

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: P775968

Luminaire Tested: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B051)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K
Description: 4 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

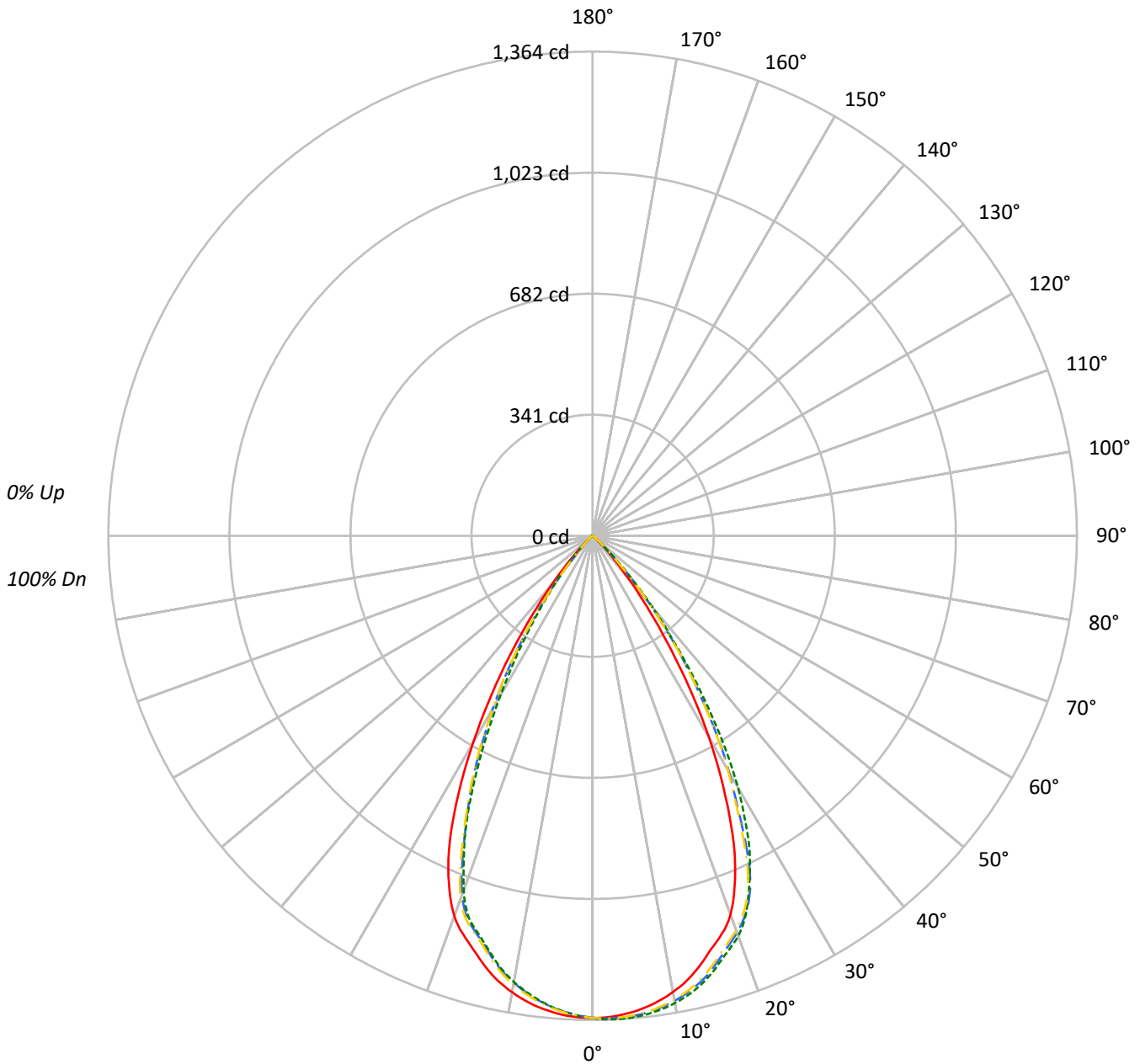
Lumens per Lamp: N/A
Luminaire Lumens: 1199.4 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.94 / 0.88
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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





