

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: P776188

Luminaire Tested: HCDJBS1525CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B022)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K
Description: 8 INCH ROUND MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

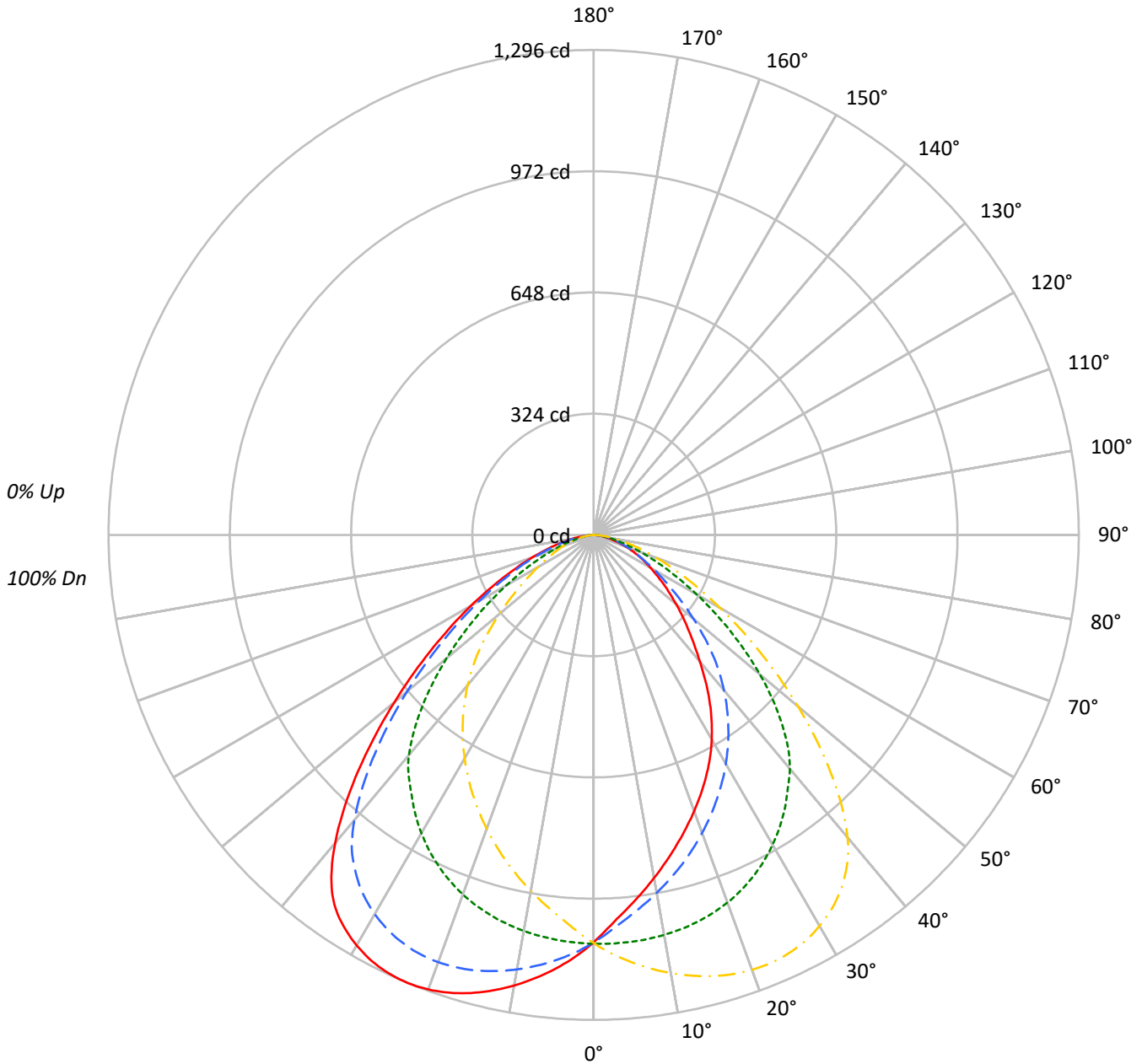
Lumens per Lamp: N/A
Luminaire Lumens: 2548.8 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.32
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	94	89	83	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65																			
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57																			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39																			
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35																			
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	33278	33278	33278	33278
5°	30794	33469	35645	33313
10°	28847	33643	37902	33311
15°	27103	33836	40059	33305
20°	25514	33961	41993	33208
25°	23961	33942	43567	32942
30°	22241	33709	44641	32447
35°	20100	33193	44978	31602
40°	17600	32505	42824	30576
45°	15453	30655	38310	27944
50°	13665	27534	32986	24385
55°	12067	23575	27812	20418
60°	10686	19387	23081	16468
65°	9536	15546	18877	12902
70°	8132	12060	15371	9810
75°	6511	9154	12398	7207
80°	5046	6751	9758	4870
85°	3398	4799	6235	2767

