

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: P776141

Luminaire Tested: HCDJBL51525CSD-HCD81TRMB-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776141
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: HCDJBS1525CSD-HCD81TRMB-2500lm-3000K
Description: 8 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

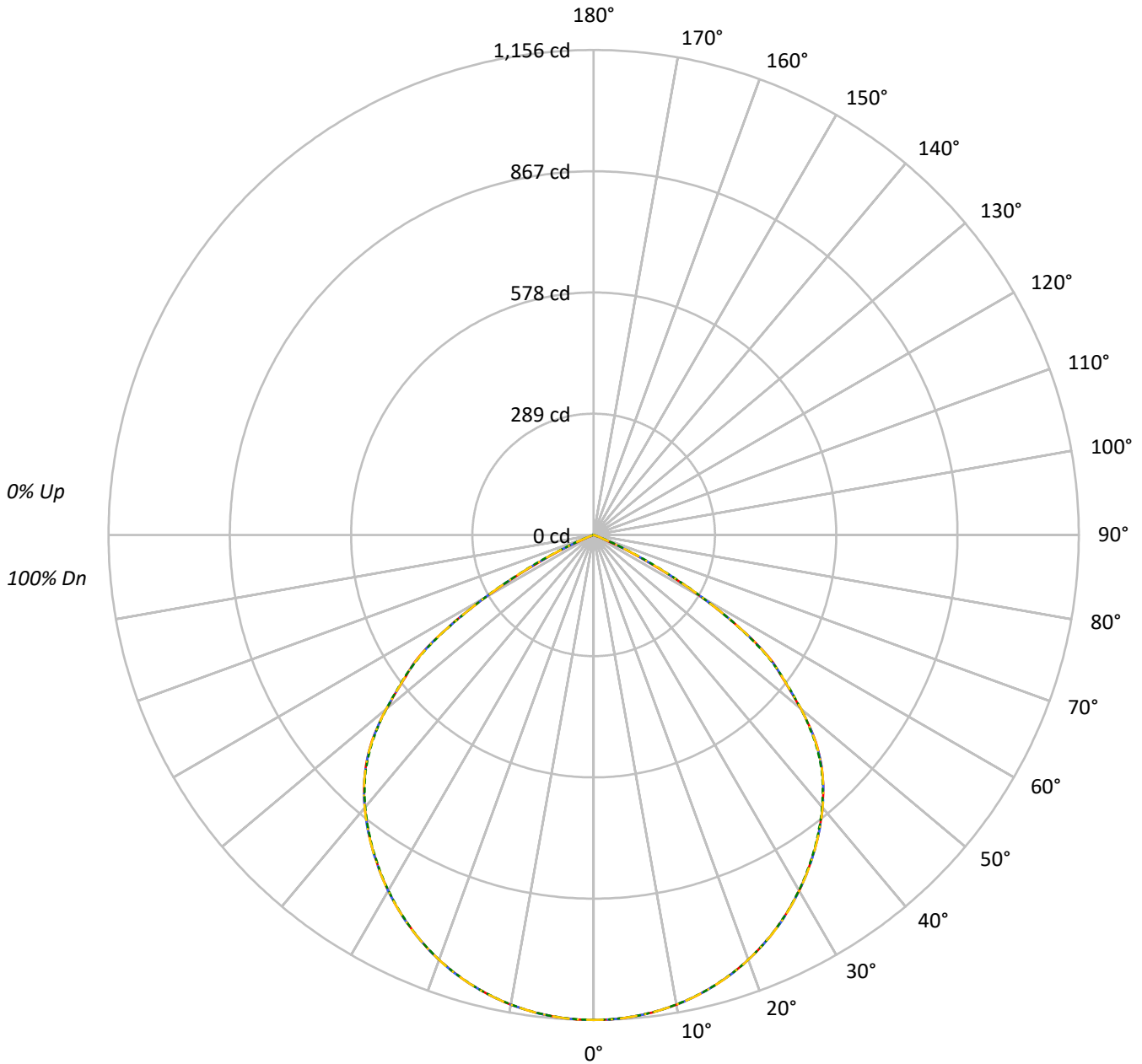
Lumens per Lamp: N/A
Luminaire Lumens: 2611.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (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



