

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: P776065

Luminaire Tested: HCDJBL51525CSD-HCD62TRMB-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776065
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: HCDJBL51525CSD-HCD62TRMB-2500lm-2700K
Description: 6 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

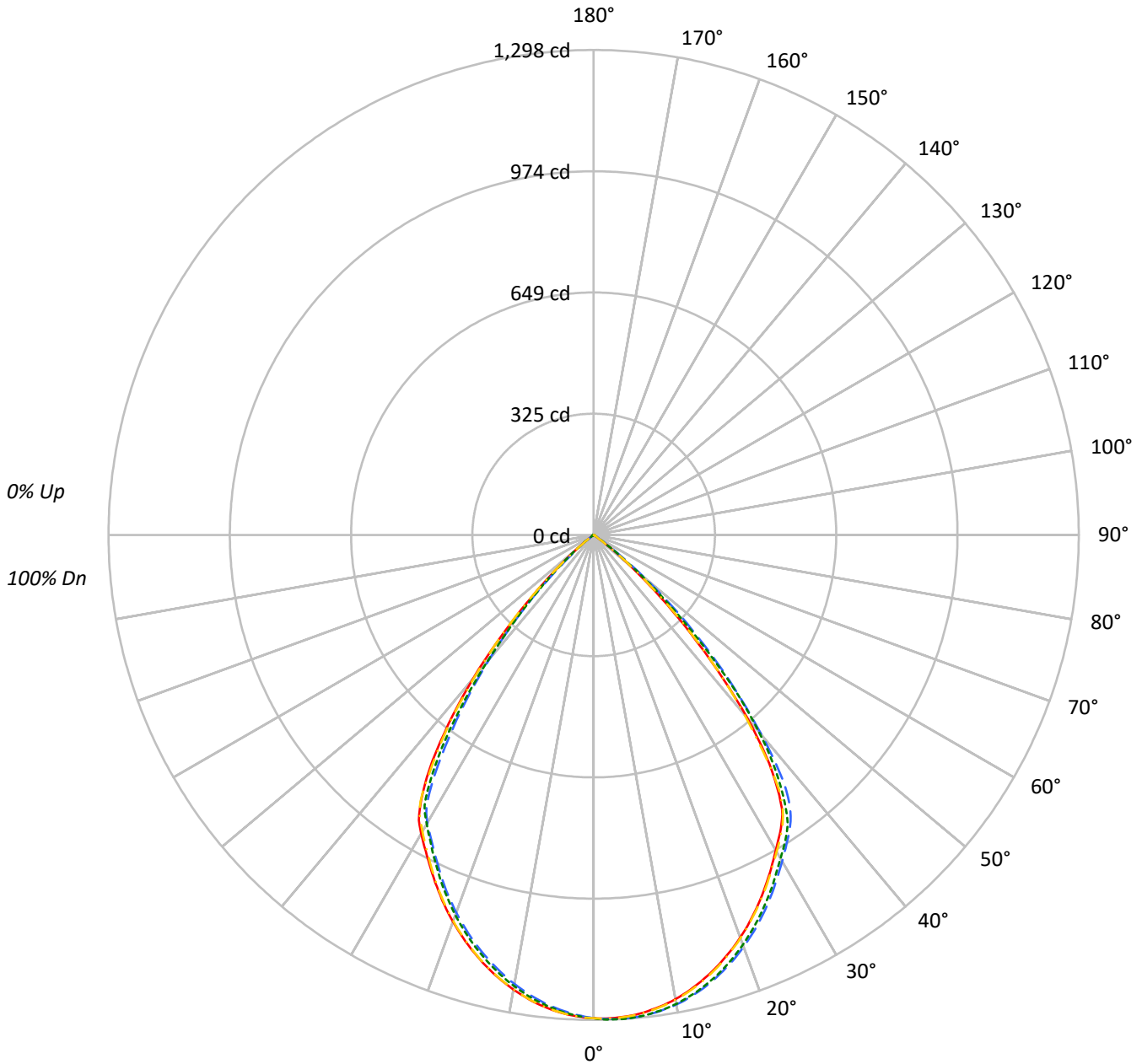
Lumens per Lamp: N/A
Luminaire Lumens: 1689.7 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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



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Luminous Intensity Polar Plot





