

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: P776144

Luminaire Tested: HCDJBL51525CSD-HCD81TRMB-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B045-HCD81TRMB)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD81TRMB-2500lm-5000K  
Description: 8 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

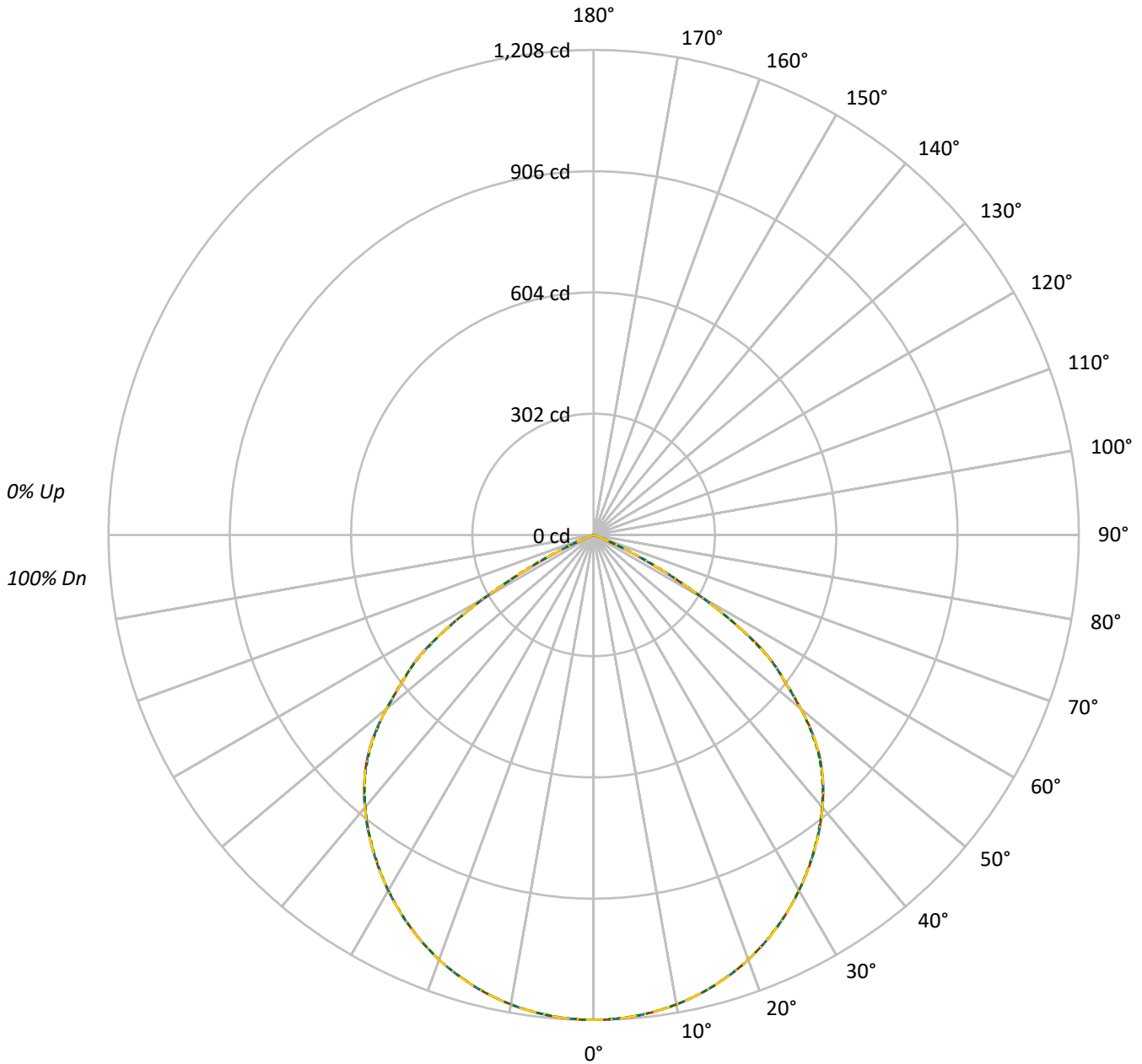
Lumens per Lamp: N/A  
Luminaire Lumens: 2728.3 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89								
2	103	97	91	86	101	95	90	85	91	87	84	88	85	82	85	82	80	78								
3	95	86	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46								
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41								
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37								
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33								
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30								