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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	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°	35299	35299	35299	35299
5°	35290	35275	35290	35275
10°	35245	35239	35245	35239
15°	35154	35147	35154	35147
20°	35011	35004	35011	35004
25°	34798	34781	34798	34781
30°	34517	34492	34517	34492
35°	34192	34144	34192	34144
40°	33805	33737	33805	33737
45°	33043	32926	33043	32926
50°	30602	30602	30602	30602
55°	27237	26933	27237	26933
60°	18184	18440	18184	18440
65°	6437	7708	6437	7708
70°	62	723	62	723
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: 33043 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	4.2
10°-20°	313.9	12.0
20°-30°	476.0	18.2
30°-40°	573.8	22.0
40°-50°	585.0	22.4
50°-60°	439.6	16.8
60°-70°	113.6	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°	899.3	34.4
0°-40°	1473.1	56.4
0°-60°	2497.7	95.6
0°-90°	2611.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1156	1156	1156	1156	1156	
5°	1152	1151	1152	1151	1152	109
15°	1112	1112	1112	1112	1112	314
25°	1033	1032	1033	1032	1033	476
35°	917	916	917	916	917	574
45°	765	763	765	763	765	585
55°	512	506	512	506	512	440
65°	89	107	89	107	89	106
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°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
0.5°	1156.2	1156.2	1156.2	1156.2	1155.9	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
1°	1156.2	1156.2	1156.2	1155.9	1155.7	1155.9	1156.2	1156.2	1156.2	1156.2	1156.2
1.5°	1155.9	1155.9	1155.9	1155.9	1155.7	1155.9	1155.9	1155.9	1155.9	1155.9	1155.9
2°	1155.7	1155.7	1155.7	1155.4	1155.2	1155.4	1155.7	1155.7	1155.7	1155.7	1155.7
2.5°	1154.9	1155.2	1155.2	1155.2	1154.7	1155.2	1155.2	1155.2	1154.9	1155.2	1155.2
3°	1154.4	1154.7	1154.7	1154.7	1154.2	1154.7	1154.7	1154.7	1154.4	1154.7	1154.7
3.5°	1154.0	1154.0	1154.0	1154.0	1153.7	1154.0	1154.0	1154.0	1154.0	1154.0	1154.0
4°	1153.2	1153.2	1153.2	1153.2	1152.7	1153.2	1153.2	1153.2	1153.2	1153.2	1153.2
4.5°	1152.5	1152.5	1152.5	1152.5	1152.0	1152.5	1152.5	1152.5	1152.5	1152.5	1152.5
5°	1151.5	1151.5	1151.5	1151.5	1151.0	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5
5.5°	1150.5	1150.5	1150.5	1150.5	1150.0	1150.5	1150.5	1150.5	1150.5	1150.5	1150.5
6°	1149.3	1149.5	1149.3	1149.3	1149.0	1149.3	1149.3	1149.5	1149.3	1149.5	1149.3
6.5°	1148.0	1148.3	1148.3	1148.0	1147.8	1148.0	1148.3	1148.3	1148.0	1148.3	1148.3
7°	1146.8	1146.8	1146.8	1146.8	1146.5	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
