

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: P776113

Luminaire Tested: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B018)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K
Description: 6 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2256.5 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

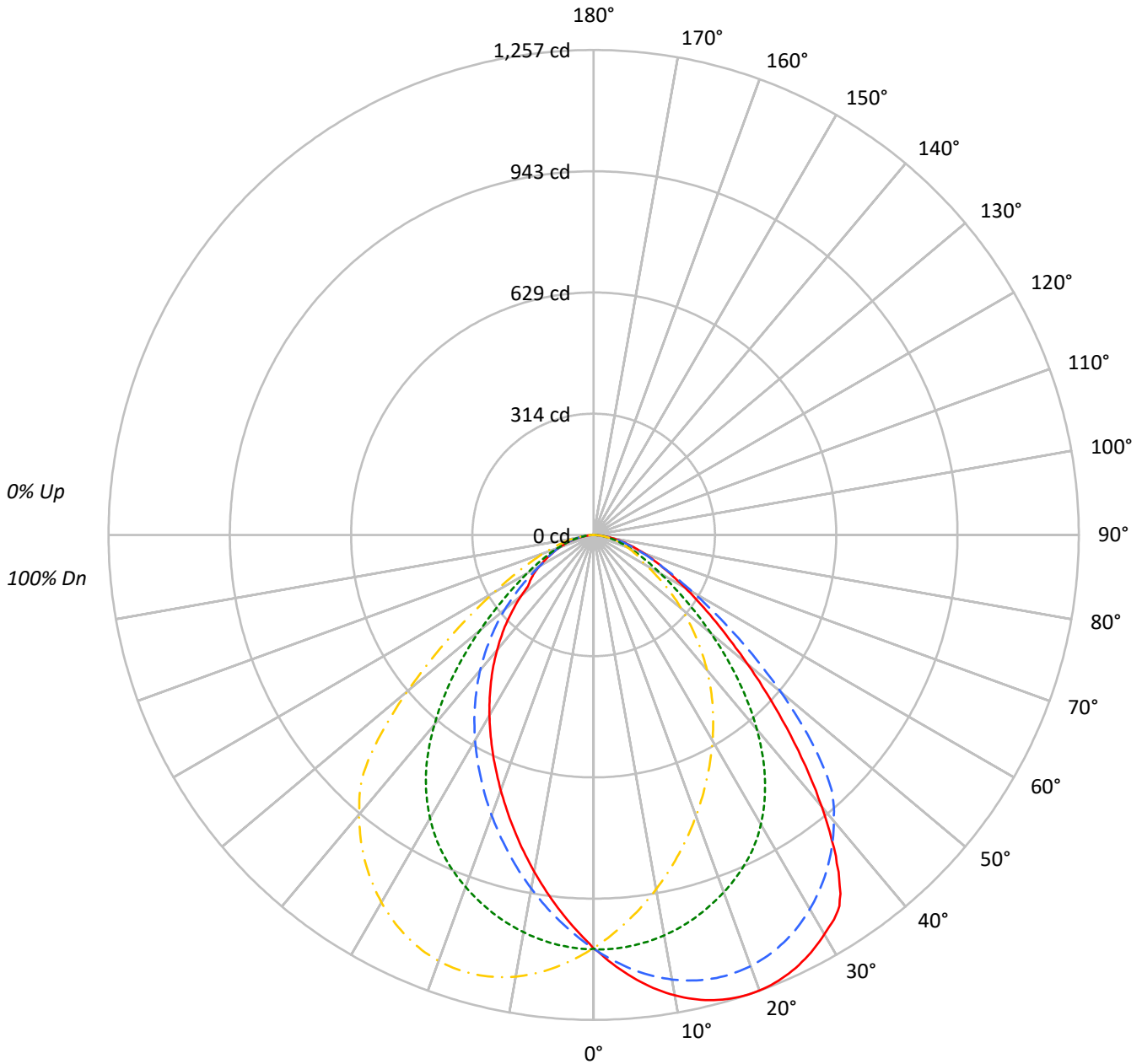
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	45								
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41								
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33								
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	46164	46164	46164	46164
5°	49751	46263	42338	46090
10°	52971	46068	38749	45722
15°	55616	45698	35356	45176
20°	57581	45155	32252	44490
25°	58828	44423	29426	43602
30°	59441	43089	26837	42164
35°	58432	40672	24362	39831
40°	51714	36972	21875	36072
45°	43074	32126	19272	31194
50°	34844	26632	16357	25795
55°	28225	21311	14855	20816
60°	23551	17283	13950	17110
65°	20029	14385	12725	14487
70°	17423	12324	11720	12551
75°	15188	10663	10630	11046
80°	12497	9149	8901	9596
85°	8052	7015	4891	7805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 50807 cd/sqm



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	4.5
10°-20°	287.5	12.7
20°-30°	426.5	18.9
30°-40°	487.4	21.6
40°-50°	423.7	18.8
50°-60°	275.7	12.2
60°-70°	157.1	7.0
70°-80°	78.7	3.5
80°-90°	18.7	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°	815.3	36.1
0°-40°	1302.7	57.7
0°-60°	2002.1	88.7
0°-90°	2256.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2256.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1072	1072	1072	1072	1072	
5°	1151	1070	980	1066	1151	112
15°	1248	1025	793	1014	1248	353
25°	1238	935	619	918	1238	570
35°	1112	774	464	758	1112	682
45°	707	528	316	512	707	546
55°	376	284	198	277	376	342
65°	197	141	125	142	197	197
75°	91	64	64	66	91	97
85°	16	14	10	16	16	21
90°	0	0	0	0	0	



