

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: P776213

Luminaire Tested: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B027)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K
Description: 8 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.3 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.3
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

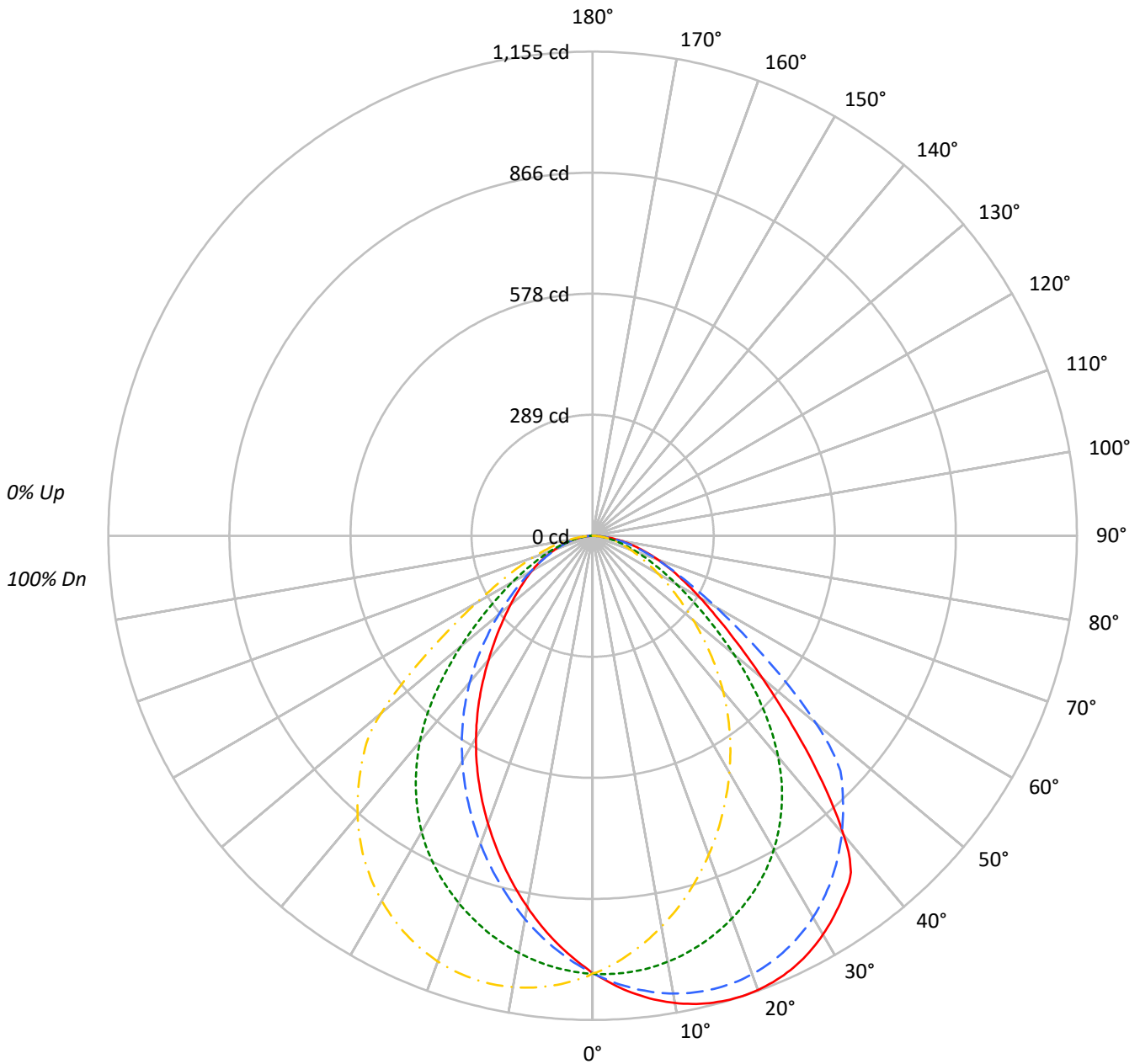
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776213

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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87																			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75																			
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65																			
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57																			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50																			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44																			
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	42	40																			
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	38	36																			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32																			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25024	25024	25024	25024
5°	26345	25139	23480	24876
10°	27553	25127	21884	24602
15°	28583	25006	20254	24241
20°	29419	24790	18633	23797
25°	30048	24470	17020	23282
30°	30418	23928	15397	22568
35°	30587	23014	13729	21518
40°	29167	21539	12070	20058
45°	24368	19288	10661	17935
50°	19760	16421	9520	15295
55°	16375	13474	8649	12709
60°	14190	11054	7994	10594
65°	12704	9231	7370	8925
70°	11568	7789	6667	7558
75°	10525	6550	6050	6383
80°	9445	5399	5303	5233
85°	7703	4209	3439	3852