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

	0°	90°	180°	270°
0°	36878	36878	36878	36878
5°	36868	36853	36868	36853
10°	36820	36814	36820	36814
15°	36728	36718	36728	36718
20°	36577	36570	36577	36570
25°	36351	36334	36351	36334
30°	36061	36032	36061	36032
35°	35720	35672	35720	35672
40°	35319	35247	35319	35247
45°	34519	34394	34519	34394
50°	31970	31970	31970	31970
55°	28450	28136	28450	28136
60°	18996	19265	18996	19265
65°	6726	8048	6726	8048
70°	71	759	71	759
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 34519 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	4.2
10°-20°	327.9	12.0
20°-30°	497.3	18.2
30°-40°	599.5	22.0
40°-50°	611.1	22.4
50°-60°	459.2	16.8
60°-70°	118.6	4.3
70°-80°	0.3	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°	939.6	34.4
0°-40°	1539.0	56.4
0°-60°	2609.4	95.6
0°-90°	2728.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1208	1208	1208	1208	1208	
5°	1203	1202	1203	1202	1203	114
15°	1162	1162	1162	1162	1162	328
25°	1079	1079	1079	1079	1079	497
35°	958	957	958	957	958	599
45°	800	797	800	797	800	612
55°	534	529	534	529	534	459
65°	93	111	93	111	93	111
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	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°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9
0.5°	1207.9	1207.9	1207.9	1207.9	1207.6	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9
1°	1207.9	1207.9	1207.9	1207.6	1207.4	1207.6	1207.9	1207.9	1207.9	1207.9	1207.9
1.5°	1207.6	1207.6	1207.6	1207.6	1207.4	1207.6	1207.6	1207.6	1207.6	1207.6	1207.6
2°	1207.4	1207.4	1207.4	1207.1	1206.8	1207.1	1207.4	1207.4	1207.4	1207.4	1207.4
2.5°	1206.6	1206.8	1206.8	1206.8	1206.3	1206.8	1206.8	1206.8	1206.6	1206.8	1206.8
3°	1206.1	1206.3	1206.3	1206.3	1205.8	1206.3	1206.3	1206.3	1206.1	1206.3	1206.3
3.5°	1205.6	1205.6	1205.6	1205.6	1205.3	1205.6	1205.6	1205.6	1205.6	1205.6	1205.6
4°	1204.8	1204.8	1204.8	1204.8	1204.3	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
4.5°	1204.0	1204.0	1204.0	1204.0	1203.5	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0
5°	1203.0	1203.0	1203.0	1203.0	1202.5	1203.0	1203.0	1203.0	1203.0	1203.0	1203.0
5.5°	1201.9	1201.9	1201.9	1201.9	1201.4	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9
6°	1200.6	1200.9	1200.6	1200.6	1200.4	1200.6	1200.6	1200.9	1200.6	1200.9	1200.6
6.5°	1199.4	1199.6	1199.6	1199.4	1199.1	1199.4	1199.6	1199.6	1199.4	1199.6	1199.6
7°	1198.1	1198.1	1198.1	1198.1	1197.8	1198.1	1198.1	1198.1	1198.1	1198.1	1198.1