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2
0.5°	1078.8	1078.8	1078.8	1077.6	1074.5	1072.2	1064.3	1061.3	1061.3	1062.6	1065.9
1°	1087.2	1086.7	1084.7	1080.9	1074.5	1068.9	1058.2	1053.1	1052.4	1054.2	1059.5
1.5°	1095.9	1094.9	1090.8	1084.2	1074.5	1065.4	1051.6	1045.0	1043.2	1045.8	1052.9
2°	1104.3	1102.7	1096.6	1087.2	1074.3	1061.8	1045.3	1036.6	1034.3	1037.6	1046.3
2.5°	1112.4	1110.1	1102.7	1090.3	1074.0	1058.0	1038.9	1028.2	1025.2	1029.0	1039.4
3°	1120.6	1117.8	1108.3	1093.1	1073.5	1054.4	1032.0	1019.8	1016.3	1020.6	1032.5
3.5°	1128.4	1125.1	1113.7	1095.9	1073.0	1050.6	1025.4	1011.4	1007.1	1011.9	1025.7
4°	1136.1	1132.3	1119.3	1098.4	1072.0	1046.3	1018.5	1003.0	998.2	1003.5	1018.8
4.5°	1143.7	1139.1	1124.4	1101.0	1071.2	1042.5	1011.9	994.1	988.8	994.6	1011.9
5°	1151.1	1146.0	1129.5	1103.5	1070.4	1038.1	1005.1	985.7	979.6	986.0	1004.8
5.5°	1158.0	1152.6	1134.5	1105.5	1069.2	1033.8	997.9	977.1	970.5	977.3	997.7
6°	1164.8	1159.0	1139.1	1107.6	1067.9	1029.2	990.8	968.4	961.3	968.4	990.3
6.5°	1171.7	1165.1	1143.7	1109.6	1066.6	1024.9	984.0	959.8	951.9	959.8	983.2
7°	1178.0	1171.2	1148.0	1111.4	1065.1	1020.6	976.8	950.9	942.5	950.9	975.8
7.5°	1184.2	1176.8	1152.4	1113.2	1063.6	1015.5	969.5	942.0	933.1	942.0	968.4
8°	1190.0	1182.4	1156.2	1114.7	1061.8	1010.9	962.1	933.3	923.9	933.1	961.1
8.5°	1195.9	1187.5	1160.0	1116.0	1060.0	1005.8	955.0	924.4	914.5	924.4	953.4
9°	1201.5	1192.8	1163.5	1117.0	1058.0	1001.0	947.6	915.8	904.8	915.3	946.0
9.5°	1206.8	1197.6	1166.9	1118.0	1055.9	996.2	940.2	906.6	895.7	906.4	938.4
10°	1211.6	1202.2	1170.2	1119.0	1053.7	990.8	932.6	897.7	886.3	897.5	930.8
10.5°	1216.5	1206.8	1173.2	1119.8	1051.6	985.7	924.9	888.8	877.1	888.6	923.2
11°	1221.0	1210.9	1175.8	1120.3	1049.1	980.4	917.3	879.9	867.7	879.4	915.5
11.5°	1225.4	1214.7	1178.6	1120.8	1046.5	974.8	909.7	871.3	858.0	870.8	907.9
12°	1229.4	1218.5	1180.8	1120.8	1043.7	969.2	902.0	861.8	848.9	861.6	900.0
12.5°	1233.2	1221.8	1182.9	1121.1	1040.9	963.6	894.4	853.2	839.7	852.7	892.4
13°	1236.6	1225.1	1184.9	1120.8	1038.1	958.3	886.5	844.3	830.3	843.5	884.5
13.5°	1239.9	1227.9	1186.7	1120.6	1034.8	952.4	878.6	835.4	820.9	834.9	876.6
14°	1242.7	1230.7	1188.2	1120.3	1031.8	946.6	871.0	826.5	811.7	825.7	868.7
14.5°	1245.5	1233.0	1189.5	1119.8	1028.5	940.7	862.9	817.3	802.3	816.8	860.8
15°	1247.7	1235.3	1190.5	1119.0	1025.2	934.6	855.0	808.4	793.2	807.9	852.9
15.5°	1250.0	1237.1	1191.5	1118.0	1021.6	928.8	847.1	799.8	784.0	799.3	844.8
16°	1251.8	1238.8	1192.0	1117.0	1018.0	922.6	839.2	790.9	774.9	790.1	836.9
16.5°	1253.3	1240.1	1192.5	1115.7	1014.5	916.5	831.3	782.0	765.9	781.5	829.0
17°	1254.6	1241.1	1192.8	1114.2	1010.4	910.2	823.2	773.1	756.8	772.6	821.1
17.5°	1255.6	1241.9	1192.8	1112.7	1006.6	904.1	815.3	764.4	747.9	763.7	813.0
18°	1256.4	1242.4	1192.5	1111.1	1002.5	898.0	807.4	755.5	738.7	755.0	804.9
18.5°	1256.9	1242.9	1192.0	1109.1	998.5	891.4	799.3	746.9	730.1	746.4	797.0
19°	1256.9	1242.9	1191.3	1107.1	994.1	884.7	791.4	738.2	721.4	737.7	789.1
19.5°	1256.9	1242.7	1190.5	1105.0	990.1	878.4	783.2	729.6	712.5	729.1	781.2
20°	1256.7	1242.2	1189.2	1102.5	985.5	872.0	775.1	720.9	703.9	720.4	773.1
20.5°	1255.9	1241.4	1188.0	1100.2	981.2	865.4	767.2	712.3	695.0	712.0	764.9
21°	1255.1	1240.4	1186.2	1097.4	976.3	858.5	759.1	703.9	686.6	703.4	757.0