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 28563 cd/sqm



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CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	4.3
10°-20°	278.4	12.2
20°-30°	411.8	18.1
30°-40°	474.5	20.9
40°-50°	432.1	19.0
50°-60°	295.9	13.0
60°-70°	173.7	7.6
70°-80°	87.6	3.9
80°-90°	21.9	1.0
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°	788.6	34.7
0°-40°	1263.1	55.5
0°-60°	1991.1	87.5
0°-90°	2274.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1044	1044	1044	1044	1044	
5°	1094	1044	976	1034	1094	106
15°	1151	1007	816	976	1151	326
25°	1136	925	643	880	1136	523
35°	1045	786	469	735	1045	650
45°	719	569	314	529	719	555
55°	392	322	207	304	392	356
65°	224	163	130	157	224	224
75°	114	71	65	69	114	121
85°	28	15	12	14	28	32
90°	0	0	0	0	0	



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
0.5°	1047.7	1048.0	1048.0	1046.7	1045.4	1043.6	1042.1	1036.0	1035.8	1036.3	1038.6
1°	1053.6	1053.3	1052.3	1049.5	1045.7	1041.6	1038.3	1030.4	1029.4	1030.4	1033.7
1.5°	1059.2	1058.9	1056.4	1051.8	1046.2	1039.6	1034.2	1024.8	1023.3	1024.3	1028.9
2°	1064.5	1064.2	1060.7	1054.3	1046.2	1037.3	1029.9	1019.0	1016.7	1018.0	1023.8
2.5°	1070.1	1069.3	1064.7	1056.6	1046.2	1035.0	1025.6	1013.1	1010.1	1011.9	1018.7
3°	1075.2	1074.2	1068.8	1058.9	1046.2	1032.7	1021.3	1006.8	1003.5	1005.5	1013.4
3.5°	1080.3	1079.0	1072.6	1060.9	1045.9	1030.2	1016.7	1000.7	996.6	998.9	1008.1
4°	1085.3	1083.8	1076.2	1062.7	1045.7	1027.4	1011.9	994.6	989.8	992.3	1002.5
4.5°	1089.9	1088.4	1079.5	1064.5	1045.2	1024.8	1007.3	988.2	982.6	985.4	996.9
5°	1094.5	1092.7	1083.0	1066.3	1044.4	1021.8	1002.2	981.4	975.5	978.6	991.0
5.5°	1099.1	1097.0	1086.4	1067.8	1043.6	1019.0	997.1	975.0	968.2	971.7	985.2
6°	1103.4	1101.1	1089.4	1069.1	1042.9	1015.7	992.1	968.2	960.8	964.6	979.3
6.5°	1107.4	1104.9	1092.2	1070.3	1041.9	1012.6	986.7	961.6	953.7	957.5	973.5
7°	1111.5	1109.0	1095.0	1071.4	1040.9	1009.1	981.4	954.4	945.8	950.1	967.1
7.5°	1115.3	1112.5	1097.8	1072.6	1039.6	1005.8	975.8	947.3	938.4	943.0	961.0
8°	1118.9	1116.1	1100.3	1073.4	1038.3	1002.2	970.2	940.2	930.5	935.4	954.7
8.5°	1122.2	1119.4	1102.6	1074.2	1037.0	998.4	964.3	933.1	922.7	928.0	948.3
9°	1125.5	1122.4	1104.7	1074.7	1035.5	994.8	958.8	926.0	914.8	920.1	941.7
9.5°	1128.8	1125.5	1106.9	1075.2	1033.7	990.8	952.9	918.6	906.9	912.7	935.4
10°	1131.6	1128.3	1108.7	1075.4	1032.0	986.7	946.8	911.0	898.8	904.9	928.8
10.5°	1134.4	1130.8	1110.5	1075.7	1029.9	982.6	940.7	903.6	890.9	897.0	921.9
11°	1137.2	1133.4	1112.0	1075.7	1027.9	978.3	934.4	896.0	882.8	889.4	915.0
11.5°	1139.5	1135.7	1113.5	1075.7	1025.9	974.0	928.3	888.3	874.6	881.2	907.9
12°	1141.8	1137.7	1114.8	1075.4	1023.6	969.7	921.9	880.7	866.2	873.4	901.1
12.5°	1143.8	1139.7	1115.8	1075.2	1021.3	965.1	915.5	872.8	858.1	865.5	894.2
13°	1145.8	1141.5	1116.9	1074.7	1018.7	960.5	908.9	865.0	849.7	857.1	887.1
13.5°	1147.4	1143.0	1117.6	1073.9	1015.9	955.7	902.3	857.1	841.3	849.0	880.0
14°	1148.9	1144.6	1118.4	1073.1	1013.1	950.9	895.5	849.0	832.9	840.8	872.6
14.5°	1150.4	1145.8	1118.9	1072.4	1010.4	946.0	888.9	841.1	824.5	832.7	865.2
15°	1151.4	1146.8	1119.1	1071.4	1007.3	940.7	882.0	832.7	815.9	824.3	857.8
15.5°	1152.4	1147.9	1119.4	1070.1	1004.3	935.6	875.1	824.8	807.5	816.2	850.5
16°	1153.2	1148.6	1119.1	1068.8	1000.9	930.3	868.0	816.7	798.9	807.8	843.1
16.5°	1154.0	1149.1	1118.9	1067.3	997.9	924.9	860.9	808.5	790.5	799.6	835.7
17°	1154.2	1149.4	1118.6	1065.8	994.3	919.6	853.8	800.1	781.8	791.0	827.9
17.5°	1154.5	1149.4	1118.1	1064.0	990.8	914.0	846.4	792.0	773.2	782.9	820.5
18°	1154.7	1149.6	1117.4	1062.2	987.2	908.4	839.3	783.9	764.6	774.0	812.9
18.5°	1154.5	1149.4	1116.6	1060.2	983.4	902.8	831.9	775.5	755.9	765.8	805.0
19°	1154.2	1148.9	1115.6	1057.9	979.3	897.0	824.5	767.1	747.3	757.4	797.4
19.5°	1153.7	1148.4	1114.3	1055.6	975.5	891.1	817.2	759.0	738.9	749.1	789.7
20°	1152.9	1147.6	1113.0	1053.3	971.5	885.3	809.8	750.6	730.2	740.4	781.6
20.5°	1152.2	1146.8	1111.5	1050.8	967.4	879.2	802.2	742.2	721.4	731.8	773.7
21°	1150.9	1145.6	1109.7	1048.2	963.1	873.4	794.6	733.6	712.7	723.4	766.1



