

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: P776111

Luminaire Tested: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776111  
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-3000K  
Description: 6 INCH SQUARE MEDIUM LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2191.9 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

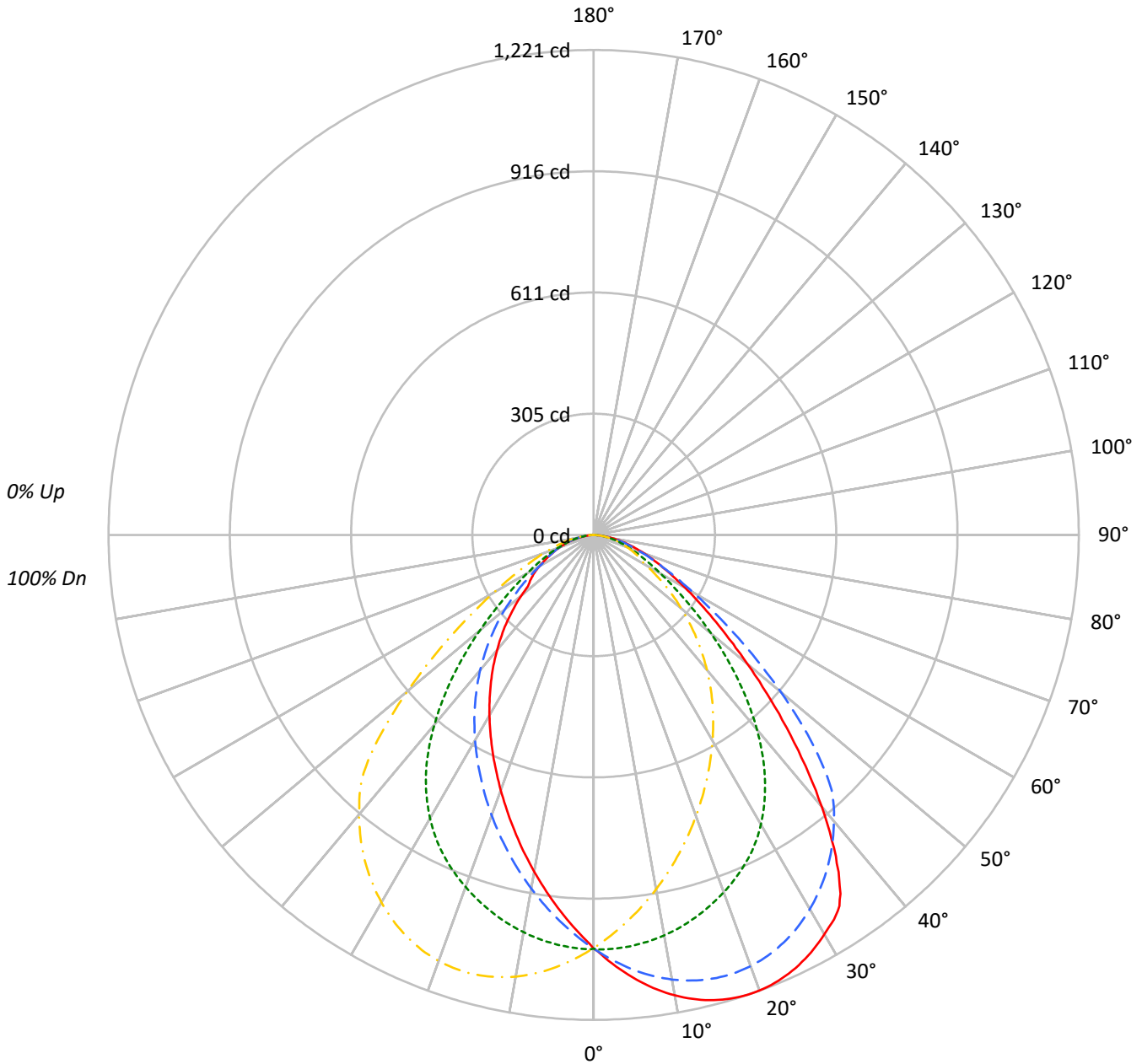
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	44842	44842	44842	44842
5°	48324	44940	41128	44767
10°	51454	44747	37638	44411
15°	54024	44387	34345	43879
20°	55931	43862	31326	43216
25°	57146	43150	28585	42352
30°	57741	41856	26066	40956
35°	56756	39510	23663	38690
40°	50236	35915	21251	35038
45°	41844	31206	18718	30305
50°	33846	25869	15888	25058
55°	27414	20703	14428	20215
60°	22871	16792	13554	16619
65°	19459	13968	12358	14069
70°	16919	11972	11380	12198
75°	14756	10364	10314	10730
80°	12125	8877	8629	9323
85°	7805	6817	4742	7558

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 49351 cd/sqm



TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.4	4.5
10°-20°	279.3	12.7
20°-30°	414.3	18.9
30°-40°	473.4	21.6
40°-50°	411.6	18.8
50°-60°	267.8	12.2
60°-70°	152.6	7.0
70°-80°	76.4	3.5
80°-90°	18.1	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°	791.9	36.1
0°-40°	1265.4	57.7
0°-60°	1944.7	88.7
0°-90°	2191.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1042	1042	1042	1042	1042	
5°	1118	1040	952	1036	1118	109
15°	1212	996	770	984	1212	343
25°	1203	908	602	892	1203	554
35°	1080	752	450	736	1080	663
45°	687	512	307	498	687	531
55°	365	276	192	269	365	332
65°	191	137	121	138	191	192
75°	89	62	62	64	89	94
85°	16	14	10	15	16	21
90°	0	0	0	0	0	



TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
0.5°	1048.0	1048.0	1048.0	1046.7	1043.8	1041.5	1033.9	1030.9	1030.9	1032.1	1035.4
1°	1056.1	1055.6	1053.6	1049.9	1043.8	1038.3	1027.9	1023.0	1022.3	1024.0	1029.2
1.5°	1064.5	1063.5	1059.6	1053.1	1043.8	1034.9	1021.5	1015.1	1013.4	1015.8	1022.7
2°	1072.7	1071.2	1065.2	1056.1	1043.5	1031.4	1015.3	1006.9	1004.7	1007.9	1016.3
2.5°	1080.6	1078.3	1071.2	1059.1	1043.3	1027.7	1009.2	998.8	995.8	999.5	1009.7
3°	1088.5	1085.8	1076.6	1061.8	1042.8	1024.2	1002.5	990.6	987.2	991.4	1003.0
3.5°	1096.1	1092.9	1081.8	1064.5	1042.3	1020.5	996.1	982.5	978.3	983.0	996.3
4°	1103.6	1099.8	1087.2	1067.0	1041.3	1016.3	989.4	974.3	969.6	974.8	989.6
4.5°	1111.0	1106.5	1092.2	1069.5	1040.5	1012.6	983.0	965.7	960.5	966.2	983.0
5°	1118.1	1113.2	1097.1	1071.9	1039.8	1008.4	976.3	957.5	951.6	957.8	976.0
5.5°	1124.8	1119.6	1102.1	1073.9	1038.6	1004.2	969.4	949.1	942.7	949.4	969.1
6°	1131.5	1125.8	1106.5	1075.9	1037.3	999.8	962.5	940.7	933.8	940.7	962.0
6.5°	1138.1	1131.7	1111.0	1077.9	1036.1	995.6	955.8	932.3	924.6	932.3	955.0
7°	1144.3	1137.7	1115.2	1079.6	1034.6	991.4	948.9	923.7	915.5	923.7	947.9
7.5°	1150.3	1143.1	1119.4	1081.3	1033.1	986.4	941.7	915.0	906.4	915.0	940.7
8°	1155.9	1148.5	1123.1	1082.8	1031.4	982.0	934.5	906.6	897.5	906.4	933.5
8.5°	1161.6	1153.5	1126.8	1084.0	1029.7	977.0	927.6	898.0	888.3	898.0	926.1
9°	1167.1	1158.7	1130.2	1085.0	1027.7	972.3	920.4	889.6	878.9	889.1	919.0
9.5°	1172.2	1163.3	1133.4	1086.0	1025.7	967.6	913.3	880.7	870.0	880.4	911.6
10°	1176.9	1167.8	1136.7	1087.0	1023.5	962.5	905.9	872.0	860.9	871.8	904.1
10.5°	1181.6	1172.2	1139.6	1087.7	1021.5	957.5	898.5	863.4	852.0	863.1	896.7
11°	1186.1	1176.2	1142.1	1088.2	1019.0	952.3	891.0	854.7	842.9	854.2	889.3
11.5°	1190.3	1179.9	1144.8	1088.7	1016.6	946.9	883.6	846.3	833.5	845.8	881.9
12°	1194.2	1183.6	1147.0	1088.7	1013.9	941.5	876.2	837.2	824.6	836.9	874.2
12.5°	1197.9	1186.8	1149.0	1089.0	1011.1	936.0	868.8	828.8	815.7	828.3	866.8
13°	1201.2	1190.0	1151.0	1088.7	1008.4	930.8	861.1	820.1	806.5	819.4	859.2
13.5°	1204.4	1192.8	1152.7	1088.5	1005.2	925.1	853.5	811.5	797.4	811.0	851.5
14°	1207.1	1195.5	1154.2	1088.2	1002.2	919.5	846.1	802.8	788.5	802.1	843.8
14.5°	1209.8	1197.7	1155.4	1087.7	999.0	913.8	838.2	793.9	779.4	793.4	836.2
15°	1212.0	1199.9	1156.4	1087.0	995.8	907.8	830.5	785.3	770.5	784.8	828.5
15.5°	1214.3	1201.6	1157.4	1086.0	992.4	902.2	822.8	776.9	761.6	776.4	820.6
16°	1216.0	1203.4	1157.9	1085.0	988.9	896.2	815.2	768.2	752.7	767.5	813.0
16.5°	1217.5	1204.6	1158.4	1083.8	985.4	890.3	807.5	759.6	744.0	759.1	805.3
17°	1218.7	1205.6	1158.7	1082.3	981.5	884.1	799.6	750.9	735.1	750.4	797.6
17.5°	1219.7	1206.3	1158.7	1080.8	977.8	878.2	792.0	742.5	726.5	741.8	789.7
18°	1220.4	1206.8	1158.4	1079.3	973.8	872.3	784.3	733.9	717.6	733.4	781.8
18.5°	1220.9	1207.3	1157.9	1077.4	969.9	865.8	776.4	725.5	709.2	725.0	774.2
19°	1220.9	1207.3	1157.2	1075.4	965.7	859.4	768.7	717.1	700.8	716.6	766.5
19.5°	1220.9	1207.1	1156.4	1073.4	961.7	853.2	760.8	708.7	692.1	708.2	758.8
20°	1220.7	1206.6	1155.2	1070.9	957.3	847.1	752.9	700.3	683.7	699.8	750.9
20.5°	1219.9	1205.9	1154.0	1068.7	953.1	840.6	745.3	691.9	675.1	691.6	743.0
21°	1219.2	1204.9	1152.2	1066.0	948.4	834.0	737.3	683.7	666.9	683.2	735.4



TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1214.7	1200.2	1146.3	1057.3	934.3	814.4	714.1	659.3	642.0	659.0	711.9
23°	1213.0	1198.2	1143.8	1054.1	929.6	807.8	706.2	651.1	633.8	650.9	704.2
23.5°	1210.8	1196.0	1141.1	1050.9	924.4	801.1	698.6	643.0	625.7	643.0	696.6
24°	1208.3	1193.2	1138.4	1047.2	919.2	794.2	690.6	635.0	617.8	634.8	688.7
24.5°	1205.6	1190.5	1135.2	1043.8	914.0	787.5	683.0	627.1	609.8	626.6	681.0
25°	1202.9	1187.6	1132.0	1039.8	908.3	780.3	675.3	619.0	601.7	618.7	673.1
25.5°	1199.7	1184.1	1128.5	1035.8	902.9	773.7	667.4	611.1	593.8	611.1	665.7
26°	1196.2	1180.9	1124.8	1031.4	897.0	766.5	659.8	603.2	585.9	602.9	657.8
26.5°	1192.5	1176.9	1120.8	1027.2	891.0	759.3	652.1	595.5	578.0	595.3	650.1
27°	1188.8	1173.2	1116.9	1022.7	884.9	752.2	644.4	587.6	570.3	587.4	642.5
27.5°	1184.8	1169.0	1112.4	1017.8	878.2	745.0	636.5	579.7	562.6	579.7	635.0
28°	1180.4	1164.8	1107.8	1012.6	871.3	737.6	628.9	571.8	554.7	571.8	627.4
28.5°	1176.0	1160.1	1103.3	1007.4	864.6	729.9	621.5	564.1	547.1	564.1	619.7
29°	1171.3	1155.2	1098.4	1001.7	857.2	722.3	613.6	556.5	539.7	556.5	612.1
29.5°	1166.3	1150.3	1093.2	995.8	849.8	714.6	606.1	548.8	532.0	549.1	604.4
30°	1161.4	1145.1	1088.0	989.6	841.9	706.5	598.2	541.4	524.3	541.1	596.7
30.5°	1156.2	1139.6	1082.5	983.2	834.0	698.3	590.6	533.5	516.7	533.7	589.3
31°	1151.2	1134.2	1076.9	976.5	825.8	690.4	582.9	525.8	509.3	526.3	581.7
31.5°	1146.3	1128.5	1070.9	969.1	817.4	682.0	575.2	518.7	501.9	518.7	574.0
32°	1141.4	1122.6	1065.0	961.7	808.8	673.6	567.6	511.0	494.4	511.3	566.4
32.5°	1135.4	1116.9	1058.6	953.8	799.6	665.2	559.9	503.3	487.0	503.8	558.9
33°	1128.8	1111.0	1052.4	945.7	790.2	656.5	552.3	496.2	479.6	496.4	551.3
33.5°	1120.6	1105.3	1046.0	937.3	781.1	647.9	544.6	488.8	472.2	489.3	543.6
34°	1108.0	1099.3	1039.3	928.6	771.4	639.0	536.7	481.4	465.0	481.6	536.0
34.5°	1096.9	1092.9	1032.1	919.2	761.8	630.1	529.0	473.7	457.6	474.4	528.3
35°	1079.8	1085.3	1025.0	909.6	751.7	621.0	521.4	466.5	450.2	467.0	520.9
35.5°	1064.0	1076.6	1017.6	899.7	741.5	612.1	514.0	459.1	443.1	459.9	513.2
36°	1048.7	1064.5	1009.9	889.3	730.9	602.9	506.1	451.9	435.9	452.7	505.6
36.5°	1028.9	1052.6	1002.0	878.9	720.1	593.8	498.2	444.5	428.5	445.3	497.7
37°	1012.9	1037.1	993.8	868.1	709.2	584.4	490.5	437.1	421.3	437.9	490.2
37.5°	993.3	1020.5	985.4	856.5	698.1	575.0	482.6	430.0	414.1	430.7	482.3
38°	973.1	1006.7	977.0	844.6	686.2	565.6	474.9	422.5	407.0	423.5	474.7
38.5°	954.8	987.2	968.1	832.7	675.1	556.2	467.0	415.4	399.8	416.4	467.0
39°	933.1	970.6	959.5	820.6	663.2	546.8	459.1	408.2	392.4	409.2	459.6
39.5°	914.3	952.8	950.1	807.8	651.4	537.2	451.2	400.8	385.2	402.0	451.7
40°	893.8	932.3	940.7	794.4	639.0	527.3	443.3	393.6	378.1	394.9	443.8
40.5°	871.0	916.0	931.1	781.1	626.9	517.7	435.6	386.5	371.1	387.7	436.1
41°	852.5	895.0	922.2	767.5	614.5	508.0	427.5	379.3	364.0	380.5	428.7
41.5°	830.0	875.2	912.3	753.2	601.9	498.2	419.6	372.1	357.1	373.6	420.6
42°	809.7	856.7	901.4	738.6	589.3	488.5	411.9	365.0	349.9	366.4	412.9
42.5°	789.5	835.2	889.8	724.3	576.7	478.6	404.3	358.0	342.7	359.3	405.5
43°	766.5	817.2	877.7	709.4	563.9	469.0	396.3	350.9	335.6	352.4	397.8
43.5°	748.7	796.7	861.9	694.1	551.0	459.1	388.2	343.7	328.6	345.2	389.9