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1250.5	1235.5	1180.1	1088.5	961.8	838.4	735.2	678.7	660.9	678.4	732.9
23°	1248.8	1233.5	1177.5	1085.2	957.0	831.6	727.0	670.3	652.5	670.0	725.0
23.5°	1246.5	1231.2	1174.7	1081.9	951.6	824.7	719.1	661.9	644.1	661.9	717.1
24°	1243.9	1228.4	1171.9	1078.1	946.3	817.6	711.0	653.8	636.0	653.5	709.0
24.5°	1241.1	1225.6	1168.6	1074.5	941.0	810.7	703.1	645.6	627.8	645.1	701.1
25°	1238.3	1222.6	1165.3	1070.4	935.1	803.3	695.2	637.2	619.4	637.0	692.9
25.5°	1235.0	1219.0	1161.8	1066.4	929.5	796.5	687.1	629.1	611.3	629.1	685.3
26°	1231.5	1215.7	1158.0	1061.8	923.4	789.1	679.2	620.9	603.1	620.7	677.2
26.5°	1227.7	1211.6	1153.9	1057.5	917.3	781.7	671.3	613.1	595.0	612.8	669.3
27°	1223.8	1207.8	1149.8	1052.9	910.9	774.3	663.4	604.9	587.1	604.7	661.4
27.5°	1219.8	1203.5	1145.2	1047.8	904.1	767.0	655.3	596.8	579.2	596.8	653.8
28°	1215.2	1199.2	1140.4	1042.5	897.0	759.3	647.4	588.6	571.1	588.6	645.9
28.5°	1210.6	1194.3	1135.8	1037.1	890.1	751.4	639.8	580.8	563.2	580.8	638.0
29°	1205.8	1189.2	1130.7	1031.3	882.5	743.6	631.6	572.9	555.6	572.9	630.1
29.5°	1200.7	1184.2	1125.4	1025.2	874.8	735.7	624.0	565.0	547.7	565.2	622.2
30°	1195.6	1178.8	1120.0	1018.8	866.7	727.3	615.9	557.4	539.8	557.1	614.3
30.5°	1190.3	1173.2	1114.5	1012.2	858.5	718.9	608.0	549.2	531.9	549.5	606.7
31°	1185.2	1167.6	1108.6	1005.3	850.1	710.7	600.1	541.3	524.3	541.8	598.8
31.5°	1180.1	1161.8	1102.5	997.7	841.5	702.1	592.2	533.9	516.7	533.9	590.9
32°	1175.0	1155.7	1096.4	990.1	832.6	693.4	584.3	526.1	509.0	526.3	583.0
32.5°	1168.9	1149.8	1089.8	981.9	823.2	684.8	576.4	518.2	501.4	518.7	575.4
33°	1162.0	1143.7	1083.4	973.5	813.5	675.9	568.5	510.8	493.8	511.1	567.5
33.5°	1153.6	1137.9	1076.8	964.9	804.1	667.0	560.7	503.2	486.1	503.7	559.6
34°	1140.7	1131.7	1069.9	956.0	794.2	657.8	552.5	495.5	478.7	495.8	551.8
34.5°	1129.2	1125.1	1062.6	946.3	784.3	648.7	544.6	487.7	471.1	488.4	543.9
35°	1111.7	1117.2	1055.2	936.4	773.8	639.3	536.7	480.3	463.5	480.8	536.2
35.5°	1095.4	1108.3	1047.5	926.2	763.4	630.1	529.1	472.6	456.1	473.4	528.4
36°	1079.6	1095.9	1039.7	915.5	752.5	620.7	521.0	465.3	448.7	466.0	520.5
36.5°	1059.3	1083.7	1031.5	904.8	741.3	611.3	512.8	457.6	441.1	458.4	512.3
37°	1042.7	1067.6	1023.1	893.6	730.1	601.6	504.9	450.0	433.7	450.8	504.7
37.5°	1022.6	1050.6	1014.5	881.7	718.6	591.9	496.8	442.6	426.3	443.4	496.6
38°	1001.8	1036.4	1005.8	869.5	706.4	582.3	488.9	435.0	419.0	436.0	488.7
38.5°	982.9	1016.3	996.7	857.3	695.0	572.6	480.8	427.6	411.6	428.6	480.8
39°	960.5	999.2	987.8	844.8	682.8	562.9	472.6	420.2	404.0	421.3	473.2
39.5°	941.2	980.9	978.1	831.6	670.6	553.0	464.5	412.6	396.6	413.9	465.0
40°	920.1	959.8	968.4	817.8	657.8	542.9	456.4	405.2	389.2	406.5	456.9
40.5°	896.7	943.0	958.5	804.1	645.4	532.9	448.5	397.9	382.1	399.1	449.0
41°	877.6	921.4	949.4	790.1	632.7	523.0	440.1	390.5	374.7	391.7	441.4
41.5°	854.5	901.0	939.2	775.4	619.7	512.8	431.9	383.1	367.6	384.6	433.0
42°	833.6	881.9	928.0	760.4	606.7	502.9	424.1	375.7	360.2	377.2	425.1
42.5°	812.8	859.8	916.0	745.6	593.7	492.7	416.2	368.6	352.8	369.9	417.4
43°	789.1	841.2	903.6	730.3	580.5	482.8	408.0	361.2	345.5	362.7	409.6
43.5°	770.8	820.1	887.3	714.6	567.3	472.6	399.6	353.8	338.3	355.4	401.4