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1146.6	1141.0	1103.6	1039.3	949.9	854.5	771.4	708.6	686.8	698.0	742.2
23°	1144.8	1139.2	1101.3	1036.0	945.0	848.2	763.8	700.0	678.1	689.3	734.3
23.5°	1142.8	1137.2	1098.8	1032.7	940.2	841.8	756.2	691.4	669.5	680.9	726.4
24°	1140.5	1134.9	1096.3	1029.4	935.4	835.2	748.3	683.0	660.9	672.3	718.3
24.5°	1138.2	1132.4	1093.2	1025.9	930.3	828.6	740.4	674.6	652.0	663.9	710.2
25°	1135.7	1129.8	1090.2	1022.0	924.9	822.0	732.5	666.2	643.3	655.3	702.3
25.5°	1132.6	1127.0	1086.9	1018.0	919.6	814.9	724.7	657.8	634.9	646.6	694.4
26°	1129.6	1124.0	1083.8	1014.2	914.3	808.0	716.8	649.2	626.0	638.2	686.0
26.5°	1126.5	1120.7	1080.3	1009.8	908.7	801.2	708.9	640.5	617.1	629.6	678.1
27°	1123.2	1117.4	1076.4	1005.8	902.8	794.0	700.8	631.9	608.5	621.2	670.0
27.5°	1119.6	1113.8	1072.6	1001.2	896.7	786.9	692.9	623.5	600.1	612.3	661.9
28°	1115.6	1110.0	1068.6	996.4	890.6	779.6	684.8	615.1	591.2	603.9	653.7
28.5°	1111.8	1105.9	1064.5	991.5	884.3	772.2	676.9	606.5	582.3	595.3	645.9
29°	1107.4	1101.6	1060.2	986.7	877.9	764.6	668.7	597.8	573.7	586.6	637.5
29.5°	1103.1	1097.3	1055.9	981.6	871.1	757.2	660.6	589.4	565.0	578.0	629.3
30°	1098.6	1093.0	1051.0	976.3	864.2	749.3	652.5	580.5	556.1	569.4	621.2
30.5°	1094.0	1088.1	1046.2	970.7	857.1	741.4	644.6	572.2	547.2	560.7	613.1
31°	1088.9	1083.3	1041.4	964.9	850.0	733.3	636.2	563.3	538.6	552.3	604.9
31.5°	1083.8	1078.2	1036.3	959.0	842.6	725.4	627.8	554.9	530.0	543.7	596.8
32°	1078.7	1073.1	1030.9	952.7	835.0	717.3	619.7	546.2	521.3	535.0	588.7
32.5°	1073.1	1067.5	1025.3	946.3	827.1	708.6	611.3	537.6	512.4	526.4	580.5
33°	1067.8	1062.2	1019.8	939.9	819.2	700.3	603.2	528.7	504.0	517.8	572.4
33.5°	1062.2	1056.4	1013.9	933.1	811.3	691.9	594.8	520.6	495.1	509.4	564.3
34°	1056.4	1050.8	1008.3	926.2	802.9	683.5	586.4	511.7	486.2	500.7	555.6
34.5°	1050.5	1044.7	1002.0	919.1	794.6	674.8	578.0	503.0	477.6	492.1	547.5
35°	1044.9	1038.6	995.9	911.7	786.2	666.2	569.6	494.4	469.0	483.7	539.4
35.5°	1039.3	1032.5	989.3	903.9	777.3	657.3	561.0	486.0	460.3	475.1	531.0
36°	1034.0	1026.1	982.9	896.2	768.4	648.9	552.6	477.3	451.7	466.4	522.6
36.5°	1027.9	1020.0	976.3	888.1	759.0	640.0	544.2	468.4	443.0	457.8	514.2
37°	1020.8	1013.9	969.2	880.0	749.8	630.9	535.6	459.8	434.6	449.1	505.8
37.5°	1011.9	1007.8	962.3	871.8	740.2	621.7	526.7	451.4	426.3	440.7	497.4
38°	998.9	1002.0	954.9	863.2	730.0	612.8	518.3	442.8	417.9	432.4	489.0
38.5°	985.4	995.1	947.6	854.3	720.1	603.7	509.6	434.1	409.7	423.7	480.6
39°	969.2	987.5	940.2	844.9	709.7	594.5	501.0	425.7	401.6	415.6	472.3
39.5°	951.1	976.5	932.6	835.7	699.2	585.1	492.3	417.4	393.5	407.2	463.6
40°	931.8	964.6	924.7	826.1	688.1	575.7	483.7	409.0	385.6	399.1	455.2
40.5°	910.7	949.4	917.1	815.9	677.1	566.6	475.1	400.6	378.0	390.9	446.8
41°	890.6	933.6	908.9	805.2	665.9	556.9	466.2	392.7	370.3	383.3	438.2
41.5°	868.8	913.8	900.8	794.6	654.5	547.5	457.5	384.6	363.0	375.2	429.6
42°	847.9	895.7	892.4	783.1	642.8	537.8	448.9	376.7	355.6	367.5	421.2
42.5°	826.1	874.9	884.0	771.4	630.9	528.4	440.2	368.8	348.5	359.9	412.8
43°	804.5	855.6	875.9	759.2	618.9	518.8	431.6	361.2	341.4	352.5	404.4
43.5°	782.4	834.0	867.3	747.5	606.7	508.9	423.0	353.3	334.2	344.9	395.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	718.6	771.2	842.3	707.6	568.8	479.9	397.0	331.4	314.4	323.8	370.8
45.5°	696.4	749.6	834.0	694.2	556.1	470.0	388.4	324.3	307.8	317.0	362.7
46°	677.1	729.2	824.3	680.2	543.4	460.3	379.7	317.2	301.7	310.1	354.3
46.5°	655.5	707.4	814.4	665.7	530.5	450.4	371.4	310.3	295.4	303.5	346.2
47°	637.5	688.1	800.1	650.9	517.5	440.7	362.7	303.7	289.3	297.1	338.3
47.5°	616.1	666.7	786.7	635.7	504.3	430.8	354.3	297.4	283.4	290.8	330.4
48°	599.3	648.2	769.4	620.2	491.8	421.2	345.9	290.5	277.6	284.7	322.8
48.5°	579.3	626.8	753.1	604.7	478.6	411.5	337.5	284.2	271.7	278.6	314.9
49°	563.5	609.5	733.6	589.2	465.7	401.9	329.4	278.1	266.1	272.5	307.3
49.5°	544.4	589.4	715.3	573.4	452.9	392.2	321.3	272.0	260.8	266.6	299.9
50°	529.7	572.9	694.4	557.7	440.2	382.5	313.1	265.9	255.2	260.8	292.6
50.5°	511.9	554.4	674.3	541.4	427.0	372.9	305.3	260.0	249.9	255.2	285.2
51°	498.2	537.8	653.5	525.1	414.8	363.5	297.6	254.2	245.0	249.9	278.1
51.5°	481.7	520.6	633.4	509.1	402.4	354.3	290.0	248.3	239.9	244.3	271.2
52°	468.4	505.3	612.1	493.4	390.2	344.9	282.4	243.0	234.9	238.9	264.3
52.5°	453.7	489.5	592.5	477.6	378.0	335.5	275.0	237.4	229.8	233.8	257.5
53°	441.3	474.5	571.9	461.6	366.5	326.4	267.9	232.1	224.9	228.5	250.9
53.5°	427.5	459.8	552.6	445.8	354.8	317.5	260.8	226.7	220.4	223.7	244.3
54°	415.3	445.3	532.5	430.3	343.6	308.6	253.7	221.9	215.8	218.8	238.2
54.5°	403.1	432.1	513.7	415.3	332.5	299.7	246.8	217.1	211.5	214.3	231.8
55°	391.7	418.1	495.4	400.3	322.3	291.0	240.2	212.0	206.9	209.4	225.7
55.5°	380.8	407.2	476.8	386.1	311.6	282.4	233.6	207.2	202.6	204.9	219.6
56°	369.6	393.2	459.8	372.1	301.5	274.0	227.0	202.3	198.0	200.3	214.0
56.5°	359.9	383.3	442.3	358.6	291.5	265.9	220.9	197.5	194.2	195.7	208.4
57°	348.7	370.3	426.5	345.4	282.1	257.7	214.8	193.4	190.1	191.4	202.8
57.5°	340.3	361.2	409.7	333.0	272.7	249.9	208.9	189.1	186.1	187.1	197.2
58°	329.9	349.2	394.7	320.5	263.8	242.2	202.8	184.8	182.0	182.8	191.6
58.5°	322.3	339.8	380.0	309.1	255.2	234.6	197.0	180.5	177.9	178.7	186.3
59°	312.1	329.4	365.5	297.9	246.6	227.2	190.9	176.1	174.1	174.6	181.0
59.5°	305.3	320.3	352.3	287.2	238.4	220.4	185.3	172.1	170.3	170.6	175.9
60°	295.9	310.6	338.6	276.8	230.5	213.5	179.7	168.0	166.7	166.7	170.8
60.5°	288.2	300.9	326.9	266.9	222.7	206.6	174.6	163.9	162.9	162.9	166.0
61°	280.1	292.8	313.7	257.2	215.5	199.8	169.3	159.9	159.4	159.1	161.1
61.5°	272.5	283.2	303.0	248.3	208.4	192.9	163.9	156.1	155.8	155.6	156.6
62°	265.1	275.8	291.5	239.7	201.1	186.3	159.1	152.5	152.3	151.7	151.7
62.5°	257.7	267.1	280.4	231.3	193.9	180.2	154.3	148.7	148.4	148.2	147.4
63°	250.6	259.5	270.7	223.2	187.6	173.9	149.5	145.1	144.6	144.6	143.1
63.5°	243.8	251.6	260.5	215.5	181.0	168.0	144.6	141.6	141.1	141.1	138.8
64°	237.1	243.8	251.4	207.7	174.9	162.2	140.1	138.0	137.3	137.5	134.7
64.5°	230.3	236.9	242.2	200.5	168.8	156.6	135.7	134.5	133.4	133.7	130.6
65°	223.9	229.5	233.1	193.7	162.7	151.0	131.4	130.9	129.9	130.1	126.6
65.5°	217.6	222.9	225.2	186.8	156.8	145.6	127.3	127.1	126.3	126.6	122.8
66°	211.2	216.1	216.8	180.2	151.2	140.3	123.3	123.5	122.8	123.3	119.0