7.5°	1196.5	1196.5	1196.5	1196.8	1196.3	1196.8	1196.5	1196.5	1196.5	1196.5	1196.5
8°	1195.0	1195.0	1195.0	1195.0	1194.7	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0
8.5°	1193.4	1193.4	1193.4	1193.4	1192.9	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4
9°	1191.6	1191.6	1191.6	1191.6	1191.4	1191.6	1191.6	1191.6	1191.6	1191.6	1191.6
9.5°	1189.6	1189.8	1189.8	1189.8	1189.3	1189.8	1189.8	1189.8	1189.6	1189.8	1189.8
10°	1187.7	1187.7	1187.7	1187.7	1187.5	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7
10.5°	1185.7	1185.7	1185.7	1185.7	1185.4	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7
11°	1183.4	1183.4	1183.4	1183.6	1183.1	1183.6	1183.4	1183.4	1183.4	1183.4	1183.4
11.5°	1181.0	1181.0	1181.0	1181.3	1180.8	1181.3	1181.0	1181.0	1181.0	1181.0	1181.0
12°	1178.7	1178.7	1178.7	1178.7	1178.5	1178.7	1178.7	1178.7	1178.7	1178.7	1178.7
12.5°	1176.1	1176.1	1176.1	1176.4	1175.9	1176.4	1176.1	1176.1	1176.1	1176.1	1176.1
13°	1173.6	1173.6	1173.6	1173.6	1173.3	1173.6	1173.6	1173.6	1173.6	1173.6	1173.6
13.5°	1170.7	1171.0	1171.0	1171.0	1170.5	1171.0	1171.0	1171.0	1170.7	1171.0	1171.0
14°	1167.9	1168.1	1168.1	1168.1	1167.6	1168.1	1168.1	1168.1	1167.9	1168.1	1168.1
14.5°	1165.0	1165.0	1165.0	1165.0	1164.8	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0
15°	1162.0	1162.0	1162.0	1162.2	1161.7	1162.2	1162.0	1162.0	1162.0	1162.0	1162.0
15.5°	1158.9	1158.9	1158.9	1158.9	1158.6	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9
16°	1155.5	1155.8	1155.8	1155.8	1155.2	1155.8	1155.8	1155.8	1155.5	1155.8	1155.8
16.5°	1152.1	1152.1	1152.4	1152.4	1152.1	1152.4	1152.4	1152.1	1152.1	1152.1	1152.4
17°	1148.8	1148.8	1149.1	1148.8	1148.5	1148.8	1149.1	1148.8	1148.8	1148.8	1149.1
17.5°	1145.2	1145.2	1145.4	1145.4	1145.2	1145.4	1145.4	1145.2	1145.2	1145.2	1145.4
18°	1141.6	1141.6	1141.6	1141.6	1141.3	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6
18.5°	1137.7	1137.7	1138.0	1138.0	1137.4	1138.0	1138.0	1137.7	1137.7	1137.7	1138.0
19°	1133.8	1133.8	1134.1	1134.1	1133.6	1134.1	1134.1	1133.8	1133.8	1133.8	1134.1
19.5°	1130.0	1130.0	1130.0	1130.0	1129.7	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
20°	1125.8	1125.8	1125.8	1125.8	1125.6	1125.8	1125.8	1125.8	1125.8	1125.8	1125.8
20.5°	1121.4	1121.7	1121.7	1121.7	1121.2	1121.7	1121.7	1121.7	1121.4	1121.7	1121.7
21°	1117.3	1117.3	1117.3	1117.3	1117.1	1117.3	1117.3	1117.3	1117.3	1117.3	1117.3