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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	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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94						94													
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88						88													
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82						82													
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76						76													
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71						71													
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67						67													
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63						63													
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59						59													
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55						55													
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52						52													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	170929	170929	170929	170929
5°	169952	171936	170016	168247
10°	166780	170806	166883	163113
15°	160217	166861	160647	154354
20°	152060	160698	152636	142056
25°	129751	145456	132333	112574
30°	95140	118914	97727	75275
35°	56215	79506	60194	42895
40°	25793	42402	28750	19484
45°	7956	14416	9095	5695
50°	2545	2878	2584	2193
55°	1558	1777	1558	1338
60°	956	1082	1032	906
65°	685	685	685	596
70°	478	478	478	368
75°	243	389	243	243
80°	217	217	217	217
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 15057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	10.6
10°-20°	345.8	28.8
20°-30°	419.7	35.0
30°-40°	247.3	20.6
40°-50°	49.7	4.1
50°-60°	6.8	0.6
60°-70°	2.3	0.2
70°-80°	0.7	0.1
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°	892.6	74.4
0°-40°	1139.9	95.0
0°-60°	1196.4	99.7
0°-90°	1199.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1358	1358	1358	1358	1358	
5°	1345	1361	1346	1332	1345	127
15°	1230	1281	1233	1185	1230	346
25°	934	1048	953	811	934	419
35°	366	518	392	279	366	233
45°	45	81	51	32	45	44
55°	7	8	7	6	7	7
65°	2	2	2	2	2	2
75°	0	1	0	0	0	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°	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2
0.5°	1358.5	1359.2	1358.5	1358.0	1360.8	1359.7	1359.0	1358.7	1358.5	1358.2	1356.2
1°	1358.0	1359.2	1359.2	1359.0	1361.8	1360.8	1359.7	1359.0	1358.2	1357.2	1354.4
1.5°	1357.5	1359.2	1360.0	1360.0	1362.5	1361.5	1360.0	1358.7	1357.5	1355.9	1352.6
2°	1356.4	1358.7	1360.3	1360.5	1363.0	1362.0	1360.3	1358.5	1356.7	1354.7	1350.3
2.5°	1355.2	1358.2	1360.3	1360.8	1363.6	1362.3	1360.0	1358.0	1355.4	1352.9	1347.8
3°	1353.6	1357.2	1360.0	1361.0	1363.6	1362.3	1359.7	1356.9	1354.2	1350.9	1345.3
3.5°	1352.1	1356.2	1359.7	1360.8	1363.3	1361.8	1359.0	1355.9	1352.4	1348.6	1342.5
4°	1350.1	1354.7	1359.0	1360.3	1362.8	1361.3	1358.2	1354.4	1350.3	1346.0	1339.2