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	193.2	196.2	194.2	161.7	135.2	125.1	111.6	113.4	112.3	113.1	108.3
68°	187.6	190.1	187.1	156.1	130.1	120.5	108.0	110.1	108.8	109.8	105.0
68.5°	181.7	184.0	180.5	150.5	125.3	115.9	104.5	107.0	105.5	106.5	101.4
69°	176.1	178.2	173.6	144.9	120.5	111.3	100.9	103.7	101.9	103.2	98.1
69.5°	170.8	172.3	167.2	139.5	115.7	106.8	97.6	100.4	98.6	100.1	95.1
70°	165.0	166.5	161.1	134.2	111.1	102.4	94.3	97.3	95.1	96.8	91.8
70.5°	159.6	160.6	155.0	129.1	106.5	98.4	91.2	94.3	92.0	93.8	88.7
71°	154.3	155.0	149.2	124.3	102.2	94.6	87.9	91.0	88.5	90.5	85.7
71.5°	148.9	149.7	143.4	119.5	97.9	90.5	84.9	87.9	85.4	87.2	82.6
72°	143.9	144.4	137.8	114.6	93.8	86.4	81.8	84.6	82.4	84.1	79.8
72.5°	138.8	139.0	132.4	109.8	89.7	82.9	78.8	81.6	79.6	81.1	77.0
73°	133.7	134.0	127.1	105.5	85.7	79.0	76.0	78.5	76.8	78.3	74.2
73.5°	128.4	128.6	121.8	100.9	81.8	75.5	73.2	75.7	73.7	75.2	71.4
74°	123.5	123.5	116.7	96.6	78.0	71.9	70.4	72.9	70.9	72.4	68.6
74.5°	118.7	118.4	111.6	92.3	74.5	68.6	67.6	69.9	68.1	69.4	65.8
75°	113.6	113.6	106.8	88.5	70.7	65.3	65.1	67.4	65.3	66.6	63.0
75.5°	109.0	108.8	101.9	84.4	67.1	62.0	62.3	64.3	62.5	63.8	60.5
76°	104.2	104.0	97.3	80.6	63.8	59.0	59.7	61.5	59.7	61.0	57.7
76.5°	99.4	99.1	92.8	76.5	60.5	55.9	57.2	58.7	57.2	58.2	54.9
77°	94.8	94.6	88.5	72.7	57.2	52.9	54.6	55.9	54.4	55.4	52.6
77.5°	90.5	90.0	84.1	68.9	53.9	50.1	51.9	53.1	51.9	52.6	49.8
78°	86.2	85.7	79.8	65.1	50.8	47.3	49.3	50.3	49.1	49.8	47.3
78.5°	81.6	81.3	75.5	61.5	47.8	44.5	46.8	47.8	46.5	47.3	44.7
79°	77.3	76.8	71.2	58.0	45.0	41.9	44.5	45.0	43.7	44.5	42.2
79.5°	72.7	72.4	66.8	54.4	41.9	39.4	41.9	42.2	41.2	41.9	39.7
80°	68.4	68.1	62.8	51.1	39.1	36.9	39.4	39.4	38.4	39.4	37.1
80.5°	64.1	63.8	58.7	47.5	36.3	34.6	37.1	36.6	35.8	36.6	34.6
81°	60.0	59.7	54.9	44.5	33.8	32.3	34.6	33.8	33.3	34.1	32.3
81.5°	55.7	55.4	51.1	41.2	31.3	30.0	32.0	31.0	30.5	31.3	29.7
82°	51.6	51.6	47.3	38.1	28.7	27.7	29.5	28.5	28.0	28.7	27.5
82.5°	47.5	47.5	43.5	35.1	26.2	25.7	27.2	25.7	25.4	26.2	24.9
83°	43.5	43.5	39.9	32.0	24.1	23.6	24.7	23.1	22.6	23.4	22.6
83.5°	39.4	39.7	36.1	29.0	21.9	21.6	22.4	20.3	20.1	20.8	20.3
84°	35.6	35.8	32.5	26.4	19.6	19.6	20.1	17.8	17.5	18.3	18.0
84.5°	31.8	32.0	29.2	23.6	17.3	17.5	18.0	15.3	15.0	15.8	16.0
85°	28.0	28.2	25.9	21.1	15.3	15.5	15.8	12.5	12.5	13.0	13.7
85.5°	24.1	24.4	22.9	18.3	13.0	13.5	13.5	10.2	9.9	10.7	11.7
86°	20.3	20.8	19.8	16.0	10.9	11.7	11.4	8.1	7.9	8.4	9.7
86.5°	16.5	17.3	17.0	13.5	9.2	9.7	9.4	6.4	6.1	6.6	7.6
87°	13.0	14.0	14.0	11.2	7.4	7.6	7.4	4.6	4.6	5.1	5.8
87.5°	10.4	11.2	11.2	8.6	5.6	5.8	5.6	3.1	3.1	3.3	3.8
88°	8.4	8.6	8.6	6.6	3.8	4.1	3.6	1.5	1.5	1.8	2.0
88.5°	6.4	6.6	6.6	4.6	2.3	2.0	1.8	0.5	0.5	0.5	0.5