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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°	1103.6	1103.9	1103.9	1103.9	1103.4	1103.9	1103.9	1103.9	1103.6	1103.9	1103.9
23°	1099.0	1099.0	1099.0	1099.0	1098.7	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0
23.5°	1094.1	1094.4	1094.4	1094.4	1093.8	1094.4	1094.4	1094.4	1094.1	1094.4	1094.4
24°	1089.2	1089.2	1089.5	1089.2	1088.9	1089.2	1089.5	1089.2	1089.2	1089.2	1089.5
24.5°	1084.0	1084.3	1084.6	1084.3	1083.8	1084.3	1084.6	1084.3	1084.0	1084.3	1084.6
25°	1079.1	1079.1	1079.4	1079.1	1078.6	1079.1	1079.4	1079.1	1079.1	1079.1	1079.4
25.5°	1073.7	1074.0	1074.2	1074.0	1073.5	1074.0	1074.2	1074.0	1073.7	1074.0	1074.2
26°	1068.6	1068.6	1068.8	1068.6	1068.0	1068.6	1068.8	1068.6	1068.6	1068.6	1068.8
26.5°	1063.1	1063.4	1063.4	1063.1	1062.6	1063.1	1063.4	1063.4	1063.1	1063.4	1063.4
27°	1057.7	1057.7	1058.0	1057.7	1057.2	1057.7	1058.0	1057.7	1057.7	1057.7	1058.0
27.5°	1052.1	1052.3	1052.3	1052.1	1051.5	1052.1	1052.3	1052.3	1052.1	1052.3	1052.3
28°	1046.4	1046.6	1046.6	1046.4	1045.9	1046.4	1046.6	1046.6	1046.4	1046.6	1046.6
28.5°	1040.7	1040.7	1041.0	1040.7	1040.2	1040.7	1041.0	1040.7	1040.7	1040.7	1041.0
29°	1034.8	1035.0	1035.0	1034.8	1034.0	1034.8	1035.0	1035.0	1034.8	1035.0	1035.0
29.5°	1028.8	1029.1	1029.1	1028.8	1028.1	1028.8	1029.1	1029.1	1028.8	1029.1	1029.1
30°	1022.9	1023.2	1023.2	1022.6	1022.1	1022.6	1023.2	1023.2	1022.9	1023.2	1023.2
30.5°	1017.0	1017.0	1017.0	1016.7	1015.9	1016.7	1017.0	1017.0	1017.0	1017.0	1017.0
31°	1010.5	1010.8	1011.0	1010.3	1009.7	1010.3	1011.0	1010.8	1010.5	1010.8	1011.0
31.5°	1004.3	1004.6	1004.6	1004.1	1003.3	1004.1	1004.6	1004.6	1004.3	1004.6	1004.6
32°	998.1	998.4	998.4	997.9	996.8	997.9	998.4	998.4	998.1	998.4	998.4
32.5°	991.7	991.9	991.9	991.2	990.4	991.2	991.9	991.9	991.7	991.9	991.9
33°	985.0	985.5	985.5	985.0	983.9	985.0	985.5	985.5	985.0	985.5	985.5
33.5°	978.5	978.8	979.0	978.3	977.2	978.3	979.0	978.8	978.5	978.8	979.0
34°	971.8	972.1	972.3	971.6	970.8	971.6	972.3	972.1	971.8	972.1	972.3
34.5°	965.1	965.4	965.6	964.9	964.1	964.9	965.6	965.4	965.1	965.4	965.6
35°	958.4	958.7	958.9	958.1	957.1	958.1	958.9	958.7	958.4	958.7	958.9
35.5°	951.4	952.0	952.0	951.2	950.1	951.2	952.0	952.0	951.4	952.0	952.0
36°	944.7	945.0	945.2	944.2	943.2	944.2	945.2	945.0	944.7	945.0	945.2
36.5°	937.8	938.0	938.3	937.2	936.2	937.2	938.3	938.0	937.8	938.0	938.3
37°	930.5	930.8	931.1	930.0	929.3	930.0	931.1	930.8	930.5	930.8	931.1
37.5°	923.3	923.8	924.1	922.8	921.8	922.8	924.1	923.8	923.3	923.8	924.1
38°	916.1	916.4	916.9	915.6	914.8	915.6	916.9	916.4	916.1	916.4	916.9
38.5°	908.6	909.1	909.4	908.4	907.3	908.4	909.4	909.1	908.6	909.1	909.4
39°	901.4	901.9	902.2	900.9	899.8	900.9	902.2	901.9	901.4	901.9	902.2
39.5°	893.9	894.2	894.4	893.4	892.1	893.4	894.4	894.2	893.9	894.2	894.4
40°	886.2	886.7	886.7	885.7	884.4	885.7	886.7	886.7	886.2	886.7	886.7
40.5°	878.4	878.7	878.9	877.7	876.6	877.7	878.9	878.7	878.4	878.7	878.9
41°	870.4	870.9	871.2	869.9	868.6	869.9	871.2	870.9	870.4	870.9	871.2
41.5°	862.4	862.7	863.0	861.7	860.6	861.7	863.0	862.7	862.4	862.7	863.0
42°	854.2	854.4	854.7	853.4	852.1	853.4	854.7	854.4	854.2	854.4	854.7
42.5°	845.7	846.2	846.2	844.9	843.6	844.9	846.2	846.2	845.7	846.2	846.2