7.5°	1145.3	1145.3	1145.3	1145.6	1145.1	1145.6	1145.3	1145.3	1145.3	1145.3	1145.3
8°	1143.8	1143.8	1143.8	1143.8	1143.6	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8
8.5°	1142.3	1142.3	1142.3	1142.3	1141.9	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3
9°	1140.6	1140.6	1140.6	1140.6	1140.4	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6
9.5°	1138.6	1138.9	1138.9	1138.9	1138.4	1138.9	1138.9	1138.9	1138.6	1138.9	1138.9
10°	1136.9	1136.9	1136.9	1136.9	1136.7	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
10.5°	1134.9	1134.9	1134.9	1134.9	1134.7	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9
11°	1132.7	1132.7	1132.7	1133.0	1132.5	1133.0	1132.7	1132.7	1132.7	1132.7	1132.7
11.5°	1130.5	1130.5	1130.5	1130.7	1130.2	1130.7	1130.5	1130.5	1130.5	1130.5	1130.5
12°	1128.3	1128.3	1128.3	1128.3	1128.0	1128.3	1128.3	1128.3	1128.3	1128.3	1128.3
12.5°	1125.8	1125.8	1125.8	1126.0	1125.6	1126.0	1125.8	1125.8	1125.8	1125.8	1125.8
13°	1123.3	1123.3	1123.3	1123.3	1123.1	1123.3	1123.3	1123.3	1123.3	1123.3	1123.3
13.5°	1120.6	1120.9	1120.9	1120.9	1120.4	1120.9	1120.9	1120.9	1120.6	1120.9	1120.9
14°	1117.9	1118.1	1118.1	1118.1	1117.7	1118.1	1118.1	1118.1	1117.9	1118.1	1118.1
14.5°	1115.2	1115.2	1115.2	1115.2	1114.9	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2
15°	1112.2	1112.2	1112.2	1112.5	1112.0	1112.5	1112.2	1112.2	1112.2	1112.2	1112.2
15.5°	1109.3	1109.3	1109.3	1109.3	1109.0	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3
16°	1106.0	1106.3	1106.3	1106.3	1105.8	1106.3	1106.3	1106.3	1106.0	1106.3	1106.3
16.5°	1102.8	1102.8	1103.1	1103.1	1102.8	1103.1	1103.1	1102.8	1102.8	1102.8	1103.1
17°	1099.6	1099.6	1099.9	1099.6	1099.4	1099.6	1099.9	1099.6	1099.6	1099.6	1099.9
17.5°	1096.2	1096.2	1096.4	1096.4	1096.2	1096.4	1096.4	1096.2	1096.2	1096.2	1096.4
18°	1092.7	1092.7	1092.7	1092.7	1092.5	1092.7	1092.7	1092.7	1092.7	1092.7	1092.7
18.5°	1089.0	1089.0	1089.3	1089.3	1088.8	1089.3	1089.3	1089.0	1089.0	1089.0	1089.3
19°	1085.3	1085.3	1085.5	1085.5	1085.1	1085.5	1085.5	1085.3	1085.3	1085.3	1085.5
19.5°	1081.6	1081.6	1081.6	1081.6	1081.4	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6
20°	1077.6	1077.6	1077.6	1077.6	1077.4	1077.6	1077.6	1077.6	1077.6	1077.6	1077.6
20.5°	1073.4	1073.7	1073.7	1073.7	1073.2	1073.7	1073.7	1073.7	1073.4	1073.7	1073.7
21°	1069.5	1069.5	1069.5	1069.5	1069.3	1069.5	1069.5	1069.5	1069.5	1069.5	1069.5