4.5°	1347.8	1353.1	1358.2	1359.7	1362.0	1360.5	1356.9	1352.9	1348.3	1343.5	1335.6
5°	1345.3	1351.1	1356.9	1358.7	1361.0	1359.2	1355.7	1351.1	1345.8	1340.4	1331.8
5.5°	1342.5	1349.1	1355.4	1357.7	1359.7	1358.0	1353.9	1349.1	1343.0	1337.1	1328.0
6°	1339.4	1346.5	1353.6	1356.2	1358.2	1356.2	1351.9	1346.5	1339.9	1333.6	1323.7
6.5°	1336.1	1344.0	1351.6	1354.4	1356.7	1354.4	1349.6	1343.7	1336.6	1329.5	1319.1
7°	1332.8	1340.9	1349.3	1352.4	1354.4	1352.1	1347.3	1340.7	1333.3	1325.4	1314.0
7.5°	1328.7	1337.6	1346.8	1350.3	1352.1	1349.6	1344.8	1337.6	1329.5	1320.9	1308.9
8°	1324.7	1334.1	1344.2	1347.8	1349.6	1347.0	1341.5	1334.1	1325.2	1316.3	1303.6
8.5°	1320.1	1330.3	1340.9	1345.0	1346.8	1344.0	1338.1	1330.3	1320.9	1311.5	1297.8
9°	1315.5	1326.2	1337.6	1342.0	1343.7	1340.9	1334.6	1326.2	1316.3	1306.1	1291.9
9.5°	1310.5	1321.6	1334.1	1338.7	1340.4	1337.4	1330.8	1321.9	1311.2	1300.8	1285.3
10°	1305.1	1317.1	1330.3	1335.1	1336.6	1333.8	1326.7	1317.3	1305.9	1294.7	1278.7
10.5°	1299.3	1312.0	1326.2	1331.3	1332.8	1329.5	1322.4	1312.2	1300.3	1288.6	1271.8
11°	1293.7	1306.9	1321.6	1327.0	1328.5	1325.2	1317.6	1306.9	1294.7	1282.0	1264.5
11.5°	1287.3	1301.3	1316.8	1322.7	1323.9	1320.4	1312.5	1301.3	1288.4	1275.1	1256.3
12°	1280.5	1295.2	1311.7	1318.1	1319.1	1315.5	1307.2	1295.5	1281.7	1267.8	1248.0
12.5°	1273.1	1288.6	1306.4	1312.7	1314.0	1309.9	1301.3	1289.1	1274.6	1259.9	1239.1
13°	1265.2	1282.0	1300.3	1307.4	1308.2	1304.4	1295.2	1282.5	1267.3	1251.8	1229.7
13.5°	1256.8	1274.4	1294.5	1301.6	1302.1	1298.0	1288.6	1275.1	1259.1	1243.1	1220.0
14°	1248.2	1266.8	1287.8	1295.2	1295.7	1291.4	1281.5	1267.5	1250.8	1233.7	1209.6
14.5°	1239.1	1258.4	1280.7	1288.4	1288.4	1283.8	1274.1	1259.4	1242.1	1224.1	1199.7
15°	1229.7	1249.5	1273.1	1281.0	1280.7	1276.4	1266.0	1251.0	1233.0	1214.4	1189.8
15.5°	1220.3	1240.3	1265.0	1273.1	1273.1	1268.3	1257.6	1242.1	1223.6	1204.8	1180.9
16°	1211.4	1231.4	1256.3	1265.0	1264.7	1259.9	1249.0	1233.0	1214.2	1195.4	1172.2
16.5°	1203.2	1222.6	1247.4	1256.3	1255.8	1251.3	1240.1	1224.1	1205.5	1186.7	1163.6
17°	1194.9	1214.4	1238.6	1248.0	1247.4	1242.6	1231.2	1215.4	1197.1	1178.6	1155.0
17.5°	1187.0	1206.3	1230.2	1239.3	1239.3	1234.5	1222.8	1207.3	1189.0	1170.2	1146.3
18°	1178.9	1198.4	1221.8	1231.4	1232.0	1226.6	1215.2	1199.2	1180.6	1161.6	1136.2
18.5°	1170.2	1190.0	1213.9	1223.8	1224.1	1219.0	1206.8	1190.5	1172.0	1152.4	1124.5
19°	1160.1	1181.9	1205.8	1215.9	1216.5	1211.1	1198.7	1182.7	1162.6	1141.8	1110.3
19.5°	1148.4	1172.8	1197.9	1207.8	1208.8	1203.2	1190.5	1173.5	1151.9	1129.1	1094.0
20°	1135.4	1162.3	1189.5	1200.2	1199.9	1194.6	1181.9	1163.9	1139.7	1114.6	1074.9
20.5°	1120.4	1150.7	1180.9	1191.3	1189.8	1184.9	1172.5	1153.2	1125.8	1098.6	1053.6
21°	1104.2	1138.2	1171.2	1181.4	1178.1	1173.8	1162.3	1141.3	1111.0	1080.5	1029.0