43°	837.2	837.4	837.4	836.1	834.8	836.1	837.4	837.4	837.2	837.4	837.4
43.5°	828.1	828.4	828.4	827.1	825.8	827.1	828.4	828.4	828.1	828.4	828.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	799.5	799.5	799.2	797.9	796.6	797.9	799.2	799.5	799.5	799.5	799.2
45.5°	789.2	789.2	788.9	787.4	786.1	787.4	788.9	789.2	789.2	789.2	788.9
46°	778.6	778.6	778.1	776.5	775.0	776.5	778.1	778.6	778.6	778.6	778.1
46.5°	767.2	767.2	766.7	764.9	763.9	764.9	766.7	767.2	767.2	767.2	766.7
47°	755.4	755.4	754.6	753.0	751.8	753.0	754.6	755.4	755.4	755.4	754.6
47.5°	743.0	743.0	742.2	740.7	739.4	740.7	742.2	743.0	743.0	743.0	742.2
48°	730.1	730.1	729.6	728.0	727.0	728.0	729.6	730.1	730.1	730.1	729.6
48.5°	716.7	716.7	716.2	715.1	714.1	715.1	716.2	716.7	716.7	716.7	716.2
49°	702.5	702.5	702.2	701.5	700.9	701.5	702.2	702.5	702.5	702.5	702.2
49.5°	688.3	688.0	688.3	687.5	687.3	687.5	688.3	688.0	688.3	688.0	688.3
50°	673.1	673.3	673.8	673.3	673.1	673.3	673.8	673.3	673.1	673.3	673.8
50.5°	657.3	658.4	659.1	658.9	658.9	658.9	659.1	658.4	657.3	658.4	659.1
51°	642.4	642.9	643.7	644.4	645.0	644.4	643.7	642.9	642.4	642.9	643.7
51.5°	627.7	627.9	629.0	629.7	630.5	629.7	629.0	627.9	627.7	627.9	629.0
52°	613.0	613.5	614.5	615.5	616.8	615.5	614.5	613.5	613.0	613.5	614.5
52.5°	599.0	599.6	600.8	602.1	603.2	602.1	600.8	599.6	599.0	599.6	600.8
53°	585.9	586.4	587.7	588.7	589.7	588.7	587.7	586.4	585.9	586.4	587.7
53.5°	573.5	574.0	574.5	575.0	575.8	575.0	574.5	574.0	573.5	574.0	574.5
54°	561.9	561.4	561.4	561.1	561.1	561.1	561.4	561.4	561.9	561.4	561.4
54.5°	549.0	548.5	547.4	546.1	545.1	546.1	547.4	548.5	549.0	548.5	547.4
55°	534.5	533.5	532.0	530.2	528.6	530.2	532.0	533.5	534.5	533.5	532.0
55.5°	517.5	516.2	514.7	513.1	511.6	513.1	514.7	516.2	517.5	516.2	514.7
56°	498.4	497.6	496.1	494.6	492.7	494.6	496.1	497.6	498.4	497.6	496.1
56.5°	477.5	476.8	476.2	474.7	473.4	474.7	476.2	476.8	477.5	476.8	476.2
57°	455.6	455.1	454.8	453.5	452.0	453.5	454.8	455.1	455.6	455.1	454.8
57.5°	432.4	432.4	432.4	431.1	430.1	431.1	432.4	432.4	432.4	432.4	432.4
58°	408.9	409.2	409.4	408.6	407.6	408.6	409.4	409.2	408.9	409.2	409.4
58.5°	384.9	384.9	385.7	385.4	384.4	385.4	385.7	384.9	384.9	384.9	385.7
59°	360.4	360.9	361.7	361.9	361.7	361.9	361.7	360.9	360.4	360.9	361.7
59.5°	335.9	336.4	337.7	338.7	338.7	338.7	337.7	336.4	335.9	336.4	337.7
60°	311.1	312.2	313.7	315.8	315.5	315.8	313.7	312.2	311.1	312.2	313.7
60.5°	286.6	287.9	290.0	292.3	292.6	292.3	290.0	287.9	286.6	287.9	290.0
61°	262.9	264.4	266.5	269.1	269.8	269.1	266.5	264.4	262.9	264.4	266.5
61.5°	239.7	241.0	243.8	246.1	247.7	246.1	243.8	241.0	239.7	241.0	243.8
62°	216.4	218.3	221.3	224.2	226.3	224.2	221.3	218.3	216.4	218.3	221.3
62.5°	193.5	195.6	199.7	202.8	204.8	202.8	199.7	195.6	193.5	195.6	199.7
63°	171.6	173.9	178.5	181.9	184.2	181.9	178.5	173.9	171.6	173.9	178.5
63.5°	150.7	153.0	157.9	162.0	165.9	162.0	157.9	153.0	150.7	153.0	157.9
64°	130.5	133.1	138.0	143.4	147.8	143.4	138.0	133.1	130.5	133.1	138.0
64.5°	111.2	114.5	119.7	125.4	129.5	125.4	119.7	114.5	111.2	114.5	119.7
65°	93.1	97.5	102.4	107.8	111.4	107.8	102.4	97.5	93.1	97.5	102.4
65.5°	76.6	81.5	85.9	91.1	94.4	91.1	85.9	81.5	76.6	81.5	85.9
66°	61.4	67.3	70.7	75.8	78.9	75.8	70.7	67.3	61.4	67.3	70.7





