	654.8	801.7	987.9	1003.4	867.1	986.6	1025.5	913.5	720.7	796.6	898.7
42.5°	620.9	765.6	975.9	980.4	830.0	953.3	1013.7	876.4	683.1	762.5	886.9
43°	586.1	729.7	964.1	953.1	793.9	917.2	1001.7	840.3	646.0	730.2	874.8
43.5°	551.5	693.6	951.8	922.2	757.5	879.1	990.2	805.2	609.1	694.6	862.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	451.2	589.1	915.7	816.2	646.0	769.8	954.6	700.6	506.9	591.6	824.0
45.5°	419.4	556.0	903.4	780.8	608.4	735.0	942.3	664.8	473.0	555.7	803.7
46°	389.5	522.7	890.9	747.5	573.5	699.4	930.0	629.2	440.9	523.9	779.6
46.5°	360.2	488.8	878.4	714.2	539.4	662.5	917.7	593.1	409.1	491.1	746.0
47°	331.6	456.0	865.3	679.8	505.4	625.7	905.2	559.0	378.8	461.5	704.6
47.5°	305.8	424.6	842.3	645.2	471.8	589.6	892.1	525.9	349.4	429.2	663.3
48°	281.0	394.3	818.2	610.6	438.4	555.7	878.6	493.8	323.4	400.1	620.9
48.5°	258.9	365.2	788.1	575.8	406.8	522.4	857.8	461.0	297.5	370.5	580.1
49°	240.1	336.7	758.5	543.7	376.3	488.8	829.0	429.2	274.0	341.9	540.7
49.5°	224.1	310.1	728.5	510.4	347.4	456.2	797.1	398.3	251.7	316.1	501.8
50°	210.3	284.5	699.4	480.3	320.4	423.6	758.3	368.5	235.1	292.0	463.5
50.5°	198.8	261.2	667.8	449.2	295.3	392.3	716.9	340.4	218.8	268.2	427.1
51°	188.0	240.6	631.2	418.4	271.2	362.5	673.3	312.8	202.5	246.4	393.3
51.5°	177.2	224.1	594.1	387.3	249.4	333.9	629.4	288.0	186.2	229.1	361.7
52°	166.7	209.6	555.2	359.2	232.1	307.1	586.8	264.7	170.0	211.8	331.1
52.5°	157.4	197.3	515.4	331.4	214.6	282.0	545.0	246.7	157.2	194.8	303.3
53°	150.7	186.0	476.8	305.8	197.3	258.4	506.4	228.6	148.1	177.5	278.0
53.5°	147.4	175.7	439.4	280.8	180.0	240.6	469.5	210.6	144.1	163.7	254.7
54°	144.6	165.2	404.1	258.7	166.9	222.8	433.4	192.5	141.4	151.4	237.1
54.5°	142.4	155.2	370.0	236.6	154.7	205.1	398.1	174.5	138.9	142.4	219.8
55°	140.1	147.1	339.9	217.6	146.4	187.3	364.2	161.7	136.6	138.4	202.8
55.5°	137.6	142.4	311.3	200.0	142.6	169.5	332.4	149.4	134.1	135.6	185.5
56°	135.4	139.6	283.5	184.2	140.1	156.2	302.8	139.9	131.9	133.4	168.5
56.5°	133.1	137.4	258.4	169.7	137.6	144.6	277.2	135.9	129.6	130.9	157.2
57°	130.9	134.9	236.1	156.4	135.1	137.6	256.2	133.1	127.3	128.6	147.6
57.5°	128.6	132.6	215.8	144.6	132.9	134.6	235.1	130.9	125.3	126.3	139.6
58°	126.6	130.3	197.8	137.1	130.6	132.4	213.8	128.3	123.1	124.1	133.1
58.5°	124.3	128.1	182.2	134.1	128.3	129.8	192.8	126.3	121.1	122.1	127.6
59°	122.3	125.8	168.5	131.6	126.1	127.6	172.0	124.1	118.8	119.8	122.8
59.5°	120.1	123.8	157.4	129.1	123.8	125.3	157.9	121.8	116.8	117.8	118.8
60°	118.1	121.6	148.1	126.8	121.6	123.1	146.9	119.8	114.8	115.8	115.3
60.5°	115.8	119.6	140.6	124.6	119.3	120.8	138.4	117.6	112.8	113.8	112.6
61°	113.8	117.6	134.4	122.3	117.3	118.6	130.9	115.6	110.8	111.8	110.3
61.5°	111.5	115.6	128.6	120.3	115.3	116.6	125.3	113.6	108.5	109.8	108.0
62°	109.5	113.3	123.8	118.1	113.3	114.6	120.3	111.5	106.5	107.8	105.5
62.5°	107.3	111.3	119.6	116.1	111.3	112.6	116.3	109.5	104.3	105.8	103.3
63°	105.0	109.3	116.3	113.8	109.0	110.5	112.6	107.5	102.3	103.5	101.0
63.5°	103.0	107.3	113.8	111.8	107.0	108.5	109.8	105.5	100.3	101.5	99.0
64°	100.8	105.3	111.3	109.8	105.0	106.5	107.3	103.5	98.0	99.3	96.8
64.5°	98.8	103.0	109.0	107.5	103.0	104.5	105.0	101.5	96.0	97.3	94.5
65°	96.5	101.0	106.8	105.5	101.0	102.5	102.8	99.5	94.0	95.3	92.2
65.5°	94.3	99.0	104.3	103.5	98.8	100.5	100.5	97.5	91.7	93.0	90.2
66°	92.2	96.8	102.0	101.5	96.8	98.5	98.3	95.3	89.7	91.0	88.0





