

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: P775794

Luminaire Tested: HCDJBL510CSD-HCD6TSQC-1000lm-5000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2310613A001)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD6TSQC-1000lm-5000K  
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

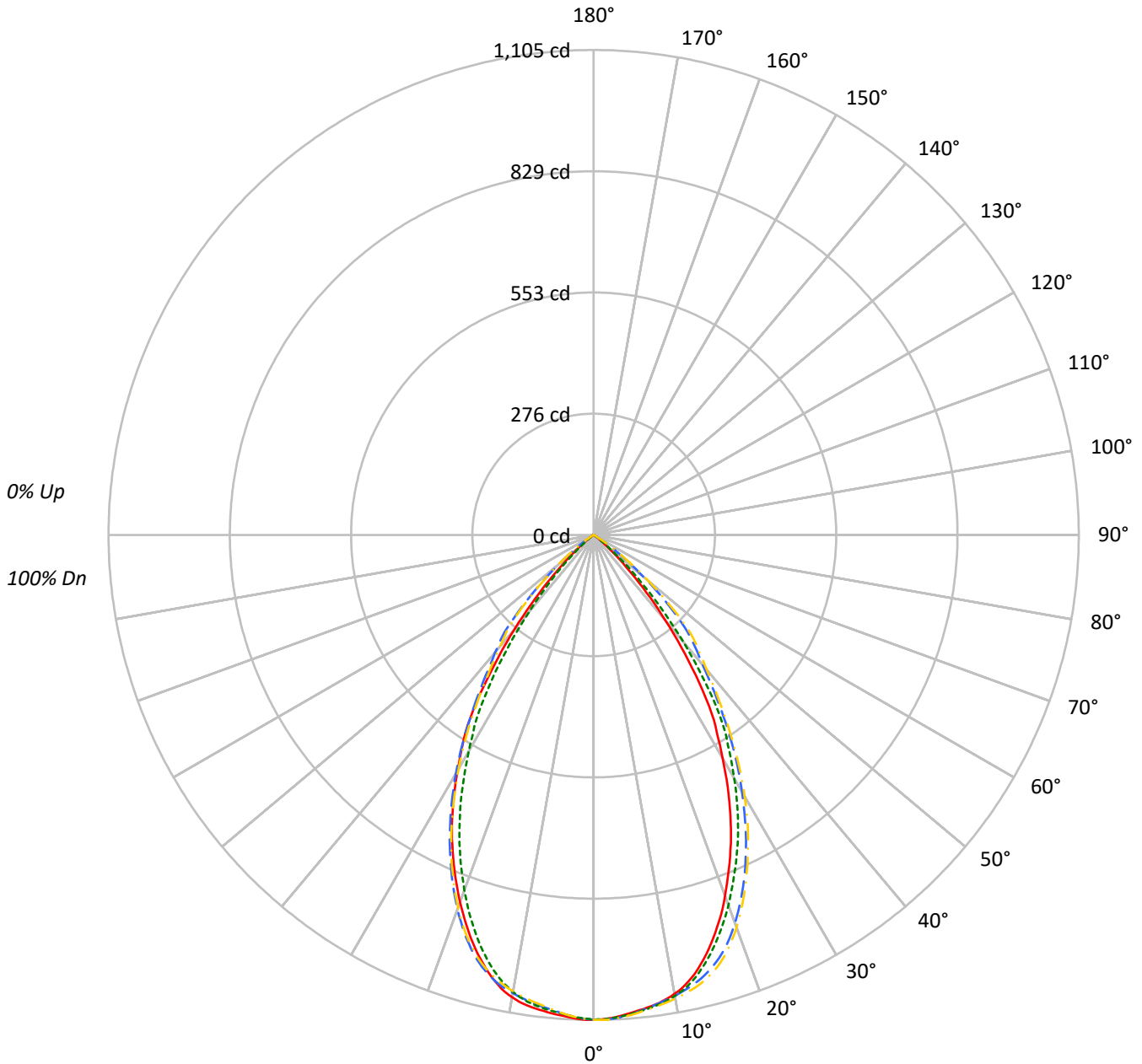
Lumens per Lamp: N/A  
Luminaire Lumens: 1204.8 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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	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	99	97	97	96	95	93
	1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	91	89	87	85	85	
	2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	83	81	80	79	79	
	3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	77	75	74	72	72	
	4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	71	68	67	67	
	5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67	67	67	66	63	62	62	
	6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62	62	62	61	59	57	57	
	7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57	57	57	56	54	51	49	
	8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53	53	53	52	50	47	46	
	9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	49	48	46	43	41	
	10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46	46	46	45	43	41	39	

