

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: P776140

Luminaire Tested: HCDJBL51525CSD-HCD81TRMB-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776140  
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-2700K  
Description: 8 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

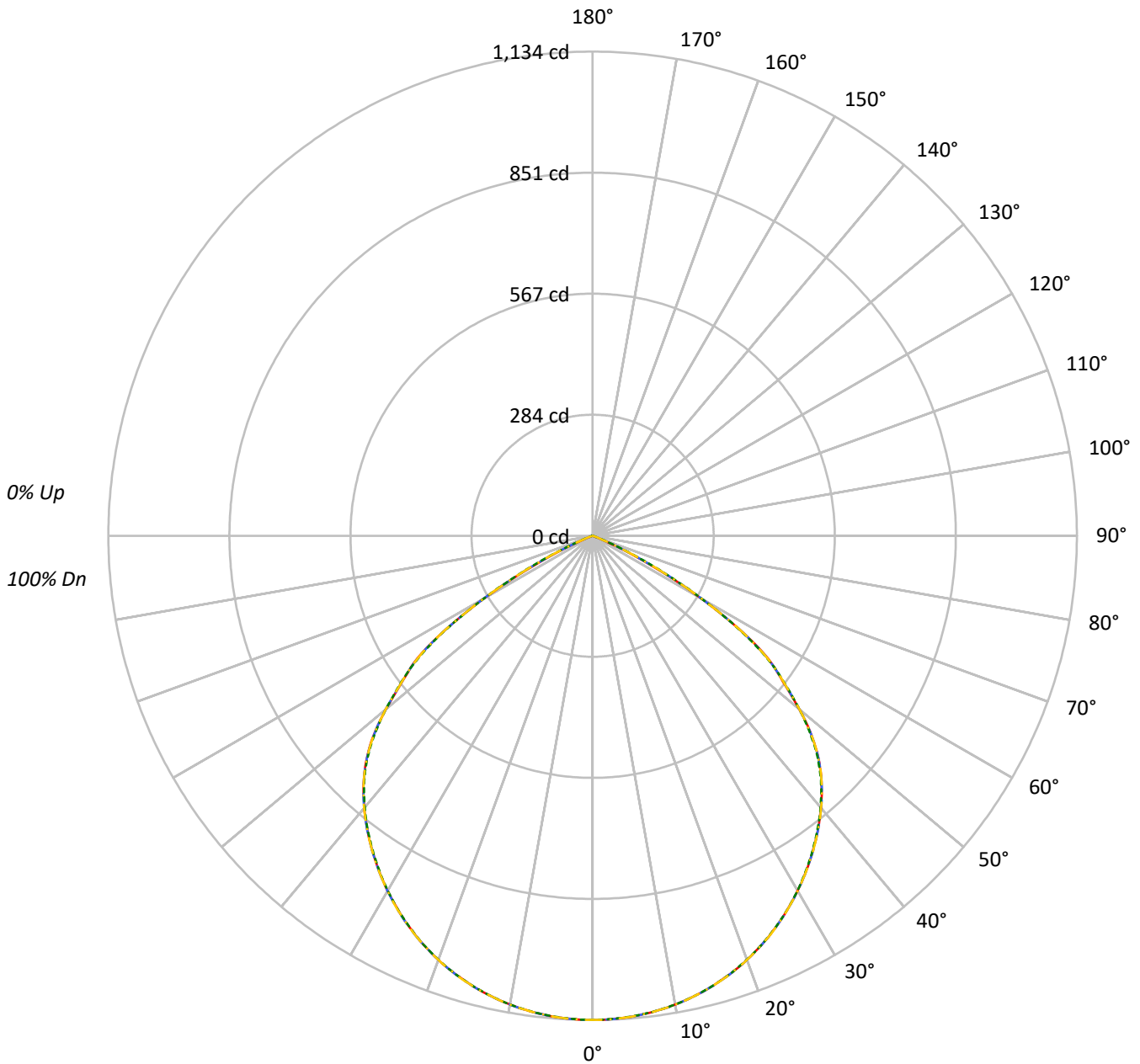
Lumens per Lamp: N/A  
Luminaire Lumens: 2561.1 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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				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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	103	97	91	86	101	95	90	85	91	87	84	88	85	82	85	82	80	78			78
3	95	86	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52			52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46			46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37			37
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30

