

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: P776067

Luminaire Tested: HCDJBL51525CSD-HCD62TRMB-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B058)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBS1525CSD-HCD62TRMB-2500lm-3500K
Description: 6 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

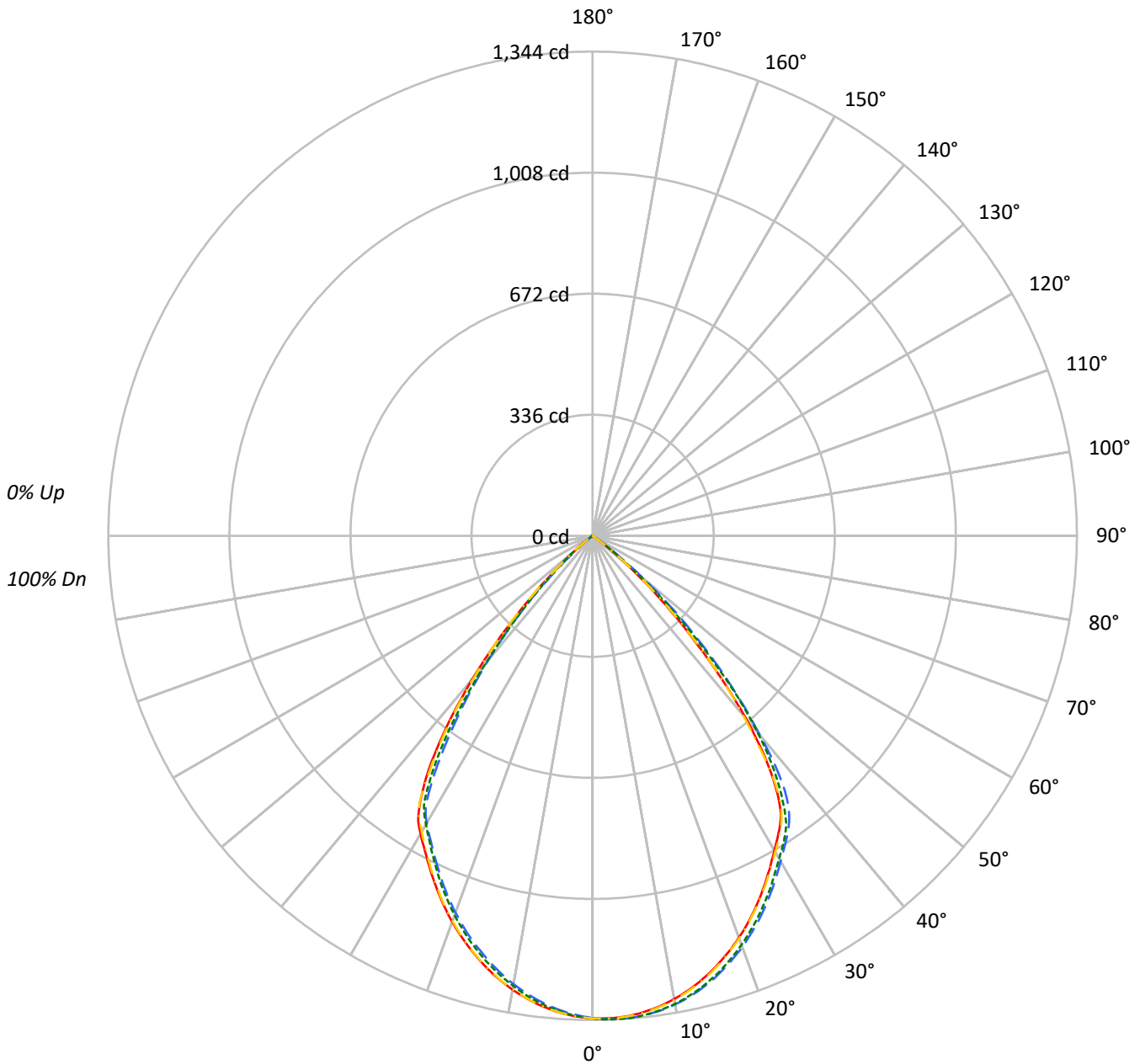
Lumens per Lamp: N/A
Luminaire Lumens: 1749.3 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P776067