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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°	1048.0	1091.2	1137.2	1144.3	1135.7	1133.9	1126.0	1098.3	1057.9	1015.7	949.4
23°	1027.7	1072.7	1123.2	1129.6	1118.9	1117.6	1111.8	1081.3	1039.4	991.4	923.3
23.5°	1006.9	1053.1	1107.7	1113.0	1100.9	1100.1	1095.0	1062.2	1019.3	965.9	897.4
24°	983.7	1032.3	1090.4	1094.8	1083.1	1082.3	1076.7	1042.2	998.5	940.3	873.0
24.5°	959.6	1010.2	1070.9	1076.0	1065.5	1062.7	1055.6	1021.3	976.4	914.6	848.3
25°	934.4	987.3	1047.8	1055.6	1047.5	1043.4	1033.3	999.0	953.0	890.2	823.7
25.5°	907.8	962.9	1023.1	1035.8	1029.5	1024.1	1007.6	975.1	927.6	866.1	798.8
26°	880.6	936.5	994.9	1014.5	1010.4	1004.3	979.7	949.7	901.4	842.5	773.4
26.5°	852.4	908.0	964.9	992.6	990.1	982.2	949.9	922.8	874.0	818.1	747.2
27°	824.2	878.5	933.7	969.0	968.5	959.3	921.2	894.3	846.8	793.4	720.3
27.5°	796.2	847.6	902.9	945.1	944.4	935.2	892.0	864.6	818.1	768.5	692.1
28°	768.5	815.8	873.0	918.4	919.7	910.3	864.1	832.8	789.1	742.9	664.4
28.5°	740.6	784.3	845.0	891.3	894.0	882.9	836.6	802.3	761.4	716.5	637.2
29°	711.9	753.3	818.3	862.3	869.4	854.7	812.0	772.4	731.4	688.8	611.3
29.5°	683.4	721.8	793.2	832.8	844.0	825.5	786.3	743.1	701.7	659.3	585.6
30°	654.7	692.6	767.8	802.6	818.3	796.5	761.2	714.9	672.5	630.6	560.2
30.5°	626.0	662.3	742.4	773.9	790.9	767.3	735.8	686.5	644.0	601.4	535.6
31°	596.0	633.4	715.2	745.4	763.2	739.3	709.6	658.5	614.6	572.9	510.7
31.5°	566.6	603.9	687.5	717.2	733.0	711.4	681.4	630.6	585.6	544.7	485.8
32°	536.8	575.5	658.5	690.0	702.5	684.2	652.9	602.4	556.9	517.8	460.6
32.5°	507.1	547.8	629.1	663.9	671.2	656.2	624.2	573.7	529.2	491.4	433.9
33°	477.4	520.3	599.1	636.9	640.0	629.3	595.5	544.2	500.5	465.4	407.8
33.5°	447.9	492.9	570.1	609.8	609.2	601.1	567.1	516.0	472.6	439.3	382.1
34°	419.2	467.0	542.7	582.1	578.5	573.7	540.1	488.8	445.1	412.6	357.2
34.5°	391.8	440.8	516.5	554.4	548.0	545.0	515.0	462.1	418.4	385.9	332.3
35°	365.9	415.1	490.1	525.7	517.5	517.0	488.8	436.5	391.8	359.2	308.7
35.5°	341.0	390.7	465.2	497.2	488.1	489.8	463.9	411.6	366.4	333.3	285.8
36°	316.8	367.9	440.3	469.0	459.3	462.4	438.3	388.2	341.7	307.7	263.7
36.5°	293.2	345.0	415.4	442.3	430.9	434.7	412.3	365.1	318.1	283.3	241.9
37°	270.8	321.9	389.7	415.9	403.7	407.5	385.9	342.5	294.0	259.7	220.0
37.5°	249.7	299.8	364.6	390.5	377.8	380.8	359.8	319.9	272.4	239.1	198.2
38°	229.2	277.4	338.9	365.3	352.6	354.9	334.1	298.0	251.3	218.7	176.6
38.5°	209.3	255.6	314.3	339.7	328.2	329.0	309.2	276.2	232.2	198.2	156.5
39°	191.1	234.2	291.2	315.5	304.4	304.4	284.8	254.6	213.2	177.8	138.0
39.5°	173.5	213.7	268.8	291.4	281.0	280.0	262.2	234.2	194.1	161.1	120.9
40°	157.0	194.1	248.2	267.5	258.1	256.9	242.1	214.2	175.0	143.8	105.9
40.5°	141.5	175.3	227.6	244.2	237.5	235.0	222.1	194.1	158.0	128.0	92.7
41°	126.8	157.5	208.3	221.0	217.0	213.4	202.0	174.0	142.5	113.3	81.3
41.5°	113.6	141.3	189.3	199.4	196.4	191.8	181.9	156.2	127.5	99.6	71.4
42°	101.1	126.0	170.5	178.9	175.8	170.0	161.8	139.7	113.8	87.1	63.3
42.5°	89.7	111.8	152.2	159.8	158.3	151.2	143.5	123.7	101.1	76.5	56.1
43°	80.5	98.3	133.9	141.8	140.8	133.4	125.8	109.0	89.4	66.8	49.3
43.5°	71.6	87.1	116.9	125.0	125.0	117.1	109.2	95.8	78.5	58.4	43.4