TEST NUMBER: P776065

CATALOG NUMBER: HCDJBL5125CSD-HCD62TRMB-2500lm-2700K

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					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85					85			
3	101	94	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77					77			
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	75	72	71					71			
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65					65			
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60					60			
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55					55			
8	75	64	57	53	73	63	57	53	62	57	52	61	56	52	60	56	52	51					51			
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47					47			
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	70932	70932	70932	70932
5°	70922	71296	70201	69948
10°	70206	70935	68786	68246
15°	68837	69841	66760	65948
20°	66885	68104	64254	63169
25°	64425	65816	61274	59822
30°	61712	63295	58414	56572
35°	58397	60023	51263	48405
40°	45693	49178	35874	31795
45°	26871	31026	18118	15901
50°	10584	12793	5296	5313
55°	1548	2017	440	535
60°	351	373	318	263
65°	246	246	221	195
70°	192	192	160	160
75°	148	148	106	106
80°	63	63	63	63
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 34314 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	7.2
10°-20°	336.0	19.9
20°-30°	477.8	28.3
30°-40°	493.4	29.2
40°-50°	235.8	14.0
50°-60°	22.8	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°	935.1	55.3
0°-40°	1428.5	84.5
0°-60°	1687.1	99.8
0°-90°	1689.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1294	1294	1294	1294	1294	
5°	1289	1296	1276	1271	1289	122
15°	1213	1231	1176	1162	1213	341
25°	1065	1088	1013	989	1065	490
35°	873	897	766	723	873	528
45°	347	400	234	205	347	272
55°	16	21	5	6	16	29
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9
0.5°	1294.2	1294.2	1294.4	1293.9	1295.8	1295.4	1294.6	1294.4	1292.9	1292.2	1291.2
1°	1294.6	1294.9	1295.4	1295.1	1296.8	1295.8	1295.1	1294.2	1292.0	1290.8	1289.8
1.5°	1294.6	1295.4	1296.1	1296.1	1297.3	1296.3	1295.4	1293.7	1290.5	1289.1	1287.6
2°	1294.6	1295.8	1296.8	1297.1	1298.0	1296.8	1295.1	1292.7	1289.3	1287.1	1285.4
2.5°	1294.2	1295.8	1297.3	1297.5	1298.0	1296.8	1294.9	1291.5	1287.6	1285.2	1283.0
3°	1293.4	1295.8	1297.3	1297.8	1298.0	1296.6	1294.2	1290.5	1285.7	1282.8	1280.3
3.5°	1292.7	1295.4	1297.3	1298.0	1297.8	1296.1	1293.4	1289.1	1283.7	1280.3	1277.4
4°	1291.7	1294.6	1296.8	1297.8	1297.3	1295.6	1292.5	1287.1	1281.3	1277.4	1274.3
4.5°	1290.5	1293.7	1296.3	1297.5	1296.8	1294.6	1291.2	1285.2	1278.9	1274.3	1271.1
5°	1288.8	1292.5	1295.6	1296.8	1295.6	1293.4	1289.8	1283.0	1275.7	1271.1	1267.7
5.5°	1287.1	1291.5	1294.9	1296.1	1294.4	1292.2	1288.1	1280.8	1272.6	1267.5	1263.9
6°	1285.2	1290.0	1293.7	1294.9	1293.2	1290.8	1286.2	1278.6	1269.4	1264.1	1259.7
6.5°	1282.8	1288.3	1292.2	1293.9	1291.5	1288.8	1284.2	1275.7	1266.0	1260.2	1255.4