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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°	1056.4	1056.7	1056.7	1056.7	1056.2	1056.7	1056.7	1056.7	1056.4	1056.7	1056.7
23°	1052.0	1052.0	1052.0	1052.0	1051.7	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0
23.5°	1047.3	1047.5	1047.5	1047.5	1047.0	1047.5	1047.5	1047.5	1047.3	1047.5	1047.5
24°	1042.6	1042.6	1042.8	1042.6	1042.3	1042.6	1042.8	1042.6	1042.6	1042.6	1042.8
24.5°	1037.6	1037.9	1038.1	1037.9	1037.4	1037.9	1038.1	1037.9	1037.6	1037.9	1038.1
25°	1033.0	1033.0	1033.2	1033.0	1032.5	1033.0	1033.2	1033.0	1033.0	1033.0	1033.2
25.5°	1027.8	1028.0	1028.3	1028.0	1027.5	1028.0	1028.3	1028.0	1027.8	1028.0	1028.3
26°	1022.8	1022.8	1023.1	1022.8	1022.3	1022.8	1023.1	1022.8	1022.8	1022.8	1023.1
26.5°	1017.6	1017.9	1017.9	1017.6	1017.1	1017.6	1017.9	1017.9	1017.6	1017.9	1017.9
27°	1012.5	1012.5	1012.7	1012.5	1012.0	1012.5	1012.7	1012.5	1012.5	1012.5	1012.7
27.5°	1007.0	1007.3	1007.3	1007.0	1006.5	1007.0	1007.3	1007.3	1007.0	1007.3	1007.3
28°	1001.6	1001.8	1001.8	1001.6	1001.1	1001.6	1001.8	1001.8	1001.6	1001.8	1001.8
28.5°	996.2	996.2	996.4	996.2	995.7	996.2	996.4	996.2	996.2	996.2	996.4
29°	990.5	990.7	990.7	990.5	989.7	990.5	990.7	990.7	990.5	990.7	990.7
29.5°	984.8	985.0	985.0	984.8	984.1	984.8	985.0	985.0	984.8	985.0	985.0
30°	979.1	979.4	979.4	978.9	978.4	978.9	979.4	979.4	979.1	979.4	979.4
30.5°	973.4	973.4	973.4	973.2	972.5	973.2	973.4	973.4	973.4	973.4	973.4
31°	967.3	967.5	967.8	967.0	966.5	967.0	967.8	967.5	967.3	967.5	967.8
31.5°	961.3	961.6	961.6	961.1	960.4	961.1	961.6	961.6	961.3	961.6	961.6
32°	955.4	955.7	955.7	955.2	954.2	955.2	955.7	955.7	955.4	955.7	955.7
32.5°	949.2	949.5	949.5	948.7	948.0	948.7	949.5	949.5	949.2	949.5	949.5
33°	942.8	943.3	943.3	942.8	941.8	942.8	943.3	943.3	942.8	943.3	943.3
33.5°	936.6	936.9	937.1	936.4	935.4	936.4	937.1	936.9	936.6	936.9	937.1
34°	930.2	930.5	930.7	930.0	929.2	930.0	930.7	930.5	930.2	930.5	930.7
34.5°	923.8	924.1	924.3	923.6	922.8	923.6	924.3	924.1	923.8	924.1	924.3
35°	917.4	917.6	917.9	917.1	916.1	917.1	917.9	917.6	917.4	917.6	917.9
35.5°	910.7	911.2	911.2	910.5	909.5	910.5	911.2	911.2	910.7	911.2	911.2
36°	904.3	904.5	904.8	903.8	902.8	903.8	904.8	904.5	904.3	904.5	904.8
36.5°	897.6	897.9	898.1	897.1	896.1	897.1	898.1	897.9	897.6	897.9	898.1
37°	890.7	891.0	891.2	890.2	889.5	890.2	891.2	891.0	890.7	891.0	891.2
37.5°	883.8	884.3	884.5	883.3	882.3	883.3	884.5	884.3	883.8	884.3	884.5
38°	876.9	877.1	877.6	876.4	875.6	876.4	877.6	877.1	876.9	877.1	877.6
38.5°	869.7	870.2	870.5	869.5	868.5	869.5	870.5	870.2	869.7	870.2	870.5
39°	862.8	863.3	863.5	862.3	861.3	862.3	863.5	863.3	862.8	863.3	863.5
39.5°	855.6	855.9	856.1	855.2	853.9	855.2	856.1	855.9	855.6	855.9	856.1
40°	848.2	848.7	848.7	847.7	846.5	847.7	848.7	848.7	848.2	848.7	848.7
40.5°	840.8	841.1	841.3	840.1	839.1	840.1	841.3	841.1	840.8	841.1	841.3
41°	833.2	833.7	833.9	832.7	831.4	832.7	833.9	833.7	833.2	833.7	833.9
41.5°	825.5	825.8	826.0	824.8	823.8	824.8	826.0	825.8	825.5	825.8	826.0
42°	817.6	817.9	818.1	816.9	815.6	816.9	818.1	817.9	817.6	817.9	818.1
42.5°	809.5	810.0	810.0	808.7	807.5	808.7	810.0	810.0	809.5	810.0	810.0