TEST NUMBER: P776222

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	86.0	91.5	95.5	95.3	90.7	92.5	91.7	89.0	83.7	84.7	81.5
68°	84.0	89.2	93.3	93.0	88.7	90.5	89.5	87.0	81.7	82.5	79.2
68.5°	82.0	87.0	90.5	90.7	86.7	88.2	87.5	85.0	79.7	80.5	77.0
69°	80.0	84.5	88.5	88.7	84.7	86.2	85.2	82.7	77.7	78.2	75.0
69.5°	77.7	82.2	86.5	86.7	82.7	84.2	83.2	80.7	75.7	76.2	72.7
70°	75.7	80.2	84.2	85.0	80.7	82.2	81.0	78.7	73.4	74.2	70.4
70.5°	73.4	78.0	82.2	83.0	79.0	80.2	79.0	76.7	71.4	71.9	68.4
71°	71.4	76.0	80.0	80.7	77.0	78.2	76.7	74.4	69.4	69.9	66.2
71.5°	69.2	73.9	78.0	78.7	75.0	76.2	74.7	72.4	67.4	67.9	63.9
72°	67.2	71.7	75.7	76.7	72.9	74.2	72.4	70.4	65.4	65.7	61.9
72.5°	64.9	69.4	73.4	74.7	71.2	72.2	70.4	68.4	63.4	63.7	59.7
73°	62.9	67.4	71.2	72.4	69.2	70.2	68.2	66.2	61.4	61.7	57.7
73.5°	60.7	65.2	69.2	70.4	67.2	68.2	66.2	64.2	59.4	59.4	55.4
74°	58.7	63.2	66.9	68.4	65.2	66.2	64.2	62.2	57.4	57.4	53.1
74.5°	56.4	60.9	64.7	66.4	63.2	64.2	61.9	60.2	55.1	55.1	51.1
75°	54.4	58.9	62.7	64.4	61.2	62.2	59.9	57.9	53.1	53.1	48.9
75.5°	52.1	56.7	60.4	62.4	59.4	60.2	57.9	55.9	51.1	50.9	46.6
76°	49.9	54.4	58.2	60.2	57.4	58.2	55.6	53.6	49.1	48.6	44.6
76.5°	47.9	52.1	56.2	58.2	55.4	56.2	53.6	51.6	47.1	46.6	42.4
77°	45.6	50.1	53.9	56.2	53.4	54.1	51.6	49.6	44.9	44.6	40.4
77.5°	43.6	47.9	51.6	53.9	51.4	52.1	49.4	47.4	42.9	42.4	38.1
78°	41.4	45.6	49.6	51.9	49.4	50.1	47.4	45.4	40.9	40.4	36.1
78.5°	39.4	43.6	47.4	49.9	47.4	48.1	45.4	43.1	38.9	38.1	33.8
79°	37.1	41.4	45.4	47.6	45.6	46.1	43.1	41.1	36.8	36.1	31.8
79.5°	35.1	39.1	43.1	45.6	43.6	44.1	41.1	39.1	34.8	33.8	29.6
80°	32.8	37.1	40.9	43.6	41.6	41.9	39.1	36.8	32.8	31.8	27.6
80.5°	30.8	34.8	38.9	41.4	39.6	40.1	37.1	34.8	30.8	29.6	25.6
81°	28.8	32.6	36.8	39.4	37.9	38.1	35.1	32.8	28.8	27.6	23.3
81.5°	26.6	30.3	34.6	37.4	35.8	35.8	32.8	30.8	26.8	25.3	21.3
82°	24.6	28.3	32.3	35.1	33.8	34.1	30.8	28.6	24.8	23.3	19.3
82.5°	22.3	26.1	30.3	33.1	31.8	31.8	28.8	26.6	22.8	21.1	17.0
83°	20.3	24.1	28.3	31.1	30.1	29.8	26.8	24.6	20.8	19.1	15.0
83.5°	18.0	21.8	26.1	29.1	28.1	27.8	24.8	22.3	18.8	16.8	13.3
84°	16.0	19.6	24.1	27.1	26.1	25.8	22.8	20.3	16.8	14.8	11.5
84.5°	14.0	17.5	21.8	24.8	24.3	23.8	20.8	18.3	14.8	12.8	9.8
85°	11.8	15.3	19.8	22.8	22.3	22.1	18.8	16.0	13.0	10.5	8.0
85.5°	9.8	13.3	17.8	20.8	20.3	20.1	16.8	14.0	11.0	8.5	6.3
86°	8.3	11.0	15.5	18.8	18.5	18.0	14.8	12.0	9.3	6.8	4.8
86.5°	6.5	8.8	13.8	17.0	16.5	16.0	13.0	9.8	7.3	5.3	3.0
87°	5.0	7.3	12.0	15.0	14.5	14.0	11.3	8.0	5.5	4.0	1.5
87.5°	3.5	5.8	10.3	13.0	12.8	12.3	9.5	6.5	4.3	2.8	0.3
88°	2.0	4.3	8.8	11.3	10.8	10.3	8.0	5.0	3.0	1.5	0.0
88.5°	0.8	2.8	7.0	9.3	9.0	8.5	6.3	3.8	1.8	0.3	0.0



