

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: P776010

Luminaire Tested: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B009)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K
Description: 4 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.1 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.14 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

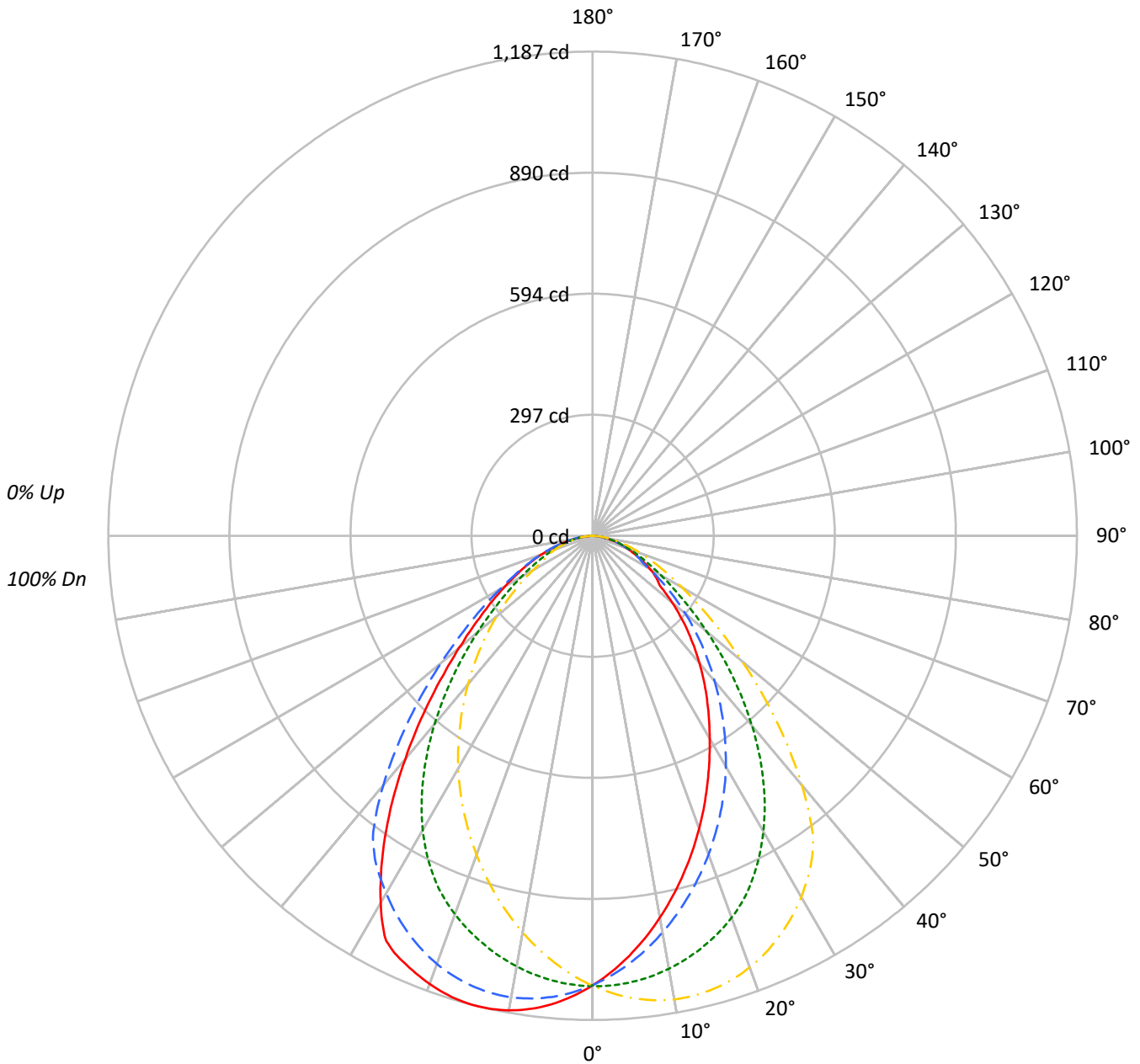
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88					88			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	138762	138762	138762	138762
5°	130550	138749	145634	138382
10°	121466	137721	150973	137005
15°	111919	135957	154575	134915
20°	102253	133404	156560	132199
25°	92564	128862	157717	127987
30°	83457	121617	151015	121022
35°	75066	111984	135613	111154
40°	66930	99853	117283	98933
45°	58591	86017	99152	85483
50°	49750	71560	83562	72030
55°	43005	58671	71485	60207
60°	40901	48704	62321	50969
65°	36657	41124	55120	44013
70°	32785	35398	48571	38599
75°	28980	30488	41671	34134
80°	22829	25438	32323	29859
85°	11263	18483	15450	24547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 225°
 Vertical Angle: 45°
 Luminance: 113034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	4.9
10°-20°	290.0	13.6
20°-30°	418.8	19.6
30°-40°	450.6	21.1
40°-50°	373.9	17.5
50°-60°	251.6	11.8
60°-70°	152.3	7.1
70°-80°	77.0	3.6
80°-90°	17.3	0.8
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°	812.5	38.1
0°-40°	1263.1	59.2
0°-60°	1888.6	88.5
0°-90°	2135.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1103	1103	1103	1103	1103	
5°	1033	1098	1153	1095	1033	96
15°	859	1044	1186	1036	859	240
25°	667	928	1136	922	667	306
35°	489	729	883	724	489	305
45°	329	483	557	480	329	254
55°	196	267	326	274	196	179
65°	123	138	185	148	123	123
75°	60	63	86	70	60	63
85°	8	13	11	17	8	12
90°	0	0	0	0	0	



TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6
0.5°	1096.1	1096.1	1097.3	1099.7	1104.3	1106.0	1107.5	1108.2	1108.2	1107.2	1105.8
1°	1089.8	1090.3	1092.9	1097.3	1104.3	1108.2	1111.6	1113.5	1114.0	1112.6	1109.7
1.5°	1083.3	1084.2	1088.3	1094.6	1104.1	1110.1	1115.5	1118.6	1119.6	1117.4	1113.3
2°	1076.7	1078.2	1083.5	1091.7	1103.6	1112.1	1119.1	1123.7	1124.9	1122.3	1117.2
2.5°	1069.7	1071.6	1078.4	1088.8	1103.1	1113.8	1122.7	1128.3	1130.0	1127.1	1120.6
3°	1062.9	1065.3	1073.6	1085.7	1102.4	1115.5	1126.1	1132.9	1135.1	1131.5	1123.7
3.5°	1055.6	1058.6	1068.2	1082.5	1101.7	1116.7	1129.3	1137.5	1139.7	1135.8	1126.9
4°	1048.4	1052.0	1062.7	1079.1	1100.5	1118.1	1132.4	1141.6	1144.3	1139.9	1129.8
4.5°	1040.9	1044.7	1057.1	1075.5	1099.5	1119.1	1135.3	1145.5	1148.7	1143.8	1132.2
5°	1033.4	1038.0	1051.5	1071.9	1098.3	1120.1	1138.0	1149.4	1152.8	1147.5	1134.9
5.5°	1025.4	1030.7	1045.5	1068.0	1096.8	1120.8	1140.4	1153.0	1156.7	1150.8	1137.0
6°	1017.6	1023.2	1039.7	1064.1	1095.4	1121.5	1142.6	1156.4	1160.3	1154.2	1139.2
6.5°	1009.9	1015.4	1033.6	1060.0	1093.7	1121.8	1144.8	1159.3	1163.7	1157.1	1141.2
7°	1001.6	1008.2	1027.3	1056.1	1091.7	1122.0	1146.7	1162.2	1167.1	1159.8	1142.8
7.5°	993.1	1000.2	1020.8	1051.5	1089.8	1122.0	1148.4	1164.9	1170.0	1162.5	1144.3
8°	985.2	992.4	1014.5	1047.2	1087.6	1122.0	1149.9	1167.6	1172.6	1164.9	1145.5
8.5°	976.7	984.4	1007.9	1042.6	1085.2	1121.8	1151.1	1169.7	1175.3	1166.8	1146.5
9°	968.0	976.4	1001.1	1038.0	1082.8	1121.3	1152.3	1171.7	1177.5	1168.8	1147.5
9.5°	959.2	968.0	994.1	1032.9	1080.4	1120.6	1153.3	1173.4	1179.4	1170.5	1148.2
10°	950.5	959.7	987.3	1028.0	1077.7	1119.8	1154.0	1175.1	1181.4	1171.9	1148.7
10.5°	941.6	951.5	980.3	1022.9	1074.8	1118.9	1154.5	1176.5	1182.8	1173.1	1149.1
11°	932.8	943.0	973.3	1017.9	1071.9	1117.9	1154.7	1177.5	1184.3	1174.1	1149.1
11.5°	923.9	934.5	966.0	1012.3	1068.7	1116.7	1154.7	1178.5	1185.2	1174.8	1148.9
12°	914.4	926.1	958.5	1007.0	1065.6	1115.2	1154.7	1179.2	1186.2	1175.3	1148.7
12.5°	905.5	917.1	951.2	1001.4	1062.2	1113.8	1154.5	1179.4	1186.9	1175.8	1148.2
13°	896.5	908.4	943.7	995.8	1058.8	1112.1	1153.7	1179.7	1187.2	1175.8	1147.5
13.5°	887.1	899.6	936.2	990.2	1055.2	1110.1	1153.0	1179.7	1187.4	1175.5	1146.5
14°	877.8	890.9	928.2	984.4	1051.5	1108.0	1152.1	1179.4	1187.4	1175.1	1145.3
14.5°	868.4	882.0	920.5	978.4	1047.7	1106.0	1151.1	1178.9	1186.9	1174.3	1143.8
15°	859.0	872.5	912.7	972.3	1043.5	1103.6	1149.6	1178.2	1186.4	1173.6	1142.4
15.5°	849.5	863.6	905.0	966.3	1039.4	1101.2	1148.2	1177.2	1185.7	1172.6	1140.7
16°	840.1	854.6	897.0	960.2	1035.3	1098.3	1146.5	1176.0	1184.8	1171.4	1138.7
16.5°	830.9	845.4	888.7	953.9	1030.9	1095.6	1144.5	1174.8	1183.5	1170.0	1136.6
17°	821.2	836.4	880.8	947.4	1026.3	1092.5	1142.6	1173.4	1182.1	1168.0	1134.4
17.5°	811.7	826.7	872.5	940.8	1021.5	1089.3	1140.2	1171.4	1180.4	1166.1	1131.7
18°	802.0	817.5	864.5	934.3	1016.6	1085.7	1137.8	1169.3	1178.5	1163.9	1129.0
18.5°	792.6	808.3	856.3	927.5	1011.8	1082.3	1135.1	1167.1	1176.3	1161.5	1126.1
19°	782.9	798.9	847.8	920.5	1006.7	1078.7	1132.2	1164.6	1174.1	1159.1	1123.2
19.5°	773.0	789.4	839.6	913.7	1001.4	1074.5	1129.0	1162.0	1171.7	1156.2	1120.1
20°	763.5	780.2	830.9	906.7	996.1	1070.7	1125.9	1159.1	1169.0	1153.3	1116.7
20.5°	753.8	770.8	822.6	899.4	990.5	1066.3	1122.5	1155.9	1166.1	1150.1	1112.8
21°	744.1	761.3	814.1	892.1	984.7	1061.9	1118.9	1152.8	1163.2	1146.7	1109.2