TEST NUMBER: P776113

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	707.4	757.0	834.4	667.2	527.6	442.1	375.7	332.0	316.5	333.8	378.0
45.5°	685.1	738.2	816.8	651.0	514.1	432.2	367.8	324.6	309.3	326.6	370.1
46°	668.0	717.9	796.7	634.9	501.1	422.0	359.7	317.5	302.0	319.3	362.2
46.5°	646.1	696.2	776.4	618.4	487.9	412.1	351.8	310.1	294.6	312.1	354.1
47°	628.1	678.7	757.6	601.9	474.7	402.2	343.7	302.7	287.5	304.8	346.5
47.5°	609.5	656.8	735.7	585.6	461.5	392.3	335.8	295.6	280.3	297.9	338.6
48°	588.6	639.8	715.8	569.3	448.5	382.6	328.2	288.2	273.2	290.5	330.7
48.5°	573.6	620.4	695.5	552.8	435.5	372.4	320.3	281.1	266.1	283.4	322.8
49°	552.5	600.6	673.6	536.5	422.5	362.7	312.1	273.7	258.7	276.3	315.2
49.5°	538.3	584.3	654.5	520.0	410.1	353.1	304.5	266.6	251.6	269.1	307.3
50°	520.2	563.5	633.2	503.7	397.6	343.7	296.6	259.5	244.2	262.0	299.7
50.5°	503.7	548.7	612.8	487.4	384.6	334.0	289.0	252.1	237.1	254.9	292.0
51°	489.2	529.4	593.0	471.1	372.4	324.6	281.3	245.2	230.2	247.8	284.1
51.5°	470.6	514.1	571.9	455.3	360.7	315.7	273.7	237.8	222.8	240.6	276.8
52°	458.9	498.1	553.8	439.6	349.0	306.3	266.1	230.7	216.2	233.8	269.1
52.5°	441.6	480.8	533.9	424.1	337.1	297.4	259.0	223.6	212.9	226.7	261.8
53°	429.7	467.0	515.1	408.8	326.1	288.5	251.3	218.0	209.9	220.8	254.4
53.5°	415.7	448.7	496.6	393.8	314.9	279.6	244.0	212.4	206.8	215.0	247.0
54°	401.7	436.5	477.5	379.0	304.5	271.2	236.8	207.1	204.0	209.1	239.9
54.5°	390.2	420.0	460.9	364.8	294.1	262.5	229.7	201.5	201.0	203.3	233.0
55°	376.0	407.3	442.6	351.0	283.9	254.4	222.6	196.1	197.9	197.4	225.9
55.5°	366.3	393.5	426.9	337.8	274.2	246.5	215.7	193.1	194.6	194.3	219.0
56°	352.1	379.5	409.6	324.8	264.6	238.4	208.8	190.0	191.3	191.6	212.4
56.5°	343.2	367.8	394.3	312.4	255.7	230.7	201.7	186.7	188.0	188.2	205.8
57°	331.2	353.3	379.0	300.4	246.8	223.1	194.9	183.7	184.4	185.2	199.2
57.5°	321.8	343.2	363.5	288.7	238.4	216.2	188.8	180.4	180.9	181.9	192.3
58°	311.6	329.4	349.5	277.8	230.2	209.1	182.1	177.1	177.3	178.6	186.2
58.5°	301.4	320.0	335.3	267.1	222.3	202.0	175.8	173.7	173.5	175.3	179.6
59°	292.5	307.3	322.6	257.2	215.0	195.1	169.7	170.4	169.7	172.0	173.5
59.5°	282.4	298.4	309.1	247.3	207.8	188.8	163.6	166.9	165.9	168.4	167.6
60°	273.5	286.9	297.1	238.1	200.7	182.6	157.7	163.6	162.0	164.8	161.8
60.5°	264.3	278.3	284.9	229.2	193.3	176.5	152.1	159.8	158.2	161.3	156.2
61°	255.7	267.6	274.0	220.5	186.7	170.7	147.0	156.4	154.4	157.7	150.8
61.5°	247.5	259.0	262.5	212.4	180.4	164.8	143.7	152.6	150.3	154.2	146.0
62°	239.6	249.5	252.9	204.5	174.3	159.5	140.9	149.1	146.5	150.3	142.5
62.5°	231.5	241.4	242.2	197.1	168.1	154.2	137.9	145.5	142.7	146.8	139.7
63°	224.4	232.5	233.0	190.0	162.6	149.1	134.8	141.7	138.9	143.0	136.6
63.5°	216.7	224.9	223.6	182.9	157.0	144.0	132.0	138.1	135.3	139.4	133.8
64°	210.1	216.5	215.0	176.3	151.6	139.1	129.0	134.6	131.8	135.6	131.0
64.5°	202.7	209.4	206.3	169.9	146.3	134.6	125.9	131.0	128.2	132.3	128.0
65°	196.6	201.7	198.4	163.8	141.2	130.0	122.9	127.4	124.9	128.7	125.2
65.5°	190.0	195.1	190.8	158.2	136.3	125.7	120.1	124.1	121.6	125.2	122.1
66°	183.9	187.7	183.4	152.4	131.5	121.3	116.8	120.8	118.3	121.6	119.1