TEST NUMBER: P776222

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	2.0	3.8	3.5	3.0	1.5	0.3	0.0	0.0	0.0



TEST NUMBER: P776222

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1466.7	1466.7	1466.7	1466.7	1466.7	1466.7
0.5°	1464.7	1465.7	1465.4	1465.7	1466.4	1467.2
1°	1463.7	1464.4	1463.9	1464.4	1465.4	1466.7
1.5°	1462.4	1463.2	1462.4	1462.9	1464.4	1465.9
2°	1461.2	1461.7	1460.9	1461.7	1463.2	1465.2
2.5°	1459.7	1459.9	1459.4	1459.9	1461.7	1463.9
3°	1458.2	1458.4	1457.4	1458.4	1460.2	1462.9
3.5°	1456.4	1456.4	1455.7	1456.4	1458.7	1461.9
4°	1454.7	1454.4	1453.4	1454.4	1456.9	1460.4
4.5°	1452.6	1452.1	1451.4	1452.4	1455.2	1458.9
5°	1450.6	1449.9	1448.9	1449.9	1452.9	1457.2
5.5°	1448.4	1447.4	1446.4	1447.6	1450.9	1455.4
6°	1445.9	1444.9	1443.6	1445.1	1448.6	1453.4
6.5°	1443.4	1442.1	1440.9	1442.4	1446.4	1451.6
7°	1440.6	1439.1	1437.9	1439.6	1443.6	1449.4
7.5°	1437.9	1436.1	1434.6	1436.6	1441.1	1446.9
8°	1434.9	1432.8	1431.3	1433.6	1438.1	1444.4
8.5°	1431.6	1429.6	1428.1	1430.3	1435.1	1441.9
9°	1428.3	1425.8	1424.6	1426.8	1432.1	1439.1
9.5°	1424.8	1422.3	1420.8	1423.3	1428.8	1436.1
10°	1421.3	1418.6	1416.8	1419.6	1425.3	1433.1
10.5°	1417.3	1414.5	1412.8	1415.8	1421.8	1429.8
11°	1413.5	1410.3	1408.8	1411.8	1418.1	1426.6
11.5°	1409.3	1406.0	1404.5	1407.8	1414.3	1423.1
12°	1405.3	1401.5	1399.8	1403.3	1410.0	1419.3
12.5°	1400.8	1396.7	1395.2	1399.0	1405.8	1415.3
13°	1396.2	1392.0	1390.2	1394.2	1401.8	1411.5
13.5°	1391.5	1387.0	1385.5	1389.7	1397.2	1407.3
14°	1386.7	1382.0	1380.2	1384.7	1392.5	1403.0
14.5°	1381.7	1376.7	1374.9	1379.7	1387.7	1398.5
15°	1376.4	1371.2	1369.2	1374.4	1382.7	1393.7
15.5°	1371.2	1365.7	1363.9	1369.2	1377.4	1389.0
16°	1365.7	1359.6	1358.1	1363.4	1372.4	1384.0
16.5°	1360.2	1353.9	1352.1	1357.9	1366.9	1379.0
17°	1354.1	1347.9	1345.9	1351.9	1361.4	1373.7
17.5°	1348.1	1341.3	1339.6	1346.1	1355.6	1368.2
18°	1342.1	1334.8	1333.3	1339.8	1349.6	1362.7
18.5°	1335.6	1328.1	1326.8	1333.3	1343.6	1356.6
19°	1329.1	1321.3	1319.5	1327.1	1337.3	1350.6
19.5°	1322.5	1314.5	1312.8	1320.3	1331.1	1344.6
20°	1315.8	1307.3	1305.8	1313.5	1324.3	1338.3
20.5°	1308.5	1299.7	1298.5	1306.8	1317.5	1331.6
21°	1301.5	1292.2	1291.0	1299.2	1310.5	1324.8