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMB-2500lm-3500K

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	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	94	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	75	72	71																			
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65																			
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60																			
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55																			
8	75	64	57	53	73	63	57	53	62	57	52	61	56	52	60	56	52	51																			
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																			
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	73432	73432	73432	73432
5°	73420	73811	72678	72413
10°	72677	73434	71213	70651
15°	71266	72305	69115	68275
20°	69242	70502	66523	65392
25°	66693	68139	63433	61927
30°	63890	65523	60471	58566
35°	60458	62138	53070	50112
40°	47303	50910	37134	32919
45°	27817	32120	18754	16459
50°	10959	13245	5475	5501
55°	1606	2084	459	554
60°	362	384	329	274
65°	259	259	233	195
70°	208	208	160	160
75°	169	169	106	106
80°	95	95	95	95
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 35523 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	7.2
10°-20°	347.9	19.9
20°-30°	494.6	28.3
30°-40°	510.8	29.2
40°-50°	244.1	14.0
50°-60°	23.6	1.3
60°-70°	1.9	0.1
70°-80°	0.7	0.0
80°-90°	0.1	0.0
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°	968.1	55.3
0°-40°	1478.8	84.5
0°-60°	1746.5	99.8
0°-90°	1749.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1749.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1340	1340	1340	1340	1340	
5°	1334	1341	1321	1316	1334	126
15°	1256	1274	1218	1203	1256	353
25°	1103	1126	1049	1024	1103	507
35°	903	928	793	749	903	547
45°	359	414	242	212	359	281
55°	17	22	5	6	17	30
65°	2	2	2	2	2	2
75°	1	1	0	0	1	1
85°	0	0	0	0	0	0
90°	0	0	0	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°	1339.5	1339.5	1339.5	1339.5	1339.5	1339.5	1339.5	1339.5	1339.5	1339.5	1339.5
0.5°	1339.7	1339.7	1340.0	1339.5	1341.5	1341.0	1340.2	1340.0	1338.5	1337.7	1336.7
1°	1340.2	1340.5	1341.0	1340.8	1342.5	1341.5	1340.8	1339.7	1337.5	1336.2	1335.2
1.5°	1340.2	1341.0	1341.8	1341.8	1343.0	1342.0	1341.0	1339.2	1336.0	1334.5	1333.0
2°	1340.2	1341.5	1342.5	1342.8	1343.8	1342.5	1340.8	1338.2	1334.7	1332.5	1330.7
2.5°	1339.7	1341.5	1343.0	1343.3	1343.8	1342.5	1340.5	1337.0	1333.0	1330.5	1328.2
3°	1339.0	1341.5	1343.0	1343.5	1343.8	1342.3	1339.7	1336.0	1331.0	1328.0	1325.4
3.5°	1338.2	1341.0	1343.0	1343.8	1343.5	1341.8	1339.0	1334.5	1329.0	1325.4	1322.4
4°	1337.2	1340.2	1342.5	1343.5	1343.0	1341.3	1338.0	1332.5	1326.4	1322.4	1319.2
4.5°	1336.0	1339.2	1342.0	1343.3	1342.5	1340.2	1336.7	1330.5	1323.9	1319.2	1315.9