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

	0°	90°	180°	270°
0°	47564	47564	47564	47564
5°	47119	47218	47287	47054
10°	46417	46623	46763	46247
15°	44124	44619	44530	43634
20°	40087	41122	40779	39450
25°	35155	36860	36276	34338
30°	29179	31828	30809	28244
35°	22749	26244	24462	21329
40°	14338	17755	15777	12944
45°	6935	9481	7910	5931
50°	2103	3322	2492	1695
55°	278	255	248	218
60°	189	198	198	164
65°	163	163	173	143
70°	138	151	151	113
75°	116	116	116	100
80°	99	99	99	74
85°	49	99	49	49

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 18383 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.3	8.6
10°-20°	279.9	23.2
20°-30°	353.9	29.4
30°-40°	299.0	24.8
40°-50°	144.3	12.0
50°-60°	21.6	1.8
60°-70°	1.8	0.2
70°-80°	0.8	0.1
80°-90°	0.2	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°	737.1	61.2
0°-40°	1036.1	86.0
0°-60°	1202.0	99.8
0°-90°	1204.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1105	1105	1105	1105	1105	
5°	1090	1092	1094	1089	1090	103
15°	990	1001	999	979	990	276
25°	740	776	764	723	740	337
35°	433	499	465	406	433	265
45°	114	156	130	97	114	93
55°	4	3	3	3	4	7
65°	2	2	2	1	2	2
75°	1	1	1	1	1	1
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°	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7
0.5°	1104.8	1104.9	1104.8	1104.9	1103.7	1104.5	1105.2	1105.8	1105.1	1104.3	1104.0
1°	1104.1	1104.7	1104.7	1104.9	1103.6	1104.7	1105.3	1105.6	1104.9	1103.4	1103.0
1.5°	1103.1	1104.0	1104.2	1104.7	1103.2	1104.2	1105.2	1105.1	1104.1	1102.3	1101.7
2°	1101.9	1103.2	1103.6	1104.2	1102.2	1103.7	1104.7	1104.0	1102.9	1100.8	1100.1
2.5°	1100.2	1102.2	1102.6	1103.4	1101.1	1102.7	1103.7	1102.9	1101.7	1099.1	1098.3
3°	1098.6	1100.6	1101.3	1102.3	1099.9	1101.6	1102.4	1101.3	1100.2	1097.2	1096.0
3.5°	1096.4	1098.9	1099.5	1100.8	1098.3	1100.0	1100.8	1099.9	1098.6	1095.3	1093.9
4°	1094.1	1096.9	1097.6	1099.0	1096.4	1098.5	1099.0	1098.1	1096.9	1093.3	1091.3
4.5°	1092.0	1094.5	1095.4	1097.1	1094.5	1096.5	1097.2	1096.5	1095.7	1091.2	1088.9
5°	1090.2	1092.3	1092.8	1095.0	1092.5	1094.4	1095.1	1095.0	1094.1	1089.3	1086.4
5.5°	1088.1	1090.2	1090.4	1092.6	1090.7	1092.4	1092.9	1093.3	1092.5	1087.3	1084.2
6°	1086.0	1088.1	1087.5	1090.1	1088.8	1090.4	1090.8	1091.4	1090.8	1085.2	1082.2
6.5°	1083.8	1086.1	1084.9	1087.6	1086.8	1088.4	1088.5	1089.5	1089.4	1083.0	1079.7
7°	1081.8	1083.8	1082.4	1085.3	1084.6	1086.1	1086.3	1087.7	1087.5	1080.6	1077.3
7.5°	1079.0	1081.3	1079.7	1082.7	1082.4	1083.8	1084.1	1085.6	1085.4	1077.9	1074.7
8°	1076.5	1078.9	1077.3	1080.0	1079.8	1081.4	1082.0	1083.5	1083.0	1075.1	1072.2
8.5°	1073.3	1076.1	1074.5	1077.3	1077.2	1078.7	1079.7	1081.0	1080.5	1072.2	1069.6
9°	1069.7	1073.2	1071.7	1074.4	1074.0	1075.8	1077.5	1078.2	1077.4	1068.9	1066.8
9.5°	1065.8	1069.8	1069.1	1071.2	1070.5	1072.9	1075.1	1075.5	1073.7	1065.1	1063.7
10°	1061.7	1066.1	1066.1	1068.0	1066.4	1069.5	1072.8	1071.7	1069.6	1060.9	1060.4
10.5°	1057.3	1062.2	1063.1	1064.5	1062.4	1065.7	1070.2	1067.9	1065.3	1056.6	1057.5
11°	1052.1	1058.2	1060.0	1060.5	1057.8	1061.5	1067.5	1063.4	1060.2	1052.0	1053.8
11.5°	1046.2	1053.7	1056.8	1056.6	1052.8	1057.3	1064.5	1059.2	1054.7	1046.6	1049.8
12°	1039.9	1048.8	1053.1	1052.1	1047.0	1052.9	1061.3	1054.0	1048.2	1040.7	1045.3
12.5°	1032.9	1043.2	1049.2	1047.5	1040.5	1047.5	1058.2	1048.5	1041.1	1034.2	1040.6
13°	1025.3	1037.0	1045.1	1042.4	1033.6	1042.1	1054.4	1042.3	1033.7	1027.0	1035.1
13.5°	1017.0	1030.4	1040.6	1037.2	1026.0	1035.7	1050.2	1035.7	1025.7	1019.5	1029.4
14°	1008.4	1023.3	1035.9	1031.2	1018.0	1029.1	1045.5	1028.5	1017.1	1011.6	1023.0
14.5°	999.5	1015.8	1030.7	1024.5	1009.7	1021.7	1040.6	1020.7	1008.2	1003.3	1016.4
15°	989.9	1007.6	1025.1	1017.3	1001.0	1014.2	1035.5	1012.8	999.0	994.6	1008.9
15.5°	979.8	999.3	1019.1	1009.9	992.0	1006.3	1029.7	1004.6	989.5	986.0	1001.0
16°	969.4	990.3	1012.7	1002.2	982.5	998.3	1023.3	996.2	979.5	976.6	992.3
16.5°	958.7	981.1	1005.4	993.9	972.9	989.9	1016.3	987.1	969.4	967.0	983.1
17°	947.9	971.6	998.0	985.3	963.0	980.9	1008.6	977.5	958.8	957.0	973.3
17.5°	936.3	961.5	989.9	976.5	952.8	971.9	1000.3	968.0	947.5	947.0	963.7
18°	925.0	951.6	981.1	967.5	941.9	962.6	991.4	958.2	936.5	936.3	952.8
18.5°	913.3	941.2	972.0	958.0	931.2	953.0	982.1	948.0	925.2	925.4	941.7
19°	901.0	930.4	962.1	948.3	920.3	943.1	972.1	937.4	913.7	914.4	930.5
19.5°	888.1	919.4	952.0	938.1	909.2	933.0	961.9	926.9	901.9	903.7	919.5
20°	874.9	907.9	941.4	928.2	897.5	922.5	951.3	915.9	890.0	891.8	907.0
20.5°	861.7	896.7	930.4	917.8	885.4	912.0	940.2	904.7	877.9	880.1	894.8
21°	847.9	884.8	919.1	907.3	873.3	900.8	928.7	893.4	865.4	868.6	882.2