TEST NUMBER: P776222

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1278.7	1268.2	1267.4	1276.9	1288.5	1303.2
23°	1270.9	1259.6	1259.1	1269.2	1280.9	1295.7
23.5°	1262.6	1251.4	1250.9	1261.4	1273.2	1288.0
24°	1254.4	1242.3	1242.3	1253.1	1265.1	1279.9
24.5°	1245.8	1233.3	1233.3	1244.8	1256.9	1271.9
25°	1237.1	1224.0	1224.3	1236.3	1248.6	1263.4
25.5°	1228.3	1214.8	1215.3	1227.8	1239.8	1254.9
26°	1219.0	1205.2	1206.0	1218.8	1231.3	1246.3
26.5°	1209.7	1195.7	1196.5	1209.7	1222.3	1237.3
27°	1200.5	1185.7	1186.7	1200.7	1213.3	1228.3
27.5°	1190.7	1175.4	1176.9	1191.4	1203.7	1218.5
28°	1180.9	1165.1	1166.6	1181.7	1194.2	1209.2
28.5°	1170.9	1154.6	1156.6	1172.1	1184.7	1199.0
29°	1160.9	1144.1	1146.3	1162.1	1175.2	1189.7
29.5°	1150.6	1133.5	1135.8	1152.1	1164.9	1179.2
30°	1140.1	1122.8	1125.0	1142.1	1154.8	1169.4
30.5°	1129.5	1111.7	1114.5	1131.5	1144.6	1158.6
31°	1119.0	1100.7	1103.7	1121.3	1134.0	1148.6
31.5°	1108.2	1089.4	1092.4	1110.5	1123.5	1137.8
32°	1097.4	1077.9	1081.4	1099.7	1112.7	1127.3
32.5°	1086.7	1066.4	1070.6	1088.4	1102.0	1116.0
33°	1075.4	1054.6	1059.3	1077.6	1091.2	1105.5
33.5°	1064.1	1042.5	1047.6	1066.4	1079.9	1094.2
34°	1052.6	1030.5	1036.3	1055.1	1069.4	1082.9
34.5°	1041.3	1017.7	1024.2	1043.0	1058.1	1070.6
35°	1029.5	1004.4	1012.5	1031.8	1046.8	1059.3
35.5°	1017.7	977.9	1000.2	1020.2	1035.5	1047.6
36°	1005.7	947.5	988.2	1008.2	1024.0	1035.3
36.5°	993.4	913.5	974.9	996.4	1012.0	1022.5
37°	980.4	879.4	956.3	984.6	1000.2	1000.9
37.5°	965.1	844.3	930.0	972.6	988.2	975.1
38°	939.3	808.2	897.7	960.6	975.9	940.5
38.5°	908.2	771.1	864.3	948.5	963.8	905.9
39°	875.3	733.0	833.0	936.8	950.8	872.3
39.5°	842.3	694.6	799.1	924.7	930.2	838.2
40°	809.2	659.0	764.6	912.9	905.4	802.7
40.5°	774.3	623.7	728.2	900.7	873.3	765.6
41°	738.5	589.6	692.9	888.6	841.3	727.7
41.5°	701.9	554.5	657.5	876.6	810.2	690.4
42°	666.3	520.9	623.2	864.8	778.1	654.8
42.5°	631.2	486.3	590.3	852.8	746.0	620.9
43°	597.1	453.5	558.7	840.8	712.2	586.1
43.5°	564.3	421.9	525.9	828.2	677.8	551.5