TEST NUMBER: P776144

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	23.5	31.7	35.3	39.7	42.1	39.7	35.3	31.7	23.5	31.7	35.3
68°	13.7	21.9	26.8	29.9	32.8	29.9	26.8	21.9	13.7	21.9	26.8
68.5°	5.2	14.7	19.3	22.7	26.1	22.7	19.3	14.7	5.2	14.7	19.3
69°	2.6	8.8	12.4	15.7	19.3	15.7	12.4	8.8	2.6	8.8	12.4
69.5°	1.5	3.9	7.0	10.3	13.9	10.3	7.0	3.9	1.5	3.9	7.0
70°	0.8	1.8	3.9	5.9	8.5	5.9	3.9	1.8	0.8	1.8	3.9
70.5°	0.3	1.0	2.3	2.8	3.4	2.8	2.3	1.0	0.3	1.0	2.3
71°	0.3	0.5	1.3	1.5	1.3	1.5	1.3	0.5	0.3	0.5	1.3
71.5°	0.3	0.3	0.8	0.8	0.3	0.8	0.8	0.3	0.3	0.3	0.8
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	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: P776144  
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-5000K

**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: P776144

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9
0.5°	1207.9	1207.6	1207.9	1207.9	1207.9	1207.9
1°	1207.6	1207.4	1207.6	1207.9	1207.9	1207.9
1.5°	1207.6	1207.4	1207.6	1207.6	1207.6	1207.6
2°	1207.1	1206.8	1207.1	1207.4	1207.4	1207.4
2.5°	1206.8	1206.3	1206.8	1206.8	1206.8	1206.6
3°	1206.3	1205.8	1206.3	1206.3	1206.3	1206.1
3.5°	1205.6	1205.3	1205.6	1205.6	1205.6	1205.6
4°	1204.8	1204.3	1204.8	1204.8	1204.8	1204.8
4.5°	1204.0	1203.5	1204.0	1204.0	1204.0	1204.0
5°	1203.0	1202.5	1203.0	1203.0	1203.0	1203.0
5.5°	1201.9	1201.4	1201.9	1201.9	1201.9	1201.9
6°	1200.6	1200.4	1200.6	1200.6	1200.9	1200.6
6.5°	1199.4	1199.1	1199.4	1199.6	1199.6	1199.4
7°	1198.1	1197.8	1198.1	1198.1	1198.1	1198.1
7.5°	1196.8	1196.3	1196.8	1196.5	1196.5	1196.5
8°	1195.0	1194.7	1195.0	1195.0	1195.0	1195.0
8.5°	1193.4	1192.9	1193.4	1193.4	1193.4	1193.4
9°	1191.6	1191.4	1191.6	1191.6	1191.6	1191.6
9.5°	1189.8	1189.3	1189.8	1189.8	1189.8	1189.6
10°	1187.7	1187.5	1187.7	1187.7	1187.7	1187.7
10.5°	1185.7	1185.4	1185.7	1185.7	1185.7	1185.7
11°	1183.6	1183.1	1183.6	1183.4	1183.4	1183.4
11.5°	1181.3	1180.8	1181.3	1181.0	1181.0	1181.0
12°	1178.7	1178.5	1178.7	1178.7	1178.7	1178.7
12.5°	1176.4	1175.9	1176.4	1176.1	1176.1	1176.1
13°	1173.6	1173.3	1173.6	1173.6	1173.6	1173.6
13.5°	1171.0	1170.5	1171.0	1171.0	1171.0	1170.7
14°	1168.1	1167.6	1168.1	1168.1	1168.1	1167.9
14.5°	1165.0	1164.8	1165.0	1165.0	1165.0	1165.0
15°	1162.2	1161.7	1162.2	1162.0	1162.0	1162.0
15.5°	1158.9	1158.6	1158.9	1158.9	1158.9	1158.9
16°	1155.8	1155.2	1155.8	1155.8	1155.8	1155.5
16.5°	1152.4	1152.1	1152.4	1152.4	1152.1	1152.1
17°	1148.8	1148.5	1148.8	1149.1	1148.8	1148.8
17.5°	1145.4	1145.2	1145.4	1145.4	1145.2	1145.2
18°	1141.6	1141.3	1141.6	1141.6	1141.6	1141.6
18.5°	1138.0	1137.4	1138.0	1138.0	1137.7	1137.7
19°	1134.1	1133.6	1134.1	1134.1	1133.8	1133.8
19.5°	1130.0	1129.7	1130.0	1130.0	1130.0	1130.0
20°	1125.8	1125.6	1125.8	1125.8	1125.8	1125.8
20.5°	1121.7	1121.2	1121.7	1121.7	1121.7	1121.4
21°	1117.3	1117.1	1117.3	1117.3	1117.3	1117.3