43°	801.3	801.6	801.6	800.3	799.1	800.3	801.6	801.6	801.3	801.6	801.6
43.5°	792.7	792.9	792.9	791.7	790.5	791.7	792.9	792.9	792.7	792.9	792.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	765.3	765.3	765.0	763.8	762.6	763.8	765.0	765.3	765.3	765.3	765.0
45.5°	755.4	755.4	755.1	753.7	752.4	753.7	755.1	755.4	755.4	755.4	755.1
46°	745.3	745.3	744.8	743.3	741.8	743.3	744.8	745.3	745.3	745.3	744.8
46.5°	734.4	734.4	733.9	732.2	731.2	732.2	733.9	734.4	734.4	734.4	733.9
47°	723.0	723.0	722.3	720.8	719.6	720.8	722.3	723.0	723.0	723.0	722.3
47.5°	711.2	711.2	710.4	709.0	707.7	709.0	710.4	711.2	711.2	711.2	710.4
48°	698.8	698.8	698.3	696.9	695.9	696.9	698.3	698.8	698.8	698.8	698.3
48.5°	686.0	686.0	685.5	684.5	683.5	684.5	685.5	686.0	686.0	686.0	685.5
49°	672.4	672.4	672.2	671.4	670.9	671.4	672.2	672.4	672.4	672.4	672.2
49.5°	658.8	658.6	658.8	658.1	657.8	658.1	658.8	658.6	658.8	658.6	658.8
50°	644.3	644.5	645.0	644.5	644.3	644.5	645.0	644.5	644.3	644.5	645.0
50.5°	629.2	630.2	630.9	630.7	630.7	630.7	630.9	630.2	629.2	630.2	630.9
51°	614.9	615.4	616.1	616.9	617.4	616.9	616.1	615.4	614.9	615.4	616.1
51.5°	600.8	601.1	602.0	602.8	603.5	602.8	602.0	601.1	600.8	601.1	602.0
52°	586.7	587.2	588.2	589.2	590.4	589.2	588.2	587.2	586.7	587.2	588.2
52.5°	573.4	573.9	575.1	576.4	577.3	576.4	575.1	573.9	573.4	573.9	575.1
53°	560.8	561.3	562.5	563.5	564.5	563.5	562.5	561.3	560.8	561.3	562.5
53.5°	548.9	549.4	549.9	550.4	551.2	550.4	549.9	549.4	548.9	549.4	549.9
54°	537.8	537.3	537.3	537.1	537.1	537.1	537.3	537.3	537.8	537.3	537.3
54.5°	525.5	525.0	524.0	522.8	521.8	522.8	524.0	525.0	525.5	525.0	524.0
55°	511.7	510.7	509.2	507.5	506.0	507.5	509.2	510.7	511.7	510.7	509.2
55.5°	495.4	494.1	492.6	491.2	489.7	491.2	492.6	494.1	495.4	494.1	492.6
56°	477.1	476.3	474.9	473.4	471.7	473.4	474.9	476.3	477.1	476.3	474.9
56.5°	457.1	456.3	455.9	454.4	453.1	454.4	455.9	456.3	457.1	456.3	455.9
57°	436.1	435.6	435.4	434.1	432.6	434.1	435.4	435.6	436.1	435.6	435.4
57.5°	413.9	413.9	413.9	412.6	411.6	412.6	413.9	413.9	413.9	413.9	413.9
58°	391.4	391.6	391.9	391.2	390.2	391.2	391.9	391.6	391.4	391.6	391.9
58.5°	368.4	368.4	369.2	368.9	367.9	368.9	369.2	368.4	368.4	368.4	369.2
59°	345.0	345.5	346.2	346.5	346.2	346.5	346.2	345.5	345.0	345.5	346.2
59.5°	321.5	322.0	323.2	324.2	324.2	324.2	323.2	322.0	321.5	322.0	323.2
60°	297.8	298.8	300.3	302.3	302.0	302.3	300.3	298.8	297.8	298.8	300.3
60.5°	274.4	275.6	277.6	279.8	280.0	279.8	277.6	275.6	274.4	275.6	277.6
61°	251.6	253.1	255.1	257.6	258.3	257.6	255.1	253.1	251.6	253.1	255.1
61.5°	229.4	230.6	233.4	235.6	237.1	235.6	233.4	230.6	229.4	230.6	233.4
62°	207.2	208.9	211.9	214.6	216.6	214.6	211.9	208.9	207.2	208.9	211.9
62.5°	185.2	187.2	191.1	194.1	196.1	194.1	191.1	187.2	185.2	187.2	191.1
63°	164.2	166.4	170.9	174.1	176.3	174.1	170.9	166.4	164.2	166.4	170.9
63.5°	144.2	146.4	151.1	155.1	158.8	155.1	151.1	146.4	144.2	146.4	151.1
64°	125.0	127.4	132.1	137.3	141.5	137.3	132.1	127.4	125.0	127.4	132.1
64.5°	106.4	109.6	114.6	120.0	124.0	120.0	114.6	109.6	106.4	109.6	114.6
65°	89.1	93.3	98.0	103.2	106.7	103.2	98.0	93.3	89.1	93.3	98.0
65.5°	73.3	78.0	82.2	87.2	90.4	87.2	82.2	78.0	73.3	78.0	82.2
66°	58.8	64.5	67.7	72.6	75.6	72.6	67.7	64.5	58.8	64.5	67.7



