

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: P776215

Luminaire Tested: HCDJBL1525CSD-HCD8TSQMB-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B024-HCD8TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQMB-2500lm-2700K
Description: 8 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

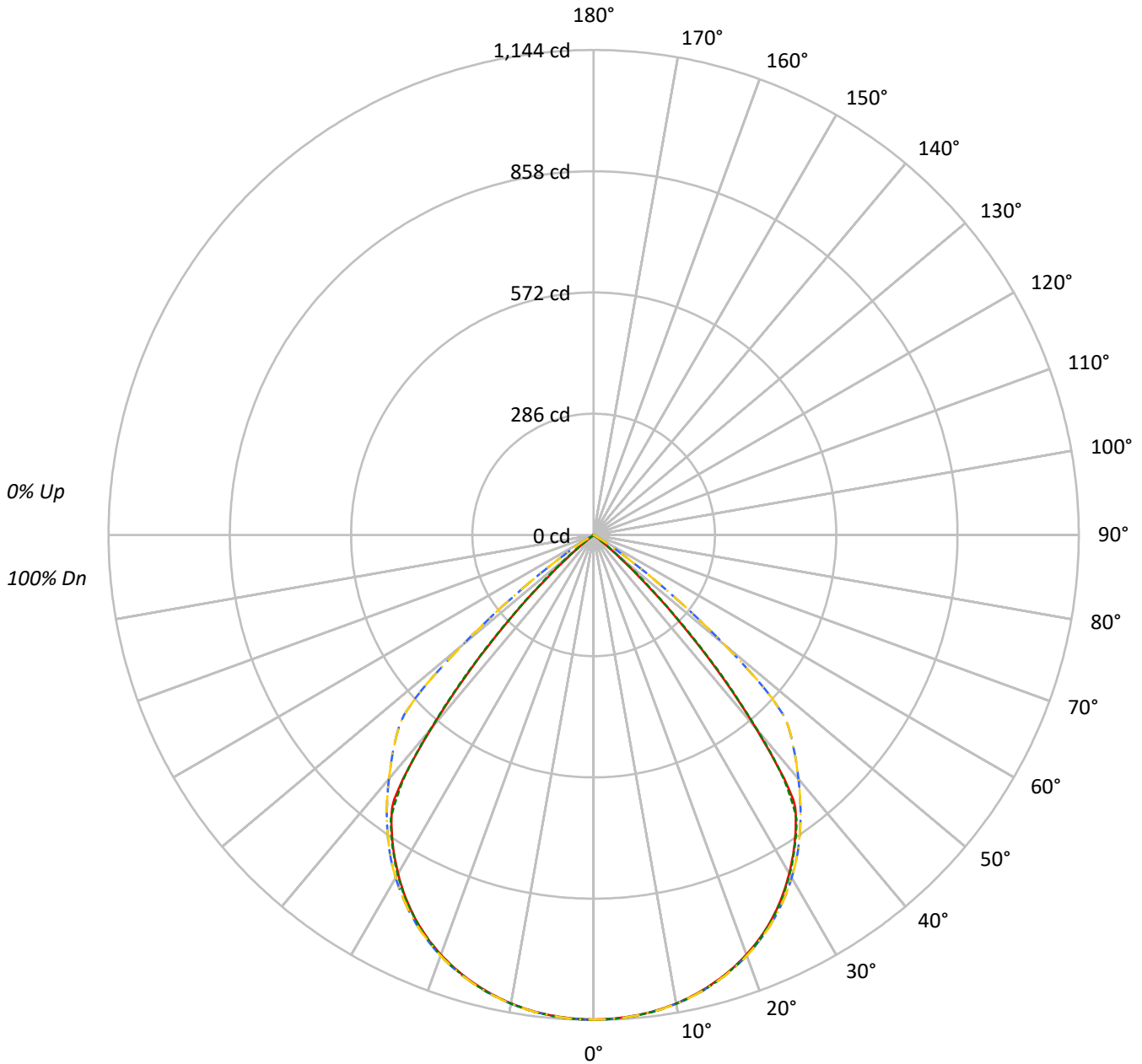
Lumens per Lamp: N/A
Luminaire Lumens: 1776.8 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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	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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92						92													
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84						84													
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76						76													
4	93	85	78	73	91	84	78	73	81	76	72	79	75	71	77	74	70	69						69													
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64	62						62													
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57						57													
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52						52													
8	72	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	47						47													
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44						44													
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40						40													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27417	27417	27417	27417
5°	27387	27404	27387	27404
10°	27321	27338	27321	27338
15°	27163	27188	27163	27188
20°	26882	26908	26882	26908
25°	26381	26412	26381	26412
30°	25537	25589	25537	25589
35°	24331	24401	24331	24401
40°	18649	18809	18649	18809
45°	9247	9485	9247	9485
50°	2033	2477	2033	2477
55°	29	42	29	42
60°	24	34	24	34
65°	28	28	28	28
70°	14	14	14	14
75°	19	19	19	19
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22150 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	6.1
10°-20°	308.9	17.4
20°-30°	459.9	25.9
30°-40°	520.2	29.3
40°-50°	332.0	18.7
50°-60°	47.1	2.7