TEST NUMBER: P776111

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	687.2	735.4	810.5	648.1	512.5	429.5	365.0	322.5	307.4	324.2	367.2
45.5°	665.4	717.1	793.4	632.3	499.4	419.8	357.3	315.3	300.5	317.3	359.5
46°	648.9	697.3	773.9	616.8	486.8	409.9	349.4	308.4	293.3	310.1	351.9
46.5°	627.6	676.3	754.2	600.7	473.9	400.3	341.7	301.2	286.1	303.2	344.0
47°	610.1	659.3	735.9	584.6	461.1	390.7	333.8	294.0	279.2	296.0	336.6
47.5°	592.1	638.0	714.6	568.8	448.2	381.0	326.2	287.1	272.3	289.4	328.9
48°	571.8	621.5	695.3	553.0	435.6	371.6	318.8	280.0	265.4	282.2	321.2
48.5°	557.2	602.7	675.6	536.9	423.0	361.8	311.1	273.0	258.5	275.3	313.6
49°	536.7	583.4	654.3	521.1	410.4	352.4	303.2	265.9	251.3	268.4	306.2
49.5°	522.9	567.6	635.8	505.1	398.3	343.0	295.8	259.0	244.4	261.4	298.5
50°	505.3	547.3	615.0	489.3	386.2	333.8	288.1	252.0	237.2	254.5	291.1
50.5°	489.3	533.0	595.3	473.4	373.6	324.4	280.7	244.9	230.3	247.6	283.7
51°	475.2	514.2	576.0	457.6	361.8	315.3	273.3	238.2	223.6	240.7	276.0
51.5°	457.1	499.4	555.5	442.3	350.4	306.7	265.9	231.0	216.5	233.8	268.8
52°	445.8	483.8	537.9	427.0	339.0	297.5	258.5	224.1	210.0	227.1	261.4
52.5°	429.0	467.0	518.7	411.9	327.4	288.9	251.5	217.2	206.8	220.2	254.3
53°	417.4	453.7	500.4	397.1	316.8	280.2	244.1	211.8	203.9	214.5	247.1
53.5°	403.8	435.9	482.3	382.5	305.9	271.6	237.0	206.3	200.9	208.8	239.9
54°	390.2	424.0	463.8	368.2	295.8	263.4	230.1	201.1	198.2	203.1	233.0
54.5°	379.1	408.0	447.7	354.3	285.6	255.0	223.1	195.7	195.2	197.4	226.3
55°	365.2	395.6	430.0	341.0	275.8	247.1	216.2	190.5	192.2	191.7	219.4
55.5°	355.8	382.3	414.6	328.1	266.4	239.4	209.5	187.5	189.0	188.8	212.8
56°	342.0	368.7	397.8	315.5	257.0	231.5	202.9	184.6	185.8	186.1	206.3
56.5°	333.3	357.3	383.0	303.4	248.3	224.1	196.0	181.4	182.6	182.9	199.9
57°	321.7	343.2	368.2	291.8	239.7	216.7	189.3	178.4	179.1	179.9	193.5
57.5°	312.6	333.3	353.1	280.5	231.5	210.0	183.3	175.2	175.7	176.7	186.8
58°	302.7	320.0	339.5	269.8	223.6	203.1	176.9	172.0	172.2	173.5	180.9
58.5°	292.8	310.9	325.7	259.5	216.0	196.2	170.7	168.8	168.5	170.3	174.5
59°	284.2	298.5	313.3	249.8	208.8	189.5	164.8	165.6	164.8	167.0	168.5
59.5°	274.3	289.8	300.2	240.2	201.9	183.3	158.9	162.1	161.1	163.6	162.8
60°	265.6	278.7	288.6	231.3	195.0	177.4	153.2	158.9	157.4	160.1	157.2
60.5°	256.7	270.3	276.8	222.6	187.8	171.5	147.8	155.2	153.7	156.7	151.7
61°	248.3	259.9	266.1	214.2	181.4	165.8	142.8	152.0	150.0	153.2	146.5
61.5°	240.4	251.5	255.0	206.3	175.2	160.1	139.6	148.3	146.0	149.7	141.8
62°	232.8	242.4	245.6	198.7	169.3	154.9	136.9	144.8	142.3	146.0	138.4
62.5°	224.9	234.5	235.2	191.5	163.3	149.7	133.9	141.3	138.6	142.6	135.7
63°	217.9	225.8	226.3	184.6	157.9	144.8	131.0	137.6	134.9	138.9	132.7
63.5°	210.5	218.4	217.2	177.7	152.5	139.9	128.2	134.2	131.5	135.4	130.0
64°	204.1	210.3	208.8	171.2	147.3	135.2	125.3	130.7	128.0	131.7	127.3
64.5°	196.9	203.4	200.4	165.1	142.1	130.7	122.3	127.3	124.5	128.5	124.3
65°	191.0	196.0	192.7	159.1	137.1	126.3	119.3	123.8	121.3	125.0	121.6
65.5°	184.6	189.5	185.3	153.7	132.4	122.1	116.6	120.6	118.1	121.6	118.6
66°	178.7	182.4	178.2	148.0	127.8	117.9	113.4	117.4	114.9	118.1	115.6





TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	160.9	163.8	157.9	132.4	114.7	106.3	104.5	107.7	105.5	108.5	106.7
68°	155.4	157.7	151.5	127.5	110.5	102.5	101.6	104.8	102.5	105.5	103.8
68.5°	150.0	152.0	145.8	122.8	106.5	99.1	98.6	101.8	99.3	102.3	100.8
69°	144.6	146.5	139.6	118.1	102.8	95.6	95.6	98.6	96.4	99.3	97.6
69.5°	139.4	140.8	134.2	113.7	98.6	92.4	92.7	95.6	93.4	96.1	94.6
70°	134.4	135.7	129.0	109.5	95.1	89.0	89.7	92.7	90.4	93.2	91.7
70.5°	129.2	130.2	123.6	105.0	91.4	86.0	87.0	89.7	87.5	90.2	89.0
71°	124.3	125.3	118.6	101.1	88.0	82.8	84.0	86.7	84.8	87.2	86.0
71.5°	119.6	120.3	113.7	97.1	84.5	79.8	81.0	84.0	81.8	84.3	83.0
72°	114.9	115.4	108.7	93.2	81.0	76.8	78.3	81.0	78.8	81.3	80.1
72.5°	110.2	110.7	104.0	89.5	77.8	73.9	75.6	78.1	76.1	78.3	77.3
73°	105.5	105.8	99.6	86.0	74.6	71.2	72.9	75.1	73.1	75.4	74.6
73.5°	101.1	101.3	95.1	82.3	71.4	68.7	70.2	72.4	70.4	72.6	71.7
74°	96.6	96.9	90.7	78.8	68.2	66.0	67.5	69.4	67.7	69.7	68.9
74.5°	92.2	92.4	86.7	75.4	65.2	63.8	64.7	66.7	64.7	67.0	66.2
75°	88.7	88.7	82.8	71.9	62.3	61.5	62.0	63.8	62.0	64.0	63.5
75.5°	84.5	84.5	78.8	68.7	59.6	59.3	59.3	61.0	59.3	61.3	60.8
76°	80.3	80.3	74.9	65.5	56.6	57.1	56.8	58.1	56.6	58.6	58.1
76.5°	75.9	76.1	70.9	62.3	53.9	54.6	54.1	55.4	53.9	55.6	55.4
77°	71.7	71.9	67.0	59.1	51.1	52.4	51.4	52.6	51.1	52.9	52.6
77.5°	68.0	68.2	63.3	55.8	48.4	49.9	48.7	49.9	48.4	50.2	49.9
78°	64.0	64.2	59.8	52.9	45.7	47.7	46.2	46.9	45.5	47.4	47.4
78.5°	60.0	60.5	56.1	49.9	43.2	45.2	43.5	44.2	42.7	44.7	44.7
79°	56.3	56.6	52.6	46.9	40.8	42.7	41.0	41.5	40.0	41.8	42.0
79.5°	52.6	53.1	49.2	44.2	38.3	40.5	38.5	38.8	37.6	39.0	39.3
80°	48.9	49.4	45.7	41.3	35.8	38.1	36.1	36.1	34.8	36.3	36.8
80.5°	45.5	46.0	42.5	38.5	33.4	35.8	33.6	33.1	32.1	33.6	34.3
81°	42.0	42.5	39.3	35.8	31.1	33.4	31.1	30.6	29.7	30.9	31.6
81.5°	38.5	39.0	36.1	33.1	28.9	31.1	28.7	27.7	26.9	28.2	29.2
82°	35.1	35.6	33.1	30.6	26.4	28.9	26.2	25.2	24.5	25.7	26.9
82.5°	31.9	32.4	30.1	28.2	24.5	26.7	24.0	22.7	21.7	23.2	24.5
83°	28.7	29.2	27.4	25.7	22.2	24.5	21.7	20.3	19.3	20.5	22.5
83.5°	25.2	25.7	24.5	23.2	20.3	22.2	19.5	18.0	16.8	18.0	20.3
84°	22.0	22.5	22.0	20.8	18.0	20.0	17.5	15.6	14.3	15.6	18.3
84.5°	18.8	19.5	19.5	18.5	16.1	17.8	15.3	13.1	11.9	13.1	16.1
85°	15.8	16.6	17.3	16.3	13.8	15.6	13.1	11.1	9.6	10.9	14.1
85.5°	12.6	13.6	14.8	14.1	11.9	13.3	11.1	9.4	8.2	9.1	12.1
86°	10.4	11.4	12.6	11.9	10.1	11.4	9.1	7.9	6.9	7.7	10.1
86.5°	8.6	9.4	10.4	9.9	8.2	9.1	7.2	6.4	5.7	6.2	8.4
87°	7.2	7.7	8.4	7.7	6.4	7.2	5.4	4.9	4.2	4.9	6.7
87.5°	5.4	5.7	6.4	5.7	4.7	5.2	3.5	3.2	3.0	3.5	4.7
88°	4.0	4.0	4.4	3.7	3.0	3.2	1.7	1.7	1.7	2.0	3.0
88.5°	2.2	2.2	2.5	1.7	1.2	1.5	0.5	0.5	0.7	0.7	1.2



TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**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: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
0.5°	1039.8	1043.5	1047.5	1045.7	1046.7	1048.0
1°	1036.1	1043.0	1050.2	1051.7	1054.1	1056.1
1.5°	1032.4	1042.5	1053.1	1057.1	1061.8	1064.5
2°	1028.4	1042.0	1055.6	1062.5	1069.2	1072.7
2.5°	1024.7	1041.3	1058.1	1068.0	1076.4	1080.6
3°	1020.5	1040.3	1060.3	1073.2	1083.5	1088.5
3.5°	1016.3	1039.3	1062.5	1078.3	1090.7	1096.1
4°	1012.1	1038.3	1064.5	1083.3	1097.4	1103.6
4.5°	1007.7	1037.1	1066.7	1088.0	1104.0	1111.0
5°	1003.2	1035.8	1068.5	1092.7	1110.5	1118.1
5.5°	998.8	1034.1	1070.2	1097.1	1116.9	1124.8
6°	994.1	1032.6	1071.7	1101.6	1122.8	1131.5
6.5°	989.4	1030.9	1072.9	1105.5	1128.5	1138.1
7°	984.7	1029.2	1074.4	1109.5	1134.2	1144.3
7.5°	979.8	1027.2	1075.4	1113.2	1139.6	1150.3
8°	974.8	1025.2	1076.4	1116.9	1144.8	1155.9
8.5°	969.9	1023.0	1077.1	1120.1	1149.8	1161.6
9°	964.7	1020.8	1077.9	1123.3	1154.5	1167.1
9.5°	959.5	1018.3	1078.3	1126.3	1159.1	1172.2
10°	954.3	1015.8	1078.6	1129.2	1163.3	1176.9
10.5°	948.9	1013.1	1078.8	1131.7	1167.3	1181.6
11°	943.4	1010.4	1078.8	1134.2	1171.3	1186.1
11.5°	938.0	1007.7	1078.6	1136.2	1175.0	1190.3
12°	932.6	1004.5	1078.3	1138.1	1178.2	1194.2
12.5°	926.9	1001.5	1078.1	1140.1	1181.4	1197.9
13°	921.2	998.3	1077.4	1141.6	1184.4	1201.2
13.5°	915.3	995.1	1076.6	1143.1	1187.1	1204.4
14°	909.3	991.6	1075.6	1144.3	1189.3	1207.1
14.5°	903.4	988.2	1074.6	1145.1	1191.5	1209.8
15°	897.5	984.4	1073.4	1146.1	1193.5	1212.0
15.5°	891.5	980.7	1072.2	1146.5	1195.0	1214.3
16°	885.6	977.0	1070.4	1146.8	1196.5	1216.0
16.5°	879.4	973.1	1068.7	1146.8	1197.4	1217.5
17°	873.0	969.1	1067.0	1146.5	1198.2	1218.7
17.5°	866.8	964.9	1065.0	1146.3	1198.9	1219.7
18°	860.7	960.7	1062.8	1145.8	1199.2	1220.4
18.5°	854.2	956.5	1060.3	1145.1	1199.2	1220.9
19°	848.0	952.1	1058.1	1143.8	1199.2	1220.9
19.5°	841.4	947.6	1055.4	1142.6	1198.7	1220.9
20°	835.0	943.2	1052.6	1141.4	1197.9	1220.7
20.5°	828.5	938.5	1049.7	1139.6	1197.0	1219.9
21°	821.9	933.5	1046.7	1137.7	1195.7	1219.2

TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	801.8	918.7	1036.6	1130.7	1190.5	1214.7
23°	795.2	913.5	1032.9	1128.0	1188.3	1213.0
23.5°	788.3	908.3	1028.9	1125.0	1185.8	1210.8
24°	781.6	902.9	1025.0	1121.8	1183.1	1208.3
24.5°	774.4	897.2	1020.8	1118.6	1180.2	1205.6
25°	767.5	891.5	1016.6	1114.9	1176.9	1202.9
25.5°	760.6	885.6	1011.9	1111.2	1173.5	1199.7
26°	753.4	879.7	1007.4	1107.0	1169.8	1196.2
26.5°	746.2	873.5	1002.5	1103.1	1165.8	1192.5
27°	739.1	867.1	997.5	1098.6	1162.1	1188.8
27.5°	731.7	860.2	992.1	1093.9	1157.7	1184.8
28°	724.0	853.5	986.7	1089.2	1153.2	1180.4
28.5°	716.6	846.3	981.0	1084.3	1148.3	1176.0
29°	708.9	838.9	974.8	1079.1	1143.6	1171.3
29.5°	701.0	831.5	968.6	1073.9	1138.4	1166.3
30°	692.9	823.8	962.0	1068.2	1133.2	1161.4
30.5°	685.0	815.7	955.0	1062.5	1127.5	1156.2
31°	676.8	807.8	947.9	1056.6	1121.8	1151.2
31.5°	668.7	799.4	940.5	1050.7	1116.2	1146.3
32°	660.5	791.0	932.8	1044.2	1110.0	1141.4
32.5°	651.9	782.1	924.6	1037.8	1104.0	1135.4
33°	643.4	773.4	916.5	1031.4	1097.9	1128.8
33.5°	635.0	764.5	907.8	1024.7	1091.7	1120.6
34°	626.4	755.1	899.0	1017.8	1086.0	1108.0
34.5°	617.5	745.7	890.1	1010.6	1079.8	1096.9
35°	608.9	736.1	880.7	1003.2	1072.4	1079.8
35.5°	600.2	725.7	870.8	995.8	1064.5	1064.0
36°	591.1	715.6	860.9	987.9	1053.9	1048.7
36.5°	582.2	704.7	850.8	980.0	1041.0	1028.9
37°	573.3	693.9	839.9	971.8	1028.7	1012.9
37.5°	564.1	682.5	828.8	963.4	1011.4	993.3
38°	555.0	670.9	816.9	954.8	996.8	973.1
38.5°	545.1	659.3	804.6	945.7	980.2	954.8
39°	535.7	647.4	792.2	937.0	961.2	933.1
39.5°	526.3	635.5	779.1	928.1	946.4	914.3
40°	516.7	623.4	765.3	918.7	926.9	893.8
40.5°	507.1	611.1	751.4	908.8	908.1	871.0
41°	497.2	598.5	737.3	899.7	890.8	852.5
41.5°	487.5	586.6	723.3	890.3	870.3	830.0
42°	477.9	574.0	708.7	880.4	852.0	809.7
42.5°	468.0	561.2	694.1	870.3	832.5	789.5
43°	458.4	548.6	679.0	859.4	811.7	766.5
43.5°	448.5	536.0	664.0	847.6	794.2	748.7

TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	419.3	497.7	617.8	802.8	735.4	687.2
45.5°	409.4	485.1	602.4	784.0	713.9	665.4
46°	399.6	472.5	586.6	766.8	696.8	648.9
46.5°	389.9	459.9	571.0	748.7	676.8	627.6
47°	380.5	447.5	555.5	728.2	658.5	610.1
47.5°	371.1	434.6	539.7	709.9	640.2	592.1
48°	361.5	422.3	524.1	689.9	619.7	571.8
48.5°	352.1	410.2	508.8	669.4	604.4	557.2
49°	343.0	397.8	493.2	650.9	584.6	536.7
49.5°	334.1	386.0	477.6	629.9	568.8	522.9
50°	324.7	374.1	462.3	610.3	552.0	505.3
50.5°	315.3	362.2	447.0	591.3	533.2	489.3
51°	306.7	350.9	431.9	571.3	518.9	475.2
51.5°	298.0	339.5	417.4	553.3	500.1	457.1
52°	289.4	328.9	403.0	533.7	487.0	445.8
52.5°	280.5	318.3	388.7	515.2	471.0	429.0
53°	272.3	307.6	374.4	497.9	455.7	417.4
53.5°	264.2	297.5	361.3	479.1	441.8	403.8
54°	256.0	287.9	347.9	462.6	425.3	390.2
54.5°	248.3	278.7	335.3	445.0	413.6	379.1
55°	240.4	269.3	323.0	429.0	397.6	365.2
55.5°	233.0	260.4	311.3	413.2	386.5	355.8
56°	225.8	251.8	300.0	396.8	372.1	342.0
56.5°	218.7	243.9	289.1	382.8	360.5	333.3
57°	212.3	235.7	278.5	367.7	348.4	321.7
57.5°	205.6	227.8	268.6	354.1	335.8	312.6
58°	199.2	220.4	259.0	339.8	325.4	302.7
58.5°	192.7	213.2	249.6	327.2	313.1	292.8
59°	186.1	206.3	240.9	314.6	303.9	284.2
59.5°	180.1	199.4	232.5	302.2	292.3	274.3
60°	174.5	193.0	224.4	290.6	283.9	265.6
60.5°	169.0	186.6	216.5	279.0	272.8	256.7
61°	163.6	180.4	208.8	268.6	264.9	248.3
61.5°	158.4	174.7	201.6	257.7	254.8	240.4
62°	153.2	169.0	194.7	248.3	247.1	232.8
62.5°	148.3	163.3	188.0	238.7	237.7	224.9
63°	143.6	157.9	181.6	229.6	230.3	217.9
63.5°	138.9	152.7	175.2	220.7	221.9	210.5
64°	134.4	147.8	169.0	212.5	214.7	204.1
64.5°	130.2	142.8	163.3	204.1	206.6	196.9
65°	126.0	138.1	157.7	196.4	200.2	191.0
65.5°	121.8	133.4	152.2	189.0	192.5	184.6
66°	117.9	129.0	146.8	181.9	186.6	178.7



TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	106.5	116.1	132.0	162.1	167.0	160.9
68°	103.0	111.9	127.0	155.9	161.4	155.4
68.5°	99.6	108.0	122.6	150.0	155.4	150.0
69°	96.1	104.3	118.1	144.3	149.7	144.6
69.5°	92.9	100.6	113.7	138.6	144.3	139.4
70°	89.7	96.9	109.5	133.2	138.6	134.4
70.5°	86.5	93.2	105.3	128.0	133.4	129.2
71°	83.5	89.5	101.3	122.8	128.2	124.3
71.5°	80.6	86.2	97.4	117.9	123.3	119.6
72°	77.6	83.0	93.4	112.9	118.4	114.9
72.5°	74.6	79.8	89.7	108.5	113.4	110.2
73°	71.9	76.8	86.2	103.8	109.0	105.5
73.5°	69.2	73.6	82.8	99.1	104.0	101.1
74°	66.7	70.4	79.3	94.9	99.6	96.6
74.5°	64.0	67.5	75.9	90.4	95.1	92.2
75°	61.8	64.5	72.4	86.5	90.7	88.7
75.5°	59.6	61.5	69.2	82.5	86.7	84.5
76°	57.3	58.6	65.7	78.6	82.5	80.3
76.5°	54.9	55.8	62.8	74.6	78.6	75.9
77°	52.6	53.1	59.6	70.7	74.4	71.7
77.5°	50.2	50.4	56.6	67.0	70.4	68.0
78°	47.7	47.7	53.6	63.3	66.5	64.0
78.5°	45.5	45.2	50.4	59.6	62.8	60.0
79°	43.0	42.5	47.7	55.8	58.8	56.3
79.5°	40.5	40.0	44.7	52.4	55.1	52.6
80°	38.3	37.6	42.0	48.9	51.4	48.9
80.5°	35.8	35.1	39.3	45.7	47.9	45.5
81°	33.4	32.9	36.6	42.5	44.2	42.0
81.5°	31.1	30.4	33.9	39.3	40.8	38.5
82°	28.9	28.2	31.1	36.1	37.3	35.1
82.5°	26.7	25.9	28.7	33.1	34.1	31.9
83°	24.5	23.7	26.2	30.1	30.9	28.7
83.5°	22.2	21.5	23.7	27.4	27.4	25.2
84°	20.0	19.5	21.3	24.7	24.2	22.0
84.5°	17.8	17.3	19.0	22.0	21.3	18.8
85°	15.6	15.3	16.6	19.5	18.5	15.8
85.5°	13.3	13.3	14.3	17.0	15.8	12.6
86°	11.1	11.4	12.1	14.8	13.3	10.4
86.5°	9.1	9.4	9.9	12.4	11.1	8.6
87°	7.2	7.4	7.9	10.1	9.1	7.2
87.5°	5.2	5.7	5.9	8.2	7.2	5.4
88°	3.2	3.7	4.0	6.2	5.2	4.0
88.5°	1.5	2.0	1.7	4.2	3.5	2.2



TEST NUMBER: P776111

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3000K

**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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Scaled Data Report





21.5°	1218.0	1203.4	1150.5	1063.3	943.9	827.3	729.7	675.6	658.5	675.1	727.5
22°	1216.5	1201.9	1148.5	1060.3	939.2	821.1	721.8	667.4	650.4	666.9	719.8



44°	726.5	775.2	846.6	679.3	538.2	449.2	380.5	336.6	321.7	338.0	382.3
44.5°	707.2	756.9	829.5	663.5	525.3	439.3	372.9	329.4	314.6	331.1	374.6



66.5°	172.5	176.4	171.0	142.6	123.3	113.9	110.5	114.2	111.7	114.9	112.7
67°	166.8	169.8	164.3	137.4	118.9	110.0	107.5	110.9	108.5	111.7	109.7



89°	0.7	0.5	0.5	0.5	0.2	0.2	0.0	0.2	0.0	0.2	0.2
89.5°	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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21.5°	815.2	928.9	1043.3	1135.7	1194.2	1218.0
22°	808.5	923.9	1040.0	1133.4	1192.5	1216.5



44°	438.6	523.4	648.4	833.2	772.9	726.5
44.5°	429.2	510.8	633.1	817.4	754.4	707.2



66.5°	113.9	124.5	141.8	175.2	179.4	172.5
67°	110.2	120.3	136.6	168.3	173.7	166.8

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89°	0.2	0.5	0.5	2.2	1.5	0.7
89.5°	0.0	0.0	0.0	0.5	0.2	0.0

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Scaled Data Report



(END OF REPORT)