7°	1280.3	1286.2	1290.5	1292.5	1289.8	1286.9	1281.8	1272.8	1262.4	1255.9	1251.0
7.5°	1277.7	1284.0	1288.6	1290.8	1287.6	1284.7	1279.4	1269.7	1258.5	1251.5	1246.4
8°	1275.0	1281.5	1286.6	1289.1	1285.7	1282.3	1276.5	1266.3	1254.2	1247.1	1241.8
8.5°	1271.8	1278.9	1284.2	1286.6	1283.0	1279.6	1273.5	1262.6	1249.8	1242.3	1236.7
9°	1268.5	1276.2	1281.8	1284.5	1280.3	1276.9	1270.2	1258.5	1245.7	1237.4	1231.6
9.5°	1265.1	1273.1	1279.1	1281.8	1277.4	1273.5	1266.8	1254.6	1240.8	1232.3	1226.0
10°	1261.2	1269.7	1276.0	1278.9	1274.3	1270.4	1263.1	1250.0	1235.7	1227.0	1220.7
10.5°	1257.3	1266.0	1272.8	1276.0	1270.9	1267.0	1259.2	1245.7	1230.6	1221.2	1214.9
11°	1253.2	1262.4	1269.7	1272.6	1267.2	1263.1	1255.1	1241.1	1225.3	1215.6	1208.8
11.5°	1249.1	1258.5	1265.8	1269.2	1263.4	1259.0	1251.0	1236.2	1220.0	1209.8	1202.5
12°	1244.5	1254.2	1262.2	1265.5	1259.2	1255.1	1246.4	1231.1	1214.2	1204.0	1196.5
12.5°	1239.4	1249.8	1258.0	1261.7	1255.1	1250.8	1241.6	1225.8	1208.3	1197.7	1189.7
13°	1234.5	1245.2	1253.7	1257.5	1250.5	1246.4	1236.7	1220.5	1202.3	1191.1	1183.4
13.5°	1229.4	1240.6	1249.1	1253.4	1245.9	1241.3	1231.9	1214.4	1195.7	1184.8	1176.6
14°	1224.1	1235.7	1244.5	1248.6	1241.1	1236.5	1226.3	1208.8	1189.4	1178.0	1169.6
14.5°	1218.5	1230.6	1239.4	1244.0	1235.7	1230.9	1220.7	1202.8	1182.9	1171.3	1162.3
15°	1212.9	1225.3	1234.5	1238.9	1230.6	1225.3	1215.1	1196.2	1176.3	1164.2	1155.0
15.5°	1207.1	1219.5	1229.4	1233.6	1225.3	1219.5	1209.1	1189.9	1169.6	1157.0	1148.0
16°	1200.8	1213.7	1223.6	1228.2	1219.5	1213.7	1203.0	1183.4	1162.3	1149.7	1140.5
16.5°	1194.5	1207.9	1217.8	1222.6	1213.7	1207.9	1196.9	1176.6	1155.3	1141.9	1133.0
17°	1188.2	1201.8	1211.7	1217.1	1207.4	1201.8	1190.4	1169.8	1148.0	1134.7	1125.0
17.5°	1181.7	1195.5	1205.9	1211.0	1201.1	1195.3	1183.9	1163.0	1140.5	1127.1	1117.0
18°	1175.1	1189.0	1199.6	1204.7	1194.5	1188.7	1177.1	1155.7	1133.0	1119.1	1108.7
18.5°	1168.3	1182.2	1193.1	1198.4	1188.0	1181.7	1169.8	1148.5	1125.2	1111.1	1100.7
19°	1160.8	1175.6	1186.8	1192.1	1181.2	1175.1	1163.0	1141.0	1117.4	1102.9	1092.5
19.5°	1153.8	1168.8	1180.0	1185.3	1174.4	1167.9	1156.0	1133.4	1109.4	1094.9	1083.8
20°	1146.5	1161.8	1173.2	1178.5	1167.4	1160.8	1148.7	1125.4	1101.4	1086.4	1075.0
20.5°	1139.0	1154.5	1166.2	1171.5	1160.1	1153.3	1141.2	1117.9	1093.0	1077.7	1066.3
21°	1131.7	1147.3	1158.9	1164.5	1152.3	1146.0	1133.4	1109.7	1084.5	1069.2	1057.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1107.7	1124.2	1136.4	1141.7	1129.3	1122.8	1109.7	1085.0	1058.5	1042.3	1030.2
23°	1099.5	1115.7	1128.6	1134.2	1121.3	1114.8	1101.4	1076.5	1049.3	1033.1	1020.5
23.5°	1091.0	1107.7	1120.6	1125.9	1113.1	1106.5	1093.2	1067.8	1040.4	1023.9	1011.0
24°	1082.3	1099.3	1112.6	1118.4	1104.8	1098.3	1084.7	1059.0	1031.2	1014.7	1001.3
24.5°	1073.8	1091.3	1104.4	1110.2	1096.4	1089.8	1076.2	1050.3	1022.2	1005.0	991.9