TEST NUMBER: P776222

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	466.0	334.4	429.7	768.8	578.3	451.2
45.5°	434.4	307.1	399.8	740.7	547.2	419.4
46°	403.8	282.3	371.5	711.9	515.6	389.5
46.5°	374.5	260.2	343.4	684.6	484.0	360.2
47°	346.2	241.9	316.1	656.3	452.5	331.6
47.5°	319.1	226.4	291.0	627.2	422.4	305.8
48°	292.5	213.6	267.7	592.1	393.3	281.0
48.5°	269.2	202.3	247.7	555.7	365.2	258.9
49°	247.7	192.0	230.6	517.4	337.7	240.1
49.5°	233.9	181.7	215.8	481.3	312.1	224.1
50°	220.6	171.7	203.5	446.9	286.5	210.3
50.5°	207.3	161.4	192.8	414.6	263.5	198.8
51°	193.8	153.4	182.7	382.8	242.4	188.0
51.5°	180.5	148.1	172.7	354.2	224.6	177.2
52°	170.2	145.1	162.7	326.6	209.1	166.7
52.5°	160.4	142.6	153.2	299.6	195.8	157.4
53°	150.7	140.4	145.9	275.2	184.2	150.7
53.5°	142.9	138.1	142.4	253.2	173.7	147.4
54°	138.6	135.6	139.6	232.1	163.2	144.6
54.5°	136.1	133.4	137.4	214.8	153.4	142.4
55°	133.6	131.1	134.9	198.0	145.1	140.1
55.5°	131.4	128.8	132.6	183.5	140.1	137.6
56°	129.1	126.8	130.3	170.2	137.6	135.4
56.5°	126.8	124.6	128.1	159.9	135.1	133.1
57°	124.8	122.6	125.8	150.7	132.9	130.9
57.5°	122.6	120.3	123.8	143.1	130.6	128.6
58°	120.6	118.3	121.8	136.6	128.3	126.6
58.5°	118.6	116.3	119.6	131.4	126.1	124.3
59°	116.3	114.3	117.6	126.3	124.1	122.3
59.5°	114.3	112.3	115.6	122.1	121.8	120.1
60°	112.3	110.0	113.3	118.8	119.6	118.1
60.5°	110.3	108.0	111.5	116.3	117.6	115.8
61°	108.3	106.0	109.5	114.1	115.3	113.8
61.5°	106.0	104.0	107.5	111.8	113.3	111.5
62°	104.0	101.8	105.3	109.3	111.0	109.5
62.5°	102.0	99.8	103.3	107.0	109.0	107.3
63°	99.8	97.8	101.3	104.8	106.8	105.0
63.5°	97.8	95.5	99.0	102.5	104.5	103.0
64°	95.8	93.5	97.0	100.3	102.3	100.8
64.5°	93.5	91.7	94.8	98.0	100.0	98.8
65°	91.5	89.7	92.7	95.8	98.0	96.5
65.5°	89.2	87.7	90.2	93.8	95.8	94.3
66°	87.2	85.7	88.5	91.5	93.5	92.2