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CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	809.3	846.6	883.5	873.9	836.8	866.5	893.3	858.8	828.1	831.7	843.8
23°	795.8	833.7	871.0	862.2	825.3	854.2	880.5	846.9	815.2	819.6	830.2
23.5°	781.7	821.1	858.3	850.5	813.0	842.1	868.2	834.9	802.3	806.5	816.7
24°	768.1	808.8	845.3	838.3	800.6	830.1	855.3	822.7	789.4	793.4	803.2
24.5°	754.1	796.2	832.3	826.2	788.2	818.7	842.2	809.7	776.5	780.1	789.6
25°	740.0	783.1	818.9	814.2	775.9	806.0	828.4	796.8	763.6	767.0	776.1
25.5°	725.5	769.5	805.5	802.4	763.5	793.5	815.0	783.8	749.9	754.6	762.6
26°	710.8	755.8	791.4	789.9	750.6	780.8	801.7	770.8	736.2	740.8	747.2
26.5°	695.9	741.8	777.4	776.9	737.2	768.1	788.2	757.9	721.9	727.0	732.8
27°	681.0	728.0	763.3	764.2	723.8	756.5	774.8	744.1	707.9	713.0	717.8
27.5°	665.6	713.6	748.7	751.4	710.2	743.4	761.4	730.3	693.6	699.0	703.0
28°	650.0	699.7	734.4	738.1	696.6	729.7	746.6	716.5	679.1	685.3	687.5
28.5°	634.2	684.9	719.3	725.0	682.9	716.3	732.3	702.6	664.3	671.2	672.9
29°	618.6	670.8	704.5	711.2	668.9	702.8	717.3	688.2	649.8	656.7	658.0
29.5°	602.8	655.9	689.8	697.3	654.8	689.8	702.0	673.9	634.6	642.8	643.2
30°	586.9	641.7	675.6	684.2	640.2	675.6	686.8	659.6	619.7	628.4	627.5
30.5°	572.2	626.4	660.9	670.3	625.7	661.9	672.5	645.3	605.2	614.0	612.5
31°	557.7	611.5	646.0	657.2	611.6	648.0	657.8	630.9	591.7	599.3	596.7
31.5°	542.0	596.3	631.1	643.2	598.3	635.0	642.7	616.2	576.6	585.1	581.2
32°	528.3	581.4	616.7	629.3	583.7	620.5	627.4	602.1	563.7	571.4	565.3
32.5°	516.7	566.1	601.6	614.9	569.5	606.8	612.2	587.6	549.3	558.2	549.6
33°	503.3	552.3	586.2	601.6	558.4	592.7	596.4	574.3	535.1	544.1	533.9
33.5°	486.6	538.3	570.9	587.9	545.0	580.3	581.3	560.2	519.0	531.4	518.4
34°	470.2	523.7	555.9	574.3	530.5	565.9	565.7	546.4	502.1	518.0	503.3
34.5°	451.5	510.7	540.7	560.8	515.6	551.6	550.4	534.4	484.4	504.4	488.1
35°	432.8	499.5	525.7	547.3	499.3	540.1	535.1	519.8	465.4	489.7	473.1
35.5°	414.5	486.8	510.2	533.4	482.6	528.9	520.3	506.2	446.0	474.1	458.6
36°	396.7	471.1	495.0	522.7	464.0	514.1	505.6	491.0	426.5	457.0	444.2
36.5°	377.1	455.9	480.4	509.1	445.3	501.1	491.3	474.6	406.7	439.9	430.5
37°	359.5	438.0	465.8	495.7	425.6	485.7	476.8	457.6	387.8	422.1	417.0
37.5°	342.0	420.8	451.7	481.9	406.9	470.0	463.1	439.9	369.5	404.1	404.1
38°	324.4	403.7	437.4	466.6	387.7	453.0	449.8	421.8	351.3	386.1	391.3
38.5°	306.9	387.3	424.0	450.6	369.5	436.1	436.9	403.1	333.9	368.1	379.4
39°	289.0	370.6	410.5	433.4	351.5	418.1	424.5	385.2	316.4	351.0	368.1
39.5°	271.8	353.8	397.7	415.9	333.8	400.2	412.1	367.4	298.6	334.3	358.2
40°	255.1	337.1	386.1	398.3	315.9	382.3	400.5	350.3	280.7	318.2	348.1
40.5°	238.6	320.4	376.3	379.9	298.4	365.0	389.5	333.8	263.2	302.5	337.6
41°	223.2	303.7	366.5	363.2	280.9	347.7	380.1	317.4	246.1	286.2	330.9