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	165.6	168.7	162.6	136.3	118.0	109.4	107.6	110.9	108.6	111.7	109.9
68°	160.0	162.3	155.9	131.3	113.7	105.6	104.6	107.9	105.6	108.6	106.8
68.5°	154.4	156.4	150.1	126.4	109.6	102.0	101.5	104.8	102.3	105.3	103.8
69°	148.8	150.8	143.7	121.6	105.8	98.4	98.4	101.5	99.2	102.3	100.5
69.5°	143.5	145.0	138.1	117.0	101.5	95.1	95.4	98.4	96.2	99.0	97.4
70°	138.4	139.7	132.8	112.7	97.9	91.6	92.3	95.4	93.1	95.9	94.4
70.5°	133.0	134.1	127.2	108.1	94.1	88.5	89.5	92.3	90.1	92.8	91.6
71°	128.0	129.0	122.1	104.0	90.6	85.2	86.5	89.3	87.3	89.8	88.5
71.5°	123.1	123.9	117.0	100.0	87.0	82.2	83.4	86.5	84.2	86.7	85.5
72°	118.3	118.8	111.9	95.9	83.4	79.1	80.6	83.4	81.1	83.7	82.4
72.5°	113.5	114.0	107.1	92.1	80.1	76.1	77.8	80.4	78.3	80.6	79.6
73°	108.6	108.9	102.5	88.5	76.8	73.3	75.0	77.3	75.3	77.6	76.8
73.5°	104.0	104.3	97.9	84.7	73.5	70.7	72.2	74.5	72.5	74.8	73.8
74°	99.5	99.7	93.4	81.1	70.2	67.9	69.4	71.5	69.7	71.7	71.0
74.5°	94.9	95.1	89.3	77.6	67.2	65.6	66.6	68.7	66.6	68.9	68.2
75°	91.3	91.3	85.2	74.0	64.1	63.3	63.9	65.6	63.9	65.9	65.4
75.5°	87.0	87.0	81.1	70.7	61.3	61.1	61.1	62.8	61.1	63.1	62.6
76°	82.7	82.7	77.1	67.4	58.3	58.8	58.5	59.8	58.3	60.3	59.8
76.5°	78.1	78.3	73.0	64.1	55.5	56.2	55.7	57.0	55.5	57.2	57.0
77°	73.8	74.0	68.9	60.8	52.7	53.9	52.9	54.2	52.7	54.4	54.2
77.5°	70.0	70.2	65.1	57.5	49.9	51.4	50.1	51.4	49.9	51.6	51.4
78°	65.9	66.1	61.6	54.4	47.1	49.1	47.6	48.3	46.8	48.8	48.8
78.5°	61.8	62.3	57.7	51.4	44.5	46.6	44.8	45.5	44.0	46.0	46.0
79°	58.0	58.3	54.2	48.3	42.0	44.0	42.2	42.7	41.2	43.0	43.2
79.5°	54.2	54.7	50.6	45.5	39.4	41.7	39.7	39.9	38.7	40.2	40.4
80°	50.4	50.9	47.1	42.5	36.9	39.2	37.1	37.1	35.9	37.4	37.9
80.5°	46.8	47.3	43.8	39.7	34.3	36.9	34.6	34.1	33.1	34.6	35.4
81°	43.2	43.8	40.4	36.9	32.1	34.3	32.1	31.5	30.5	31.8	32.6
81.5°	39.7	40.2	37.1	34.1	29.8	32.1	29.5	28.5	27.7	29.0	30.0
82°	36.1	36.6	34.1	31.5	27.2	29.8	27.0	25.9	25.2	26.5	27.7
82.5°	32.8	33.3	31.0	29.0	25.2	27.5	24.7	23.4	22.4	23.9	25.2
83°	29.5	30.0	28.2	26.5	22.9	25.2	22.4	20.9	19.8	21.1	23.1
83.5°	25.9	26.5	25.2	23.9	20.9	22.9	20.1	18.6	17.3	18.6	20.9
84°	22.6	23.1	22.6	21.4	18.6	20.6	18.1	16.0	14.8	16.0	18.8
84.5°	19.3	20.1	20.1	19.1	16.5	18.3	15.8	13.5	12.2	13.5	16.5
85°	16.3	17.0	17.8	16.8	14.2	16.0	13.5	11.4	9.9	11.2	14.5
85.5°	13.0	14.0	15.3	14.5	12.2	13.7	11.4	9.7	8.4	9.4	12.5
86°	10.7	11.7	13.0	12.2	10.4	11.7	9.4	8.1	7.1	7.9	10.4
86.5°	8.9	9.7	10.7	10.2	8.4	9.4	7.4	6.6	5.9	6.4	8.6
87°	7.4	7.9	8.6	7.9	6.6	7.4	5.6	5.1	4.3	5.1	6.9
87.5°	5.6	5.9	6.6	5.9	4.8	5.3	3.6	3.3	3.1	3.6	4.8
88°	4.1	4.1	4.6	3.8	3.1	3.3	1.8	1.8	1.8	2.0	3.1
88.5°	2.3	2.3	2.5	1.8	1.3	1.5	0.5	0.5	0.8	0.8	1.3