TEST NUMBER: P775968

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	44.7	57.4	76.0	84.6	81.0	76.2	68.9	61.5	51.1	38.6	29.0
45.5°	38.4	47.8	65.5	74.2	68.6	65.3	58.2	52.6	43.7	33.3	25.9
46°	32.5	40.4	55.4	63.8	57.9	55.4	49.3	44.2	36.8	28.5	23.1
46.5°	27.2	33.8	45.0	53.4	48.3	46.7	41.4	37.3	31.0	25.7	20.1
47°	22.9	27.9	37.9	43.2	39.9	38.9	34.6	31.0	27.7	22.6	17.3
47.5°	19.1	23.1	31.2	35.8	32.8	32.3	31.2	27.7	24.4	19.8	14.2
48°	16.5	19.1	25.9	29.5	29.2	28.7	27.9	24.4	21.1	17.0	13.2
48.5°	15.0	16.5	21.3	23.9	25.4	25.4	24.6	21.3	17.8	14.2	12.7
49°	14.2	15.0	18.0	19.6	21.8	21.8	21.3	18.0	14.5	13.5	12.2
49.5°	13.5	14.2	16.0	16.8	18.3	18.3	17.8	15.0	13.7	12.7	11.7
50°	13.0	13.5	14.7	15.2	14.7	15.0	14.5	14.0	13.2	12.2	10.9
50.5°	12.2	13.0	14.0	14.2	14.0	14.2	14.0	13.5	12.4	11.7	10.4
51°	11.7	12.2	13.5	13.7	13.5	13.5	13.2	12.7	11.9	10.9	9.7
51.5°	10.9	11.7	12.7	13.0	12.7	12.7	12.4	11.9	11.2	10.4	9.1
52°	10.4	10.9	12.2	12.4	12.2	12.2	11.9	11.2	10.4	9.7	8.6
52.5°	9.7	10.2	11.4	11.7	11.4	11.4	11.2	10.7	9.9	9.1	8.1
53°	9.1	9.7	10.7	10.9	10.7	10.7	10.4	9.9	9.1	8.6	7.6
53.5°	8.6	8.9	9.9	10.2	9.9	9.9	9.7	9.4	8.6	8.1	7.1
54°	8.1	8.4	9.4	9.7	9.4	9.4	9.1	8.6	8.1	7.6	6.9
54.5°	7.6	7.9	8.9	9.1	8.6	8.6	8.6	8.1	7.6	7.1	6.4
55°	7.1	7.6	8.1	8.4	8.1	8.1	8.1	7.6	7.1	6.9	6.1
55.5°	6.6	7.1	7.6	7.9	7.6	7.6	7.6	7.1	6.9	6.4	5.6
56°	6.4	6.6	7.1	7.4	7.1	7.1	7.1	6.9	6.4	6.1	5.3
56.5°	5.8	6.1	6.9	6.9	6.9	6.9	6.6	6.4	6.1	5.6	5.1
57°	5.6	5.8	6.4	6.6	6.4	6.4	6.4	6.1	5.6	5.3	4.8
57.5°	5.1	5.3	5.8	6.1	5.8	5.8	5.8	5.6	5.3	5.1	4.6
58°	4.8	5.1	5.6	5.8	5.6	5.6	5.6	5.3	5.1	4.8	4.3
58.5°	4.6	4.8	5.3	5.3	5.3	5.3	5.1	5.1	4.8	4.6	4.1
59°	4.3	4.6	4.8	5.1	4.8	4.8	4.8	4.8	4.6	4.3	3.8
59.5°	4.1	4.3	4.6	4.8	4.6	4.6	4.6	4.3	4.3	4.1	3.6
60°	3.8	4.1	4.3	4.6	4.3	4.3	4.3	4.1	4.1	3.8	3.3
60.5°	3.6	3.8	4.1	4.3	4.1	4.1	4.1	3.8	3.8	3.6	3.3
61°	3.6	3.6	3.8	4.1	3.8	3.8	3.8	3.8	3.6	3.3	3.0
61.5°	3.3	3.3	3.6	3.8	3.6	3.6	3.6	3.6	3.3	3.0	2.8
62°	3.0	3.0	3.6	3.6	3.6	3.6	3.3	3.3	3.0	3.0	2.8
62.5°	2.8	3.0	3.3	3.3	3.3	3.3	3.3	3.0	3.0	2.8	2.5
63°	2.8	2.8	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.8	2.5
63.5°	2.5	2.5	2.8	3.0	2.8	2.8	2.8	2.8	2.5	2.5	2.3
64°	2.5	2.5	2.8	2.8	2.8	2.8	2.8	2.5	2.5	2.3	2.3
64.5°	2.3	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.3	2.3	2.0
65°	2.3	2.3	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.0	2.0
65.5°	2.0	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.0	2.0	1.8
66°	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	1.8	1.8