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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°	715.1	733.0	788.2	869.9	965.5	1047.7	1107.0	1141.9	1153.3	1135.6	1096.6
23°	705.1	723.3	779.3	861.9	958.8	1042.1	1102.6	1138.0	1149.9	1131.7	1092.2
23.5°	695.7	714.1	770.8	854.1	951.2	1036.5	1098.0	1133.9	1146.2	1127.6	1087.6
24°	686.0	704.4	761.8	845.4	943.7	1030.5	1092.9	1130.0	1142.8	1123.5	1082.8
24.5°	676.1	695.0	753.1	837.2	936.0	1023.9	1088.1	1125.6	1139.5	1118.9	1077.7
25°	666.6	685.5	743.9	828.4	928.0	1017.1	1083.0	1121.3	1135.8	1114.5	1072.6
25.5°	657.2	675.8	735.2	819.7	920.0	1010.1	1077.9	1117.2	1131.0	1110.1	1067.0
26°	647.7	666.4	726.2	810.5	911.5	1003.1	1072.4	1113.1	1125.6	1106.0	1061.7
26.5°	638.3	657.2	717.2	801.8	902.8	995.3	1066.8	1108.7	1120.1	1101.4	1055.9
27°	628.8	647.5	708.3	792.6	893.8	987.3	1061.0	1104.1	1114.3	1096.8	1050.1
27.5°	619.6	638.3	699.3	783.4	884.6	979.3	1055.2	1098.0	1105.1	1090.8	1044.3
28°	610.2	628.8	690.1	773.9	875.4	970.9	1049.1	1092.0	1092.5	1084.5	1038.2
28.5°	601.2	619.6	681.2	764.5	866.0	962.1	1042.8	1085.9	1079.6	1078.2	1031.9
29°	592.3	610.2	671.7	754.8	856.5	953.2	1036.3	1079.1	1067.8	1071.4	1025.4
29.5°	583.1	601.5	662.5	745.3	846.6	943.7	1029.5	1068.7	1053.5	1061.0	1018.8
30°	574.3	592.5	653.1	735.4	836.9	934.0	1022.7	1055.6	1039.2	1048.4	1012.3
30.5°	565.4	583.3	643.6	725.7	826.5	924.6	1015.4	1043.0	1024.9	1035.5	1005.5
31°	556.6	573.6	634.2	715.8	816.6	914.9	1007.9	1030.9	1010.3	1023.2	998.7
31.5°	547.9	565.4	624.5	705.9	805.9	904.5	1000.2	1016.6	994.4	1009.4	991.7
32°	539.2	556.4	615.0	695.9	795.5	894.3	992.7	1002.4	979.1	995.3	984.7
32.5°	530.7	547.9	605.6	686.0	784.8	883.7	985.2	987.8	963.8	981.5	977.6
33°	522.3	539.2	596.1	675.8	773.9	873.0	977.2	973.8	947.9	967.0	970.4
33.5°	513.8	530.7	586.7	665.9	762.5	862.1	968.9	958.5	931.6	952.5	962.9
34°	505.5	522.3	577.0	655.5	751.9	851.0	960.2	943.5	915.2	937.0	954.4
34.5°	496.8	513.5	567.3	645.3	740.3	839.1	950.5	927.7	898.9	922.2	945.2
35°	488.6	504.6	557.9	634.9	728.9	827.9	940.8	912.7	882.7	906.9	935.5
35.5°	480.3	496.8	548.4	624.7	717.2	815.8	930.4	896.7	866.0	891.9	926.1
36°	472.4	488.3	539.2	614.3	705.1	804.0	919.8	881.0	849.0	876.2	916.1
36.5°	464.1	480.1	529.5	604.1	693.3	791.9	906.7	864.8	832.8	860.4	904.0
37°	455.9	471.9	520.3	593.7	681.6	779.3	891.4	849.0	815.8	845.1	889.2
37.5°	447.6	463.4	510.9	583.1	669.3	766.4	876.2	832.8	798.6	829.4	874.9
38°	439.4	455.2	501.7	572.6	656.9	753.6	861.4	816.6	781.2	813.4	860.4
38.5°	431.4	446.9	492.7	562.0	644.6	740.7	846.1	799.6	765.2	797.2	845.9
39°	423.7	438.9	483.5	551.6	632.5	727.7	829.9	784.3	748.5	781.9	829.9
39.5°	415.4	430.9	474.3	540.9	620.1	714.3	813.7	767.6	731.3	766.2	814.1
40°	407.4	422.5	465.3	530.2	607.8	700.8	797.4	750.9	713.9	749.9	797.9
40.5°	399.4	414.5	456.4	519.8	594.9	687.5	781.2	734.4	698.8	733.5	781.9
41°	391.4	406.5	447.6	509.2	582.6	673.9	764.5	719.2	682.6	718.7	765.9
41.5°	383.7	398.5	438.7	498.8	570.0	660.3	748.0	703.0	665.4	703.0	749.0
42°	375.7	390.5	430.0	488.1	557.6	646.8	731.3	686.0	649.7	686.5	732.8
42.5°	367.9	382.5	421.2	477.9	545.3	632.7	715.1	670.7	634.6	671.5	716.0
43°	360.2	374.5	412.5	467.5	532.7	619.1	698.6	655.5	618.9	656.4	700.0
43.5°	352.2	366.7	403.8	457.1	520.1	605.3	682.1	639.0	601.5	640.7	683.3