41.5°	208.1	287.1	356.7	346.4	263.6	331.2	370.5	301.2	229.5	270.3	321.8
42°	193.2	270.7	346.9	329.6	246.4	314.8	359.8	285.1	213.6	254.3	310.9
42.5°	178.4	254.3	337.1	312.9	229.6	299.1	351.8	268.9	198.6	238.6	300.2
43°	164.3	238.9	327.4	297.0	213.8	282.5	345.1	252.6	183.7	223.3	286.3
43.5°	150.8	224.2	317.2	281.1	198.4	266.1	334.7	236.4	169.6	208.4	272.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	113.9	181.2	283.0	233.8	155.7	219.3	301.9	192.4	129.9	167.0	228.9
45.5°	102.5	167.5	270.5	218.8	142.5	204.4	288.8	178.8	117.7	153.8	214.4
46°	91.8	154.2	257.2	204.1	129.8	190.1	275.0	165.2	107.4	141.0	200.4
46.5°	81.5	141.3	243.8	190.1	117.3	176.6	260.5	152.2	97.2	128.7	186.6
47°	71.7	128.9	230.2	176.5	107.0	162.8	245.0	139.6	87.0	117.4	173.4
47.5°	62.5	117.0	216.5	163.5	96.6	149.8	229.9	127.5	76.7	107.3	160.2
48°	54.0	105.5	202.2	150.8	86.2	137.2	215.4	115.7	66.6	97.2	147.8
48.5°	46.6	95.1	188.0	138.3	75.9	125.1	201.3	105.8	58.3	87.1	135.8
49°	40.0	84.6	173.9	126.2	65.5	113.0	187.7	95.9	50.7	77.1	124.2
49.5°	35.6	74.8	161.0	114.7	57.2	102.6	174.4	86.0	43.7	66.9	113.0
50°	31.4	65.5	148.1	103.8	49.6	92.2	161.8	76.1	37.2	58.7	103.2
50.5°	27.2	57.2	136.3	93.5	42.4	81.9	149.6	66.2	31.5	50.8	93.4
51°	22.9	49.3	124.4	83.2	35.9	71.5	138.0	57.6	26.1	43.8	83.6
51.5°	18.8	42.3	113.5	73.8	30.2	62.7	126.2	50.1	21.4	37.0	73.6
52°	15.6	36.0	102.7	65.0	24.8	54.4	114.7	42.7	17.9	31.0	65.4
52.5°	12.6	31.8	92.9	56.8	19.9	46.6	104.8	36.3	14.4	25.5	57.6
53°	9.6	27.5	83.3	49.0	16.6	39.5	94.9	30.1	10.9	20.8	50.3
53.5°	6.7	23.2	74.1	42.0	13.3	33.0	84.8	24.8	7.2	17.3	43.6
54°	4.6	19.0	65.3	35.4	9.9	27.4	74.9	19.9	3.8	13.7	37.6
54.5°	4.0	15.9	57.7	30.2	6.6	22.2	65.0	16.6	3.5	10.2	32.1
55°	3.7	12.8	50.2	24.9	3.4	18.4	57.2	13.2	3.3	6.8	27.1
55.5°	3.3	9.9	43.6	19.7	3.2	14.7	49.5	9.9	3.2	3.5	22.7
56°	3.0	7.0	37.5	14.6	3.1	11.1	42.4	6.5	3.1	3.2	18.9
56.5°	2.9	4.7	33.0	10.6	3.0	7.5	35.9	3.2	3.0	3.1	15.6
57°	2.8	4.3	28.6	7.0	2.9	3.7	30.2	3.0	2.9	3.0	13.5
57.5°	2.7	3.8	24.2	4.2	2.8	3.1	24.8	3.0	2.8	2.9	11.5
58°	2.6	3.4	19.7	3.7	2.7	3.0	20.2	2.9	2.8	2.8	9.5
58.5°	2.5	3.1	15.2	3.3	2.6	2.9	16.3	2.8	2.7	2.7	7.6
59°	2.5	2.7	12.4	3.0	2.5	2.8	14.1	2.7	2.6	2.6	5.5
59.5°	2.3	2.6	10.0	2.6	2.5	2.7	11.8	2.6	2.5	2.6	4.5
60°	2.2	2.5	8.1	2.5	2.3	2.6	9.6	2.5	2.3	2.5	3.7
60.5°	2.1	2.5	6.6	2.5	2.2	2.5	7.5	2.5	2.3	2.3	3.1
61°	2.1	2.3	5.3	2.3	2.1	2.5	5.2	2.3	2.2	2.2	2.7
61.5°	2.0	2.2	4.4	2.2	2.1	2.3	4.3	2.2	2.1	2.2	2.3
62°	2.0	2.2	3.9	2.2	2.0	2.2	3.5	2.2	2.0	2.1	2.2
62.5°	1.9	2.1	3.5	2.1	1.9	2.2	3.0	2.1	2.0	2.0	2.1
63°	1.8	2.0	3.0	2.0	1.9	2.1	2.6	2.0	1.9	2.0	2.0
63.5°	1.8	2.0	2.6	2.0	1.8	2.0	2.3	2.0	1.9	1.9	1.9
64°	1.7	1.9	2.1	1.9	1.8	2.0	2.1	1.9	1.8	1.8	1.9
64.5°	1.7	1.8	2.0	1.9	1.7	1.9	2.1	1.9	1.7	1.8	1.8
65°	1.6	1.8	2.0	1.8	1.6	1.8	2.0	1.8	1.7	1.7	1.8
65.5°	1.6	1.7	1.9	1.7	1.6	1.8	1.9	1.7	1.6	1.7	1.7
66°	1.5	1.7	1.8	1.7	1.5	1.7	1.9	1.7	1.6	1.6	1.7