TEST NUMBER: P776222

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	81.0	79.5	82.7	84.7	87.0	86.0
68°	79.0	77.5	80.5	82.7	84.7	84.0
68.5°	76.7	75.5	78.5	80.5	82.5	82.0
69°	74.7	73.4	76.5	78.2	80.5	80.0
69.5°	72.4	71.4	74.2	76.0	78.2	77.7
70°	70.4	69.4	72.2	73.7	76.0	75.7
70.5°	68.4	67.4	69.9	71.4	73.7	73.4
71°	66.4	65.4	67.9	69.2	71.7	71.4
71.5°	64.2	63.4	65.9	66.9	69.4	69.2
72°	62.2	61.2	63.7	64.7	67.2	67.2
72.5°	59.9	59.2	61.4	62.4	64.9	64.9
73°	57.9	57.2	59.4	60.4	62.7	62.9
73.5°	55.6	54.9	57.2	58.2	60.4	60.7
74°	53.6	52.9	55.1	55.9	58.4	58.7
74.5°	51.4	50.9	52.9	53.6	56.2	56.4
75°	49.4	48.9	50.6	51.4	53.9	54.4
75.5°	47.1	46.6	48.6	49.1	51.4	52.1
76°	45.1	44.6	46.4	46.9	49.4	49.9
76.5°	42.9	42.6	44.4	44.6	47.1	47.9
77°	40.9	40.6	42.1	42.6	44.9	45.6
77.5°	38.6	38.6	40.1	40.4	42.6	43.6
78°	36.6	36.6	37.9	38.1	40.4	41.4
78.5°	34.3	34.3	35.8	35.8	38.1	39.4
79°	32.3	32.3	33.6	33.6	35.8	37.1
79.5°	30.1	30.3	31.3	31.3	33.6	35.1
80°	28.1	28.3	29.3	29.3	31.3	32.8
80.5°	25.8	26.3	27.1	27.1	29.1	30.8
81°	23.8	24.3	25.1	24.8	26.8	28.8
81.5°	21.8	22.3	23.1	22.8	24.6	26.6
82°	19.8	20.3	20.8	20.8	22.3	24.6
82.5°	17.8	18.0	18.8	18.8	20.3	22.3
83°	15.5	16.0	16.8	16.8	18.0	20.3
83.5°	13.5	14.0	14.5	14.8	15.5	18.0
84°	11.5	12.0	12.5	13.0	13.5	16.0
84.5°	9.8	10.3	10.5	11.0	11.3	14.0
85°	7.8	8.3	8.5	9.3	9.5	11.8
85.5°	5.8	6.3	6.8	7.5	8.0	9.8
86°	3.8	4.5	4.8	5.8	6.5	8.3
86.5°	2.0	2.5	2.8	4.0	4.8	6.5
87°	0.5	0.8	1.0	2.0	3.3	5.0
87.5°	0.0	0.0	0.3	0.8	2.0	3.5
88°	0.0	0.0	0.0	0.0	0.8	2.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.8



TEST NUMBER: P776222  
CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMW-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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Scaled Data Report





21.5°	1317.8	1338.3	1364.7	1379.7	1386.5	1390.5	1387.2	1375.2	1358.6	1341.3	1314.5
22°	1310.5	1331.8	1359.1	1374.2	1381.2	1385.5	1382.2	1369.7	1352.6	1334.8	1307.5



44°	517.4	657.8	939.5	887.4	720.4	841.5	978.4	771.1	573.8	660.0	850.3
44.5°	483.8	622.9	927.2	851.8	683.3	804.7	966.6	735.5	539.4	623.7	838.0



66.5°	90.2	94.8	99.8	99.3	94.8	96.5	96.0	93.3	87.7	88.7	85.7
67°	88.2	92.5	97.5	97.3	92.7	94.5	94.0	91.2	85.7	86.7	83.7



89°	0.0	1.5	5.3	7.5	7.0	6.5	4.8	2.3	0.8	0.0	0.0
89.5°	0.0	0.3	3.8	5.5	5.3	4.8	3.0	1.0	0.0	0.0	0.0



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21.5°	1294.0	1284.2	1283.4	1292.0	1303.5	1317.8
22°	1286.5	1276.2	1275.2	1284.7	1296.2	1310.5



44°	531.9	392.1	493.1	814.9	644.0	517.4
44.5°	499.1	362.0	460.5	792.6	610.6	483.8

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66.5°	85.2	83.7	86.5	89.2	91.2	90.2
67°	83.2	81.7	84.5	87.0	89.0	88.2

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Scaled Data Report



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

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Scaled Data Report



(END OF REPORT)