5°	1334.2	1338.0	1341.3	1342.5	1341.3	1339.0	1335.2	1328.2	1320.7	1315.9	1312.4
5.5°	1332.5	1337.0	1340.5	1341.8	1340.0	1337.7	1333.5	1325.9	1317.4	1312.1	1308.4
6°	1330.5	1335.5	1339.2	1340.5	1338.7	1336.2	1331.5	1323.7	1314.2	1308.6	1304.1
6.5°	1328.0	1333.7	1337.7	1339.5	1337.0	1334.2	1329.5	1320.7	1310.6	1304.6	1299.6
7°	1325.4	1331.5	1336.0	1338.0	1335.2	1332.2	1326.9	1317.7	1306.9	1300.1	1295.1
7.5°	1322.7	1329.2	1334.0	1336.2	1333.0	1330.0	1324.4	1314.4	1302.9	1295.6	1290.3
8°	1319.9	1326.7	1332.0	1334.5	1331.0	1327.5	1321.4	1310.9	1298.3	1291.1	1285.5
8.5°	1316.7	1323.9	1329.5	1332.0	1328.2	1324.7	1318.4	1307.1	1293.8	1286.0	1280.3
9°	1313.1	1321.2	1326.9	1329.7	1325.4	1321.9	1314.9	1302.9	1289.6	1281.0	1275.0
9.5°	1309.6	1317.9	1324.2	1326.9	1322.4	1318.4	1311.4	1298.8	1284.5	1275.8	1269.2
10°	1305.6	1314.4	1320.9	1323.9	1319.2	1315.2	1307.6	1294.1	1279.3	1270.2	1263.7
10.5°	1301.6	1310.6	1317.7	1320.9	1315.7	1311.6	1303.6	1289.6	1274.0	1264.2	1257.7
11°	1297.3	1306.9	1314.4	1317.4	1311.9	1307.6	1299.3	1284.8	1268.5	1258.4	1251.4
11.5°	1293.1	1302.9	1310.4	1313.9	1307.9	1303.4	1295.1	1279.8	1263.0	1252.4	1244.9
12°	1288.3	1298.3	1306.6	1310.1	1303.6	1299.3	1290.3	1274.5	1256.9	1246.4	1238.6
12.5°	1283.0	1293.8	1302.4	1306.1	1299.3	1294.8	1285.3	1269.0	1250.9	1239.9	1231.6
13°	1278.0	1289.1	1297.8	1301.9	1294.6	1290.3	1280.3	1263.5	1244.6	1233.1	1225.1
13.5°	1272.7	1284.3	1293.1	1297.6	1289.8	1285.0	1275.3	1257.2	1237.9	1226.6	1218.0
14°	1267.2	1279.3	1288.3	1292.6	1284.8	1280.0	1269.5	1251.4	1231.3	1219.5	1210.8
14.5°	1261.5	1274.0	1283.0	1287.8	1279.3	1274.3	1263.7	1245.1	1224.6	1212.5	1203.2
15°	1255.7	1268.5	1278.0	1282.5	1274.0	1268.5	1257.9	1238.4	1217.8	1205.2	1195.7
15.5°	1249.7	1262.5	1272.7	1277.0	1268.5	1262.5	1251.7	1231.8	1210.8	1197.7	1188.4
16°	1243.1	1256.4	1266.7	1271.5	1262.5	1256.4	1245.4	1225.1	1203.2	1190.2	1180.7
16.5°	1236.6	1250.4	1260.7	1265.7	1256.4	1250.4	1239.1	1218.0	1196.0	1182.2	1172.9
17°	1230.1	1244.1	1254.4	1259.9	1249.9	1244.1	1232.3	1211.0	1188.4	1174.6	1164.6
17.5°	1223.3	1237.6	1248.4	1253.7	1243.4	1237.4	1225.6	1204.0	1180.7	1166.9	1156.3
18°	1216.5	1230.8	1241.9	1247.2	1236.6	1230.6	1218.5	1196.5	1172.9	1158.6	1147.8
18.5°	1209.5	1223.8	1235.1	1240.6	1229.8	1223.3	1211.0	1188.9	1164.8	1150.3	1139.5
19°	1201.7	1217.0	1228.6	1234.1	1222.8	1216.5	1204.0	1181.2	1156.8	1141.8	1131.0
19.5°	1194.5	1210.0	1221.6	1227.1	1215.8	1209.0	1196.7	1173.4	1148.5	1133.5	1121.9
20°	1186.9	1202.7	1214.5	1220.1	1208.5	1201.7	1189.2	1165.1	1140.3	1124.7	1112.9
20.5°	1179.1	1195.2	1207.3	1212.8	1201.0	1194.0	1181.4	1157.3	1131.5	1115.7	1103.9
21°	1171.6	1187.7	1199.7	1205.5	1192.9	1186.4	1173.4	1148.8	1122.7	1106.9	1094.6