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-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: P776113

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2
0.5°	1070.4	1074.3	1078.3	1076.5	1077.6	1078.8
1°	1066.6	1073.7	1081.1	1082.7	1085.2	1087.2
1.5°	1062.8	1073.2	1084.2	1088.2	1093.1	1095.9
2°	1058.7	1072.7	1086.7	1093.8	1100.7	1104.3
2.5°	1054.9	1072.0	1089.3	1099.4	1108.1	1112.4
3°	1050.6	1071.0	1091.6	1104.8	1115.5	1120.6
3.5°	1046.3	1069.9	1093.8	1110.1	1122.8	1128.4
4°	1042.0	1068.9	1095.9	1115.2	1129.7	1136.1
4.5°	1037.4	1067.6	1098.2	1120.0	1136.6	1143.7
5°	1032.8	1066.4	1100.0	1124.9	1143.2	1151.1
5.5°	1028.2	1064.6	1101.7	1129.5	1149.8	1158.0
6°	1023.4	1063.1	1103.3	1134.0	1155.9	1164.8
6.5°	1018.5	1061.3	1104.5	1138.1	1161.8	1171.7
7°	1013.7	1059.5	1106.1	1142.2	1167.6	1178.0
7.5°	1008.6	1057.5	1107.1	1146.0	1173.2	1184.2
8°	1003.5	1055.4	1108.1	1149.8	1178.6	1190.0
8.5°	998.5	1053.1	1108.9	1153.1	1183.6	1195.9
9°	993.1	1050.9	1109.6	1156.4	1188.5	1201.5
9.5°	987.8	1048.3	1110.1	1159.5	1193.3	1206.8
10°	982.4	1045.8	1110.4	1162.5	1197.6	1211.6
10.5°	976.8	1043.0	1110.6	1165.1	1201.7	1216.5
11°	971.2	1040.2	1110.6	1167.6	1205.8	1221.0
11.5°	965.6	1037.4	1110.4	1169.7	1209.6	1225.4
12°	960.0	1034.1	1110.1	1171.7	1212.9	1229.4
12.5°	954.2	1031.0	1109.9	1173.7	1216.2	1233.2
13°	948.3	1027.7	1109.1	1175.2	1219.3	1236.6
13.5°	942.2	1024.4	1108.3	1176.8	1222.1	1239.9
14°	936.1	1020.8	1107.3	1178.0	1224.3	1242.7
14.5°	930.0	1017.3	1106.3	1178.8	1226.6	1245.5
15°	923.9	1013.5	1105.0	1179.8	1228.7	1247.7
15.5°	917.8	1009.6	1103.8	1180.3	1230.2	1250.0
16°	911.7	1005.8	1102.0	1180.6	1231.7	1251.8
16.5°	905.3	1001.8	1100.2	1180.6	1232.7	1253.3
17°	898.7	997.7	1098.4	1180.3	1233.5	1254.6
17.5°	892.4	993.4	1096.4	1180.1	1234.3	1255.6
18°	886.0	989.0	1094.1	1179.6	1234.5	1256.4
18.5°	879.4	984.7	1091.6	1178.8	1234.5	1256.9
19°	873.0	980.1	1089.3	1177.5	1234.5	1256.9
19.5°	866.2	975.6	1086.5	1176.3	1234.0	1256.9
20°	859.6	971.0	1083.7	1175.0	1233.2	1256.7
20.5°	852.9	966.1	1080.6	1173.2	1232.2	1255.9
21°	846.1	961.1	1077.6	1171.2	1231.0	1255.1