TEST NUMBER: P775794

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.4	1.5	1.7	1.5	1.4	1.6	1.7	1.5	1.4	1.5	1.5
68°	1.3	1.5	1.6	1.5	1.3	1.5	1.6	1.5	1.4	1.4	1.4
68.5°	1.3	1.4	1.6	1.4	1.3	1.4	1.6	1.4	1.3	1.3	1.4
69°	1.2	1.4	1.5	1.4	1.2	1.4	1.5	1.4	1.3	1.3	1.3
69.5°	1.2	1.3	1.5	1.4	1.2	1.3	1.5	1.3	1.2	1.2	1.3
70°	1.1	1.3	1.4	1.3	1.2	1.3	1.4	1.3	1.2	1.2	1.2
70.5°	1.1	1.2	1.4	1.3	1.1	1.3	1.4	1.2	1.1	1.2	1.2
71°	1.1	1.2	1.3	1.2	1.1	1.2	1.3	1.2	1.1	1.1	1.1
71.5°	1.0	1.1	1.3	1.2	1.0	1.2	1.3	1.1	1.0	1.1	1.1
72°	1.0	1.1	1.2	1.1	1.0	1.1	1.2	1.1	1.0	1.0	1.0
72.5°	0.9	1.0	1.2	1.1	1.0	1.1	1.2	1.1	1.0	1.0	1.0
73°	0.9	1.0	1.1	1.1	0.9	1.0	1.1	1.0	0.9	0.9	1.0
73.5°	0.9	1.0	1.1	1.0	0.9	1.0	1.1	1.0	0.9	0.9	0.9
74°	0.7	0.9	1.0	1.0	0.9	1.0	1.0	0.9	0.9	0.9	0.9
74.5°	0.7	0.9	1.0	0.9	0.7	0.9	1.0	0.9	0.7	0.7	0.7
75°	0.7	0.7	0.9	0.9	0.7	0.9	1.0	0.9	0.7	0.7	0.7
75.5°	0.6	0.7	0.9	0.9	0.7	0.9	0.9	0.7	0.7	0.7	0.6
76°	0.6	0.7	0.9	0.7	0.7	0.7	0.9	0.7	0.6	0.6	0.6
76.5°	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.6
77°	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.5
77.5°	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
78°	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.4
78.5°	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.4
79°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
79.5°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3
80°	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.3
80.5°	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.3
81°	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2
82°	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.2
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
83°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2
84°	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1
84.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1
85°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
85.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
86°	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1
86.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
87°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775794  
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-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: P775794