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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°	1146.8	1163.8	1176.4	1181.9	1169.1	1162.3	1148.8	1123.2	1095.8	1079.0	1066.5
23°	1138.2	1155.1	1168.4	1174.1	1160.8	1154.1	1140.3	1114.4	1086.3	1069.5	1056.4
23.5°	1129.5	1146.8	1160.1	1165.6	1152.3	1145.5	1131.7	1105.4	1077.0	1060.0	1046.7
24°	1120.4	1138.0	1151.8	1157.8	1143.8	1137.0	1122.9	1096.3	1067.5	1050.4	1036.6
24.5°	1111.6	1129.7	1143.3	1149.3	1135.0	1128.2	1114.2	1087.3	1058.2	1040.4	1026.8
25°	1102.6	1120.7	1134.7	1140.5	1126.5	1119.4	1105.1	1078.0	1048.7	1030.8	1016.5
25.5°	1093.3	1111.6	1125.7	1131.7	1117.4	1110.4	1096.1	1068.7	1038.9	1020.8	1006.5
26°	1084.3	1103.1	1116.9	1122.9	1108.6	1101.4	1087.1	1059.2	1029.3	1011.0	996.5
26.5°	1074.8	1094.1	1107.9	1114.2	1099.6	1092.1	1077.8	1049.9	1019.8	1001.0	986.9
27°	1065.5	1085.0	1098.8	1105.1	1090.6	1083.0	1068.5	1040.4	1009.8	991.4	976.9
27.5°	1055.9	1075.5	1089.8	1095.8	1081.3	1073.8	1059.2	1030.6	1000.5	981.9	967.4
28°	1046.7	1066.2	1080.5	1086.8	1071.7	1064.7	1049.7	1021.3	991.2	972.9	957.8
28.5°	1036.9	1056.9	1071.5	1077.3	1062.2	1055.2	1040.4	1012.3	982.4	963.6	949.0
29°	1027.3	1047.7	1062.2	1068.2	1053.2	1045.9	1031.3	1003.0	973.4	954.3	939.5
29.5°	1018.3	1038.4	1052.9	1059.2	1044.1	1036.9	1022.6	994.2	964.1	945.0	930.2
30°	1009.3	1029.3	1043.9	1049.9	1035.1	1028.1	1013.5	985.2	955.3	936.0	920.9
30.5°	1000.2	1020.3	1034.9	1040.9	1026.3	1019.1	1005.0	976.6	946.3	926.5	910.6
31°	991.4	1011.8	1026.3	1032.1	1018.0	1010.5	996.2	967.9	936.7	916.4	900.1
31.5°	982.4	1003.0	1017.5	1023.6	1009.3	1002.0	987.7	958.8	926.7	904.1	886.6
32°	973.6	994.2	1008.8	1014.8	1000.7	993.5	978.9	949.3	912.2	887.6	868.2
32.5°	964.8	985.4	1000.5	1006.5	992.0	984.9	969.9	939.0	895.8	868.2	847.2
33°	955.6	976.6	991.7	997.5	982.9	975.1	960.1	926.7	877.5	846.2	823.1
33.5°	945.5	967.6	982.9	989.2	972.6	965.4	949.5	911.7	858.0	822.6	798.2
34°	934.7	957.6	973.1	979.7	960.6	953.8	937.7	894.8	837.9	797.5	771.6
34.5°	920.2	946.8	963.1	969.4	945.3	940.3	924.7	875.8	816.0	772.9	745.3
35°	903.4	934.0	951.3	956.6	928.5	924.2	909.6	855.9	793.0	748.0	718.2
35.5°	885.1	919.7	938.5	941.5	910.4	906.6	892.6	834.6	768.9	722.9	692.3
36°	864.7	902.4	922.9	924.4	892.3	887.6	872.8	812.0	742.5	698.6	664.7
36.5°	844.4	883.8	906.1	906.1	873.0	866.7	849.4	787.7	715.7	674.3	638.4
37°	822.1	862.2	886.6	886.8	853.4	844.9	822.8	762.6	687.8	647.9	611.8
37.5°	798.5	839.1	864.7	867.2	832.4	821.3	794.2	735.2	661.0	621.8	585.4
38°	773.1	813.0	839.1	846.4	811.0	797.0	763.3	706.6	632.9	594.0	558.1
38.5°	746.5	785.7	812.8	824.3	787.2	771.4	733.7	676.3	604.8	566.4	530.5
39°	718.7	755.8	783.9	801.2	763.1	744.0	704.1	646.7	576.1	537.5	503.4
39.5°	690.3	726.5	753.6	776.4	737.5	716.2	676.3	615.0	548.3	509.4	476.5
40°	661.0	695.8	723.7	751.1	711.4	686.3	648.2	583.7	518.9	481.0	449.2
40.5°	631.1	664.2	694.1	724.7	684.1	656.7	621.3	552.6	490.3	454.4	422.8