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
0.5°	1041.1	1044.4	1047.0	1049.8	1046.7	1047.7
1°	1038.1	1043.6	1048.5	1053.3	1051.8	1053.6
1.5°	1035.0	1042.6	1050.0	1056.6	1056.6	1059.2
2°	1031.7	1041.9	1051.3	1059.9	1061.4	1064.5
2.5°	1028.4	1040.6	1052.5	1063.2	1066.3	1070.1
3°	1024.8	1039.6	1053.6	1066.0	1071.1	1075.2
3.5°	1021.3	1038.1	1054.3	1069.1	1075.4	1080.3
4°	1017.7	1036.8	1055.1	1071.9	1079.7	1085.3
4.5°	1013.9	1035.3	1055.9	1074.4	1083.8	1089.9
5°	1009.8	1033.5	1056.4	1076.7	1087.9	1094.5
5.5°	1006.0	1031.7	1056.9	1079.0	1091.4	1099.1
6°	1002.0	1029.9	1057.1	1081.3	1095.2	1103.4
6.5°	997.6	1027.9	1057.1	1083.3	1098.8	1107.4
7°	993.3	1025.6	1057.1	1085.3	1102.1	1111.5
7.5°	988.7	1023.6	1057.1	1086.9	1105.4	1115.3
8°	984.2	1021.0	1056.9	1088.4	1108.5	1118.9
8.5°	979.6	1018.7	1056.6	1089.9	1111.3	1122.2
9°	975.0	1015.9	1055.9	1091.2	1114.1	1125.5
9.5°	970.2	1013.4	1055.3	1092.2	1116.6	1128.8
10°	965.1	1010.4	1054.6	1093.2	1118.9	1131.6
10.5°	960.3	1007.6	1053.8	1094.0	1121.2	1134.4
11°	955.2	1004.5	1052.8	1094.7	1123.2	1137.2
11.5°	949.9	1001.5	1051.5	1095.2	1125.0	1139.5
12°	944.5	998.2	1050.3	1095.8	1126.8	1141.8
12.5°	939.2	994.8	1049.0	1096.0	1128.3	1143.8
13°	933.8	991.3	1047.2	1096.0	1129.6	1145.8
13.5°	928.3	987.7	1045.7	1095.8	1130.8	1147.4
14°	922.7	984.2	1043.9	1095.5	1131.8	1148.9
14.5°	916.8	980.4	1041.9	1095.2	1132.6	1150.4
15°	911.0	976.5	1039.8	1094.5	1133.1	1151.4
15.5°	905.1	972.5	1037.5	1093.7	1133.6	1152.4
16°	899.3	968.4	1035.3	1093.0	1134.1	1153.2
16.5°	893.2	964.3	1033.0	1091.9	1134.1	1154.0
17°	887.1	960.0	1030.4	1090.7	1134.1	1154.2
17.5°	880.7	955.7	1027.6	1089.4	1133.9	1154.5
18°	874.6	951.1	1024.8	1087.9	1133.4	1154.7
18.5°	868.3	946.6	1022.0	1086.1	1132.9	1154.5
19°	861.9	942.0	1019.0	1084.3	1132.1	1154.2
19.5°	855.6	937.4	1015.7	1082.3	1131.1	1153.7
20°	849.0	932.6	1012.6	1080.3	1129.8	1152.9
20.5°	842.3	927.7	1009.1	1078.0	1128.5	1152.2
21°	835.7	922.7	1005.5	1075.2	1127.0	1150.9