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7
0.5°	1103.6	1103.1	1103.6	1104.1	1105.2	1104.8
1°	1102.3	1102.3	1102.6	1103.0	1104.3	1104.1
1.5°	1101.0	1101.1	1101.4	1101.7	1103.5	1103.1
2°	1099.4	1099.8	1099.7	1100.1	1102.3	1101.9
2.5°	1097.6	1098.1	1098.0	1098.1	1100.4	1100.2
3°	1095.6	1096.2	1095.9	1095.9	1098.7	1098.6
3.5°	1093.7	1094.1	1093.6	1093.6	1096.4	1096.4
4°	1091.7	1092.4	1091.3	1091.0	1093.9	1094.1
4.5°	1089.7	1090.6	1089.1	1088.0	1091.4	1092.0
5°	1087.6	1088.7	1087.0	1085.1	1089.0	1090.2
5.5°	1085.3	1086.9	1084.6	1082.3	1086.7	1088.1
6°	1082.7	1084.8	1082.2	1079.6	1084.3	1086.0
6.5°	1080.3	1082.6	1079.6	1077.1	1081.8	1083.8
7°	1077.4	1080.2	1077.0	1074.5	1079.1	1081.8
7.5°	1074.4	1077.5	1073.9	1071.7	1076.2	1079.0
8°	1071.1	1074.5	1070.6	1068.7	1073.3	1076.5
8.5°	1067.4	1071.0	1067.0	1065.8	1070.1	1073.3
9°	1063.1	1066.7	1063.2	1062.6	1066.7	1069.7
9.5°	1058.7	1062.4	1059.1	1059.5	1062.9	1065.8
10°	1053.8	1057.8	1054.5	1056.0	1059.1	1061.7
10.5°	1048.4	1052.1	1049.4	1052.3	1054.9	1057.3
11°	1042.6	1046.3	1044.0	1048.5	1050.4	1052.1
11.5°	1036.5	1039.5	1038.3	1044.2	1045.6	1046.2
12°	1029.7	1032.3	1031.8	1039.7	1040.3	1039.9
12.5°	1022.5	1024.5	1024.8	1034.5	1034.2	1032.9
13°	1014.8	1016.5	1017.3	1029.3	1027.8	1025.3
13.5°	1006.7	1007.8	1009.5	1023.7	1021.0	1017.0
14°	998.3	998.5	1001.3	1017.6	1013.5	1008.4
14.5°	989.7	988.9	992.7	1011.0	1005.9	999.5
15°	980.5	978.9	983.5	1003.6	997.3	989.9
15.5°	971.1	968.6	973.9	995.9	988.6	979.8
16°	961.2	957.9	964.1	987.4	979.4	969.4
16.5°	951.1	946.6	954.0	978.6	970.0	958.7
17°	940.8	935.3	943.8	969.3	960.3	947.9
17.5°	930.2	923.7	933.1	959.2	949.8	936.3
18°	919.1	912.1	921.9	949.0	939.4	925.0
18.5°	908.6	899.7	910.6	938.2	928.6	913.3
19°	896.9	887.0	899.3	927.0	917.6	901.0
19.5°	885.4	874.1	887.6	915.4	906.3	888.1
20°	873.1	861.0	875.7	903.4	894.7	874.9
20.5°	861.1	847.4	862.8	890.3	883.0	861.7
21°	848.6	834.2	850.5	878.2	870.5	847.9