60°-70°	0.5	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	876.9	49.4
0°-40°	1397.1	78.6
0°-60°	1776.1	100.0
0°-90°	1776.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1143	1143	1143	1143	1143	
5°	1138	1138	1138	1138	1138	108
15°	1094	1095	1094	1095	1094	309
25°	997	998	997	998	997	458
35°	831	834	831	834	831	504
45°	273	280	273	280	273	218
55°	1	1	1	1	1	7
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1143.4	1143.4	1143.4	1143.4	1143.4	1143.4	1143.4	1143.4	1143.4	1143.4	1143.4
0.5°	1142.9	1143.2	1143.4	1143.6	1143.6	1143.6	1143.4	1143.2	1142.9	1143.2	1143.4
1°	1142.7	1142.9	1143.2	1143.4	1143.4	1143.4	1143.2	1142.9	1142.7	1142.9	1143.2
1.5°	1142.4	1142.7	1142.9	1143.2	1143.2	1143.2	1142.9	1142.7	1142.4	1142.7	1142.9
2°	1142.2	1142.2	1142.7	1142.9	1142.7	1142.9	1142.7	1142.2	1142.2	1142.2	1142.7
2.5°	1141.7	1141.9	1142.2	1142.4	1142.4	1142.4	1142.2	1141.9	1141.7	1141.9	1142.2
3°	1141.2	1141.2	1141.7	1141.9	1141.7	1141.9	1141.7	1141.2	1141.2	1141.2	1141.7
3.5°	1140.5	1140.7	1141.0	1141.2	1141.2	1141.2	1141.0	1140.7	1140.5	1140.7	1141.0
4°	1139.8	1140.0	1140.2	1140.5	1140.2	1140.5	1140.2	1140.0	1139.8	1140.0	1140.2
4.5°	1138.8	1139.0	1139.3	1139.5	1139.5	1139.5	1139.3	1139.0	1138.8	1139.0	1139.3
5°	1137.8	1138.1	1138.5	1138.5	1138.5	1138.5	1138.5	1138.1	1137.8	1138.1	1138.5
5.5°	1136.9	1137.1	1137.3	1137.6	1137.3	1137.6	1137.3	1137.1	1136.9	1137.1	1137.3
6°	1135.6	1135.9	1136.1	1136.4	1136.4	1136.4	1136.1	1135.9	1135.6	1135.9	1136.1
6.5°	1134.4	1134.7	1134.9	1135.2	1134.9	1135.2	1134.9	1134.7	1134.4	1134.7	1134.9
7°	1133.0	1133.2	1133.7	1133.7	1133.7	1133.7	1133.7	1133.2	1133.0	1133.2	1133.7
7.5°	1131.5	1131.8	1132.0	1132.3	1132.0	1132.3	1132.0	1131.8	1131.5	1131.8	1132.0
8°	1129.8	1130.1	1130.6	1130.6	1130.6	1130.6	1130.6	1130.1	1129.8	1130.1	1130.6
8.5°	1128.1	1128.4	1128.9	1128.9	1128.6	1128.9	1128.9	1128.4	1128.1	1128.4	1128.9
9°	1126.2	1126.4	1126.9	1127.2	1126.9	1127.2	1126.9	1126.4	1126.2	1126.4	1126.9