25°	1065.1	1082.5	1096.1	1101.7	1088.1	1081.3	1067.5	1041.3	1013.0	995.8	981.9
25.5°	1056.1	1073.8	1087.4	1093.2	1079.4	1072.6	1058.8	1032.4	1003.5	986.1	972.2
26°	1047.4	1065.6	1078.9	1084.7	1070.9	1063.9	1050.1	1023.2	994.3	976.6	962.6
26.5°	1038.2	1056.8	1070.2	1076.2	1062.2	1054.9	1041.1	1014.2	985.1	966.9	953.3
27°	1029.2	1048.1	1061.5	1067.5	1053.5	1046.2	1032.1	1005.0	975.4	957.7	943.6
27.5°	1020.0	1038.9	1052.7	1058.5	1044.5	1037.2	1023.2	995.5	966.4	948.5	934.4
28°	1011.0	1029.9	1043.8	1049.8	1035.3	1028.5	1013.9	986.6	957.5	939.8	925.2
28.5°	1001.6	1021.0	1035.0	1040.6	1026.1	1019.3	1005.0	977.8	949.0	930.8	916.7
29°	992.4	1012.0	1026.1	1031.9	1017.3	1010.3	996.2	968.9	940.3	921.8	907.5
29.5°	983.6	1003.0	1017.1	1023.2	1008.6	1001.6	987.8	960.4	931.3	912.9	898.6
30°	974.9	994.3	1008.4	1014.2	999.9	993.1	979.0	951.6	922.8	904.1	889.6
30.5°	966.2	985.6	999.6	1005.5	991.4	984.4	970.8	943.4	914.1	894.9	879.7
31°	957.7	977.3	991.4	997.0	983.4	976.1	962.3	934.9	904.9	885.2	869.5
31.5°	949.0	968.9	982.9	988.7	974.9	967.9	954.1	926.2	895.2	873.4	856.4
32°	940.5	960.4	974.4	980.2	966.7	959.6	945.6	917.0	881.1	857.4	838.7
32.5°	932.0	951.9	966.4	972.2	958.2	951.4	936.9	907.0	865.4	838.7	818.3
33°	923.0	943.4	957.9	963.5	949.5	941.9	927.4	895.2	847.7	817.4	795.1
33.5°	913.3	934.7	949.5	955.5	939.5	932.5	917.2	880.6	828.8	794.6	771.1
34°	902.9	925.0	940.0	946.3	927.9	921.3	905.8	864.4	809.4	770.3	745.4
34.5°	888.9	914.6	930.3	936.4	913.1	908.3	893.2	846.0	788.3	746.6	719.9
35°	872.6	902.2	918.9	924.0	896.9	892.7	878.7	826.8	766.0	722.6	693.7
35.5°	854.9	888.4	906.6	909.5	879.4	875.8	862.2	806.2	742.7	698.3	668.8
36°	835.3	871.7	891.5	893.0	862.0	857.4	843.1	784.4	717.2	674.8	642.1
36.5°	815.7	853.7	875.3	875.3	843.3	837.2	820.5	760.9	691.3	651.3	616.7
37°	794.1	832.9	856.4	856.6	824.4	816.1	794.8	736.6	664.4	625.9	591.0
37.5°	771.3	810.6	835.3	837.7	804.0	793.4	767.2	710.2	638.5	600.7	565.5
38°	746.8	785.4	810.6	817.6	783.4	769.8	737.4	682.6	611.3	573.8	539.1
38.5°	721.1	758.9	785.1	796.3	760.4	745.1	708.8	653.3	584.2	547.1	512.4
39°	694.2	730.1	757.2	774.0	737.1	718.7	680.2	624.7	556.5	519.2	486.2
39.5°	666.8	701.7	727.9	750.0	712.4	691.8	653.3	594.1	529.6	492.1	460.3
40°	638.5	672.2	699.1	725.5	687.2	663.0	626.1	563.8	501.3	464.7	433.9
40.5°	609.6	641.6	670.5	700.0	660.8	634.3	600.2	533.8	473.6	439.0	408.4
41°	579.1	611.1	642.3	672.9	634.8	606.2	573.3	504.2	445.5	412.3	383.2
41.5°	548.8	582.7	615.0	645.3	607.0	578.4	546.1	474.6	417.2	387.1	358.5
42°	517.8	554.1	587.1	616.2	578.8	551.0	518.0	446.3	388.3	361.4	333.8
42.5°	487.9	525.5	560.2	587.8	549.0	523.8	489.2	418.6	360.2	336.0	309.1
43°	458.1	496.9	532.3	558.5	519.5	496.4	461.0	391.5	332.6	310.0	285.1
43.5°	429.8	468.8	504.9	529.9	488.9	469.3	433.6	364.6	306.1	285.3	261.8