41°	599.5	632.6	665.0	696.6	657.2	627.6	593.5	521.9	461.2	426.8	396.7
41.5°	568.1	603.3	636.6	668.0	628.3	598.7	565.4	491.3	431.9	400.7	371.1
42°	536.0	573.6	607.8	637.9	599.2	570.4	536.3	462.0	402.0	374.1	345.5
42.5°	505.1	544.0	579.9	608.5	568.4	542.3	506.4	433.4	372.9	347.8	319.9
43°	474.3	514.4	551.1	578.2	537.8	513.9	477.3	405.3	344.3	320.9	295.1
43.5°	444.9	485.3	522.7	548.5	506.1	485.8	448.9	377.4	316.9	295.4	271.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	358.8	398.5	435.9	458.2	414.3	400.5	366.9	300.6	241.9	223.1	203.5
45.5°	332.5	370.6	408.8	429.4	383.9	372.6	340.3	276.5	219.3	200.0	180.9
46°	305.6	343.8	381.2	400.2	355.1	345.3	314.2	254.4	196.7	176.7	158.3
46.5°	279.5	318.2	354.8	372.1	326.2	318.7	288.8	232.4	174.1	153.6	139.0
47°	254.4	293.6	328.5	344.3	298.6	292.1	263.0	210.3	155.1	134.3	120.4
47.5°	230.4	269.5	302.9	316.7	271.8	266.2	240.4	188.2	136.8	115.7	103.6
48°	207.5	246.2	277.8	289.6	248.4	241.9	217.8	166.1	119.7	98.1	88.3
48.5°	185.7	223.8	252.4	263.5	225.1	217.6	195.2	146.3	104.1	83.1	74.5
49°	165.1	202.0	228.4	237.6	201.8	193.2	172.9	128.0	89.6	69.5	62.2
49.5°	146.0	181.2	205.0	213.8	178.4	168.9	153.6	111.4	76.5	57.5	51.7
50°	128.5	161.1	182.4	190.5	155.3	146.8	133.7	95.4	64.2	47.4	42.4
50.5°	112.2	141.5	161.4	168.1	135.0	126.5	115.4	80.8	53.4	39.1	34.9
51°	96.6	123.0	140.3	147.6	116.4	107.1	98.1	68.0	43.7	33.6	29.9
51.5°	83.3	105.1	121.0	127.5	99.4	90.3	82.6	56.2	37.6	27.9	24.8
52°	72.0	89.1	103.4	109.4	83.1	74.8	67.0	45.7	31.6	22.3	19.8
52.5°	60.7	77.3	86.3	92.1	68.3	60.7	53.7	39.1	25.6	16.8	14.8
53°	49.4	65.2	74.3	79.5	54.7	48.7	42.2	32.6	19.6	11.3	9.8
53.5°	38.1	53.2	62.2	67.0	42.9	38.6	35.4	26.3	13.6	8.3	7.0
54°	30.1	41.2	50.2	54.7	35.9	32.1	28.6	20.1	7.5	6.0	5.3
54.5°	22.8	29.4	38.1	42.2	28.9	25.8	22.1	13.6	5.5	4.8	4.5
55°	16.8	21.3	26.1	29.9	21.8	19.6	15.3	7.3	4.8	4.3	4.3
55.5°	11.5	15.3	18.8	21.8	14.6	13.3	8.5	5.3	4.3	4.3	4.0
56°	7.8	10.3	12.8	15.3	7.5	7.0	6.0	4.5	4.3	4.0	3.8
56.5°	6.8	9.0	8.5	10.0	5.5	5.3	4.8	4.3	4.0	3.8	3.8
57°	5.8	7.8	7.5	8.5	4.8	4.5	4.5	4.3	3.8	3.8	3.5
57.5°	4.8	6.5	6.3	7.0	4.5	4.3	4.3	4.0	3.8	3.5	3.3
58°	4.0	5.3	5.3	5.8	4.3	4.3	4.0	3.8	3.5	3.3	3.3
58.5°	3.8	4.0	4.3	4.3	4.0	4.0	4.0	3.8	3.3	3.3	3.0
59°	3.5	3.8	4.0	4.0	3.8	3.8	3.8	3.5	3.3	3.0	3.0
59.5°	3.5	3.8	3.8	4.0	3.8	3.8	3.5	3.3	3.0	3.0	2.8
60°	3.3	3.5	3.8	3.8	3.5	3.5	3.5	3.3	3.0	2.8	2.8
60.5°	3.0	3.3	3.5	3.5	3.3	3.3	3.3	3.0	2.8	2.8	2.5
61°	3.0	3.3	3.3	3.5	3.3	3.3	3.0	2.8	2.5	2.5	2.5
61.5°	2.8	3.0	3.3	3.3	3.0	3.0	3.0	2.8	2.5	2.5	2.3
62°	2.8	2.8	3.0	3.0	2.8	2.8	2.8	2.5	2.3	2.3	2.3
62.5°	2.5	2.8	2.8	3.0	2.8	2.8	2.8	2.5	2.3	2.3	2.0
63°	2.5	2.5	2.8	2.8	2.5	2.5	2.5	2.3	2.3	2.0	2.0
63.5°	2.3	2.5	2.5	2.8	2.5	2.5	2.5	2.3	2.0	2.0	2.0
64°	2.3	2.3	2.5	2.5	2.3	2.3	2.3	2.0	2.0	2.0	1.8
64.5°	2.0	2.3	2.3	2.5	2.3	2.3	2.3	2.0	1.8	1.8	1.8
65°	2.0	2.0	2.3	2.3	2.0	2.0	2.0	2.0	1.8	1.8	1.8
65.5°	1.8	2.0	2.0	2.3	2.0	2.0	2.0	1.8	1.8	1.8	1.5
66°	1.8	2.0	2.0	2.0	2.0	2.0	1.8	1.8	1.5	1.5	1.5