TEST NUMBER: P776010

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	329.2	343.2	378.4	426.3	483.3	563.9	633.0	593.7	557.1	596.6	635.1
45.5°	321.4	335.5	369.9	416.2	470.9	550.3	616.2	577.0	542.8	580.6	619.1
46°	314.2	328.0	361.7	406.2	458.8	536.8	600.0	562.7	530.0	565.6	603.2
46.5°	306.2	320.2	353.2	396.0	446.7	523.0	584.5	549.1	515.5	553.3	588.1
47°	298.7	312.5	344.9	386.4	434.6	509.4	568.8	533.9	499.7	538.7	572.4
47.5°	291.2	304.7	336.5	376.4	422.7	495.8	552.8	517.9	488.6	523.0	557.1
48°	283.9	297.2	328.7	366.7	410.8	482.5	536.8	506.0	476.5	510.6	541.9
48.5°	276.1	289.5	320.5	357.0	399.4	469.4	522.5	492.5	462.2	498.3	528.1
49°	268.9	282.2	312.5	347.8	388.1	456.4	507.7	477.2	449.6	484.0	513.3
49.5°	261.6	274.7	304.5	338.4	376.9	443.5	492.5	463.9	438.9	469.9	498.8
50°	254.1	267.2	296.5	329.0	365.5	430.2	477.7	452.0	426.8	458.8	484.2
50.5°	246.6	259.7	288.7	319.7	354.9	417.8	464.4	438.7	413.2	446.4	471.6
51°	239.6	252.4	281.0	311.0	344.2	405.0	450.1	424.4	404.0	431.7	457.8
51.5°	232.3	245.1	273.2	302.1	334.0	393.1	436.0	414.5	394.1	421.7	444.3
52°	225.3	237.9	265.7	293.3	323.6	380.5	423.7	402.8	381.3	410.6	431.2
52.5°	218.3	230.6	258.2	284.9	313.4	368.9	410.8	389.0	372.1	398.0	420.0
53°	211.7	223.3	251.0	276.4	303.8	356.8	397.3	379.1	363.1	386.1	406.5
53.5°	205.4	216.3	243.4	268.2	294.6	345.4	384.9	369.2	352.7	376.9	393.9
54°	201.5	209.5	236.2	259.9	285.1	333.8	373.3	357.5	342.5	365.8	382.7
54.5°	198.9	202.7	229.2	251.9	276.1	322.7	361.4	346.9	334.8	353.9	371.8
55°	196.0	196.4	222.1	244.4	267.4	312.0	349.3	338.2	325.8	345.7	359.7
55.5°	193.3	190.4	215.3	236.9	258.9	301.1	339.1	328.2	315.9	336.2	348.8
56°	190.2	187.2	208.3	229.6	250.7	290.9	328.0	317.8	308.8	324.8	338.6
56.5°	187.0	184.6	201.5	222.4	242.7	281.2	316.8	309.8	300.9	316.8	328.0
57°	184.1	181.7	195.0	215.3	234.7	271.5	307.1	300.9	291.6	308.6	317.3
57.5°	180.7	178.8	188.5	208.3	227.5	262.1	297.5	291.2	285.1	298.7	308.6
58°	177.6	175.6	182.4	201.8	219.9	253.4	287.0	284.1	277.8	290.7	298.7
58.5°	173.9	172.7	176.1	195.5	213.2	244.7	278.3	276.1	269.4	283.4	289.0
59°	170.0	169.3	170.0	189.2	206.6	236.4	269.4	266.9	262.3	274.7	280.5
59.5°	166.4	166.2	164.0	182.9	200.1	228.2	260.2	260.4	254.8	266.9	271.8
60°	162.5	162.8	158.4	177.1	193.5	220.4	251.9	253.1	247.6	260.2	262.6
60.5°	158.4	159.1	152.6	171.0	187.0	212.9	243.9	244.9	240.8	251.9	254.8
61°	154.5	155.5	147.3	165.7	180.5	205.9	235.4	238.6	233.8	244.7	247.1
61.5°	150.7	151.9	142.7	160.1	174.6	199.1	228.2	231.3	227.2	237.9	238.8
62°	146.6	148.0	138.1	154.8	169.1	192.1	220.9	223.8	220.7	230.4	231.6
62.5°	142.7	144.1	135.4	149.7	163.5	185.1	213.2	217.5	214.6	223.8	224.5
63°	138.8	140.5	132.5	144.6	157.9	179.0	206.6	211.0	208.8	217.5	216.8
63.5°	134.9	136.6	129.8	139.8	152.8	173.0	200.1	204.4	202.7	210.3	210.5
64°	130.8	133.0	127.2	135.2	147.8	167.1	193.8	198.1	196.9	204.2	204.2
64.5°	126.9	129.1	124.3	130.3	142.7	161.3	187.2	191.8	190.9	198.1	197.7
65°	123.1	125.5	121.4	126.0	138.1	156.0	180.7	185.5	185.1	192.1	191.4
65.5°	119.2	121.6	118.5	121.8	133.2	150.7	174.6	180.5	179.3	186.0	184.8
66°	115.3	118.0	115.5	117.5	128.6	145.3	168.8	174.2	173.7	180.2	178.8



TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	105.1	106.8	106.1	105.6	115.8	130.6	151.6	157.9	157.5	163.5	161.6
68°	101.7	103.4	102.7	102.0	111.7	126.0	146.3	152.6	152.4	157.9	156.0
68.5°	98.6	100.0	99.6	98.3	107.6	121.6	141.0	147.3	147.0	152.6	150.4
69°	95.4	96.7	96.7	94.7	103.7	117.2	135.6	142.2	142.2	147.3	145.1
69.5°	92.3	93.5	93.5	91.3	99.8	112.6	130.8	137.1	137.1	142.2	139.8
70°	89.1	90.4	90.1	88.2	96.2	108.5	125.7	132.0	132.0	137.1	134.9
70.5°	86.2	86.7	87.2	85.0	92.3	104.4	120.9	127.4	127.4	132.0	129.8
71°	83.3	84.1	84.3	82.1	88.9	100.5	116.3	122.3	122.6	127.4	125.0
71.5°	80.4	81.1	81.1	79.0	85.3	96.4	111.4	117.7	117.7	122.3	120.1
72°	77.3	78.2	78.0	76.1	81.9	92.5	106.8	112.9	112.9	117.5	115.5
72.5°	74.4	75.3	75.1	72.9	78.5	88.9	102.5	108.3	108.3	112.6	110.7
73°	71.5	72.4	71.9	70.2	75.3	85.0	98.1	103.9	103.7	108.3	106.3
73.5°	68.3	69.5	69.0	67.6	71.9	81.4	93.7	99.3	99.1	103.4	101.7
74°	65.4	66.4	65.9	65.2	68.8	78.0	89.4	94.7	94.5	98.8	97.4
74.5°	62.5	63.5	63.2	63.0	65.6	74.4	85.3	90.4	90.1	94.5	93.0
75°	59.6	60.6	60.6	60.6	62.7	71.0	81.1	86.2	85.7	90.1	88.9
75.5°	56.7	57.7	57.7	58.1	59.6	67.8	77.0	81.9	81.4	85.5	84.5
76°	53.8	54.7	54.7	55.5	56.7	64.4	73.4	77.5	77.0	81.4	80.4
76.5°	50.9	51.8	52.1	53.0	53.8	61.0	69.3	73.2	72.7	77.0	76.3
77°	48.2	48.9	49.4	50.6	51.1	57.9	65.6	69.3	68.8	72.9	72.4
77.5°	45.3	46.0	46.8	48.0	48.2	54.7	61.8	65.2	64.4	68.6	68.6
78°	42.6	43.1	44.1	45.5	45.5	51.6	58.1	61.3	60.3	64.7	64.7
78.5°	39.7	40.5	41.4	43.1	42.9	48.4	54.5	57.2	56.4	60.6	61.0
79°	37.1	37.5	39.0	40.5	40.2	45.5	51.1	53.3	52.3	56.4	57.2
79.5°	34.2	34.6	36.3	38.0	37.8	42.6	47.7	49.2	48.4	52.6	53.5
80°	31.5	31.7	33.7	35.6	35.1	39.7	44.3	45.3	44.6	48.7	50.1
80.5°	28.8	29.1	31.2	33.2	32.7	36.8	40.9	41.7	40.7	44.8	46.5
81°	26.2	26.2	28.8	30.8	30.3	34.2	37.8	37.8	36.8	40.9	43.1
81.5°	23.5	23.5	26.4	28.3	28.1	31.5	34.6	34.2	33.2	37.3	40.0
82°	20.8	20.8	24.2	26.2	25.7	28.8	31.5	31.0	29.6	33.7	36.6
82.5°	18.2	18.7	21.8	23.7	23.5	26.4	28.6	27.6	26.2	30.3	33.7
83°	15.7	16.2	19.6	21.6	21.3	23.7	25.9	24.7	22.8	26.9	30.5
83.5°	13.1	14.0	17.7	19.4	19.1	21.6	23.3	22.0	19.4	24.2	27.6
84°	10.7	12.1	15.5	17.0	17.0	19.1	20.8	19.1	16.0	21.3	24.9
84.5°	8.7	10.2	13.6	14.8	14.8	16.7	18.2	16.2	12.6	18.7	22.5
85°	7.8	8.7	11.6	12.6	12.8	14.3	15.7	13.3	10.7	16.0	19.9
85.5°	6.5	7.5	9.7	10.4	10.7	11.9	13.1	11.4	9.2	13.1	17.4
86°	5.3	6.1	8.0	8.2	8.7	9.7	10.9	9.4	7.8	11.1	14.8
86.5°	4.4	4.8	6.1	6.3	6.8	7.5	8.5	7.8	6.5	9.4	12.4
87°	3.1	3.4	4.4	4.4	4.8	5.3	6.3	5.8	5.1	7.8	9.9
87.5°	2.2	2.2	2.4	2.7	2.9	3.4	4.1	4.1	3.9	5.8	7.8
88°	1.2	1.0	1.0	0.7	1.2	1.7	2.2	2.7	2.7	4.1	5.6
88.5°	0.5	0.2	0.2	0.2	0.2	0.5	0.7	1.2	1.2	2.4	3.4



TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0



TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6
0.5°	1104.3	1103.8	1101.2	1098.8	1097.1	1096.1
1°	1106.3	1103.6	1098.5	1094.2	1091.3	1089.8
1.5°	1108.2	1103.1	1095.9	1089.3	1085.2	1083.3
2°	1109.9	1102.4	1092.7	1084.7	1078.9	1076.7
2.5°	1111.4	1101.7	1089.6	1079.4	1072.4	1069.7
3°	1112.8	1100.7	1086.4	1074.3	1066.1	1062.9
3.5°	1114.0	1099.5	1083.0	1069.0	1059.5	1055.6
4°	1115.0	1098.3	1079.4	1063.6	1052.5	1048.4
4.5°	1115.7	1096.8	1075.8	1057.6	1045.5	1040.9
5°	1116.4	1095.4	1072.1	1052.0	1038.2	1033.4
5.5°	1116.9	1093.4	1068.2	1046.0	1031.2	1025.4
6°	1117.4	1091.7	1064.1	1039.9	1023.7	1017.6
6.5°	1117.7	1089.8	1059.8	1033.6	1016.2	1009.9
7°	1117.7	1087.6	1055.4	1027.8	1008.7	1001.6
7.5°	1117.4	1085.4	1051.0	1021.2	1000.9	993.1
8°	1117.2	1083.0	1046.4	1014.7	992.9	985.2
8.5°	1116.7	1080.4	1041.8	1008.2	984.9	976.7
9°	1116.0	1077.7	1037.0	1001.4	976.7	968.0
9.5°	1115.2	1075.0	1031.9	994.4	968.7	959.2
10°	1114.3	1072.1	1026.8	987.3	960.4	950.5
10.5°	1113.1	1069.0	1021.7	980.6	952.2	941.6
11°	1111.8	1065.8	1016.4	973.3	943.7	932.8
11.5°	1110.4	1062.4	1011.1	966.0	935.0	923.9
12°	1108.7	1058.8	1005.5	958.8	926.5	914.4
12.5°	1107.0	1055.4	999.9	951.2	917.8	905.5
13°	1105.1	1051.8	994.4	943.7	909.1	896.5
13.5°	1102.6	1047.9	988.5	936.2	900.4	887.1
14°	1100.7	1044.0	983.0	928.7	891.4	877.8
14.5°	1098.3	1039.9	976.9	921.0	882.4	868.4
15°	1095.6	1035.5	970.9	913.0	873.5	859.0
15.5°	1092.9	1031.4	964.8	905.2	864.3	849.5
16°	1090.0	1027.1	958.8	897.2	855.3	840.1
16.5°	1087.1	1022.5	952.5	889.5	846.4	830.9
17°	1083.7	1017.9	946.2	881.5	837.2	821.2
17.5°	1080.4	1013.0	939.6	873.2	827.9	811.7
18°	1077.0	1008.2	933.3	865.0	818.7	802.0
18.5°	1073.3	1003.1	926.5	857.0	809.3	792.6
19°	1069.5	997.8	919.8	848.5	800.1	782.9
19.5°	1065.6	992.7	913.0	840.5	791.1	773.0
20°	1061.5	987.1	906.2	832.3	781.7	763.5
20.5°	1056.9	981.5	899.2	823.8	772.5	753.8
21°	1052.5	975.7	891.9	815.4	763.0	744.1

TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1038.0	957.5	870.1	790.2	734.9	715.1
23°	1032.9	951.0	862.3	781.7	725.2	705.1
23.5°	1027.3	944.2	855.1	773.2	716.3	695.7
24°	1021.7	936.7	847.3	764.5	706.8	686.0
24.5°	1015.9	929.7	839.3	756.0	697.4	676.1
25°	1009.9	921.7	831.1	747.3	687.7	666.6
25.5°	1003.6	913.9	823.1	738.6	678.7	657.2
26°	996.8	905.5	814.6	729.8	669.3	647.7
26.5°	989.8	897.2	805.9	721.1	659.8	638.3
27°	982.5	889.0	797.2	712.4	650.6	628.8
27.5°	974.7	880.0	788.2	703.4	641.4	619.6
28°	966.5	870.6	779.0	694.5	632.0	610.2
28.5°	958.3	861.9	770.1	685.8	622.8	601.2
29°	949.8	852.4	760.8	677.0	613.8	592.3
29.5°	940.8	842.7	751.6	668.1	604.9	583.1
30°	932.1	832.8	742.0	658.9	595.9	574.3
30.5°	922.9	822.6	732.8	649.9	586.9	565.4
31°	913.2	812.2	722.8	640.7	578.0	556.6
31.5°	903.0	801.5	713.1	631.5	569.0	547.9
32°	892.9	791.1	703.2	622.5	560.5	539.2
32.5°	882.4	780.2	693.5	613.1	551.8	530.7
33°	871.5	768.8	683.3	603.9	543.1	522.3
33.5°	860.6	757.7	673.2	594.7	534.6	513.8
34°	849.0	746.6	663.0	585.2	526.1	505.5
34.5°	837.6	734.9	652.8	575.8	517.9	496.8
35°	826.0	723.5	642.4	566.3	509.4	488.6
35.5°	814.1	711.4	632.2	557.1	501.2	480.3
36°	802.0	700.0	621.8	548.2	492.7	472.4
36.5°	789.4	688.2	611.4	539.0	484.7	464.1
37°	777.1	675.8	601.0	529.8	476.5	455.9
37.5°	764.5	664.0	590.6	520.3	468.5	447.6
38°	751.6	651.4	580.1	511.1	460.0	439.4
38.5°	738.6	639.2	569.5	502.1	452.0	431.4
39°	725.7	626.9	559.1	493.2	444.3	423.7
39.5°	712.6	614.8	548.7	484.5	436.3	415.4
40°	699.3	602.2	538.2	475.3	427.8	407.4
40.5°	685.8	589.8	527.6	466.3	420.0	399.4
41°	672.2	577.5	517.2	457.6	412.3	391.4
41.5°	658.9	565.1	506.5	448.6	404.0	383.7
42°	645.1	553.0	496.1	439.9	396.3	375.7
42.5°	632.0	540.7	485.7	431.2	388.3	367.9
43°	618.2	528.3	475.5	422.5	380.8	360.2
43.5°	604.4	516.2	465.1	413.7	372.6	352.2

TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	564.2	480.3	434.8	388.3	349.8	329.2
45.5°	550.8	468.5	424.6	380.1	341.8	321.4
46°	537.3	456.8	415.2	371.8	334.5	314.2
46.5°	524.2	445.2	405.0	363.3	326.8	306.2
47°	510.9	433.8	395.3	355.1	319.3	298.7
47.5°	498.0	422.5	385.6	346.9	311.5	291.2
48°	484.9	411.3	376.4	338.9	304.2	283.9
48.5°	472.4	400.2	367.0	330.9	296.7	276.1
49°	459.5	389.5	357.5	322.9	289.2	268.9
49.5°	447.2	378.9	348.3	314.9	281.7	261.6
50°	434.6	367.9	339.6	306.9	274.4	254.1
50.5°	422.5	357.8	330.4	299.2	267.2	246.6
51°	410.6	347.6	321.7	291.4	259.7	239.6
51.5°	399.0	337.7	313.0	283.9	252.4	232.3
52°	387.1	328.0	304.5	276.1	245.4	225.3
52.5°	375.2	318.3	296.0	268.9	238.4	218.3
53°	363.8	309.1	288.0	261.4	231.1	211.7
53.5°	352.9	300.1	279.5	254.1	223.8	205.4
54°	341.8	291.2	271.5	246.8	217.0	201.5
54.5°	331.4	282.7	264.0	239.8	210.3	198.9
55°	321.2	274.4	256.3	232.8	203.7	196.0
55.5°	311.0	266.2	249.0	226.0	197.2	193.3
56°	301.3	258.5	241.5	219.2	191.1	190.2
56.5°	291.9	250.7	234.5	212.4	187.7	187.0
57°	282.9	243.2	227.5	205.9	185.1	184.1
57.5°	274.0	235.9	220.9	199.4	182.2	180.7
58°	265.5	228.9	214.4	193.1	179.3	177.6
58.5°	257.2	222.1	207.8	187.0	176.1	173.9
59°	249.0	215.6	201.5	180.9	173.0	170.0
59.5°	241.3	209.0	195.5	174.9	170.0	166.4
60°	233.8	202.5	189.4	169.1	166.7	162.5
60.5°	226.5	196.4	183.6	163.5	163.3	158.4
61°	219.5	190.4	177.8	157.9	159.9	154.5
61.5°	212.4	184.8	172.5	152.8	156.2	150.7
62°	206.1	179.0	167.1	147.8	152.4	146.6
62.5°	199.8	173.4	162.1	142.9	148.7	142.7
63°	193.5	168.1	156.7	138.6	145.1	138.8
63.5°	187.2	162.8	151.9	135.2	141.5	134.9
64°	180.9	157.5	146.8	132.5	137.6	130.8
64.5°	174.9	152.6	142.2	129.8	134.0	126.9
65°	169.3	147.8	137.6	127.2	130.3	123.1
65.5°	163.7	143.2	133.2	124.3	126.7	119.2
66°	158.4	138.3	128.9	121.4	122.8	115.3



TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	143.2	125.2	116.5	112.6	111.9	105.1
68°	138.1	120.9	112.6	109.5	108.3	101.7
68.5°	133.5	116.8	109.0	106.6	104.9	98.6
69°	128.9	112.6	105.1	103.4	101.5	95.4
69.5°	124.3	108.8	101.5	100.3	98.1	92.3
70°	119.9	104.9	98.1	97.1	95.0	89.1
70.5°	115.5	101.3	94.7	94.0	91.8	86.2
71°	111.4	97.4	91.1	90.8	88.7	83.3
71.5°	107.1	93.7	88.2	87.7	85.7	80.4
72°	103.2	90.1	85.0	84.8	82.6	77.3
72.5°	99.1	87.2	81.9	81.6	79.7	74.4
73°	95.2	83.8	79.0	78.7	76.5	71.5
73.5°	91.3	80.4	75.8	75.6	73.6	68.3
74°	87.7	76.8	72.9	72.7	70.5	65.4
74.5°	83.8	73.4	70.0	69.8	67.6	62.5
75°	80.2	70.2	67.3	66.9	64.4	59.6
75.5°	76.8	67.1	64.7	64.2	61.5	56.7
76°	73.2	63.9	62.3	61.3	58.4	53.8
76.5°	69.8	61.0	59.8	58.4	55.5	50.9
77°	66.4	57.9	57.4	55.7	52.6	48.2
77.5°	63.0	55.0	55.0	52.8	49.7	45.3
78°	59.8	52.1	52.3	50.1	46.8	42.6
78.5°	56.4	49.4	49.9	47.5	43.8	39.7
79°	53.3	46.5	47.2	44.8	40.9	37.1
79.5°	50.1	43.8	44.8	42.1	38.0	34.2
80°	47.0	41.2	42.1	39.5	35.1	31.5
80.5°	44.1	38.5	39.7	36.8	32.5	28.8
81°	41.2	35.9	37.1	34.4	29.6	26.2
81.5°	38.3	33.4	34.6	31.7	26.9	23.5
82°	35.4	31.0	32.2	29.3	24.5	20.8
82.5°	32.7	28.6	29.8	26.9	21.8	18.2
83°	30.0	26.2	27.4	24.7	19.4	15.7
83.5°	27.4	23.7	24.9	22.3	17.0	13.1
84°	24.7	21.6	22.8	20.1	14.8	10.7
84.5°	22.3	19.1	20.3	17.9	12.8	8.7
85°	19.9	17.0	17.9	15.7	10.9	7.8
85.5°	17.4	14.8	15.7	13.6	9.4	6.5
86°	15.0	12.8	13.3	11.6	8.0	5.3
86.5°	12.4	10.7	11.1	9.4	6.5	4.4
87°	10.2	8.7	9.0	7.5	5.1	3.1
87.5°	8.0	6.8	6.8	5.8	3.6	2.2
88°	5.8	4.8	4.8	3.9	2.4	1.2
88.5°	3.6	2.9	2.9	1.9	1.2	0.5



TEST NUMBER: P776010

CATALOG NUMBER: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.2	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°	734.2	751.9	805.4	884.9	978.6	1057.3	1115.0	1149.1	1160.0	1143.1	1105.1
22°	724.8	742.4	796.7	877.4	972.3	1052.5	1111.1	1145.8	1156.7	1139.5	1101.2



44°	344.7	359.0	395.3	446.9	507.7	591.5	664.9	622.5	587.9	624.2	666.6
44.5°	336.9	351.2	386.8	436.5	495.4	578.0	648.9	608.7	573.4	610.9	650.6



66.5°	111.9	114.3	112.2	113.4	124.3	140.3	162.8	168.8	168.1	174.4	173.0
67°	108.3	110.5	109.0	109.5	119.9	135.4	157.2	163.3	162.8	169.1	166.9



89°	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	1.0	1.5
89.5°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.5

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21.5°	1047.9	969.9	884.6	807.1	753.6	734.2
22°	1043.0	963.6	877.4	798.6	744.1	724.8



44°	590.8	504.3	454.9	405.3	365.3	344.7
44.5°	577.7	492.2	444.7	396.8	357.3	336.9



66.5°	153.1	134.0	124.7	118.7	119.2	111.9
67°	148.0	129.4	120.6	115.8	115.5	108.3

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89°	1.7	1.0	1.0	0.7	0.2	0.0
89.5°	0.5	0.2	0.2	0.2	0.2	0.0

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Scaled Data Report



(END OF REPORT)