TEST NUMBER: P776065

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	346.6	384.9	421.0	442.6	400.2	386.9	354.4	290.4	233.7	215.5	196.6
45.5°	321.2	358.0	394.9	414.7	370.9	360.0	328.7	267.1	211.9	193.2	174.8
46°	295.2	332.1	368.2	386.6	343.0	333.5	303.5	245.8	190.0	170.6	153.0
46.5°	270.0	307.4	342.7	359.5	315.1	307.8	279.0	224.5	168.2	148.3	134.3
47°	245.8	283.6	317.3	332.6	288.5	282.1	254.0	203.1	149.8	129.7	116.3
47.5°	222.5	260.3	292.6	305.9	262.5	257.2	232.2	181.8	132.1	111.7	100.1
48°	200.5	237.8	268.3	279.7	240.0	233.7	210.4	160.5	115.6	94.8	85.3
48.5°	179.4	216.2	243.9	254.5	217.4	210.2	188.6	141.3	100.6	80.2	72.0
49°	159.5	195.1	220.6	229.5	194.9	186.6	167.0	123.6	86.5	67.1	60.1
49.5°	141.1	175.0	198.0	206.5	172.3	163.1	148.3	107.6	73.9	55.5	49.9
50°	124.1	155.6	176.2	184.0	150.0	141.8	129.2	92.1	62.1	45.8	41.0
50.5°	108.4	136.7	155.9	162.4	130.4	122.2	111.5	78.1	51.6	37.8	33.7
51°	93.3	118.8	135.5	142.5	112.5	103.5	94.8	65.7	42.2	32.5	28.8
51.5°	80.5	101.6	116.8	123.1	96.0	87.3	79.7	54.3	36.4	26.9	24.0
52°	69.6	86.1	99.9	105.7	80.2	72.2	64.7	44.1	30.5	21.6	19.1
52.5°	58.7	74.7	83.4	89.0	65.9	58.7	51.9	37.8	24.7	16.2	14.3
53°	47.8	63.0	71.7	76.8	52.8	47.0	40.7	31.5	18.9	10.9	9.5
53.5°	36.8	51.4	60.1	64.7	41.4	37.3	34.2	25.5	13.1	8.0	6.8
54°	29.1	39.8	48.5	52.8	34.7	31.0	27.6	19.4	7.3	5.8	5.1
54.5°	22.1	28.4	36.8	40.7	27.9	25.0	21.3	13.1	5.3	4.6	4.4
55°	16.2	20.6	25.2	28.8	21.1	18.9	14.8	7.0	4.6	4.1	4.1
55.5°	11.2	14.8	18.2	21.1	14.1	12.8	8.2	5.1	4.1	4.1	3.9
56°	7.5	9.9	12.4	14.8	7.3	6.8	5.8	4.4	4.1	3.9	3.6
56.5°	6.5	8.7	8.2	9.7	5.3	5.1	4.6	4.1	3.9	3.6	3.6
57°	5.6	7.5	7.3	8.2	4.6	4.4	4.4	4.1	3.6	3.6	3.4
57.5°	4.6	6.3	6.1	6.8	4.4	4.1	4.1	3.9	3.6	3.4	3.2
58°	3.9	5.1	5.1	5.6	4.1	4.1	3.9	3.6	3.4	3.2	3.2
58.5°	3.6	3.9	4.1	4.1	3.9	3.9	3.9	3.6	3.2	3.2	2.9
59°	3.4	3.6	3.9	3.9	3.6	3.6	3.6	3.4	3.2	2.9	2.9
59.5°	3.4	3.6	3.6	3.9	3.6	3.6	3.4	3.2	2.9	2.9	2.7
60°	3.2	3.4	3.6	3.6	3.4	3.4	3.4	3.2	2.9	2.7	2.7
60.5°	2.9	3.2	3.4	3.4	3.2	3.2	3.2	2.9	2.7	2.7	2.4
61°	2.9	3.2	3.2	3.4	3.2	3.2	2.9	2.7	2.4	2.4	2.4
61.5°	2.7	2.9	3.2	3.2	2.9	2.9	2.9	2.7	2.4	2.4	2.2
62°	2.7	2.7	2.9	2.9	2.7	2.7	2.7	2.4	2.2	2.2	2.2
62.5°	2.4	2.7	2.7	2.9	2.7	2.7	2.7	2.4	2.2	2.2	1.9
63°	2.4	2.4	2.7	2.7	2.4	2.4	2.4	2.2	2.2	1.9	1.9
63.5°	2.2	2.4	2.4	2.7	2.4	2.4	2.4	2.2	1.9	1.9	1.9
64°	2.2	2.2	2.4	2.4	2.2	2.2	2.2	1.9	1.9	1.9	1.7
64.5°	1.9	2.2	2.2	2.4	2.2	2.2	2.2	1.9	1.7	1.7	1.7
65°	1.9	1.9	2.2	2.2	1.9	1.9	1.9	1.9	1.7	1.7	1.7
65.5°	1.7	1.9	1.9	2.2	1.9	1.9	1.9	1.7	1.7	1.7	1.5
66°	1.7	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.5	1.5	1.5