9.5°	1124.3	1124.5	1125.0	1125.2	1124.7	1125.2	1125.0	1124.5	1124.3	1124.5	1125.0
10°	1122.1	1122.6	1123.0	1123.0	1122.8	1123.0	1123.0	1122.6	1122.1	1122.6	1123.0
10.5°	1119.9	1120.4	1120.9	1120.9	1120.6	1120.9	1120.9	1120.4	1119.9	1120.4	1120.9
11°	1117.5	1118.0	1118.7	1118.4	1118.2	1118.4	1118.7	1118.0	1117.5	1118.0	1118.7
11.5°	1115.1	1115.5	1116.3	1116.0	1115.8	1116.0	1116.3	1115.5	1115.1	1115.5	1116.3
12°	1112.4	1112.9	1113.6	1113.6	1113.1	1113.6	1113.6	1112.9	1112.4	1112.9	1113.6
12.5°	1109.7	1110.2	1110.9	1110.9	1110.5	1110.9	1110.9	1110.2	1109.7	1110.2	1110.9
13°	1106.8	1107.5	1108.3	1108.3	1107.8	1108.3	1108.3	1107.5	1106.8	1107.5	1108.3
13.5°	1103.9	1104.6	1105.4	1105.4	1104.9	1105.4	1105.4	1104.6	1103.9	1104.6	1105.4
14°	1100.8	1101.5	1102.2	1102.2	1101.7	1102.2	1102.2	1101.5	1100.8	1101.5	1102.2
14.5°	1097.6	1098.3	1099.1	1099.1	1098.6	1099.1	1099.1	1098.3	1097.6	1098.3	1099.1
15°	1094.2	1095.0	1095.9	1095.7	1095.2	1095.7	1095.9	1095.0	1094.2	1095.0	1095.9
15.5°	1090.8	1091.6	1092.5	1092.3	1091.8	1092.3	1092.5	1091.6	1090.8	1091.6	1092.5
16°	1087.2	1087.9	1088.9	1088.9	1088.2	1088.9	1088.9	1087.9	1087.2	1087.9	1088.9
16.5°	1083.6	1084.3	1085.3	1085.3	1084.5	1085.3	1085.3	1084.3	1083.6	1084.3	1085.3
17°	1079.5	1080.4	1081.6	1081.4	1080.7	1081.4	1081.6	1080.4	1079.5	1080.4	1081.6
17.5°	1075.6	1076.5	1077.5	1077.5	1076.8	1077.5	1077.5	1076.5	1075.6	1076.5	1077.5
18°	1071.5	1072.4	1073.6	1073.4	1072.4	1073.4	1073.6	1072.4	1071.5	1072.4	1073.6
18.5°	1067.1	1068.3	1069.3	1069.0	1068.1	1069.0	1069.3	1068.3	1067.1	1068.3	1069.3
19°	1062.7	1064.0	1064.9	1064.7	1063.7	1064.7	1064.9	1064.0	1062.7	1064.0	1064.9
19.5°	1058.1	1059.4	1060.6	1060.3	1059.4	1060.3	1060.6	1059.4	1058.1	1059.4	1060.6
20°	1053.5	1054.8	1056.0	1055.7	1054.5	1055.7	1056.0	1054.8	1053.5	1054.8	1056.0
20.5°	1048.5	1049.9	1051.4	1050.9	1049.7	1050.9	1051.4	1049.9	1048.5	1049.9	1051.4
21°	1043.4	1045.1	1046.5	1046.0	1044.6	1046.0	1046.5	1045.1	1043.4	1045.1	1046.5