TEST NUMBER: P776067

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.5	1.5	1.8	1.8	1.8	1.8	1.5	1.5	1.3	1.3	1.3
68°	1.5	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.3	1.3	1.3
68.5°	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.3
69°	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.0
69.5°	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.0	1.0	1.0
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0
70.5°	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0
71°	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.3	1.3	1.0	1.0	1.0	1.0	0.8	0.8	0.8
72°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
72.5°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8
73°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.8	0.8	0.5	0.5
74.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
75.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
76°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5
78°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
78.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
79°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
79.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
83°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
84°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776067
CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMB-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776067

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1339.5	1339.5	1339.5	1339.5	1339.5	1339.5
0.5°	1336.2	1339.0	1338.7	1338.7	1339.7	1339.7
1°	1334.2	1337.2	1337.2	1337.7	1339.2	1340.2
1.5°	1332.0	1335.5	1335.5	1336.5	1338.5	1340.2
2°	1329.5	1333.5	1333.7	1335.0	1337.7	1340.2
2.5°	1326.7	1331.0	1331.5	1333.0	1336.7	1339.7
3°	1323.9	1328.5	1329.2	1331.0	1335.2	1339.0
3.5°	1320.7	1325.7	1326.4	1328.7	1333.5	1338.2
4°	1317.2	1322.7	1323.7	1326.2	1331.7	1337.2
4.5°	1313.7	1319.4	1320.7	1323.4	1329.7	1336.0
5°	1310.1	1315.9	1317.4	1320.4	1327.5	1334.2
5.5°	1305.9	1312.4	1313.9	1317.4	1324.7	1332.5
6°	1301.6	1308.4	1309.9	1313.9	1321.9	1330.5
6.5°	1297.1	1304.4	1306.1	1310.1	1319.2	1328.0
7°	1292.6	1300.1	1302.1	1306.4	1315.9	1325.4
7.5°	1287.6	1295.6	1297.6	1302.4	1312.4	1322.7
8°	1282.3	1290.8	1293.1	1297.8	1308.6	1319.9
8.5°	1277.0	1285.5	1288.1	1293.6	1304.9	1316.7
9°	1271.2	1280.3	1283.0	1288.8	1300.9	1313.1
9.5°	1265.5	1275.0	1277.8	1283.5	1296.6	1309.6
10°	1259.9	1269.2	1272.2	1278.5	1291.8	1305.6
10.5°	1253.7	1263.7	1266.7	1273.0	1287.1	1301.6
11°	1247.4	1257.4	1260.7	1267.7	1281.8	1297.3
11.5°	1240.9	1251.4	1254.7	1262.0	1277.0	1293.1
12°	1234.1	1245.1	1248.4	1255.9	1271.7	1288.3
12.5°	1227.3	1238.4	1242.1	1249.7	1266.0	1283.0
13°	1220.3	1231.8	1235.6	1243.4	1259.9	1278.0
13.5°	1213.0	1224.8	1228.8	1236.9	1254.4	1272.7
14°	1205.7	1217.8	1222.1	1230.3	1248.2	1267.2
14.5°	1198.5	1210.5	1215.0	1223.6	1242.1	1261.5
15°	1190.7	1203.0	1207.5	1216.5	1235.4	1255.7
15.5°	1182.9	1195.7	1200.2	1209.3	1228.8	1249.7
16°	1175.1	1187.9	1192.4	1202.0	1222.1	1243.1
16.5°	1166.9	1179.9	1184.7	1194.7	1215.0	1236.6
17°	1158.8	1172.1	1176.9	1187.2	1207.8	1230.1
17.5°	1150.3	1163.8	1168.9	1179.1	1200.5	1223.3
18°	1141.8	1155.6	1160.8	1171.4	1193.2	1216.5
18.5°	1133.5	1147.0	1152.3	1163.1	1185.4	1209.5
19°	1124.4	1138.5	1143.8	1154.8	1177.6	1201.7
19.5°	1115.4	1129.7	1135.2	1146.5	1169.9	1194.5
20°	1106.1	1120.9	1126.2	1138.0	1161.6	1186.9
20.5°	1097.1	1111.6	1117.4	1129.5	1153.6	1179.1
21°	1087.8	1102.4	1108.1	1120.4	1145.0	1171.6