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 38971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	4.1
10°-20°	299.5	11.8
20°-30°	458.5	18.0
30°-40°	542.8	21.3
40°-50°	498.5	19.6
50°-60°	348.6	13.7
60°-70°	195.3	7.7
70°-80°	84.3	3.3
80°-90°	17.8	0.7
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°	861.3	33.8
0°-40°	1404.2	55.1
0°-60°	2251.3	88.3
0°-90°	2548.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1090	1090	1090	1090	1090	
5°	1005	1092	1163	1087	1005	94
15°	858	1070	1267	1054	858	241
25°	711	1008	1293	978	711	327
35°	539	891	1207	848	539	335
45°	358	710	887	647	358	277
55°	227	443	522	384	227	204
65°	132	215	261	179	132	131
75°	55	78	105	61	55	60
85°	10	14	18	8	10	12
90°	0	0	0	0	0	



TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0
0.5°	1079.6	1080.4	1083.2	1087.0	1092.8	1095.1	1097.4	1097.4	1096.9	1095.9	1095.1
1°	1071.0	1072.5	1077.1	1083.7	1092.8	1098.4	1103.3	1105.1	1105.3	1103.8	1100.7
1.5°	1062.1	1064.1	1071.0	1080.4	1093.1	1102.0	1109.1	1112.7	1113.2	1110.9	1106.1
2°	1052.9	1056.0	1064.6	1077.1	1093.1	1105.1	1114.7	1119.8	1120.8	1118.0	1111.7
2.5°	1044.3	1047.8	1058.2	1073.5	1093.1	1108.1	1120.3	1126.7	1128.2	1124.9	1116.8
3°	1035.9	1039.9	1052.1	1070.2	1093.1	1111.4	1125.4	1133.5	1135.6	1131.5	1121.8
3.5°	1027.7	1032.6	1045.8	1066.6	1092.8	1114.2	1130.8	1140.2	1142.7	1137.9	1126.4
4°	1020.1	1025.2	1039.9	1062.8	1092.6	1117.0	1135.8	1146.8	1149.6	1144.2	1131.3
4.5°	1012.2	1018.1	1033.8	1059.3	1092.3	1119.8	1140.9	1153.4	1156.4	1150.3	1135.8
5°	1004.8	1010.9	1028.0	1055.5	1092.1	1122.6	1145.8	1159.5	1163.1	1156.4	1140.4
5.5°	997.2	1003.8	1022.4	1051.6	1091.8	1124.9	1150.6	1165.9	1169.7	1162.5	1144.7
6°	989.8	996.9	1016.5	1048.1	1091.3	1127.4	1155.2	1171.7	1176.0	1168.4	1149.1
6.5°	982.4	990.1	1010.9	1044.3	1090.8	1130.0	1160.0	1177.8	1182.4	1173.7	1153.1
7°	974.8	983.2	1005.3	1040.4	1090.3	1132.3	1164.3	1183.4	1188.5	1179.3	1157.2
7.5°	967.4	976.3	999.7	1036.6	1089.5	1134.6	1168.9	1189.0	1194.3	1184.9	1161.0
8°	960.1	969.2	994.1	1032.8	1088.8	1136.6	1173.0	1194.6	1200.5	1190.3	1164.8
8.5°	952.7	962.3	988.5	1029.0	1088.0	1138.6	1177.3	1200.2	1206.3	1195.4	1168.7
9°	945.3	955.5	982.7	1024.9	1087.3	1140.7	1181.1	1205.3	1211.9	1200.2	1172.2
9.5°	937.9	948.6	977.1	1021.1	1086.2	1142.5	1185.2	1210.4	1217.2	1205.3	1175.5
10°	930.5	941.5	971.2	1017.3	1085.2	1144.5	1188.8	1215.7	1222.6	1209.9	1178.8
10.5°	923.4	934.6	965.4	1013.5	1084.2	1146.0	1192.6	1220.3	1227.9	1214.7	1182.1
11°	915.8	927.7	959.5	1009.4	1082.9	1147.5	1196.4	1225.1	1233.0	1219.0	1185.2
11.5°	908.4	920.9	953.7	1005.3	1081.7	1149.1	1199.7	1229.7	1237.8	1223.3	1188.2
12°	901.0	913.8	947.6	1001.3	1080.4	1150.6	1203.0	1234.3	1242.4	1227.7	1191.0
12.5°	893.9	906.9	941.7	996.9	1079.1	1151.9	1206.3	1238.9	1247.0	1231.5	1193.6
13°	886.5	900.0	935.9	992.6	1077.6	1153.1	1209.4	1242.9	1251.6	1235.6	1196.1
13.5°	879.4	893.2	929.8	988.5	1075.8	1154.2	1212.4	1246.8	1255.7	1239.1	1198.7
14°	872.0	886.0	923.7	984.0	1074.0	1154.9	1215.2	1250.8	1259.7	1242.7	1201.0
14.5°	864.7	879.2	917.6	979.6	1072.2	1155.9	1218.0	1254.4	1263.5	1246.0	1203.0
15°	857.5	872.0	911.5	974.8	1070.5	1156.7	1220.5	1257.9	1267.4	1249.3	1205.0
15.5°	850.2	864.9	905.4	970.5	1068.4	1157.2	1222.8	1261.3	1270.9	1252.1	1206.8
16°	843.0	858.0	899.0	965.7	1066.4	1157.7	1225.1	1264.6	1274.2	1254.9	1208.3
16.5°	835.9	851.2	892.6	961.1	1064.1	1158.0	1227.2	1267.4	1277.3	1257.7	1209.9
17°	828.5	844.1	886.5	956.0	1061.8	1158.2	1229.2	1270.2	1280.1	1260.0	1211.1
17.5°	821.4	837.2	879.9	950.9	1059.3	1158.2	1231.0	1272.7	1282.6	1262.3	1212.2
18°	814.0	830.1	873.6	945.8	1056.7	1158.2	1232.5	1275.0	1285.2	1264.3	1213.2
18.5°	806.9	823.2	867.0	940.7	1053.9	1158.0	1233.8	1277.3	1287.2	1265.8	1213.9
19°	799.8	816.1	860.6	935.4	1051.1	1157.7	1235.0	1279.3	1289.2	1267.6	1214.4
19.5°	792.4	809.2	854.0	930.3	1048.3	1157.2	1236.1	1280.8	1291.0	1268.9	1214.7
20°	785.3	801.8	847.4	924.7	1045.3	1156.4	1236.8	1282.4	1292.5	1269.9	1215.0
20.5°	777.9	794.7	840.7	919.4	1042.2	1155.4	1237.6	1283.6	1293.8	1270.7	1214.7
21°	770.8	787.6	833.9	913.8	1038.7	1154.4	1237.8	1284.7	1294.8	1271.4	1214.4