TEST NUMBER: P776141

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	22.5	30.4	33.8	38.0	40.3	38.0	33.8	30.4	22.5	30.4	33.8
68°	13.1	21.0	25.7	28.6	31.4	28.6	25.7	21.0	13.1	21.0	25.7
68.5°	4.9	14.1	18.5	21.7	24.9	21.7	18.5	14.1	4.9	14.1	18.5
69°	2.5	8.4	11.9	15.1	18.5	15.1	11.9	8.4	2.5	8.4	11.9
69.5°	1.5	3.7	6.7	9.9	13.3	9.9	6.7	3.7	1.5	3.7	6.7
70°	0.7	1.7	3.7	5.7	8.1	5.7	3.7	1.7	0.7	1.7	3.7
70.5°	0.2	1.0	2.2	2.7	3.2	2.7	2.2	1.0	0.2	1.0	2.2
71°	0.2	0.5	1.2	1.5	1.2	1.5	1.2	0.5	0.2	0.5	1.2
71.5°	0.2	0.2	0.7	0.7	0.2	0.7	0.7	0.2	0.2	0.2	0.7
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°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776141

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-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: P776141

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
0.5°	1156.2	1155.9	1156.2	1156.2	1156.2	1156.2
1°	1155.9	1155.7	1155.9	1156.2	1156.2	1156.2
1.5°	1155.9	1155.7	1155.9	1155.9	1155.9	1155.9
2°	1155.4	1155.2	1155.4	1155.7	1155.7	1155.7
2.5°	1155.2	1154.7	1155.2	1155.2	1155.2	1154.9
3°	1154.7	1154.2	1154.7	1154.7	1154.7	1154.4
3.5°	1154.0	1153.7	1154.0	1154.0	1154.0	1154.0
4°	1153.2	1152.7	1153.2	1153.2	1153.2	1153.2
4.5°	1152.5	1152.0	1152.5	1152.5	1152.5	1152.5
5°	1151.5	1151.0	1151.5	1151.5	1151.5	1151.5
5.5°	1150.5	1150.0	1150.5	1150.5	1150.5	1150.5
6°	1149.3	1149.0	1149.3	1149.3	1149.5	1149.3
6.5°	1148.0	1147.8	1148.0	1148.3	1148.3	1148.0
7°	1146.8	1146.5	1146.8	1146.8	1146.8	1146.8
7.5°	1145.6	1145.1	1145.6	1145.3	1145.3	1145.3
8°	1143.8	1143.6	1143.8	1143.8	1143.8	1143.8
8.5°	1142.3	1141.9	1142.3	1142.3	1142.3	1142.3
9°	1140.6	1140.4	1140.6	1140.6	1140.6	1140.6
9.5°	1138.9	1138.4	1138.9	1138.9	1138.9	1138.6
10°	1136.9	1136.7	1136.9	1136.9	1136.9	1136.9
10.5°	1134.9	1134.7	1134.9	1134.9	1134.9	1134.9
11°	1133.0	1132.5	1133.0	1132.7	1132.7	1132.7
11.5°	1130.7	1130.2	1130.7	1130.5	1130.5	1130.5
12°	1128.3	1128.0	1128.3	1128.3	1128.3	1128.3
12.5°	1126.0	1125.6	1126.0	1125.8	1125.8	1125.8
13°	1123.3	1123.1	1123.3	1123.3	1123.3	1123.3
13.5°	1120.9	1120.4	1120.9	1120.9	1120.9	1120.6
14°	1118.1	1117.7	1118.1	1118.1	1118.1	1117.9
14.5°	1115.2	1114.9	1115.2	1115.2	1115.2	1115.2
15°	1112.5	1112.0	1112.5	1112.2	1112.2	1112.2
15.5°	1109.3	1109.0	1109.3	1109.3	1109.3	1109.3
16°	1106.3	1105.8	1106.3	1106.3	1106.3	1106.0
16.5°	1103.1	1102.8	1103.1	1103.1	1102.8	1102.8
17°	1099.6	1099.4	1099.6	1099.9	1099.6	1099.6
17.5°	1096.4	1096.2	1096.4	1096.4	1096.2	1096.2
18°	1092.7	1092.5	1092.7	1092.7	1092.7	1092.7
18.5°	1089.3	1088.8	1089.3	1089.3	1089.0	1089.0
19°	1085.5	1085.1	1085.5	1085.5	1085.3	1085.3
19.5°	1081.6	1081.4	1081.6	1081.6	1081.6	1081.6
20°	1077.6	1077.4	1077.6	1077.6	1077.6	1077.6
20.5°	1073.7	1073.2	1073.7	1073.7	1073.7	1073.4
21°	1069.5	1069.3	1069.5	1069.5	1069.5	1069.5