TEST NUMBER: P775968

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.5
68°	1.5	1.5	1.8	1.8	1.8	1.8	1.8	1.5	1.5	1.5	1.3
68.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3
69°	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3
69.5°	1.3	1.3	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.0
70.5°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0
71°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8
72.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8
73°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8
73.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
74.5°	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
75°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
75.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
76°	0.5	0.5	0.5	0.5	0.5	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	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°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
78°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3
78.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.5	0.3	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	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	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	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°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
82.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
83°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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	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: P775968
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

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: P775968

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2
0.5°	1354.9	1357.7	1356.9	1356.9	1357.5	1358.5
1°	1352.9	1355.9	1355.4	1355.4	1356.7	1358.0
1.5°	1350.9	1353.9	1353.4	1353.9	1355.4	1357.5
2°	1348.3	1351.4	1351.1	1351.9	1353.9	1356.4
2.5°	1345.5	1348.8	1348.6	1349.6	1352.1	1355.2
3°	1342.7	1346.0	1345.8	1347.3	1350.1	1353.6
3.5°	1339.4	1342.7	1342.7	1344.5	1348.1	1352.1
4°	1335.9	1339.4	1339.4	1341.5	1345.3	1350.1
4.5°	1332.3	1335.6	1335.9	1338.1	1342.5	1347.8
5°	1328.0	1331.8	1332.1	1334.8	1339.4	1345.3
5.5°	1323.9	1327.5	1327.7	1331.0	1336.4	1342.5
6°	1319.1	1322.9	1323.4	1327.0	1332.6	1339.4
6.5°	1314.5	1318.1	1318.8	1322.4	1328.7	1336.1
7°	1309.2	1313.0	1313.8	1318.1	1324.7	1332.8
7.5°	1303.6	1307.7	1308.7	1313.0	1320.1	1328.7
8°	1298.0	1301.8	1303.1	1307.7	1315.5	1324.7
8.5°	1291.9	1296.0	1297.2	1302.1	1310.5	1320.1
9°	1285.6	1289.6	1291.1	1296.5	1305.1	1315.5
9.5°	1279.2	1283.3	1284.8	1290.1	1299.5	1310.5
10°	1272.1	1276.4	1277.9	1284.0	1293.7	1305.1
10.5°	1265.0	1269.0	1270.8	1277.2	1287.3	1299.3
11°	1256.8	1261.4	1263.5	1269.8	1280.5	1293.7
11.5°	1248.7	1253.0	1255.1	1261.9	1273.4	1287.3
12°	1240.1	1244.7	1246.4	1253.8	1265.7	1280.5
12.5°	1230.7	1235.3	1237.0	1244.4	1257.4	1273.1
13°	1221.0	1225.3	1227.1	1235.3	1249.0	1265.2
13.5°	1210.9	1215.4	1217.5	1225.6	1239.6	1256.8
14°	1200.2	1205.0	1207.1	1215.4	1230.2	1248.2
14.5°	1190.0	1194.6	1196.6	1205.5	1220.3	1239.1
15°	1180.6	1184.7	1186.7	1195.1	1210.6	1229.7
15.5°	1171.7	1175.5	1177.8	1186.0	1201.0	1220.3
16°	1162.8	1166.9	1169.2	1177.3	1192.3	1211.4
16.5°	1154.0	1158.3	1160.3	1168.9	1184.2	1203.2
17°	1145.3	1149.6	1151.7	1160.6	1176.1	1194.9
17.5°	1135.9	1140.5	1142.8	1152.2	1167.7	1187.0
18°	1123.7	1130.1	1132.6	1143.0	1159.3	1178.9
18.5°	1110.0	1116.1	1119.4	1132.4	1149.6	1170.2
19°	1094.2	1100.6	1105.2	1119.4	1138.2	1160.1
19.5°	1076.2	1082.1	1087.9	1104.4	1125.0	1148.4
20°	1055.9	1060.7	1068.6	1086.4	1109.7	1135.4
20.5°	1033.8	1038.1	1047.0	1066.6	1092.0	1120.4
21°	1010.4	1014.5	1023.9	1043.9	1072.1	1104.2