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	815.7	907.4	994.3	1067.0	1121.4	1146.6
23°	808.8	902.1	990.5	1064.0	1119.1	1144.8
23.5°	801.9	896.7	986.5	1060.7	1116.9	1142.8
24°	795.1	891.4	982.4	1057.4	1114.3	1140.5
24.5°	787.9	885.8	978.1	1053.8	1111.5	1138.2
25°	781.1	880.0	973.8	1050.3	1108.5	1135.7
25.5°	774.0	874.1	969.2	1046.4	1105.2	1132.6
26°	766.9	868.3	964.6	1042.4	1102.1	1129.6
26.5°	759.5	862.2	959.8	1038.3	1098.6	1126.5
27°	752.4	856.1	954.9	1034.0	1094.7	1123.2
27.5°	745.0	849.7	949.9	1029.7	1090.9	1119.6
28°	737.6	843.1	944.5	1025.1	1086.9	1115.6
28.5°	729.7	836.5	939.2	1020.5	1082.5	1111.8
29°	722.4	829.6	933.6	1015.7	1078.2	1107.4
29.5°	714.5	822.5	928.0	1010.9	1073.4	1103.1
30°	706.6	815.1	921.9	1005.8	1068.8	1098.6
30.5°	698.7	807.8	915.5	1000.7	1064.0	1094.0
31°	690.6	800.4	909.4	995.1	1058.9	1088.9
31.5°	682.7	792.5	902.8	989.8	1053.6	1083.8
32°	674.6	784.6	896.0	984.2	1048.2	1078.7
32.5°	666.2	776.8	888.9	978.3	1042.6	1073.1
33°	658.1	768.6	881.7	972.5	1036.8	1067.8
33.5°	649.4	760.5	874.4	966.1	1030.9	1062.2
34°	640.8	751.9	866.7	960.0	1025.1	1056.4
34.5°	632.4	743.7	858.9	953.7	1019.0	1050.5
35°	624.3	735.1	851.0	947.1	1012.6	1044.9
35.5°	615.4	726.4	842.9	940.5	1006.3	1039.3
36°	606.7	717.3	834.7	933.6	999.9	1034.0
36.5°	598.1	708.4	826.1	926.5	993.3	1027.9
37°	589.7	699.2	817.4	919.1	986.7	1020.8
37.5°	580.8	689.8	808.5	911.7	980.1	1011.9
38°	572.2	680.2	799.4	904.1	973.8	998.9
38.5°	563.3	670.5	790.0	896.2	967.4	985.4
39°	554.9	660.9	780.6	888.3	961.3	969.2
39.5°	545.5	651.2	770.4	880.2	953.9	951.1
40°	536.8	640.8	760.5	871.8	946.3	931.8
40.5°	527.9	630.4	750.1	863.4	934.4	910.7
41°	519.0	619.9	739.1	855.1	922.7	890.6
41.5°	510.1	609.3	728.0	846.2	907.4	868.8
42°	501.2	598.3	716.8	837.3	891.7	847.9
42.5°	492.3	587.1	705.1	828.4	873.1	826.1
43°	483.4	575.7	692.9	819.5	855.8	804.5
43.5°	474.3	564.3	680.2	810.1	836.0	782.4

TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	447.1	528.9	639.8	781.3	777.8	718.6
45.5°	437.7	516.7	625.8	771.4	757.4	696.4
46°	428.5	505.0	611.0	762.0	737.9	677.1
46.5°	419.4	493.1	596.6	751.9	717.8	655.5
47°	410.2	480.9	581.6	742.2	698.5	637.5
47.5°	401.3	469.0	566.8	731.3	678.1	616.1
48°	391.9	457.0	551.8	720.1	659.3	599.3
48.5°	383.0	445.1	536.6	707.6	639.8	579.3
49°	373.9	433.4	521.6	691.6	621.7	563.5
49.5°	365.0	421.9	506.8	676.4	602.9	544.4
50°	356.1	410.0	491.8	658.3	585.9	529.7
50.5°	347.0	398.5	476.8	640.0	567.3	511.9
51°	338.3	387.1	461.8	621.0	550.5	498.2
51.5°	329.4	376.2	447.4	601.1	533.8	481.7
52°	320.8	365.0	433.1	581.0	518.3	468.4
52.5°	312.1	354.3	419.1	562.2	501.7	453.7
53°	303.5	343.9	404.9	542.7	486.0	441.3
53.5°	295.4	333.7	391.4	523.6	471.8	427.5
54°	287.0	323.3	378.5	504.5	456.8	415.3
54.5°	278.8	313.7	365.8	486.5	443.3	403.1
55°	270.7	304.0	353.6	469.0	428.3	391.7
55.5°	262.8	294.8	341.4	451.2	416.3	380.8
56°	254.9	285.7	329.7	434.6	402.1	369.6
56.5°	247.6	276.8	318.7	418.1	391.2	359.9
57°	239.9	267.9	307.8	402.6	377.5	348.7
57.5°	232.6	259.5	297.4	387.4	367.3	340.3
58°	225.5	251.4	287.2	372.9	354.8	329.9
58.5°	218.8	243.5	277.8	358.9	344.9	322.3
59°	212.2	235.9	268.7	344.9	334.0	312.1
59.5°	205.6	228.3	259.8	332.7	323.8	305.3
60°	199.0	220.9	250.9	320.0	314.2	295.9
60.5°	192.2	213.5	242.7	308.1	304.5	288.2
61°	185.8	206.6	234.6	296.4	295.9	280.1
61.5°	180.0	200.0	227.0	285.4	286.2	272.5
62°	173.9	193.4	219.6	275.0	278.6	265.1
62.5°	168.0	186.8	212.5	265.1	269.7	257.7
63°	162.2	180.7	205.1	255.4	261.8	250.6
63.5°	156.8	174.6	198.5	246.3	253.9	243.8
64°	151.5	168.5	191.9	236.9	245.8	237.1
64.5°	146.2	162.7	185.5	228.8	238.7	230.3
65°	140.8	157.3	179.2	220.4	231.0	223.9
65.5°	135.7	151.5	173.1	212.7	224.4	217.6
66°	130.9	146.2	167.2	204.9	217.3	211.2