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	825.5	945.8	1067.1	1164.1	1225.6	1250.5
23°	818.6	940.5	1063.3	1161.3	1223.3	1248.8
23.5°	811.5	935.1	1059.3	1158.2	1220.8	1246.5
24°	804.6	929.5	1055.2	1154.9	1218.0	1243.9
24.5°	797.2	923.7	1050.9	1151.6	1214.9	1241.1
25°	790.1	917.8	1046.5	1147.8	1211.6	1238.3
25.5°	783.0	911.7	1041.7	1144.0	1208.1	1235.0
26°	775.6	905.6	1037.1	1139.6	1204.2	1231.5
26.5°	768.2	899.2	1032.0	1135.6	1200.2	1227.7
27°	760.9	892.6	1026.9	1131.0	1196.4	1223.8
27.5°	753.2	885.5	1021.3	1126.2	1191.8	1219.8
28°	745.3	878.6	1015.8	1121.3	1187.2	1215.2
28.5°	737.7	871.3	1009.9	1116.2	1182.1	1210.6
29°	729.8	863.6	1003.5	1110.9	1177.3	1205.8
29.5°	721.7	856.0	997.2	1105.5	1171.9	1200.7
30°	713.3	848.1	990.3	1099.7	1166.6	1195.6
30.5°	705.1	839.7	983.2	1093.8	1160.7	1190.3
31°	696.8	831.6	975.8	1087.7	1154.9	1185.2
31.5°	688.4	822.9	968.2	1081.6	1149.0	1180.1
32°	680.0	814.3	960.3	1075.0	1142.7	1175.0
32.5°	671.1	805.1	951.9	1068.4	1136.6	1168.9
33°	662.4	796.2	943.5	1061.8	1130.2	1162.0
33.5°	653.8	787.1	934.6	1054.9	1123.9	1153.6
34°	644.9	777.4	925.4	1047.8	1118.0	1140.7
34.5°	635.7	767.7	916.3	1040.4	1111.7	1129.2
35°	626.8	757.8	906.6	1032.8	1104.0	1111.7
35.5°	617.9	747.1	896.4	1025.2	1095.9	1095.4
36°	608.5	736.7	886.3	1017.0	1084.9	1079.6
36.5°	599.3	725.5	875.8	1008.9	1071.7	1059.3
37°	590.2	714.3	864.6	1000.5	1059.0	1042.7
37.5°	580.8	702.6	853.2	991.8	1041.2	1022.6
38°	571.3	690.6	841.0	982.9	1026.2	1001.8
38.5°	561.2	678.7	828.3	973.5	1009.1	982.9
39°	551.5	666.5	815.6	964.6	989.5	960.5
39.5°	541.8	654.3	802.1	955.5	974.3	941.2
40°	531.9	641.8	787.8	945.8	954.2	920.1
40.5°	522.0	629.1	773.6	935.6	934.9	896.7
41°	511.8	616.1	759.1	926.2	917.1	877.6
41.5°	501.9	603.9	744.6	916.5	895.9	854.5
42°	492.0	590.9	729.6	906.4	877.1	833.6
42.5°	481.8	577.7	714.6	895.9	857.0	812.8
43°	471.9	564.7	699.0	884.7	835.6	789.1
43.5°	461.7	551.8	683.5	872.5	817.6	770.8

TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	431.7	512.3	636.0	826.5	757.0	707.4
45.5°	421.5	499.4	620.2	807.2	734.9	685.1
46°	411.3	486.4	603.9	789.3	717.4	668.0
46.5°	401.4	473.4	587.9	770.8	696.8	646.1
47°	391.7	460.7	571.9	749.7	677.9	628.1
47.5°	382.1	447.5	555.6	730.8	659.1	609.5
48°	372.2	434.7	539.5	710.2	638.0	588.6
48.5°	362.5	422.3	523.8	689.1	622.2	573.6
49°	353.1	409.6	507.7	670.0	601.9	552.5
49.5°	343.9	397.3	491.7	648.4	585.6	538.3
50°	334.3	385.1	476.0	628.3	568.3	520.2
50.5°	324.6	372.9	460.2	608.7	549.0	503.7
51°	315.7	361.2	444.7	588.1	534.2	489.2
51.5°	306.8	349.5	429.7	569.6	514.9	470.6
52°	297.9	338.6	414.9	549.5	501.4	458.9
52.5°	288.7	327.6	400.1	530.4	484.9	441.6
53°	280.3	316.7	385.4	512.6	469.1	429.7
53.5°	271.9	306.3	371.9	493.2	454.8	415.7
54°	263.5	296.4	358.2	476.2	437.8	401.7
54.5°	255.7	286.9	345.2	458.1	425.8	390.2
55°	247.5	277.3	332.5	441.6	409.3	376.0
55.5°	239.9	268.1	320.5	425.3	397.9	366.3
56°	232.5	259.2	308.8	408.5	383.1	352.1
56.5°	225.1	251.1	297.6	394.0	371.1	343.2
57°	218.5	242.7	286.7	378.5	358.7	331.2
57.5°	211.6	234.5	276.5	364.5	345.7	321.8
58°	205.0	226.9	266.6	349.8	335.0	311.6
58.5°	198.4	219.5	256.9	336.8	322.3	301.4
59°	191.6	212.4	248.0	323.8	312.9	292.5
59.5°	185.4	205.3	239.4	311.1	300.9	282.4
60°	179.6	198.7	231.0	299.2	292.3	273.5
60.5°	174.0	192.1	222.8	287.2	280.8	264.3
61°	168.4	185.7	215.0	276.5	272.7	255.7
61.5°	163.1	179.8	207.6	265.3	262.3	247.5
62°	157.7	174.0	200.5	255.7	254.4	239.6
62.5°	152.6	168.1	193.6	245.7	244.7	231.5
63°	147.8	162.6	187.0	236.3	237.1	224.4
63.5°	143.0	157.2	180.4	227.2	228.4	216.7
64°	138.4	152.1	174.0	218.8	221.1	210.1
64.5°	134.1	147.0	168.1	210.1	212.7	202.7
65°	129.7	142.2	162.3	202.2	206.1	196.6
65.5°	125.4	137.4	156.7	194.6	198.2	190.0
66°	121.3	132.8	151.1	187.2	192.1	183.9