TEST NUMBER: P776144

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1103.9	1103.4	1103.9	1103.9	1103.9	1103.6
23°	1099.0	1098.7	1099.0	1099.0	1099.0	1099.0
23.5°	1094.4	1093.8	1094.4	1094.4	1094.4	1094.1
24°	1089.2	1088.9	1089.2	1089.5	1089.2	1089.2
24.5°	1084.3	1083.8	1084.3	1084.6	1084.3	1084.0
25°	1079.1	1078.6	1079.1	1079.4	1079.1	1079.1
25.5°	1074.0	1073.5	1074.0	1074.2	1074.0	1073.7
26°	1068.6	1068.0	1068.6	1068.8	1068.6	1068.6
26.5°	1063.1	1062.6	1063.1	1063.4	1063.4	1063.1
27°	1057.7	1057.2	1057.7	1058.0	1057.7	1057.7
27.5°	1052.1	1051.5	1052.1	1052.3	1052.3	1052.1
28°	1046.4	1045.9	1046.4	1046.6	1046.6	1046.4
28.5°	1040.7	1040.2	1040.7	1041.0	1040.7	1040.7
29°	1034.8	1034.0	1034.8	1035.0	1035.0	1034.8
29.5°	1028.8	1028.1	1028.8	1029.1	1029.1	1028.8
30°	1022.6	1022.1	1022.6	1023.2	1023.2	1022.9
30.5°	1016.7	1015.9	1016.7	1017.0	1017.0	1017.0
31°	1010.3	1009.7	1010.3	1011.0	1010.8	1010.5
31.5°	1004.1	1003.3	1004.1	1004.6	1004.6	1004.3
32°	997.9	996.8	997.9	998.4	998.4	998.1
32.5°	991.2	990.4	991.2	991.9	991.9	991.7
33°	985.0	983.9	985.0	985.5	985.5	985.0
33.5°	978.3	977.2	978.3	979.0	978.8	978.5
34°	971.6	970.8	971.6	972.3	972.1	971.8
34.5°	964.9	964.1	964.9	965.6	965.4	965.1
35°	958.1	957.1	958.1	958.9	958.7	958.4
35.5°	951.2	950.1	951.2	952.0	952.0	951.4
36°	944.2	943.2	944.2	945.2	945.0	944.7
36.5°	937.2	936.2	937.2	938.3	938.0	937.8
37°	930.0	929.3	930.0	931.1	930.8	930.5
37.5°	922.8	921.8	922.8	924.1	923.8	923.3
38°	915.6	914.8	915.6	916.9	916.4	916.1
38.5°	908.4	907.3	908.4	909.4	909.1	908.6
39°	900.9	899.8	900.9	902.2	901.9	901.4
39.5°	893.4	892.1	893.4	894.4	894.2	893.9
40°	885.7	884.4	885.7	886.7	886.7	886.2
40.5°	877.7	876.6	877.7	878.9	878.7	878.4
41°	869.9	868.6	869.9	871.2	870.9	870.4
41.5°	861.7	860.6	861.7	863.0	862.7	862.4
42°	853.4	852.1	853.4	854.7	854.4	854.2
42.5°	844.9	843.6	844.9	846.2	846.2	845.7
43°	836.1	834.8	836.1	837.4	837.4	837.2
43.5°	827.1	825.8	827.1	828.4	828.4	828.1