TEST NUMBER: P775794

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	810.6	794.0	811.3	838.1	831.4	809.3
23°	797.9	780.2	798.5	825.2	818.0	795.8
23.5°	785.1	766.4	785.7	811.0	805.1	781.7
24°	772.4	752.0	771.7	796.9	792.6	768.1
24.5°	759.6	737.5	757.8	782.0	779.7	754.1
25°	745.4	722.8	743.8	768.1	765.5	740.0
25.5°	730.9	708.1	729.4	753.2	751.7	725.5
26°	716.5	692.9	715.0	737.9	737.4	710.8
26.5°	702.1	677.9	700.6	721.7	723.5	695.9
27°	687.3	662.3	686.2	707.1	708.6	681.0
27.5°	672.3	646.5	671.0	691.6	694.1	665.6
28°	657.4	630.6	656.0	675.7	679.1	650.0
28.5°	642.1	614.6	641.1	660.3	664.3	634.2
29°	626.7	598.5	625.7	645.2	649.2	618.6
29.5°	611.1	583.0	610.4	630.5	634.6	602.8
30°	595.7	568.1	594.8	615.5	619.1	586.9
30.5°	580.4	553.6	579.5	600.2	603.9	572.2
31°	565.1	537.9	564.2	584.6	588.4	557.7
31.5°	550.8	524.4	549.1	568.7	573.4	542.0
32°	536.5	512.1	535.0	552.8	558.0	528.3
32.5°	521.6	496.0	520.9	537.0	542.9	516.7
33°	508.6	480.7	505.7	521.5	529.2	503.3
33.5°	496.5	461.9	493.6	505.5	514.8	486.6
34°	481.1	442.7	481.2	489.7	500.2	470.2
34.5°	466.8	424.2	465.3	474.1	488.3	451.5
35°	449.2	405.8	450.3	458.7	476.5	432.8
35.5°	431.5	388.5	432.4	443.7	461.7	414.5
36°	414.0	370.4	414.8	429.3	447.3	396.7
36.5°	397.0	352.1	397.9	414.8	430.6	377.1
37°	380.1	333.9	380.5	401.2	413.2	359.5
37.5°	363.4	315.8	364.1	387.9	395.6	342.0
38°	346.8	297.6	347.5	376.5	377.0	324.4
38.5°	329.7	279.8	331.1	365.1	361.5	306.9
39°	312.5	262.4	314.7	353.7	345.9	289.0
39.5°	295.3	246.1	298.1	342.3	330.5	271.8
40°	278.4	230.3	281.0	330.9	314.9	255.1
40.5°	262.3	215.2	264.8	321.4	298.3	238.6
41°	246.6	199.8	248.7	313.2	281.9	223.2
41.5°	231.5	185.1	233.9	304.2	265.5	208.1
42°	216.7	170.3	219.2	295.9	249.8	193.2
42.5°	202.2	157.2	205.4	287.1	234.9	178.4
43°	188.0	144.1	191.4	273.8	220.5	164.3
43.5°	174.4	131.6	177.7	261.2	206.3	150.8

TEST NUMBER: P775794

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	135.5	97.4	139.0	219.1	166.0	113.9
45.5°	123.3	87.0	126.9	206.3	153.0	102.5
46°	111.8	77.1	115.6	193.5	140.7	91.8
46.5°	101.6	67.5	104.9	180.9	128.6	81.5
47°	91.3	58.7	94.5	168.2	117.2	71.7
47.5°	81.2	50.6	84.3	156.6	106.4	62.5
48°	71.0	43.6	74.9	144.6	95.8	54.0
48.5°	62.1	37.4	66.2	133.2	85.6	46.6
49°	53.8	33.4	57.9	122.3	76.3	40.0
49.5°	46.3	29.3	50.3	111.9	67.2	35.6
50°	39.8	25.3	43.3	101.9	58.7	31.4
50.5°	34.0	21.2	37.0	92.5	50.7	27.2
51°	29.0	17.3	32.8	83.8	43.9	22.9
51.5°	24.6	14.2	28.7	75.5	37.7	18.8
52°	20.9	11.2	24.5	67.6	33.5	15.6
52.5°	17.6	8.3	20.2	60.3	29.2	12.6
53°	14.8	5.5	16.2	53.3	25.0	9.6
53.5°	12.0	3.6	13.1	46.8	20.8	6.7
54°	9.3	3.3	10.1	40.8	16.6	4.6
54.5°	6.5	3.1	7.4	35.4	13.5	4.0
55°	3.8	2.9	4.8	30.4	10.6	3.7
55.5°	2.9	2.7	4.3	26.8	7.7	3.3
56°	2.8	2.6	3.8	23.1	5.1	3.0
56.5°	2.7	2.5	3.3	19.6	3.3	2.9
57°	2.6	2.3	2.8	16.0	3.1	2.8
57.5°	2.5	2.2	2.2	12.4	3.0	2.7
58°	2.3	2.2	2.2	9.9	2.8	2.6
58.5°	2.3	2.1	2.1	7.9	2.6	2.5
59°	2.2	2.0	2.1	6.3	2.5	2.5
59.5°	2.1	2.0	2.0	5.1	2.5	2.3
60°	2.1	1.9	1.9	4.0	2.3	2.2
60.5°	2.0	1.8	1.9	3.6	2.2	2.1
61°	1.9	1.8	1.8	3.1	2.2	2.1
61.5°	1.9	1.7	1.8	2.6	2.1	2.0
62°	1.8	1.7	1.7	2.0	2.0	2.0
62.5°	1.8	1.6	1.7	1.9	2.0	1.9
63°	1.7	1.6	1.6	1.9	1.9	1.8
63.5°	1.6	1.5	1.6	1.8	1.9	1.8
64°	1.6	1.5	1.5	1.8	1.8	1.7
64.5°	1.5	1.4	1.5	1.7	1.7	1.7
65°	1.5	1.4	1.4	1.7	1.7	1.6
65.5°	1.4	1.3	1.4	1.6	1.6	1.6
66°	1.4	1.3	1.3	1.6	1.6	1.5