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	116.9	130.6	150.5	184.0	197.2	193.2
68°	112.6	126.1	144.9	176.9	191.1	187.6
68.5°	108.3	121.2	139.8	170.8	185.0	181.7
69°	104.2	116.7	134.7	164.5	178.7	176.1
69.5°	99.9	112.1	129.9	158.4	172.8	170.8
70°	96.1	107.8	125.1	152.5	167.0	165.0
70.5°	92.0	103.2	120.2	146.7	161.1	159.6
71°	88.2	99.1	115.4	141.1	155.8	154.3
71.5°	84.6	94.8	111.1	135.5	150.2	148.9
72°	81.1	91.2	106.5	130.1	144.6	143.9
72.5°	77.5	87.4	102.2	125.1	139.3	138.8
73°	74.0	83.6	97.9	119.7	134.0	133.7
73.5°	70.7	79.8	93.5	114.9	128.9	128.4
74°	67.4	76.0	89.7	110.1	123.8	123.5
74.5°	64.3	72.4	85.9	105.0	118.7	118.7
75°	61.3	68.9	82.1	100.4	113.6	113.6
75.5°	58.2	65.3	78.0	95.8	108.8	109.0
76°	55.2	62.0	74.2	90.5	104.2	104.2
76.5°	52.4	58.7	70.4	86.4	99.4	99.4
77°	49.8	55.7	66.8	82.4	94.6	94.8
77.5°	47.3	52.4	63.3	78.3	90.0	90.5
78°	44.5	49.3	59.7	74.0	85.7	86.2
78.5°	41.9	46.5	56.4	69.9	81.3	81.6
79°	39.7	43.5	52.9	65.8	77.0	77.3
79.5°	37.4	40.7	49.6	61.8	72.4	72.7
80°	35.1	37.9	46.3	57.7	68.1	68.4
80.5°	32.8	35.3	43.2	53.9	63.8	64.1
81°	30.5	32.5	40.2	50.1	59.7	60.0
81.5°	28.2	30.0	37.1	46.3	55.7	55.7
82°	26.2	27.7	34.1	42.4	51.3	51.6
82.5°	23.9	25.2	31.3	38.9	47.5	47.5
83°	21.9	22.9	28.5	35.3	43.5	43.5
83.5°	19.8	20.6	25.7	31.8	39.7	39.4
84°	17.8	18.3	22.9	28.5	35.6	35.6
84.5°	15.8	16.3	20.3	25.2	31.8	31.8
85°	13.7	14.0	17.8	22.1	28.2	28.0
85.5°	11.7	12.2	15.3	19.3	24.4	24.1
86°	9.7	10.2	13.0	16.3	20.8	20.3
86.5°	7.9	8.4	10.7	13.5	17.5	16.5
87°	5.8	6.6	8.6	10.9	14.5	13.0
87.5°	3.8	4.8	6.6	8.1	11.7	10.4
88°	2.0	3.1	4.6	6.1	9.2	8.4
88.5°	0.5	1.3	2.5	4.1	6.9	6.4



TEST NUMBER: P776213

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.3	0.3



Report Generated By 670245859 / DESKTOP-T8S5UU9

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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°	1149.6	1144.3	1108.0	1045.4	958.8	867.0	786.9	725.2	704.3	715.0	758.2
22°	1148.4	1142.8	1105.9	1042.4	954.4	860.9	779.3	716.8	695.4	706.6	750.1



44°	761.0	813.1	858.9	734.6	594.3	499.2	414.3	346.2	327.6	337.8	387.4
44.5°	739.1	791.8	850.5	721.4	581.8	489.5	405.7	338.6	320.8	330.7	379.2



66.5°	205.4	209.2	208.9	173.9	145.9	135.0	119.2	120.2	119.2	119.7	115.4
67°	199.3	202.8	201.6	167.8	140.6	130.1	115.4	116.9	115.7	116.4	111.8



89°	4.3	4.3	4.3	2.5	0.8	0.5	0.5	0.3	0.0	0.3	0.3
89.5°	2.3	2.3	2.3	0.5	0.0	0.0	0.0	0.3	0.0	0.3	0.0

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21.5°	829.1	917.6	1002.0	1072.6	1125.5	1149.6
22°	822.5	912.5	998.2	1070.1	1123.5	1148.4



44°	465.1	552.6	667.2	800.7	817.4	761.0
44.5°	456.2	540.9	653.7	791.0	797.1	739.1



66.5°	126.3	141.1	161.4	197.7	210.5	205.4
67°	121.5	136.0	155.8	190.6	204.1	199.3



89°	0.0	0.3	0.5	2.0	4.6	4.3
89.5°	0.0	0.0	0.0	0.3	2.5	2.3

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Scaled Data Report



(END OF REPORT)