TEST NUMBER: P776144

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	797.9	796.6	797.9	799.2	799.5	799.5
45.5°	787.4	786.1	787.4	788.9	789.2	789.2
46°	776.5	775.0	776.5	778.1	778.6	778.6
46.5°	764.9	763.9	764.9	766.7	767.2	767.2
47°	753.0	751.8	753.0	754.6	755.4	755.4
47.5°	740.7	739.4	740.7	742.2	743.0	743.0
48°	728.0	727.0	728.0	729.6	730.1	730.1
48.5°	715.1	714.1	715.1	716.2	716.7	716.7
49°	701.5	700.9	701.5	702.2	702.5	702.5
49.5°	687.5	687.3	687.5	688.3	688.0	688.3
50°	673.3	673.1	673.3	673.8	673.3	673.1
50.5°	658.9	658.9	658.9	659.1	658.4	657.3
51°	644.4	645.0	644.4	643.7	642.9	642.4
51.5°	629.7	630.5	629.7	629.0	627.9	627.7
52°	615.5	616.8	615.5	614.5	613.5	613.0
52.5°	602.1	603.2	602.1	600.8	599.6	599.0
53°	588.7	589.7	588.7	587.7	586.4	585.9
53.5°	575.0	575.8	575.0	574.5	574.0	573.5
54°	561.1	561.1	561.1	561.4	561.4	561.9
54.5°	546.1	545.1	546.1	547.4	548.5	549.0
55°	530.2	528.6	530.2	532.0	533.5	534.5
55.5°	513.1	511.6	513.1	514.7	516.2	517.5
56°	494.6	492.7	494.6	496.1	497.6	498.4
56.5°	474.7	473.4	474.7	476.2	476.8	477.5
57°	453.5	452.0	453.5	454.8	455.1	455.6
57.5°	431.1	430.1	431.1	432.4	432.4	432.4
58°	408.6	407.6	408.6	409.4	409.2	408.9
58.5°	385.4	384.4	385.4	385.7	384.9	384.9
59°	361.9	361.7	361.9	361.7	360.9	360.4
59.5°	338.7	338.7	338.7	337.7	336.4	335.9
60°	315.8	315.5	315.8	313.7	312.2	311.1
60.5°	292.3	292.6	292.3	290.0	287.9	286.6
61°	269.1	269.8	269.1	266.5	264.4	262.9
61.5°	246.1	247.7	246.1	243.8	241.0	239.7
62°	224.2	226.3	224.2	221.3	218.3	216.4
62.5°	202.8	204.8	202.8	199.7	195.6	193.5
63°	181.9	184.2	181.9	178.5	173.9	171.6
63.5°	162.0	165.9	162.0	157.9	153.0	150.7
64°	143.4	147.8	143.4	138.0	133.1	130.5
64.5°	125.4	129.5	125.4	119.7	114.5	111.2
65°	107.8	111.4	107.8	102.4	97.5	93.1
65.5°	91.1	94.4	91.1	85.9	81.5	76.6
66°	75.8	78.9	75.8	70.7	67.3	61.4



TEST NUMBER: P776144

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	39.7	42.1	39.7	35.3	31.7	23.5
68°	29.9	32.8	29.9	26.8	21.9	13.7
68.5°	22.7	26.1	22.7	19.3	14.7	5.2
69°	15.7	19.3	15.7	12.4	8.8	2.6
69.5°	10.3	13.9	10.3	7.0	3.9	1.5
70°	5.9	8.5	5.9	3.9	1.8	0.8
70.5°	2.8	3.4	2.8	2.3	1.0	0.3
71°	1.5	1.3	1.5	1.3	0.5	0.3
71.5°	0.8	0.3	0.8	0.8	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	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
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: P776144  
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-5000K

**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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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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Peachtree City, GA 30269

Scaled Data Report





21.5°	1112.9	1112.9	1112.9	1112.9	1112.4	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9
22°	1108.3	1108.3	1108.5	1108.5	1108.0	1108.5	1108.5	1108.3	1108.3	1108.3	1108.3	1108.5



44°	818.8	819.1	818.8	817.5	816.5	817.5	818.8	819.1	818.8	819.1	818.8
44.5°	809.3	809.5	809.5	808.0	806.5	808.0	809.5	809.5	809.3	809.5	809.5



66.5°	48.5	54.4	57.3	62.2	65.0	62.2	57.3	54.4	48.5	54.4	57.3
67°	35.9	41.8	45.9	50.0	52.4	50.0	45.9	41.8	35.9	41.8	45.9



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°	1112.9	1112.4	1112.9	1112.9	1112.9	1112.9
22°	1108.5	1108.0	1108.5	1108.5	1108.3	1108.3



44°	817.5	816.5	817.5	818.8	819.1	818.8
44.5°	808.0	806.5	808.0	809.5	809.5	809.3

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66.5°	62.2	65.0	62.2	57.3	54.4	48.5
67°	50.0	52.4	50.0	45.9	41.8	35.9

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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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Scaled Data Report



(END OF REPORT)