TEST NUMBER: P776141

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1056.7	1056.2	1056.7	1056.7	1056.7	1056.4
23°	1052.0	1051.7	1052.0	1052.0	1052.0	1052.0
23.5°	1047.5	1047.0	1047.5	1047.5	1047.5	1047.3
24°	1042.6	1042.3	1042.6	1042.8	1042.6	1042.6
24.5°	1037.9	1037.4	1037.9	1038.1	1037.9	1037.6
25°	1033.0	1032.5	1033.0	1033.2	1033.0	1033.0
25.5°	1028.0	1027.5	1028.0	1028.3	1028.0	1027.8
26°	1022.8	1022.3	1022.8	1023.1	1022.8	1022.8
26.5°	1017.6	1017.1	1017.6	1017.9	1017.9	1017.6
27°	1012.5	1012.0	1012.5	1012.7	1012.5	1012.5
27.5°	1007.0	1006.5	1007.0	1007.3	1007.3	1007.0
28°	1001.6	1001.1	1001.6	1001.8	1001.8	1001.6
28.5°	996.2	995.7	996.2	996.4	996.2	996.2
29°	990.5	989.7	990.5	990.7	990.7	990.5
29.5°	984.8	984.1	984.8	985.0	985.0	984.8
30°	978.9	978.4	978.9	979.4	979.4	979.1
30.5°	973.2	972.5	973.2	973.4	973.4	973.4
31°	967.0	966.5	967.0	967.8	967.5	967.3
31.5°	961.1	960.4	961.1	961.6	961.6	961.3
32°	955.2	954.2	955.2	955.7	955.7	955.4
32.5°	948.7	948.0	948.7	949.5	949.5	949.2
33°	942.8	941.8	942.8	943.3	943.3	942.8
33.5°	936.4	935.4	936.4	937.1	936.9	936.6
34°	930.0	929.2	930.0	930.7	930.5	930.2
34.5°	923.6	922.8	923.6	924.3	924.1	923.8
35°	917.1	916.1	917.1	917.9	917.6	917.4
35.5°	910.5	909.5	910.5	911.2	911.2	910.7
36°	903.8	902.8	903.8	904.8	904.5	904.3
36.5°	897.1	896.1	897.1	898.1	897.9	897.6
37°	890.2	889.5	890.2	891.2	891.0	890.7
37.5°	883.3	882.3	883.3	884.5	884.3	883.8
38°	876.4	875.6	876.4	877.6	877.1	876.9
38.5°	869.5	868.5	869.5	870.5	870.2	869.7
39°	862.3	861.3	862.3	863.5	863.3	862.8
39.5°	855.2	853.9	855.2	856.1	855.9	855.6
40°	847.7	846.5	847.7	848.7	848.7	848.2
40.5°	840.1	839.1	840.1	841.3	841.1	840.8
41°	832.7	831.4	832.7	833.9	833.7	833.2
41.5°	824.8	823.8	824.8	826.0	825.8	825.5
42°	816.9	815.6	816.9	818.1	817.9	817.6
42.5°	808.7	807.5	808.7	810.0	810.0	809.5
43°	800.3	799.1	800.3	801.6	801.6	801.3
43.5°	791.7	790.5	791.7	792.9	792.9	792.7