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	109.6	119.6	135.8	166.9	172.0	165.6
68°	106.1	115.2	130.8	160.5	166.1	160.0
68.5°	102.5	111.2	126.2	154.4	160.0	154.4
69°	99.0	107.3	121.6	148.6	154.2	148.8
69.5°	95.6	103.5	117.0	142.7	148.6	143.5
70°	92.3	99.7	112.7	137.1	142.7	138.4
70.5°	89.0	95.9	108.4	131.8	137.4	133.0
71°	86.0	92.1	104.3	126.4	132.0	128.0
71.5°	82.9	88.8	100.2	121.3	126.9	123.1
72°	79.9	85.5	96.2	116.3	121.8	118.3
72.5°	76.8	82.2	92.3	111.7	116.8	113.5
73°	74.0	79.1	88.8	106.8	112.2	108.6
73.5°	71.2	75.8	85.2	102.0	107.1	104.0
74°	68.7	72.5	81.7	97.7	102.5	99.5
74.5°	65.9	69.4	78.1	93.1	97.9	94.9
75°	63.6	66.4	74.5	89.0	93.4	91.3
75.5°	61.3	63.3	71.2	85.0	89.3	87.0
76°	59.0	60.3	67.7	80.9	85.0	82.7
76.5°	56.5	57.5	64.6	76.8	80.9	78.1
77°	54.2	54.7	61.3	72.8	76.6	73.8
77.5°	51.6	51.9	58.3	68.9	72.5	70.0
78°	49.1	49.1	55.2	65.1	68.4	65.9
78.5°	46.8	46.6	51.9	61.3	64.6	61.8
79°	44.3	43.8	49.1	57.5	60.5	58.0
79.5°	41.7	41.2	46.0	53.9	56.7	54.2
80°	39.4	38.7	43.2	50.4	52.9	50.4
80.5°	36.9	36.1	40.4	47.1	49.4	46.8
81°	34.3	33.8	37.6	43.8	45.5	43.2
81.5°	32.1	31.3	34.9	40.4	42.0	39.7
82°	29.8	29.0	32.1	37.1	38.4	36.1
82.5°	27.5	26.7	29.5	34.1	35.1	32.8
83°	25.2	24.4	27.0	31.0	31.8	29.5
83.5°	22.9	22.1	24.4	28.2	28.2	25.9
84°	20.6	20.1	21.9	25.4	24.9	22.6
84.5°	18.3	17.8	19.6	22.6	21.9	19.3
85°	16.0	15.8	17.0	20.1	19.1	16.3
85.5°	13.7	13.7	14.8	17.6	16.3	13.0
86°	11.4	11.7	12.5	15.3	13.7	10.7
86.5°	9.4	9.7	10.2	12.7	11.4	8.9
87°	7.4	7.6	8.1	10.4	9.4	7.4
87.5°	5.3	5.9	6.1	8.4	7.4	5.6
88°	3.3	3.8	4.1	6.4	5.3	4.1
88.5°	1.5	2.0	1.8	4.3	3.6	2.3



TEST NUMBER: P776113

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-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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Scaled Data Report





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

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21.5°	1253.9	1238.8	1184.4	1094.6	971.7	851.7	751.2	695.5	677.9	695.0	748.9
22°	1252.3	1237.3	1182.4	1091.6	966.9	845.3	743.1	687.1	669.5	686.6	741.0



44°	747.9	798.0	871.5	699.3	554.0	462.5	391.7	346.5	331.2	348.0	393.5
44.5°	728.0	779.2	854.0	683.0	540.8	452.3	383.9	339.1	323.8	340.9	385.6



66.5°	177.6	181.6	176.0	146.8	126.9	117.3	113.7	117.5	115.0	118.3	116.0
67°	171.7	174.8	169.2	141.4	122.4	113.2	110.7	114.2	111.7	115.0	112.9



89°	0.8	0.5	0.5	0.5	0.3	0.3	0.0	0.3	0.0	0.3	0.3
89.5°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	839.2	956.2	1074.0	1169.1	1229.4	1253.9
22°	832.3	951.1	1070.7	1166.9	1227.7	1252.3



44°	451.5	538.8	667.5	857.8	795.7	747.9
44.5°	441.9	525.8	651.7	841.5	776.6	728.0



66.5°	117.3	128.2	146.0	180.4	184.7	177.6
67°	113.5	123.9	140.7	173.2	178.8	171.7

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89°	0.3	0.5	0.5	2.3	1.5	0.8
89.5°	0.0	0.0	0.0	0.5	0.3	0.0

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Scaled Data Report



(END OF REPORT)