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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°	1027.4	1029.3	1031.0	1030.3	1028.6	1030.3	1031.0	1029.3	1027.4	1029.3	1031.0
23°	1021.6	1023.7	1025.7	1024.7	1022.8	1024.7	1025.7	1023.7	1021.6	1023.7	1025.7
23.5°	1015.8	1018.2	1020.1	1018.9	1017.0	1018.9	1020.1	1018.2	1015.8	1018.2	1020.1
24°	1009.9	1012.1	1014.3	1013.1	1010.9	1013.1	1014.3	1012.1	1009.9	1012.1	1014.3
24.5°	1003.6	1006.1	1008.5	1007.0	1004.9	1007.0	1008.5	1006.1	1003.6	1006.1	1008.5
25°	997.1	1000.0	1002.4	1000.7	998.3	1000.7	1002.4	1000.0	997.1	1000.0	1002.4
25.5°	990.3	993.7	996.4	994.4	991.8	994.4	996.4	993.7	990.3	993.7	996.4
26°	983.8	987.2	990.1	987.9	985.2	987.9	990.1	987.2	983.8	987.2	990.1
26.5°	976.5	980.4	983.5	981.1	978.2	981.1	983.5	980.4	976.5	980.4	983.5
27°	969.5	973.4	977.0	974.1	971.0	974.1	977.0	973.4	969.5	973.4	977.0
27.5°	962.2	966.4	970.2	967.1	963.7	967.1	970.2	966.4	962.2	966.4	970.2
28°	954.5	959.1	963.2	959.8	956.2	959.8	963.2	959.1	954.5	959.1	963.2
28.5°	946.7	951.6	956.2	952.5	948.4	952.5	956.2	951.6	946.7	951.6	956.2
29°	938.7	943.8	948.9	944.8	940.7	944.8	948.9	943.8	938.7	943.8	948.9
29.5°	930.7	936.1	941.4	937.0	932.4	937.0	941.4	936.1	930.7	936.1	941.4
30°	922.3	928.1	933.9	929.3	924.2	929.3	933.9	928.1	922.3	928.1	933.9
30.5°	913.8	920.1	926.1	921.1	916.0	921.1	926.1	920.1	913.8	920.1	926.1
31°	905.3	911.6	918.2	912.8	907.5	912.8	918.2	911.6	905.3	911.6	918.2
31.5°	896.6	903.4	910.2	904.6	898.5	904.6	910.2	903.4	896.6	903.4	910.2
32°	887.9	894.9	901.9	896.1	889.8	896.1	901.9	894.9	887.9	894.9	901.9
32.5°	878.9	886.2	893.5	887.4	880.9	887.4	893.5	886.2	878.9	886.2	893.5
33°	869.7	877.5	885.0	878.7	871.9	878.7	885.0	877.5	869.7	877.5	885.0
33.5°	860.3	868.5	876.0	870.0	862.7	870.0	876.0	868.5	860.3	868.5	876.0
34°	850.6	859.8	867.1	861.0	853.2	861.0	867.1	859.8	850.6	859.8	867.1
34.5°	840.9	850.6	858.1	851.8	843.6	851.8	858.1	850.6	840.9	850.6	858.1
35°	831.2	841.4	848.6	842.6	833.6	842.6	848.6	841.4	831.2	841.4	848.6
35.5°	821.0	832.2	839.4	833.4	823.5	833.4	839.4	832.2	821.0	832.2	839.4
36°	810.9	822.7	830.0	823.9	807.2	823.9	830.0	822.7	810.9	822.7	830.0
36.5°	798.8	812.8	820.3	814.3	789.3	814.3	820.3	812.8	798.8	812.8	820.3
37°	782.0	802.9	810.6	804.6	768.2	804.6	810.6	802.9	782.0	802.9	810.6
37.5°	756.6	792.9	800.7	794.4	747.9	794.4	800.7	792.9	756.6	792.9	800.7
38°	729.0	783.0	790.8	783.0	724.6	783.0	790.8	783.0	729.0	783.0	790.8
38.5°	696.3	772.4	780.8	766.8	698.0	766.8	780.8	772.4	696.3	772.4	780.8
39°	663.1	758.3	771.1	747.9	668.2	747.9	771.1	758.3	663.1	758.3	771.1
39.5°	629.5	739.2	761.0	728.3	635.0	728.3	761.0	739.2	629.5	739.2	761.0
40°	595.8	714.5	750.8	707.0	600.9	707.0	750.8	714.5	595.8	714.5	750.8
40.5°	561.9	685.6	741.1	683.0	566.0	683.0	741.1	685.6	561.9	685.6	741.1
41°	527.5	654.4	731.2	656.3	532.6	656.3	731.2	654.4	527.5	654.4	731.2