TEST NUMBER: P775968

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	931.1	944.1	947.1	965.2	1001.3	1048.0
23°	903.4	920.7	920.7	937.5	974.6	1027.7
23.5°	875.5	895.3	893.8	910.1	949.2	1006.9
24°	848.8	868.6	865.6	882.9	923.8	983.7
24.5°	821.1	840.4	837.4	857.5	899.4	959.6
25°	794.2	810.7	809.7	831.0	875.8	934.4
25.5°	768.0	781.8	781.8	805.6	852.1	907.8
26°	742.1	751.5	753.0	780.0	828.0	880.6
26.5°	715.2	722.6	724.8	754.8	803.3	852.4
27°	688.5	692.1	697.4	727.9	777.4	824.2
27.5°	661.3	662.3	670.0	700.7	750.5	796.2
28°	634.9	633.1	642.3	672.5	721.5	768.5
28.5°	608.0	603.4	616.1	644.3	692.6	740.6
29°	581.0	573.4	588.7	616.4	661.8	711.9
29.5°	554.1	545.5	562.0	589.9	633.6	683.4
30°	527.4	518.0	534.5	563.0	604.2	654.7
30.5°	500.2	490.8	507.4	536.8	576.7	626.0
31°	473.8	464.9	478.7	510.9	549.3	596.0
31.5°	447.2	440.5	451.2	486.5	522.6	566.6
32°	421.5	416.2	425.0	461.9	496.2	536.8
32.5°	395.8	392.5	399.9	437.2	471.0	507.1
33°	371.7	368.6	375.8	411.6	444.9	477.4
33.5°	347.6	344.5	352.6	386.4	418.2	447.9
34°	324.4	321.9	329.8	361.5	391.0	419.2
34.5°	302.3	300.0	307.9	336.4	364.8	391.8
35°	280.5	279.2	286.1	312.2	338.2	365.9
35.5°	259.1	259.4	266.0	288.9	312.2	341.0
36°	240.6	241.4	245.7	266.3	287.3	316.8
36.5°	222.3	223.3	226.1	244.4	263.7	293.2
37°	203.8	206.6	207.6	223.1	241.4	270.8
37.5°	185.5	190.0	190.0	202.2	220.0	249.7
38°	166.9	173.8	173.8	181.9	199.7	229.2
38.5°	151.9	158.8	158.0	162.6	180.1	209.3
39°	136.9	144.6	143.5	144.6	161.8	191.1
39.5°	123.0	131.1	129.8	127.5	144.6	173.5
40°	109.5	118.6	116.9	111.5	127.5	157.0
40.5°	97.8	106.5	104.4	97.8	112.5	141.5
41°	86.1	95.5	92.7	86.6	98.6	126.8
41.5°	76.0	86.4	83.8	78.0	86.4	113.6
42°	66.6	77.5	74.9	69.4	77.7	101.1
42.5°	58.4	68.6	66.3	61.0	69.1	89.7
43°	51.1	59.7	57.4	52.3	60.5	80.5
43.5°	44.5	50.8	48.5	46.2	51.8	71.6