TEST NUMBER: P776067

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1058.7	1074.0	1080.0	1093.1	1119.4	1146.8
23°	1048.7	1064.2	1070.5	1083.8	1110.1	1138.2
23.5°	1038.9	1054.2	1060.7	1074.3	1101.1	1129.5
24°	1028.6	1044.1	1050.9	1064.7	1091.8	1120.4
24.5°	1018.8	1034.1	1041.1	1054.9	1082.8	1111.6
25°	1008.5	1023.8	1030.8	1044.9	1073.3	1102.6
25.5°	998.2	1013.8	1021.1	1035.1	1063.7	1093.3
26°	988.2	1003.5	1010.8	1025.3	1054.2	1084.3
26.5°	978.1	993.5	1000.7	1015.3	1044.4	1074.8
27°	968.1	983.2	990.7	1005.2	1034.9	1065.5
27.5°	958.6	973.1	980.7	995.7	1025.1	1055.9
28°	949.0	963.1	970.6	985.9	1015.5	1046.7
28.5°	939.5	953.6	961.1	976.4	1005.8	1036.9
29°	930.2	944.3	951.8	967.1	996.5	1027.3
29.5°	920.7	934.7	942.3	958.1	987.4	1018.3
30°	911.1	925.2	933.0	949.0	978.1	1009.3
30.5°	900.9	915.4	923.4	939.5	969.4	1000.2
31°	890.1	905.9	913.9	930.0	960.6	991.4
31.5°	874.3	895.6	903.6	920.4	951.5	982.4
32°	855.7	883.5	891.8	909.9	942.0	973.6
32.5°	834.9	866.0	875.3	896.8	932.2	964.8
33°	810.8	844.7	856.2	880.3	921.4	955.6
33.5°	785.7	821.3	835.1	859.0	906.1	945.5
34°	759.8	798.2	811.5	833.4	888.6	934.7
34.5°	734.0	773.9	785.9	807.5	868.5	920.2
35°	707.4	748.8	757.8	781.2	846.2	903.4
35.5°	679.3	723.4	729.5	755.3	823.6	885.1
36°	650.7	695.6	701.6	730.0	799.7	864.7
36.5°	621.3	667.5	673.0	704.6	774.1	844.4
37°	592.5	637.9	645.2	679.3	748.0	822.1
37.5°	563.4	608.8	617.8	652.7	720.9	798.5
38°	535.5	578.4	589.7	624.1	694.1	773.1
38.5°	507.6	549.3	562.3	595.5	666.5	746.5
39°	480.0	519.9	534.7	566.4	640.4	718.7
39.5°	452.7	490.3	506.6	537.3	613.3	690.3
40°	425.1	460.0	478.5	508.1	586.2	661.0
40.5°	397.5	431.1	450.7	481.3	557.1	631.1
41°	370.4	403.3	423.1	454.2	528.7	599.5
41.5°	344.3	376.2	396.2	428.1	498.6	568.1
42°	317.7	350.3	370.1	402.5	468.7	536.0
42.5°	293.3	324.2	344.3	376.4	439.1	505.1
43°	270.0	300.4	319.2	349.6	410.0	474.3
43.5°	249.4	276.5	294.6	323.2	381.2	444.9