41.5°	494.3	622.9	721.5	627.0	499.6	627.0	721.5	622.9	494.3	622.9	721.5
42°	460.7	591.2	711.8	595.3	467.4	595.3	711.8	591.2	460.7	591.2	711.8
42.5°	428.2	559.7	702.1	563.1	435.5	563.1	702.1	559.7	428.2	559.7	702.1
43°	395.7	527.5	692.4	530.4	403.0	530.4	692.4	527.5	395.7	527.5	692.4
43.5°	364.0	495.3	682.5	498.9	370.8	498.9	682.5	495.3	364.0	495.3	682.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	272.7	400.8	653.2	406.9	279.7	406.9	653.2	400.8	272.7	400.8	653.2
45.5°	243.9	370.6	643.3	376.1	251.6	376.1	643.3	370.6	243.9	370.6	643.3
46°	216.8	340.8	630.4	346.3	224.8	346.3	630.4	340.8	216.8	340.8	630.4
46.5°	190.4	311.2	615.4	317.0	198.6	317.0	615.4	311.2	190.4	311.2	615.4
47°	164.2	282.2	594.3	288.2	175.6	288.2	594.3	282.2	164.2	282.2	594.3
47.5°	139.3	253.8	570.8	260.4	156.0	260.4	570.8	253.8	139.3	253.8	570.8
48°	117.5	227.2	542.5	233.5	136.6	233.5	542.5	227.2	117.5	227.2	542.5
48.5°	97.6	201.5	511.5	207.8	117.2	207.8	511.5	201.5	97.6	201.5	511.5
49°	82.3	176.1	476.4	183.3	97.8	183.3	476.4	176.1	82.3	176.1	476.4
49.5°	68.1	151.4	440.8	160.6	80.7	160.6	440.8	151.4	68.1	151.4	440.8
50°	54.5	128.1	404.0	140.7	66.4	140.7	404.0	128.1	54.5	128.1	404.0
50.5°	43.4	107.3	367.9	122.1	52.3	122.1	367.9	107.3	43.4	107.3	367.9
51°	32.5	89.6	332.8	104.1	39.7	104.1	332.8	89.6	32.5	89.6	332.8
51.5°	23.3	74.8	300.1	87.4	31.2	87.4	300.1	74.8	23.3	74.8	300.1
52°	14.0	60.8	268.1	72.2	24.9	72.2	268.1	60.8	14.0	60.8	268.1
52.5°	5.1	48.9	237.3	58.4	18.6	58.4	237.3	48.9	5.1	48.9	237.3
53°	2.9	38.0	208.0	46.5	12.6	46.5	208.0	38.0	2.9	38.0	208.0
53.5°	2.2	28.1	182.1	35.4	7.3	35.4	182.1	28.1	2.2	28.1	182.1
54°	1.5	19.4	157.7	25.9	1.9	25.9	157.7	19.4	1.5	19.4	157.7
54.5°	0.7	10.7	134.9	19.4	1.0	19.4	134.9	10.7	0.7	10.7	134.9
55°	0.7	3.6	114.3	13.1	1.0	13.1	114.3	3.6	0.7	3.6	114.3
55.5°	0.7	2.2	94.7	8.0	1.0	8.0	94.7	2.2	0.7	2.2	94.7
56°	0.7	1.7	77.5	4.8	0.7	4.8	77.5	1.7	0.7	1.7	77.5
56.5°	0.7	1.0	63.9	1.9	0.7	1.9	63.9	1.0	0.7	1.0	63.9
57°	0.7	0.7	51.1	1.2	0.7	1.2	51.1	0.7	0.7	0.7	51.1
57.5°	0.7	0.7	39.7	0.7	0.7	0.7	39.7	0.7	0.7	0.7	39.7
58°	0.7	0.7	29.5	0.7	0.7	0.7	29.5	0.7	0.7	0.7	29.5
58.5°	0.5	0.5	21.3	0.7	0.7	0.7	21.3	0.5	0.5	0.5	21.3
59°	0.5	0.5	16.2	0.5	0.7	0.5	16.2	0.5	0.5	0.5	16.2
59.5°	0.5	0.5	11.9	0.5	0.7	0.5	11.9	0.5	0.5	0.5	11.9
60°	0.5	0.5	7.8	0.5	0.7	0.5	7.8	0.5	0.5	0.5	7.8
60.5°	0.5	0.5	4.6	0.5	0.5	0.5	4.6	0.5	0.5	0.5	4.6
61°	0.5	0.5	2.9	0.5	0.5	0.5	2.9	0.5	0.5	0.5	2.9
61.5°	0.5	0.5	1.7	0.5	0.5	0.5	1.7	0.5	0.5	0.5	1.7
62°	0.5	0.5	0.7	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.7
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
65.5°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P776215
 CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
77°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
77.5°	0.0	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.0	0.2	0.0
78°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776215