TEST NUMBER: P775968

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	29.5	32.0	31.0	31.0	34.6	44.7
45.5°	25.9	26.9	26.2	26.9	30.2	38.4
46°	22.1	22.4	22.4	23.1	25.9	32.5
46.5°	18.5	18.5	18.8	19.8	22.1	27.2
47°	15.0	16.0	16.0	17.0	18.8	22.9
47.5°	13.7	14.5	14.5	15.2	16.5	19.1
48°	13.0	13.5	13.7	14.2	15.0	16.5
48.5°	12.4	13.0	13.0	13.5	14.0	15.0
49°	11.9	12.4	12.4	13.0	13.5	14.2
49.5°	11.2	11.7	11.9	12.2	13.0	13.5
50°	10.7	11.2	11.2	11.7	12.2	13.0
50.5°	9.9	10.4	10.7	10.9	11.7	12.2
51°	9.4	9.9	9.9	10.4	10.9	11.7
51.5°	8.9	9.4	9.4	9.7	10.4	10.9
52°	8.4	8.6	8.9	9.1	9.7	10.4
52.5°	7.9	8.1	8.4	8.6	9.1	9.7
53°	7.4	7.6	7.9	8.1	8.6	9.1
53.5°	7.1	7.4	7.4	7.6	8.1	8.6
54°	6.6	6.9	6.9	7.4	7.6	8.1
54.5°	6.4	6.4	6.6	6.9	7.1	7.6
55°	5.8	6.1	6.1	6.4	6.9	7.1
55.5°	5.6	5.8	5.8	6.1	6.4	6.6
56°	5.3	5.3	5.6	5.8	6.1	6.4
56.5°	4.8	5.1	5.1	5.3	5.6	5.8
57°	4.6	4.8	4.8	5.1	5.3	5.6
57.5°	4.3	4.6	4.6	4.8	5.1	5.1
58°	4.1	4.3	4.3	4.6	4.8	4.8
58.5°	4.1	4.1	4.1	4.3	4.6	4.6
59°	3.8	3.8	3.8	4.1	4.3	4.3
59.5°	3.6	3.6	3.8	3.8	4.1	4.1
60°	3.3	3.6	3.6	3.6	3.8	3.8
60.5°	3.0	3.3	3.3	3.3	3.6	3.6
61°	3.0	3.0	3.0	3.3	3.3	3.6
61.5°	2.8	2.8	3.0	3.0	3.0	3.3
62°	2.8	2.8	2.8	2.8	3.0	3.0
62.5°	2.5	2.5	2.5	2.8	2.8	2.8
63°	2.3	2.5	2.5	2.5	2.5	2.8
63.5°	2.3	2.3	2.3	2.5	2.5	2.5
64°	2.0	2.3	2.3	2.3	2.3	2.5
64.5°	2.0	2.0	2.0	2.0	2.3	2.3
65°	2.0	2.0	2.0	2.0	2.0	2.3
65.5°	1.8	1.8	1.8	2.0	2.0	2.0
66°	1.8	1.8	1.8	1.8	1.8	2.0



TEST NUMBER: P775968

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.5	1.5	1.5	1.5	1.5	1.5
68°	1.3	1.5	1.5	1.5	1.5	1.5
68.5°	1.3	1.3	1.3	1.3	1.3	1.5
69°	1.3	1.3	1.3	1.3	1.3	1.3
69.5°	1.0	1.3	1.3	1.3	1.3	1.3
70°	1.0	1.0	1.0	1.0	1.3	1.3
70.5°	1.0	1.0	1.0	1.0	1.0	1.0
71°	1.0	1.0	1.0	1.0	1.0	1.0
71.5°	1.0	1.0	1.0	1.0	1.0	1.0
72°	0.8	0.8	0.8	0.8	0.8	0.8
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°	0.8	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.8	0.8
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
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	0.5	0.5	0.5	0.5
77.5°	0.3	0.5	0.5	0.5	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
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	0.0	0.0
82°	0.3	0.3	0.3	0.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
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: P775968

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMB-2500lm-4000K

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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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21.5°	1086.4	1124.0	1160.8	1170.0	1165.4	1161.8	1151.2	1128.3	1094.2	1060.5	1003.3
22°	1067.3	1108.2	1149.1	1158.0	1151.2	1148.4	1139.5	1114.3	1076.5	1038.9	976.4



44°	62.8	77.2	100.9	109.5	109.0	101.9	94.3	83.1	68.3	51.1	38.4
44.5°	53.6	67.3	86.4	95.0	94.5	88.4	80.8	71.6	59.2	44.5	33.5



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



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°	985.5	990.8	999.5	1019.0	1050.3	1086.4
22°	959.3	967.0	973.8	992.9	1026.2	1067.3

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44°	38.6	44.0	41.9	40.7	45.5	62.8
44.5°	33.0	37.9	36.3	35.8	39.9	53.6



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

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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)