TEST NUMBER: P776065

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-2700K

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	1.7	1.7	1.7	1.7	1.5	1.5	1.2	1.2	1.2
68°	1.5	1.5	1.7	1.7	1.5	1.5	1.5	1.5	1.2	1.2	1.2
68.5°	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.2
69°	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.0
69.5°	1.2	1.2	1.5	1.5	1.2	1.2	1.2	1.2	1.0	1.0	1.0
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0
70.5°	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0
71°	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.2	1.2	1.0	1.0	1.0	1.0	0.7	0.7	0.7
72°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7
72.5°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7
73°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7
73.5°	0.7	0.7	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
74°	0.7	0.7	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.5	0.5
74.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
75.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5
76°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5
76.5°	0.5	0.5	0.7	0.7	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	0.2	0.5
78°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
78.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
79°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
79.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
83°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
84°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.2	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: P776065
CATALOG NUMBER: HCDJBL1525CSD-HCD62TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776065

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1293.9	1293.9	1293.9	1293.9	1293.9	1293.9
0.5°	1290.8	1293.4	1293.2	1293.2	1294.2	1294.2
1°	1288.8	1291.7	1291.7	1292.2	1293.7	1294.6
1.5°	1286.6	1290.0	1290.0	1291.0	1292.9	1294.6
2°	1284.2	1288.1	1288.3	1289.5	1292.2	1294.6
2.5°	1281.5	1285.7	1286.2	1287.6	1291.2	1294.2
3°	1278.9	1283.2	1284.0	1285.7	1289.8	1293.4
3.5°	1275.7	1280.6	1281.3	1283.5	1288.1	1292.7
4°	1272.3	1277.7	1278.6	1281.1	1286.4	1291.7
4.5°	1268.9	1274.5	1275.7	1278.4	1284.5	1290.5
5°	1265.5	1271.1	1272.6	1275.5	1282.3	1288.8
5.5°	1261.4	1267.7	1269.2	1272.6	1279.6	1287.1
6°	1257.3	1263.9	1265.3	1269.2	1276.9	1285.2
6.5°	1252.9	1260.0	1261.7	1265.5	1274.3	1282.8
7°	1248.6	1255.9	1257.8	1261.9	1271.1	1280.3
7.5°	1243.7	1251.5	1253.4	1258.0	1267.7	1277.7
8°	1238.6	1246.9	1249.1	1253.7	1264.1	1275.0
8.5°	1233.6	1241.8	1244.2	1249.5	1260.5	1271.8
9°	1228.0	1236.7	1239.4	1244.9	1256.6	1268.5
9.5°	1222.4	1231.6	1234.3	1239.9	1252.5	1265.1
10°	1217.1	1226.0	1228.9	1235.0	1247.9	1261.2
10.5°	1211.0	1220.7	1223.6	1229.7	1243.2	1257.3
11°	1204.9	1214.6	1217.8	1224.6	1238.2	1253.2
11.5°	1198.6	1208.8	1212.0	1219.0	1233.6	1249.1
12°	1192.1	1202.8	1205.9	1213.2	1228.5	1244.5
12.5°	1185.6	1196.2	1199.9	1207.1	1222.9	1239.4
13°	1178.8	1189.9	1193.6	1201.1	1217.1	1234.5
13.5°	1171.7	1183.1	1187.0	1194.8	1211.7	1229.4
14°	1164.7	1176.3	1180.5	1188.5	1205.7	1224.1
14.5°	1157.7	1169.3	1173.7	1181.9	1199.9	1218.5
15°	1150.2	1162.0	1166.4	1175.1	1193.3	1212.9
15.5°	1142.7	1155.0	1159.4	1168.1	1187.0	1207.1
16°	1135.1	1147.5	1151.9	1161.1	1180.5	1200.8
16.5°	1127.1	1139.7	1144.3	1154.0	1173.7	1194.5
17°	1119.4	1132.2	1136.8	1146.8	1166.7	1188.2
17.5°	1111.1	1124.2	1129.1	1139.0	1159.6	1181.7
18°	1102.9	1116.2	1121.3	1131.5	1152.6	1175.1
18.5°	1094.9	1108.0	1113.1	1123.5	1145.1	1168.3
19°	1086.2	1099.7	1104.8	1115.5	1137.6	1160.8
19.5°	1077.4	1091.3	1096.6	1107.5	1130.0	1153.8
20°	1068.5	1082.8	1087.9	1099.3	1122.0	1146.5
20.5°	1059.8	1073.8	1079.4	1091.0	1114.3	1139.0
21°	1050.8	1064.8	1070.4	1082.3	1106.1	1131.7