TEST NUMBER: P775794

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.3	1.1	1.2	1.4	1.4	1.4
68°	1.2	1.1	1.2	1.4	1.4	1.3
68.5°	1.2	1.1	1.1	1.3	1.3	1.3
69°	1.1	1.0	1.1	1.3	1.3	1.2
69.5°	1.1	1.0	1.1	1.2	1.3	1.2
70°	1.0	0.9	1.0	1.2	1.2	1.1
70.5°	1.0	0.9	1.0	1.2	1.2	1.1
71°	1.0	0.9	0.9	1.1	1.1	1.1
71.5°	0.9	0.7	0.9	1.1	1.1	1.0
72°	0.9	0.7	0.9	1.0	1.0	1.0
72.5°	0.7	0.7	0.7	1.0	1.0	0.9
73°	0.7	0.7	0.7	0.9	1.0	0.9
73.5°	0.7	0.6	0.7	0.9	0.9	0.9
74°	0.6	0.6	0.7	0.9	0.9	0.7
74.5°	0.6	0.6	0.6	0.7	0.9	0.7
75°	0.6	0.6	0.6	0.7	0.7	0.7
75.5°	0.6	0.5	0.6	0.6	0.7	0.6
76°	0.5	0.5	0.5	0.6	0.6	0.6
76.5°	0.5	0.5	0.5	0.6	0.6	0.6
77°	0.5	0.5	0.5	0.5	0.6	0.6
77.5°	0.4	0.4	0.5	0.5	0.5	0.5
78°	0.4	0.4	0.4	0.5	0.5	0.5
78.5°	0.4	0.4	0.4	0.4	0.5	0.5
79°	0.4	0.4	0.4	0.4	0.5	0.4
79.5°	0.3	0.3	0.4	0.4	0.4	0.4
80°	0.3	0.3	0.3	0.3	0.4	0.4
80.5°	0.3	0.3	0.3	0.3	0.4	0.4
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.2	0.3	0.3	0.3	0.3	0.3
82°	0.2	0.2	0.2	0.2	0.3	0.3
82.5°	0.2	0.2	0.2	0.2	0.2	0.3
83°	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.1	0.2	0.2	0.1	0.2	0.2
84.5°	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.1	0.1	0.1	0.1	0.1	0.1
85.5°	0.1	0.1	0.1	0.1	0.1	0.1
86°	0.1	0.1	0.1	0.1	0.1	0.1
86.5°	0.0	0.1	0.1	0.1	0.1	0.1
87°	0.0	0.0	0.0	0.0	0.0	0.1
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: P775794  
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQC-1000lm-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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



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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°	834.9	872.3	907.4	896.5	861.0	889.4	917.3	882.1	853.3	856.9	870.1
22°	822.1	859.6	895.5	885.3	848.8	878.0	905.5	870.7	841.3	844.0	856.9



44°	137.8	209.8	308.6	265.4	183.4	250.1	325.3	221.1	155.9	194.1	257.9
44.5°	125.5	195.2	295.9	249.4	169.6	234.9	314.3	206.7	142.6	180.3	243.4



66.5°	1.5	1.6	1.8	1.6	1.5	1.7	1.8	1.6	1.5	1.6	1.6
67°	1.4	1.6	1.7	1.6	1.4	1.6	1.8	1.6	1.5	1.5	1.5



89°	0.0	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	0.0



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Scaled Data Report





21.5°	835.9	821.3	837.4	865.3	857.7	834.9
22°	823.4	808.1	824.6	852.2	844.3	822.1



44°	160.9	119.4	164.0	247.4	192.9	137.8
44.5°	147.6	108.3	151.3	233.3	179.3	125.5



66.5°	1.4	1.2	1.3	1.5	1.5	1.5
67°	1.3	1.2	1.3	1.5	1.5	1.4

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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)