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776215

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1143.4	1143.4	1143.4	1143.4	1143.4	1143.4
0.5°	1143.6	1143.6	1143.6	1143.4	1143.2	1142.9
1°	1143.4	1143.4	1143.4	1143.2	1142.9	1142.7
1.5°	1143.2	1143.2	1143.2	1142.9	1142.7	1142.4
2°	1142.9	1142.7	1142.9	1142.7	1142.2	1142.2
2.5°	1142.4	1142.4	1142.4	1142.2	1141.9	1141.7
3°	1141.9	1141.7	1141.9	1141.7	1141.2	1141.2
3.5°	1141.2	1141.2	1141.2	1141.0	1140.7	1140.5
4°	1140.5	1140.2	1140.5	1140.2	1140.0	1139.8
4.5°	1139.5	1139.5	1139.5	1139.3	1139.0	1138.8
5°	1138.5	1138.5	1138.5	1138.5	1138.1	1137.8
5.5°	1137.6	1137.3	1137.6	1137.3	1137.1	1136.9
6°	1136.4	1136.4	1136.4	1136.1	1135.9	1135.6
6.5°	1135.2	1134.9	1135.2	1134.9	1134.7	1134.4
7°	1133.7	1133.7	1133.7	1133.7	1133.2	1133.0
7.5°	1132.3	1132.0	1132.3	1132.0	1131.8	1131.5
8°	1130.6	1130.6	1130.6	1130.6	1130.1	1129.8
8.5°	1128.9	1128.6	1128.9	1128.9	1128.4	1128.1
9°	1127.2	1126.9	1127.2	1126.9	1126.4	1126.2
9.5°	1125.2	1124.7	1125.2	1125.0	1124.5	1124.3
10°	1123.0	1122.8	1123.0	1123.0	1122.6	1122.1
10.5°	1120.9	1120.6	1120.9	1120.9	1120.4	1119.9
11°	1118.4	1118.2	1118.4	1118.7	1118.0	1117.5
11.5°	1116.0	1115.8	1116.0	1116.3	1115.5	1115.1
12°	1113.6	1113.1	1113.6	1113.6	1112.9	1112.4
12.5°	1110.9	1110.5	1110.9	1110.9	1110.2	1109.7
13°	1108.3	1107.8	1108.3	1108.3	1107.5	1106.8
13.5°	1105.4	1104.9	1105.4	1105.4	1104.6	1103.9
14°	1102.2	1101.7	1102.2	1102.2	1101.5	1100.8
14.5°	1099.1	1098.6	1099.1	1099.1	1098.3	1097.6
15°	1095.7	1095.2	1095.7	1095.9	1095.0	1094.2
15.5°	1092.3	1091.8	1092.3	1092.5	1091.6	1090.8
16°	1088.9	1088.2	1088.9	1088.9	1087.9	1087.2
16.5°	1085.3	1084.5	1085.3	1085.3	1084.3	1083.6
17°	1081.4	1080.7	1081.4	1081.6	1080.4	1079.5
17.5°	1077.5	1076.8	1077.5	1077.5	1076.5	1075.6
18°	1073.4	1072.4	1073.4	1073.6	1072.4	1071.5
18.5°	1069.0	1068.1	1069.0	1069.3	1068.3	1067.1
19°	1064.7	1063.7	1064.7	1064.9	1064.0	1062.7
19.5°	1060.3	1059.4	1060.3	1060.6	1059.4	1058.1
20°	1055.7	1054.5	1055.7	1056.0	1054.8	1053.5
20.5°	1050.9	1049.7	1050.9	1051.4	1049.9	1048.5
21°	1046.0	1044.6	1046.0	1046.5	1045.1	1043.4