TEST NUMBER: P776065

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1022.7	1037.5	1043.3	1055.9	1081.3	1107.7
23°	1013.0	1028.0	1034.1	1046.9	1072.4	1099.5
23.5°	1003.5	1018.3	1024.6	1037.7	1063.6	1091.0
24°	993.6	1008.6	1015.2	1028.5	1054.7	1082.3
24.5°	984.1	998.9	1005.7	1019.0	1045.9	1073.8
25°	974.2	989.0	995.8	1009.3	1036.7	1065.1
25.5°	964.2	979.3	986.3	999.9	1027.5	1056.1
26°	954.6	969.3	976.4	990.4	1018.3	1047.4
26.5°	944.9	959.6	966.7	980.7	1008.9	1038.2
27°	935.2	949.7	957.0	971.0	999.6	1029.2
27.5°	926.0	940.0	947.3	961.8	990.2	1020.0
28°	916.7	930.3	937.6	952.4	981.0	1011.0
28.5°	907.5	921.1	928.4	943.2	971.5	1001.6
29°	898.6	912.1	919.4	934.2	962.6	992.4
29.5°	889.3	902.9	910.2	925.5	953.8	983.6
30°	880.1	893.7	901.2	916.7	944.9	974.9
30.5°	870.2	884.3	892.0	907.5	936.4	966.2
31°	859.8	875.0	882.8	898.3	927.9	957.7
31.5°	844.5	865.1	872.9	889.1	919.2	949.0
32°	826.6	853.5	861.5	878.9	910.0	940.5
32.5°	806.5	836.5	845.5	866.3	900.5	932.0
33°	783.2	815.9	827.1	850.3	890.1	923.0
33.5°	758.9	793.4	806.7	829.7	875.3	913.3
34°	734.0	771.1	783.9	805.0	858.3	902.9
34.5°	709.0	747.5	759.2	780.0	838.9	888.9
35°	683.3	723.3	732.0	754.6	817.4	872.6
35.5°	656.2	698.8	704.6	729.6	795.5	854.9
36°	628.5	671.9	677.7	705.1	772.5	835.3
36.5°	600.2	644.8	650.1	680.6	747.8	815.7
37°	572.3	616.2	623.2	656.2	722.6	794.1
37.5°	544.2	588.1	596.8	630.5	696.4	771.3
38°	517.3	558.7	569.6	602.8	670.5	746.8
38.5°	490.4	530.6	543.2	575.2	643.8	721.1
39°	463.7	502.2	516.5	547.1	618.6	694.2
39.5°	437.3	473.6	489.4	519.0	592.4	666.8
40°	410.6	444.3	462.2	490.9	566.2	638.5
40.5°	384.0	416.4	435.3	464.9	538.1	609.6
41°	357.8	389.5	408.7	438.7	510.7	579.1
41.5°	332.6	363.4	382.7	413.5	481.6	548.8
42°	306.9	338.4	357.5	388.8	452.8	517.8
42.5°	283.4	313.2	332.6	363.6	424.2	487.9
43°	260.8	290.1	308.3	337.7	396.1	458.1
43.5°	240.9	267.1	284.6	312.2	368.2	429.8