TEST NUMBER: P776067

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	188.2	212.3	223.8	248.2	298.1	358.8
45.5°	167.9	193.0	202.5	225.1	271.8	332.5
46°	148.8	174.4	182.4	202.8	246.4	305.6
46.5°	132.5	156.8	162.9	180.4	221.8	279.5
47°	117.2	140.8	144.8	159.3	198.0	254.4
47.5°	103.1	125.2	127.5	139.0	176.2	230.4
48°	89.6	110.7	111.7	119.2	155.6	207.5
48.5°	77.0	97.1	96.9	101.4	136.8	185.7
49°	65.7	85.3	84.6	84.8	119.2	165.1
49.5°	55.5	74.8	73.8	73.5	103.1	146.0
50°	46.2	64.5	62.7	62.5	88.1	128.5
50.5°	37.9	54.0	51.9	51.2	77.3	112.2
51°	32.1	43.7	40.9	40.1	66.5	96.6
51.5°	26.3	35.6	33.1	32.9	55.7	83.3
52°	20.8	28.6	26.6	26.6	44.7	72.0
52.5°	15.1	22.1	20.6	21.3	34.1	60.7
53°	9.3	16.3	15.6	16.6	27.1	49.4
53.5°	6.3	11.5	11.3	12.3	21.1	38.1
54°	4.8	7.8	7.8	8.8	15.8	30.1
54.5°	4.3	6.8	6.8	7.5	11.5	22.8
55°	4.0	5.8	5.8	6.3	8.0	16.8
55.5°	3.8	4.8	4.8	5.0	7.0	11.5
56°	3.8	3.8	3.8	4.0	6.0	7.8
56.5°	3.5	3.8	3.5	3.8	4.8	6.8
57°	3.3	3.5	3.5	3.5	3.8	5.8
57.5°	3.3	3.3	3.3	3.5	3.8	4.8
58°	3.0	3.3	3.3	3.3	3.5	4.0
58.5°	3.0	3.0	3.0	3.0	3.5	3.8
59°	2.8	3.0	2.8	3.0	3.3	3.5
59.5°	2.8	2.8	2.8	2.8	3.0	3.5
60°	2.5	2.5	2.5	2.5	3.0	3.3
60.5°	2.5	2.5	2.5	2.5	2.8	3.0
61°	2.3	2.3	2.3	2.3	2.5	3.0
61.5°	2.3	2.3	2.3	2.3	2.5	2.8
62°	2.0	2.3	2.0	2.3	2.3	2.8
62.5°	2.0	2.0	2.0	2.0	2.3	2.5
63°	1.8	2.0	2.0	2.0	2.0	2.5
63.5°	1.8	1.8	1.8	1.8	2.0	2.3
64°	1.8	1.8	1.8	1.8	2.0	2.3
64.5°	1.5	1.8	1.5	1.8	1.8	2.0
65°	1.5	1.5	1.5	1.5	1.8	2.0
65.5°	1.5	1.5	1.5	1.5	1.8	1.8
66°	1.5	1.5	1.5	1.5	1.5	1.8



TEST NUMBER: P776067

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.3	1.3	1.3	1.3	1.3	1.5
68°	1.3	1.3	1.0	1.3	1.3	1.5
68.5°	1.0	1.0	1.0	1.0	1.3	1.3
69°	1.0	1.0	1.0	1.0	1.3	1.3
69.5°	1.0	1.0	1.0	1.0	1.0	1.3
70°	1.0	1.0	1.0	1.0	1.0	1.3
70.5°	0.8	1.0	0.8	0.8	1.0	1.0
71°	0.8	0.8	0.8	0.8	1.0	1.0
71.5°	0.8	0.8	0.8	0.8	0.8	1.0
72°	0.8	0.8	0.8	0.8	0.8	1.0
72.5°	0.8	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8	0.8
73.5°	0.5	0.5	0.5	0.5	0.8	0.8
74°	0.5	0.5	0.5	0.5	0.8	0.8
74.5°	0.5	0.5	0.5	0.5	0.5	0.8
75°	0.5	0.5	0.5	0.5	0.5	0.8
75.5°	0.5	0.5	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.5	0.5	0.5	0.5
77°	0.5	0.5	0.3	0.3	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.5	0.5
78°	0.3	0.3	0.3	0.3	0.3	0.5
78.5°	0.3	0.3	0.3	0.3	0.3	0.5
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.3	0.3	0.0	0.3	0.3
83°	0.0	0.0	0.0	0.0	0.0	0.3
83.5°	0.0	0.0	0.0	0.0	0.0	0.3
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776067

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-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





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

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Scaled Data Report



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Scaled Data Report





21.5°	1163.3	1179.4	1191.7	1197.7	1185.2	1178.6	1165.3	1140.3	1113.7	1097.8	1085.3
22°	1154.8	1171.6	1184.4	1189.9	1177.1	1170.4	1157.1	1131.7	1104.9	1088.6	1075.8



44°	415.6	456.0	493.6	518.2	475.8	457.5	421.1	351.1	290.6	269.5	248.7
44.5°	387.2	426.8	465.0	488.1	444.7	429.1	394.0	325.7	264.7	246.4	226.1



66.5°	1.8	1.8	2.0	2.0	1.8	1.8	1.8	1.8	1.5	1.5	1.5
67°	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5	1.5	1.3



89°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0

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21.5°	1078.3	1092.8	1099.1	1111.4	1136.7	1163.3
22°	1068.2	1083.0	1089.6	1102.4	1128.0	1154.8



44°	229.1	254.2	270.0	297.4	353.3	415.6
44.5°	208.5	232.6	246.9	272.8	325.2	387.2



66.5°	1.3	1.3	1.3	1.3	1.5	1.8
67°	1.3	1.3	1.3	1.3	1.5	1.5

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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)