TEST NUMBER: P776215

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1030.3	1028.6	1030.3	1031.0	1029.3	1027.4
23°	1024.7	1022.8	1024.7	1025.7	1023.7	1021.6
23.5°	1018.9	1017.0	1018.9	1020.1	1018.2	1015.8
24°	1013.1	1010.9	1013.1	1014.3	1012.1	1009.9
24.5°	1007.0	1004.9	1007.0	1008.5	1006.1	1003.6
25°	1000.7	998.3	1000.7	1002.4	1000.0	997.1
25.5°	994.4	991.8	994.4	996.4	993.7	990.3
26°	987.9	985.2	987.9	990.1	987.2	983.8
26.5°	981.1	978.2	981.1	983.5	980.4	976.5
27°	974.1	971.0	974.1	977.0	973.4	969.5
27.5°	967.1	963.7	967.1	970.2	966.4	962.2
28°	959.8	956.2	959.8	963.2	959.1	954.5
28.5°	952.5	948.4	952.5	956.2	951.6	946.7
29°	944.8	940.7	944.8	948.9	943.8	938.7
29.5°	937.0	932.4	937.0	941.4	936.1	930.7
30°	929.3	924.2	929.3	933.9	928.1	922.3
30.5°	921.1	916.0	921.1	926.1	920.1	913.8
31°	912.8	907.5	912.8	918.2	911.6	905.3
31.5°	904.6	898.5	904.6	910.2	903.4	896.6
32°	896.1	889.8	896.1	901.9	894.9	887.9
32.5°	887.4	880.9	887.4	893.5	886.2	878.9
33°	878.7	871.9	878.7	885.0	877.5	869.7
33.5°	870.0	862.7	870.0	876.0	868.5	860.3
34°	861.0	853.2	861.0	867.1	859.8	850.6
34.5°	851.8	843.6	851.8	858.1	850.6	840.9
35°	842.6	833.6	842.6	848.6	841.4	831.2
35.5°	833.4	823.5	833.4	839.4	832.2	821.0
36°	823.9	807.2	823.9	830.0	822.7	810.9
36.5°	814.3	789.3	814.3	820.3	812.8	798.8
37°	804.6	768.2	804.6	810.6	802.9	782.0
37.5°	794.4	747.9	794.4	800.7	792.9	756.6
38°	783.0	724.6	783.0	790.8	783.0	729.0
38.5°	766.8	698.0	766.8	780.8	772.4	696.3
39°	747.9	668.2	747.9	771.1	758.3	663.1
39.5°	728.3	635.0	728.3	761.0	739.2	629.5
40°	707.0	600.9	707.0	750.8	714.5	595.8
40.5°	683.0	566.0	683.0	741.1	685.6	561.9
41°	656.3	532.6	656.3	731.2	654.4	527.5
41.5°	627.0	499.6	627.0	721.5	622.9	494.3
42°	595.3	467.4	595.3	711.8	591.2	460.7
42.5°	563.1	435.5	563.1	702.1	559.7	428.2
43°	530.4	403.0	530.4	692.4	527.5	395.7
43.5°	498.9	370.8	498.9	682.5	495.3	364.0