TEST NUMBER: P776065

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	181.8	205.1	216.2	239.7	288.0	346.6
45.5°	162.2	186.4	195.6	217.4	262.5	321.2
46°	143.7	168.5	176.2	195.9	238.0	295.2
46.5°	128.0	151.5	157.3	174.3	214.3	270.0
47°	113.2	136.0	139.9	153.9	191.3	245.8
47.5°	99.6	121.0	123.1	134.3	170.2	222.5
48°	86.5	106.9	107.9	115.1	150.3	200.5
48.5°	74.4	93.8	93.6	97.9	132.1	179.4
49°	63.5	82.4	81.7	81.9	115.1	159.5
49.5°	53.6	72.2	71.3	71.0	99.6	141.1
50°	44.6	62.3	60.6	60.4	85.1	124.1
50.5°	36.6	52.1	50.2	49.4	74.7	108.4
51°	31.0	42.2	39.5	38.8	64.2	93.3
51.5°	25.5	34.4	32.0	31.8	53.8	80.5
52°	20.1	27.6	25.7	25.7	43.1	69.6
52.5°	14.5	21.3	19.9	20.6	33.0	58.7
53°	9.0	15.8	15.0	16.0	26.2	47.8
53.5°	6.1	11.2	10.9	11.9	20.4	36.8
54°	4.6	7.5	7.5	8.5	15.3	29.1
54.5°	4.1	6.5	6.5	7.3	11.2	22.1
55°	3.9	5.6	5.6	6.1	7.8	16.2
55.5°	3.6	4.6	4.6	4.8	6.8	11.2
56°	3.6	3.6	3.6	3.9	5.8	7.5
56.5°	3.4	3.6	3.4	3.6	4.6	6.5
57°	3.2	3.4	3.4	3.4	3.6	5.6
57.5°	3.2	3.2	3.2	3.4	3.6	4.6
58°	2.9	3.2	3.2	3.2	3.4	3.9
58.5°	2.9	2.9	2.9	2.9	3.4	3.6
59°	2.7	2.9	2.7	2.9	3.2	3.4
59.5°	2.7	2.7	2.7	2.7	2.9	3.4
60°	2.4	2.4	2.4	2.4	2.9	3.2
60.5°	2.4	2.4	2.4	2.4	2.7	2.9
61°	2.2	2.2	2.2	2.2	2.4	2.9
61.5°	2.2	2.2	2.2	2.2	2.4	2.7
62°	1.9	2.2	1.9	2.2	2.2	2.7
62.5°	1.9	1.9	1.9	1.9	2.2	2.4
63°	1.7	1.9	1.9	1.9	1.9	2.4
63.5°	1.7	1.7	1.7	1.7	1.9	2.2
64°	1.7	1.7	1.7	1.7	1.9	2.2
64.5°	1.5	1.7	1.5	1.7	1.7	1.9
65°	1.5	1.5	1.5	1.5	1.7	1.9
65.5°	1.5	1.5	1.5	1.5	1.7	1.7
66°	1.5	1.5	1.5	1.5	1.5	1.7



TEST NUMBER: P776065

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.2	1.2	1.2	1.2	1.5
68°	1.2	1.2	1.0	1.2	1.2	1.5
68.5°	1.0	1.0	1.0	1.0	1.2	1.2
69°	1.0	1.0	1.0	1.0	1.2	1.2
69.5°	1.0	1.0	1.0	1.0	1.0	1.2
70°	1.0	1.0	1.0	1.0	1.0	1.2
70.5°	0.7	1.0	0.7	0.7	1.0	1.0
71°	0.7	0.7	0.7	0.7	1.0	1.0
71.5°	0.7	0.7	0.7	0.7	0.7	1.0
72°	0.7	0.7	0.7	0.7	0.7	1.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7
73°	0.7	0.7	0.7	0.7	0.7	0.7
73.5°	0.5	0.5	0.5	0.5	0.7	0.7
74°	0.5	0.5	0.5	0.5	0.7	0.7
74.5°	0.5	0.5	0.5	0.5	0.5	0.7
75°	0.5	0.5	0.5	0.5	0.5	0.7
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	0.2	0.2	0.5	0.5
77.5°	0.2	0.2	0.2	0.2	0.5	0.5
78°	0.2	0.2	0.2	0.2	0.2	0.5
78.5°	0.2	0.2	0.2	0.2	0.2	0.5
79°	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.2	0.2	0.0	0.2	0.2
83°	0.0	0.0	0.0	0.0	0.0	0.2
83.5°	0.0	0.0	0.0	0.0	0.0	0.2
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: P776065

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRMB-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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21.5°	1123.7	1139.3	1151.1	1157.0	1144.8	1138.5	1125.7	1101.4	1075.8	1060.5	1048.4
22°	1115.5	1131.7	1144.1	1149.4	1137.1	1130.5	1117.7	1093.2	1067.3	1051.5	1039.2



44°	401.4	440.4	476.8	500.5	459.6	441.9	406.7	339.1	280.7	260.3	240.2
44.5°	374.0	412.3	449.2	471.5	429.5	414.5	380.6	314.6	255.7	238.0	218.4



66.5°	1.7	1.7	1.9	1.9	1.7	1.7	1.7	1.7	1.5	1.5	1.5
67°	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.2



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°	1041.6	1055.6	1061.7	1073.6	1098.1	1123.7
22°	1031.9	1046.2	1052.5	1064.8	1089.6	1115.5



44°	221.3	245.5	260.8	287.2	341.3	401.4
44.5°	201.4	224.7	238.5	263.5	314.1	374.0

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66.5°	1.2	1.2	1.2	1.2	1.5	1.7
67°	1.2	1.2	1.2	1.2	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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(END OF REPORT)