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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°	748.7	766.2	813.8	896.5	1028.2	1150.6	1238.1	1286.2	1296.4	1271.7	1212.4
23°	741.3	759.1	806.7	890.4	1024.4	1148.8	1237.6	1286.2	1296.1	1271.2	1211.1
23.5°	733.9	752.0	800.0	884.5	1020.3	1147.0	1236.8	1285.9	1295.8	1270.7	1209.9
24°	726.5	744.6	792.9	878.4	1016.0	1145.0	1236.1	1285.4	1295.3	1269.6	1208.1
24.5°	718.9	737.0	786.1	872.0	1012.0	1142.7	1235.0	1284.7	1294.3	1268.4	1206.3
25°	711.3	729.8	778.9	865.9	1007.6	1140.2	1233.5	1283.6	1293.3	1267.1	1204.3
25.5°	703.6	722.2	772.1	859.6	1003.3	1137.6	1232.0	1282.4	1292.0	1265.3	1202.0
26°	696.0	714.8	764.9	853.2	998.5	1134.8	1230.2	1280.8	1290.3	1263.3	1199.2
26.5°	688.4	707.2	757.8	846.6	993.6	1131.5	1228.2	1279.1	1288.2	1261.0	1196.4
27°	680.2	699.8	750.4	840.0	988.8	1128.5	1225.9	1277.0	1286.2	1258.7	1193.3
27.5°	672.1	691.9	743.3	833.4	983.7	1124.9	1223.3	1274.7	1283.6	1255.9	1190.0
28°	664.2	684.3	735.9	826.5	978.4	1121.3	1220.5	1271.9	1280.8	1252.6	1186.5
28.5°	656.1	676.4	728.6	819.6	973.0	1117.5	1217.5	1269.1	1277.8	1249.5	1182.9
29°	647.7	668.5	721.2	812.8	967.7	1113.5	1214.2	1265.8	1274.2	1245.7	1178.8
29.5°	639.3	660.4	713.8	805.9	961.8	1109.1	1210.6	1262.5	1270.4	1241.9	1174.5
30°	630.9	652.2	706.2	799.0	956.2	1104.5	1206.8	1258.7	1266.3	1237.6	1169.9
30.5°	622.2	643.9	698.5	791.7	950.4	1100.0	1202.7	1254.4	1262.0	1233.3	1165.1
31°	613.3	635.7	690.9	784.5	944.3	1095.1	1198.4	1250.1	1257.4	1228.4	1160.0
31.5°	604.4	627.1	683.0	777.4	937.9	1089.8	1193.8	1245.5	1252.6	1223.3	1154.7
32°	595.3	618.7	675.4	769.8	931.8	1084.7	1189.0	1240.4	1247.3	1217.8	1149.3
32.5°	586.1	610.0	667.5	762.7	925.5	1079.1	1183.9	1235.3	1241.9	1212.2	1143.2
33°	577.2	601.1	659.6	755.0	918.8	1073.5	1178.6	1229.7	1235.8	1206.3	1136.9
33.5°	567.8	592.2	651.7	747.6	912.0	1067.4	1172.7	1223.6	1229.5	1199.4	1130.2
34°	558.6	583.3	643.6	739.8	905.1	1061.0	1166.6	1217.2	1222.8	1192.6	1122.9
34.5°	548.7	574.2	635.5	732.1	898.0	1054.7	1160.5	1210.6	1215.5	1184.4	1115.0
35°	539.3	564.7	627.3	724.2	890.6	1048.1	1153.6	1203.0	1206.8	1176.0	1106.6
35.5°	529.4	555.6	618.9	716.4	883.2	1040.7	1146.3	1194.9	1197.9	1166.4	1097.7
36°	520.0	546.2	610.5	708.5	875.6	1033.1	1138.1	1185.7	1187.7	1156.2	1089.5
36.5°	509.8	536.8	602.4	700.3	867.7	1025.4	1129.5	1175.5	1176.8	1145.8	1081.1
37°	500.1	527.1	593.7	692.4	860.1	1017.3	1120.6	1165.1	1163.6	1134.6	1072.0
37.5°	489.9	517.4	585.1	684.0	852.2	1009.9	1112.2	1153.6	1151.4	1121.6	1061.3
38°	480.3	507.5	576.4	676.4	845.1	1002.5	1102.8	1140.9	1136.9	1107.9	1049.3
38.5°	469.9	497.8	567.8	668.3	837.7	995.7	1092.3	1127.4	1122.6	1093.6	1036.4
39°	460.4	487.9	559.1	660.4	830.3	987.5	1080.6	1113.7	1107.1	1078.6	1023.1
39.5°	450.8	478.0	550.2	652.5	823.2	978.6	1068.7	1099.0	1091.3	1063.1	1008.9
40°	441.6	468.1	541.3	644.6	815.6	968.7	1055.5	1083.2	1074.5	1046.8	994.1
40.5°	431.9	458.2	532.2	636.5	807.2	957.3	1041.5	1067.4	1057.2	1030.0	978.6
41°	423.3	448.5	523.0	628.3	798.0	945.8	1027.0	1050.4	1039.7	1012.7	963.1
41.5°	414.4	438.8	514.1	619.9	788.3	933.6	1012.0	1033.3	1021.4	995.2	946.8
42°	406.3	429.2	505.0	611.3	778.2	920.6	996.4	1015.5	1003.0	977.4	930.3
42.5°	397.9	420.0	495.8	602.4	767.7	907.9	980.4	997.2	984.5	958.8	913.8
43°	389.5	411.1	486.4	593.0	756.5	894.4	963.6	978.9	965.4	940.7	897.0
43.5°	381.3	402.2	477.0	583.3	745.4	880.4	946.6	960.1	946.1	921.4	879.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	357.9	377.0	447.7	553.3	710.0	836.4	894.4	902.6	887.3	864.7	826.8
45.5°	350.8	368.9	438.1	543.4	697.5	821.4	876.1	883.5	868.0	845.6	809.0
46°	343.2	360.7	427.9	532.7	685.3	805.6	858.3	863.9	848.1	826.5	791.1
46.5°	335.8	352.8	417.7	521.7	672.9	789.9	840.2	844.6	828.5	807.2	773.3
47°	328.7	345.2	407.5	511.1	659.9	773.8	821.7	824.7	808.7	788.1	755.5
47.5°	321.5	337.3	397.1	499.9	646.7	757.8	803.1	805.4	789.6	769.3	737.5
48°	314.7	329.9	386.7	488.9	633.4	741.5	785.0	786.6	770.3	750.7	719.9
48.5°	307.8	322.6	376.7	478.0	620.2	725.3	766.5	767.2	751.5	731.9	702.4
49°	301.2	315.2	366.6	466.5	607.0	709.0	748.2	748.4	731.6	713.6	685.1
49.5°	294.3	308.1	356.9	455.4	593.2	692.4	730.1	729.1	713.0	694.7	667.8
50°	287.7	300.9	347.0	444.2	579.7	676.2	712.0	710.2	694.5	676.7	650.2
50.5°	281.1	294.1	337.3	432.7	565.8	659.9	693.5	691.7	676.2	658.6	633.2
51°	274.7	286.9	328.2	421.3	552.0	643.1	675.4	673.1	657.8	641.1	616.1
51.5°	268.6	280.3	319.0	409.6	538.5	627.3	658.1	655.3	639.8	623.5	599.8
52°	262.3	273.5	309.8	398.4	524.5	611.0	640.5	637.2	622.5	606.2	583.1
52.5°	256.2	266.9	301.2	386.9	510.8	594.5	622.7	619.2	604.4	589.2	566.5
53°	250.1	260.2	292.3	375.5	497.1	578.5	605.4	601.9	587.9	572.6	550.5
53.5°	244.2	253.9	283.6	364.3	483.3	562.7	588.4	584.8	570.3	555.8	534.7
54°	238.1	247.5	275.0	353.1	469.6	546.7	571.9	568.0	554.3	539.6	518.9
54.5°	232.5	241.4	266.9	341.9	456.1	531.2	555.1	551.3	537.3	523.5	503.7
55°	226.7	235.3	258.7	331.0	442.9	515.9	538.5	535.0	522.5	508.5	488.7
55.5°	221.1	229.2	250.8	320.0	429.7	500.1	523.0	518.9	506.0	492.7	473.9
56°	215.7	223.4	242.9	309.1	416.4	485.1	506.7	503.2	491.2	477.5	459.2
56.5°	210.1	217.5	235.6	298.7	403.7	470.9	491.2	487.7	475.2	463.0	444.9
57°	204.8	211.4	227.9	288.5	390.5	455.9	476.0	472.7	461.5	448.5	430.7
57.5°	199.7	206.1	220.8	278.0	378.3	441.4	460.7	457.6	446.2	434.2	416.9
58°	194.4	200.5	213.9	268.1	365.6	427.1	446.2	443.1	432.7	420.2	403.7
58.5°	189.5	195.1	207.1	258.5	353.3	413.4	431.9	429.2	418.2	407.0	390.2
59°	184.7	189.8	200.5	248.8	341.1	399.6	417.7	415.2	405.2	393.8	377.5
59.5°	179.9	184.7	194.1	239.4	329.2	386.4	403.5	401.4	391.5	380.6	364.5
60°	175.0	179.6	187.7	230.2	317.5	373.2	389.7	388.2	378.0	368.1	352.3
60.5°	170.4	174.5	181.6	221.6	306.0	360.2	376.7	375.2	365.6	355.9	340.1
61°	165.9	169.7	175.5	212.7	295.1	347.5	364.0	362.5	352.1	343.7	328.2
61.5°	161.3	165.1	170.2	204.3	283.9	335.3	351.3	350.0	340.1	331.7	316.7
62°	157.0	160.5	164.6	196.4	273.2	323.3	338.8	338.1	328.2	320.0	305.5
62.5°	152.6	155.9	159.2	188.5	263.0	311.6	326.6	325.9	315.7	308.6	294.6
63°	148.6	151.4	154.2	180.9	252.9	299.7	314.9	314.2	304.8	297.4	283.6
63.5°	144.5	147.0	149.1	173.2	242.4	288.2	303.2	302.7	293.1	286.4	273.5
64°	140.4	143.0	144.2	166.1	233.5	277.3	292.3	291.8	281.9	275.8	263.0
64.5°	136.4	138.6	139.7	159.2	224.4	266.6	281.4	280.8	271.7	265.6	253.1
65°	132.0	134.6	135.3	152.6	215.2	256.4	270.7	270.4	261.3	255.7	243.7
65.5°	128.0	130.5	130.8	146.3	206.1	246.2	260.2	260.2	250.8	245.7	234.3
66°	123.9	126.4	126.4	139.9	196.9	236.1	250.3	250.3	241.2	236.1	224.9



TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	111.2	114.5	114.5	122.6	171.7	208.6	222.1	222.3	214.2	209.4	199.2
68°	107.4	110.7	110.7	117.0	163.8	199.7	213.4	213.7	205.3	200.7	190.5
68.5°	103.3	106.8	106.8	111.9	156.4	190.5	204.5	204.8	196.6	192.1	182.4
69°	99.2	103.0	103.0	106.6	148.8	182.1	195.9	196.1	187.7	184.2	174.5
69.5°	95.4	99.0	99.5	102.0	141.9	173.7	187.0	187.5	179.9	176.3	166.9
70°	91.1	95.1	95.9	97.4	135.1	165.6	178.8	179.6	172.2	168.7	159.2
70.5°	87.5	91.1	92.6	93.1	128.5	158.0	170.7	171.7	164.6	161.3	152.1
71°	83.9	87.5	89.3	89.0	121.9	150.9	163.3	164.3	157.2	153.9	145.3
71.5°	80.1	84.2	86.0	85.2	115.7	143.5	155.9	157.0	149.8	146.8	138.4
72°	76.6	80.6	82.7	81.1	109.6	136.4	148.6	149.6	143.0	139.9	131.8
72.5°	73.0	77.3	79.6	77.3	103.8	129.5	141.7	142.7	136.1	133.3	125.2
73°	69.4	73.8	76.3	73.3	98.2	122.9	134.6	136.1	129.5	126.7	119.1
73.5°	65.6	70.2	73.0	70.0	92.6	116.5	128.5	129.5	123.1	120.6	112.9
74°	62.1	66.9	70.0	66.6	87.5	110.4	121.9	123.4	117.0	114.5	107.1
74.5°	58.8	63.6	66.9	63.3	82.4	104.6	115.5	117.0	110.9	108.9	101.5
75°	55.2	60.0	63.9	60.3	77.6	98.7	109.4	111.2	105.1	103.0	95.9
75.5°	51.9	57.0	60.8	57.5	72.8	93.1	103.8	105.3	99.5	97.4	90.6
76°	48.6	53.7	58.0	54.7	68.4	87.8	97.9	99.7	93.9	91.8	85.2
76.5°	45.5	50.4	54.9	51.9	64.1	82.4	92.6	94.4	88.8	86.7	80.4
77°	42.5	47.3	52.1	49.4	60.0	77.6	87.3	89.0	83.4	81.7	75.6
77.5°	39.9	44.3	49.4	47.1	56.0	72.8	82.2	83.9	78.4	76.8	70.7
78°	37.6	41.5	46.6	44.5	52.1	67.9	77.1	79.1	73.5	72.0	66.1
78.5°	35.4	38.9	43.8	42.2	48.3	63.6	72.5	74.3	68.9	67.4	61.8
79°	33.1	36.4	41.2	39.7	45.0	59.3	67.7	69.7	64.1	62.8	57.7
79.5°	31.0	34.1	38.7	37.4	41.5	54.9	63.3	65.1	59.8	58.8	53.4
80°	28.7	32.1	36.1	35.1	38.4	51.1	59.0	60.5	55.5	54.4	49.4
80.5°	27.0	29.8	33.6	33.1	35.1	47.3	54.7	56.5	51.1	50.4	45.8
81°	24.9	27.7	31.3	30.8	32.6	43.5	50.9	52.4	47.1	46.3	42.0
81.5°	22.9	25.4	29.3	28.5	29.5	39.9	46.8	48.3	43.0	42.5	38.4
82°	20.9	23.4	27.0	26.5	27.0	36.6	43.2	44.5	39.2	38.9	34.9
82.5°	19.1	21.4	24.9	24.4	24.4	33.3	39.4	40.7	35.4	35.4	31.5
83°	17.0	19.3	22.9	22.4	22.1	30.3	36.1	37.1	31.8	31.8	28.5
83.5°	15.0	17.3	20.9	20.6	20.1	27.5	32.6	33.6	28.0	28.5	25.7
84°	13.2	15.5	18.8	18.6	18.1	24.9	29.5	30.3	24.7	25.4	22.9
84.5°	11.4	13.5	16.8	16.8	15.8	22.1	26.2	27.0	21.1	22.4	20.1
85°	9.7	11.7	14.8	14.8	13.7	19.6	23.7	23.9	17.8	19.3	17.3
85.5°	8.1	9.7	13.0	13.0	12.0	17.0	20.9	21.1	14.5	16.3	14.5
86°	6.6	8.1	10.9	11.2	10.2	14.5	18.1	18.3	10.9	13.2	11.7
86.5°	5.1	6.9	9.4	9.4	8.6	12.5	15.3	15.3	8.1	10.9	9.4
87°	3.8	5.3	7.6	7.9	7.1	10.2	12.5	12.5	6.6	8.6	7.1
87.5°	2.5	3.8	6.1	6.4	5.6	8.1	10.2	9.9	5.1	6.6	4.8
88°	1.5	2.5	4.3	4.6	4.3	6.4	7.6	7.6	3.6	4.3	2.8
88.5°	0.8	1.5	2.8	3.1	3.1	4.6	5.6	5.1	2.0	2.0	0.8



TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-HCD8TRLWW-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	0.3	0.3	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0
0.5°	1093.1	1092.3	1088.3	1084.7	1081.4	1079.6
1°	1095.9	1092.1	1084.7	1078.3	1073.0	1071.0
1.5°	1098.7	1091.6	1080.9	1071.7	1064.6	1062.1
2°	1101.5	1091.1	1077.1	1065.4	1056.2	1052.9
2.5°	1104.3	1090.6	1073.3	1058.5	1048.1	1044.3
3°	1106.8	1089.8	1069.4	1051.9	1040.2	1035.9
3.5°	1109.1	1089.3	1065.4	1045.3	1032.6	1027.7
4°	1111.7	1088.5	1061.3	1038.9	1024.7	1020.1
4.5°	1114.0	1087.8	1057.2	1032.6	1017.3	1012.2
5°	1116.0	1087.0	1052.9	1026.5	1010.2	1004.8
5.5°	1118.0	1086.0	1048.8	1020.1	1003.0	997.2
6°	1120.1	1085.0	1044.5	1014.2	995.9	989.8
6.5°	1121.8	1083.9	1040.4	1008.1	988.8	982.4
7°	1123.6	1082.9	1036.1	1002.3	981.7	974.8
7.5°	1125.4	1081.7	1031.8	996.2	974.6	967.4
8°	1126.9	1080.4	1027.7	990.3	967.4	960.1
8.5°	1128.5	1079.1	1023.1	984.2	960.3	952.7
9°	1130.0	1077.6	1018.8	978.1	952.9	945.3
9.5°	1131.3	1076.1	1014.5	972.0	946.1	937.9
10°	1132.5	1074.5	1010.2	966.2	938.9	930.5
10.5°	1133.5	1072.7	1005.6	959.8	931.8	923.4
11°	1134.6	1071.0	1001.3	953.7	924.7	915.8
11.5°	1135.3	1069.2	996.7	947.3	917.6	908.4
12°	1136.1	1067.4	992.1	941.2	910.5	901.0
12.5°	1136.9	1065.4	987.3	934.9	903.3	893.9
13°	1137.4	1063.1	982.7	928.5	896.5	886.5
13.5°	1137.9	1061.0	977.9	922.2	889.1	879.4
14°	1138.1	1058.8	973.0	915.8	882.0	872.0
14.5°	1138.1	1056.2	968.2	909.2	874.8	864.7
15°	1138.1	1053.7	963.4	902.8	867.7	857.5
15.5°	1138.1	1051.1	958.0	896.2	860.1	850.2
16°	1137.9	1048.3	952.9	889.6	853.2	843.0
16.5°	1137.6	1045.5	947.8	883.0	846.1	835.9
17°	1137.1	1042.5	942.5	876.6	839.0	828.5
17.5°	1136.3	1039.4	936.9	869.7	831.6	821.4
18°	1135.6	1036.4	931.6	863.1	824.5	814.0
18.5°	1134.6	1032.8	926.0	856.0	817.1	806.9
19°	1133.3	1029.5	920.4	849.4	810.0	799.8
19.5°	1132.0	1025.9	914.5	842.5	802.8	792.4
20°	1130.5	1022.1	908.9	835.9	795.7	785.3
20.5°	1129.0	1018.6	902.8	828.8	788.3	777.9
21°	1127.2	1014.5	897.0	821.7	781.2	770.8

TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	<i>1120.8</i>	<i>1001.8</i>	<i>878.4</i>	<i>800.6</i>	<i>759.1</i>	<i>748.7</i>
23°	1118.0	997.5	872.0	793.7	751.7	741.3
23.5°	1115.5	992.6	865.7	786.3	744.3	733.9
24°	1112.4	988.0	859.3	779.2	737.0	726.5
24.5°	1109.4	983.0	852.7	771.8	729.3	718.9
25°	1106.1	977.9	846.1	764.7	722.0	711.3
25.5°	1102.8	972.8	839.2	757.3	714.6	703.6
26°	1099.0	967.7	832.6	749.9	706.9	696.0
26.5°	1095.1	962.3	825.7	742.6	699.1	688.4
27°	1091.1	956.5	818.9	735.2	691.4	680.2
27.5°	1086.7	950.9	811.7	727.5	683.5	672.1
28°	1082.2	945.0	804.6	719.9	675.4	664.2
28.5°	1077.6	939.2	797.5	712.3	667.8	656.1
29°	1072.7	932.8	790.4	704.9	659.6	647.7
29.5°	1067.7	926.7	783.3	697.3	651.7	639.3
30°	1062.3	920.4	775.9	689.6	643.6	630.9
30.5°	1056.7	913.8	768.2	681.5	635.2	622.2
31°	1051.1	907.1	760.9	673.9	626.8	613.3
31.5°	1045.0	900.5	753.5	666.0	618.2	604.4
32°	1039.2	893.2	745.6	658.1	609.5	595.3
32.5°	1032.6	886.3	738.0	650.2	600.9	586.1
33°	1025.9	878.9	730.1	642.1	592.2	577.2
33.5°	1018.8	871.5	722.5	633.9	583.1	567.8
34°	1011.2	863.6	714.3	625.8	574.2	558.6
34.5°	1003.6	855.8	706.4	617.7	565.2	548.7
35°	995.4	847.9	698.3	609.3	555.8	539.3
35.5°	987.8	840.5	690.4	600.9	546.7	529.4
36°	980.7	833.4	682.5	592.7	537.3	520.0
36.5°	973.8	826.2	674.6	584.1	527.6	509.8
37°	966.7	819.1	666.7	575.4	518.2	500.1
37.5°	958.8	812.0	658.9	567.0	508.5	489.9
38°	949.9	804.4	651.0	558.4	498.9	480.3
38.5°	940.0	796.2	643.1	550.0	488.9	469.9
39°	928.5	787.3	635.5	541.1	479.3	460.4
39.5°	916.6	777.7	627.1	532.7	469.3	450.8
40°	903.8	767.2	618.4	523.5	459.7	441.6
40.5°	891.1	756.3	609.5	514.9	449.5	431.9
41°	877.9	745.4	600.4	506.0	439.8	423.3
41.5°	863.9	733.7	591.2	497.1	430.2	414.4
42°	849.9	722.0	581.3	487.7	420.8	406.3
42.5°	835.7	710.0	571.4	478.5	411.9	397.9
43°	821.4	697.8	561.2	469.1	402.7	389.5
43.5°	806.2	685.3	551.0	459.4	394.0	381.3

TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	760.6	647.2	518.7	429.9	368.6	357.9
45.5°	744.8	633.9	507.8	420.0	360.7	350.8
46°	729.1	621.2	496.8	409.6	352.3	343.2
46.5°	714.1	607.5	485.6	399.6	344.7	335.8
47°	697.8	594.2	474.4	389.2	337.1	328.7
47.5°	681.8	580.5	463.0	378.8	329.4	321.5
48°	666.0	567.5	451.8	368.4	321.8	314.7
48.5°	650.7	553.8	440.3	358.2	314.4	307.8
49°	634.4	540.6	429.2	348.0	307.0	301.2
49.5°	618.7	527.1	417.7	338.3	299.9	294.3
50°	602.9	513.4	406.3	328.4	292.8	287.7
50.5°	587.9	500.1	394.8	319.0	285.7	281.1
51°	571.6	486.9	384.1	309.3	278.8	274.7
51.5°	557.1	473.7	372.7	300.4	271.9	268.6
52°	541.3	460.2	361.7	291.3	265.3	262.3
52.5°	526.6	446.7	350.5	282.4	258.7	256.2
53°	511.6	434.0	339.6	273.5	252.4	250.1
53.5°	497.1	421.3	328.7	265.3	245.7	244.2
54°	482.1	408.3	318.2	256.9	239.4	238.1
54.5°	468.1	395.6	307.8	248.5	233.3	232.5
55°	453.8	383.6	297.4	240.7	227.2	226.7
55.5°	440.1	371.2	286.9	233.0	221.3	221.1
56°	426.1	359.2	277.3	225.4	215.5	215.7
56.5°	412.6	347.0	267.4	217.8	209.6	210.1
57°	399.4	335.3	257.7	210.6	203.8	204.8
57.5°	386.7	323.6	248.0	203.8	198.2	199.7
58°	373.7	312.6	239.1	197.1	192.8	194.4
58.5°	361.5	301.7	230.2	190.5	187.5	189.5
59°	348.8	290.8	221.6	184.2	182.4	184.7
59.5°	336.8	279.8	212.9	178.1	177.3	179.9
60°	325.1	269.7	204.8	172.2	172.2	175.0
60.5°	313.7	259.2	196.6	166.4	167.4	170.4
61°	302.2	249.6	188.8	160.8	162.6	165.9
61.5°	291.5	240.1	181.4	155.4	158.0	161.3
62°	280.6	230.5	174.0	150.3	153.4	157.0
62.5°	270.2	221.3	166.6	145.3	149.1	152.6
63°	259.7	212.2	159.8	140.4	144.7	148.6
63.5°	249.8	203.5	153.1	135.6	140.2	144.5
64°	239.9	194.9	146.8	131.3	136.4	140.4
64.5°	230.5	186.7	140.4	126.9	132.3	136.4
65°	221.8	178.6	134.6	122.6	128.2	132.0
65.5°	212.9	170.9	128.7	118.5	124.4	128.0
66°	204.0	163.1	123.1	114.7	120.6	123.9



TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	178.3	141.7	107.4	103.3	108.9	111.2
68°	170.4	134.8	102.5	99.7	104.8	107.4
68.5°	162.8	128.2	97.9	96.2	101.0	103.3
69°	155.4	122.1	93.4	92.9	97.2	99.2
69.5°	148.1	116.0	89.3	89.8	93.4	95.4
70°	140.9	109.9	85.2	86.5	89.8	91.1
70.5°	134.3	104.3	81.1	83.4	86.2	87.5
71°	127.7	98.7	77.1	80.1	82.7	83.9
71.5°	121.1	93.4	73.3	76.8	79.1	80.1
72°	115.0	88.5	69.7	73.8	75.6	76.6
72.5°	108.9	83.9	66.1	70.7	72.0	73.0
73°	103.0	79.1	62.6	67.7	68.4	69.4
73.5°	97.4	74.3	59.5	64.6	65.1	65.6
74°	92.1	69.4	56.5	61.8	61.8	62.1
74.5°	86.7	65.1	53.7	58.8	58.5	58.8
75°	81.7	61.1	50.9	56.0	55.2	55.2
75.5°	76.8	57.0	48.1	53.2	51.9	51.9
76°	72.0	53.2	45.5	50.4	48.8	48.6
76.5°	67.7	49.6	43.0	47.6	45.5	45.5
77°	63.1	46.0	40.7	44.8	42.7	42.5
77.5°	59.0	42.7	38.4	42.2	39.7	39.9
78°	54.9	39.4	36.4	39.4	37.1	37.6
78.5°	50.9	36.4	34.1	36.9	34.6	35.4
79°	47.3	33.3	31.8	34.6	32.3	33.1
79.5°	43.5	30.5	29.8	32.1	30.3	31.0
80°	39.9	27.7	27.7	29.5	28.0	28.7
80.5°	36.6	25.2	25.7	27.5	25.9	27.0
81°	33.6	22.9	23.7	25.2	23.9	24.9
81.5°	30.5	20.6	21.6	23.1	21.6	22.9
82°	27.5	18.3	19.8	21.1	19.6	20.9
82.5°	24.9	16.3	18.1	19.1	17.8	19.1
83°	22.6	14.5	16.3	17.3	15.8	17.0
83.5°	20.1	12.7	14.2	15.3	13.7	15.0
84°	17.6	10.9	12.7	13.5	12.0	13.2
84.5°	15.0	9.2	10.9	11.7	10.2	11.4
85°	12.5	7.9	9.2	9.9	8.6	9.7
85.5°	10.4	6.4	7.6	8.4	7.1	8.1
86°	8.4	5.1	6.1	6.9	5.6	6.6
86.5°	6.4	3.6	4.6	5.1	4.3	5.1
87°	4.6	2.5	3.1	3.6	3.1	3.8
87.5°	3.1	1.3	1.8	2.3	2.0	2.5
88°	1.3	0.5	0.5	1.0	1.3	1.5
88.5°	0.3	0.0	0.0	0.3	0.5	0.8



TEST NUMBER: P776188

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-HCD8TRLWW-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



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Cooper Lighting Solutions Photometric Lab
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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°	763.4	780.5	827.3	907.9	1035.4	1153.4	1238.1	1285.4	1295.6	1271.7	1213.9
22°	756.0	773.6	820.4	902.3	1031.8	1152.1	1238.1	1285.9	1295.8	1271.7	1213.2



44°	373.4	393.8	467.3	573.6	733.7	865.9	929.8	941.2	926.2	902.8	861.9
44.5°	365.8	385.1	457.6	563.7	722.2	851.4	912.0	921.9	907.4	883.7	844.6



66.5°	119.6	122.6	122.4	133.8	187.7	226.7	240.4	240.4	231.7	226.9	216.5
67°	115.5	118.5	118.3	128.0	179.6	217.8	231.0	231.0	222.8	218.3	207.8



89°	0.3	0.8	1.3	1.8	2.0	2.8	3.3	2.5	0.5	0.3	0.0
89.5°	0.0	0.3	0.3	0.5	1.0	1.3	1.3	0.5	0.0	0.0	0.0

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21.5°	1125.2	1010.4	890.9	814.8	773.8	763.4
22°	1122.9	1006.1	884.8	807.7	766.5	756.0



44°	791.4	672.6	540.3	449.8	385.4	373.4
44.5°	775.4	659.9	529.4	440.1	377.0	365.8

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66.5°	195.4	155.7	117.8	110.9	116.5	119.6
67°	186.5	148.3	112.4	107.1	112.7	115.5

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Scaled Data Report



89°	0.0	0.0	0.0	0.0	0.3	0.3
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)