TEST NUMBER: P776215

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	406.9	279.7	406.9	653.2	400.8	272.7
45.5°	376.1	251.6	376.1	643.3	370.6	243.9
46°	346.3	224.8	346.3	630.4	340.8	216.8
46.5°	317.0	198.6	317.0	615.4	311.2	190.4
47°	288.2	175.6	288.2	594.3	282.2	164.2
47.5°	260.4	156.0	260.4	570.8	253.8	139.3
48°	233.5	136.6	233.5	542.5	227.2	117.5
48.5°	207.8	117.2	207.8	511.5	201.5	97.6
49°	183.3	97.8	183.3	476.4	176.1	82.3
49.5°	160.6	80.7	160.6	440.8	151.4	68.1
50°	140.7	66.4	140.7	404.0	128.1	54.5
50.5°	122.1	52.3	122.1	367.9	107.3	43.4
51°	104.1	39.7	104.1	332.8	89.6	32.5
51.5°	87.4	31.2	87.4	300.1	74.8	23.3
52°	72.2	24.9	72.2	268.1	60.8	14.0
52.5°	58.4	18.6	58.4	237.3	48.9	5.1
53°	46.5	12.6	46.5	208.0	38.0	2.9
53.5°	35.4	7.3	35.4	182.1	28.1	2.2
54°	25.9	1.9	25.9	157.7	19.4	1.5
54.5°	19.4	1.0	19.4	134.9	10.7	0.7
55°	13.1	1.0	13.1	114.3	3.6	0.7
55.5°	8.0	1.0	8.0	94.7	2.2	0.7
56°	4.8	0.7	4.8	77.5	1.7	0.7
56.5°	1.9	0.7	1.9	63.9	1.0	0.7
57°	1.2	0.7	1.2	51.1	0.7	0.7
57.5°	0.7	0.7	0.7	39.7	0.7	0.7
58°	0.7	0.7	0.7	29.5	0.7	0.7
58.5°	0.7	0.7	0.7	21.3	0.5	0.5
59°	0.5	0.7	0.5	16.2	0.5	0.5
59.5°	0.5	0.7	0.5	11.9	0.5	0.5
60°	0.5	0.7	0.5	7.8	0.5	0.5
60.5°	0.5	0.5	0.5	4.6	0.5	0.5
61°	0.5	0.5	0.5	2.9	0.5	0.5
61.5°	0.5	0.5	0.5	1.7	0.5	0.5
62°	0.5	0.5	0.5	0.7	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.5	0.5	0.5	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.2	0.5	0.5
65.5°	0.2	0.5	0.2	0.2	0.2	0.2
66°	0.2	0.5	0.2	0.2	0.2	0.2



TEST NUMBER: P776215
 CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.0	0.2	0.2
77°	0.2	0.2	0.2	0.0	0.2	0.2
77.5°	0.2	0.2	0.2	0.0	0.2	0.0
78°	0.0	0.2	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776215
CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMB-2500lm-2700K

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

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21.5°	1038.3	1040.0	1041.4	1040.9	1039.5	1040.9	1041.4	1040.0	1038.3	1040.0	1041.4
22°	1033.0	1034.6	1036.3	1035.6	1034.2	1035.6	1036.3	1034.6	1033.0	1034.6	1036.3



44°	332.5	463.6	672.8	467.9	339.6	467.9	672.8	463.6	332.5	463.6	672.8
44.5°	302.3	432.1	663.1	437.2	309.3	437.2	663.1	432.1	302.3	432.1	663.1



66.5°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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

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21.5°	1040.9	1039.5	1040.9	1041.4	1040.0	1038.3
22°	1035.6	1034.2	1035.6	1036.3	1034.6	1033.0

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44°	467.9	339.6	467.9	672.8	463.6	332.5
44.5°	437.2	309.3	437.2	663.1	432.1	302.3

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66.5°	0.2	0.5	0.2	0.2	0.2	0.2
67°	0.2	0.5	0.2	0.2	0.2	0.2

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

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(END OF REPORT)