TEST NUMBER: P776141

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	763.8	762.6	763.8	765.0	765.3	765.3
45.5°	753.7	752.4	753.7	755.1	755.4	755.4
46°	743.3	741.8	743.3	744.8	745.3	745.3
46.5°	732.2	731.2	732.2	733.9	734.4	734.4
47°	720.8	719.6	720.8	722.3	723.0	723.0
47.5°	709.0	707.7	709.0	710.4	711.2	711.2
48°	696.9	695.9	696.9	698.3	698.8	698.8
48.5°	684.5	683.5	684.5	685.5	686.0	686.0
49°	671.4	670.9	671.4	672.2	672.4	672.4
49.5°	658.1	657.8	658.1	658.8	658.6	658.8
50°	644.5	644.3	644.5	645.0	644.5	644.3
50.5°	630.7	630.7	630.7	630.9	630.2	629.2
51°	616.9	617.4	616.9	616.1	615.4	614.9
51.5°	602.8	603.5	602.8	602.0	601.1	600.8
52°	589.2	590.4	589.2	588.2	587.2	586.7
52.5°	576.4	577.3	576.4	575.1	573.9	573.4
53°	563.5	564.5	563.5	562.5	561.3	560.8
53.5°	550.4	551.2	550.4	549.9	549.4	548.9
54°	537.1	537.1	537.1	537.3	537.3	537.8
54.5°	522.8	521.8	522.8	524.0	525.0	525.5
55°	507.5	506.0	507.5	509.2	510.7	511.7
55.5°	491.2	489.7	491.2	492.6	494.1	495.4
56°	473.4	471.7	473.4	474.9	476.3	477.1
56.5°	454.4	453.1	454.4	455.9	456.3	457.1
57°	434.1	432.6	434.1	435.4	435.6	436.1
57.5°	412.6	411.6	412.6	413.9	413.9	413.9
58°	391.2	390.2	391.2	391.9	391.6	391.4
58.5°	368.9	367.9	368.9	369.2	368.4	368.4
59°	346.5	346.2	346.5	346.2	345.5	345.0
59.5°	324.2	324.2	324.2	323.2	322.0	321.5
60°	302.3	302.0	302.3	300.3	298.8	297.8
60.5°	279.8	280.0	279.8	277.6	275.6	274.4
61°	257.6	258.3	257.6	255.1	253.1	251.6
61.5°	235.6	237.1	235.6	233.4	230.6	229.4
62°	214.6	216.6	214.6	211.9	208.9	207.2
62.5°	194.1	196.1	194.1	191.1	187.2	185.2
63°	174.1	176.3	174.1	170.9	166.4	164.2
63.5°	155.1	158.8	155.1	151.1	146.4	144.2
64°	137.3	141.5	137.3	132.1	127.4	125.0
64.5°	120.0	124.0	120.0	114.6	109.6	106.4
65°	103.2	106.7	103.2	98.0	93.3	89.1
65.5°	87.2	90.4	87.2	82.2	78.0	73.3
66°	72.6	75.6	72.6	67.7	64.5	58.8



TEST NUMBER: P776141

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	38.0	40.3	38.0	33.8	30.4	22.5
68°	28.6	31.4	28.6	25.7	21.0	13.1
68.5°	21.7	24.9	21.7	18.5	14.1	4.9
69°	15.1	18.5	15.1	11.9	8.4	2.5
69.5°	9.9	13.3	9.9	6.7	3.7	1.5
70°	5.7	8.1	5.7	3.7	1.7	0.7
70.5°	2.7	3.2	2.7	2.2	1.0	0.2
71°	1.5	1.2	1.5	1.2	0.5	0.2
71.5°	0.7	0.2	0.7	0.7	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	0.0	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: P776141

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-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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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1065.3	1065.3	1065.3	1065.3	1064.8	1065.3	1065.3	1065.3	1065.3	1065.3	1065.3
22°	1060.9	1060.9	1061.1	1061.1	1060.6	1061.1	1061.1	1060.9	1060.9	1060.9	1061.1



44°	783.8	784.0	783.8	782.6	781.6	782.6	783.8	784.0	783.8	784.0	783.8
44.5°	774.7	774.9	774.9	773.4	771.9	773.4	774.9	774.9	774.7	774.9	774.9



66.5°	46.4	52.1	54.8	59.5	62.2	59.5	54.8	52.1	46.4	52.1	54.8
67°	34.3	40.0	44.0	47.9	50.1	47.9	44.0	40.0	34.3	40.0	44.0



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°	1065.3	1064.8	1065.3	1065.3	1065.3	1065.3
22°	1061.1	1060.6	1061.1	1061.1	1060.9	1060.9



44°	782.6	781.6	782.6	783.8	784.0	783.8
44.5°	773.4	771.9	773.4	774.9	774.9	774.7

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66.5°	59.5	62.2	59.5	54.8	52.1	46.4
67°	47.9	50.1	47.9	44.0	40.0	34.3

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Scaled Data Report



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)