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

	0°	90°	180°	270°
0°	34615	34615	34615	34615
5°	34606	34594	34606	34594
10°	34566	34557	34566	34557
15°	34474	34468	34474	34468
20°	34335	34329	34335	34329
25°	34124	34108	34124	34108
30°	33850	33826	33850	33826
35°	33532	33488	33532	33488
40°	33155	33087	33155	33087
45°	32404	32287	32404	32287
50°	30008	30008	30008	30008
55°	26710	26412	26710	26412
60°	17836	18086	17836	18086
65°	6314	7556	6314	7556
70°	62	714	62	714
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: 32404 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	4.2
10°-20°	307.8	12.0
20°-30°	466.8	18.2
30°-40°	562.7	22.0
40°-50°	573.7	22.4
50°-60°	431.1	16.8
60°-70°	111.4	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°	882.0	34.4
0°-40°	1444.7	56.4
0°-60°	2449.4	95.6
0°-90°	2561.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1134	1134	1134	1134	1134	
5°	1129	1129	1129	1129	1129	107
15°	1091	1090	1091	1090	1091	308
25°	1013	1012	1013	1012	1013	467
35°	900	898	900	898	900	563
45°	750	748	750	748	750	574
55°	502	496	502	496	502	431
65°	87	105	87	105	87	104
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
0.5°	1133.8	1133.8	1133.8	1133.8	1133.6	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
1°	1133.8	1133.8	1133.8	1133.6	1133.4	1133.6	1133.8	1133.8	1133.8	1133.8	1133.8
1.5°	1133.6	1133.6	1133.6	1133.6	1133.4	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6
2°	1133.4	1133.4	1133.4	1133.1	1132.9	1133.1	1133.4	1133.4	1133.4	1133.4	1133.4
2.5°	1132.6	1132.9	1132.9	1132.9	1132.4	1132.9	1132.9	1132.9	1132.6	1132.9	1132.9
3°	1132.2	1132.4	1132.4	1132.4	1131.9	1132.4	1132.4	1132.4	1132.2	1132.4	1132.4
3.5°	1131.7	1131.7	1131.7	1131.7	1131.4	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7
4°	1130.9	1130.9	1130.9	1130.9	1130.5	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9
4.5°	1130.2	1130.2	1130.2	1130.2	1129.7	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2
5°	1129.2	1129.2	1129.2	1129.2	1128.8	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2
5.5°	1128.3	1128.3	1128.3	1128.3	1127.8	1128.3	1128.3	1128.3	1128.3	1128.3	1128.3
6°	1127.1	1127.3	1127.1	1127.1	1126.8	1127.1	1127.1	1127.3	1127.1	1127.3	1127.1
6.5°	1125.9	1126.1	1126.1	1125.9	1125.6	1125.9	1126.1	1126.1	1125.9	1126.1	1126.1
7°	1124.6	1124.6	1124.6	1124.6	1124.4	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6
7.5°	1123.2	1123.2	1123.2	1123.4	1123.0	1123.4	1123.2	1123.2	1123.2	1123.2	1123.2
8°	1121.7	1121.7	1121.7	1121.7	1121.5	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7
8.5°	1120.3	1120.3	1120.3	1120.3	1119.8	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
9°	1118.6	1118.6	1118.6	1118.6	1118.4	1118.6	1118.6	1118.6	1118.6	1118.6	1118.6
9.5°	1116.7	1116.9	1116.9	1116.9	1116.4	1116.9	1116.9	1116.9	1116.7	1116.9	1116.9
10°	1115.0	1115.0	1115.0	1115.0	1114.7	1115.0	1115.0	1115.0	1115.0	1115.0	1115.0
10.5°	1113.0	1113.0	1113.0	1113.0	1112.8	1113.0	1113.0	1113.0	1113.0	1113.0	1113.0
11°	1110.8	1110.8	1110.8	1111.1	1110.6	1111.1	1110.8	1110.8	1110.8	1110.8	1110.8
11.5°	1108.7	1108.7	1108.7	1108.9	1108.4	1108.9	1108.7	1108.7	1108.7	1108.7	1108.7
12°	1106.5	1106.5	1106.5	1106.5	1106.2	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
12.5°	1104.1	1104.1	1104.1	1104.3	1103.8	1104.3	1104.1	1104.1	1104.1	1104.1	1104.1
13°	1101.6	1101.6	1101.6	1101.6	1101.4	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6
13.5°	1099.0	1099.2	1099.2	1099.2	1098.7	1099.2	1099.2	1099.2	1099.0	1099.2	1099.2
14°	1096.3	1096.6	1096.6	1096.6	1096.1	1096.6	1096.6	1096.6	1096.3	1096.6	1096.6
14.5°	1093.6	1093.6	1093.6	1093.6	1093.4	1093.6	1093.6	1093.6	1093.6	1093.6	1093.6
15°	1090.7	1090.7	1090.7	1091.0	1090.5	1091.0	1090.7	1090.7	1090.7	1090.7	1090.7
15.5°	1087.8	1087.8	1087.8	1087.8	1087.6	1087.8	1087.8	1087.8	1087.8	1087.8	1087.8
16°	1084.7	1084.9	1084.9	1084.9	1084.4	1084.9	1084.9	1084.9	1084.7	1084.9	1084.9
16.5°	1081.5	1081.5	1081.8	1081.8	1081.5	1081.8	1081.8	1081.5	1081.5	1081.5	1081.8
17°	1078.4	1078.4	1078.6	1078.4	1078.1	1078.4	1078.6	1078.4	1078.4	1078.4	1078.6
17.5°	1075.0	1075.0	1075.2	1075.2	1075.0	1075.2	1075.2	1075.0	1075.0	1075.0	1075.2
18°	1071.6	1071.6	1071.6	1071.6	1071.4	1071.6	1071.6	1071.6	1071.6	1071.6	1071.6
18.5°	1068.0	1068.0	1068.2	1068.2	1067.7	1068.2	1068.2	1068.0	1068.0	1068.0	1068.2
19°	1064.3	1064.3	1064.6	1064.6	1064.1	1064.6	1064.6	1064.3	1064.3	1064.3	1064.6
19.5°	1060.7	1060.7	1060.7	1060.7	1060.5	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
20°	1056.8	1056.8	1056.8	1056.8	1056.6	1056.8	1056.8	1056.8	1056.8	1056.8	1056.8
20.5°	1052.7	1053.0	1053.0	1053.0	1052.5	1053.0	1053.0	1053.0	1052.7	1053.0	1053.0
21°	1048.8	1048.8	1048.8	1048.8	1048.6	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8



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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°	1036.0	1036.3	1036.3	1036.3	1035.8	1036.3	1036.3	1036.3	1036.0	1036.3	1036.3
23°	1031.7	1031.7	1031.7	1031.7	1031.4	1031.7	1031.7	1031.7	1031.7	1031.7	1031.7
23.5°	1027.1	1027.3	1027.3	1027.3	1026.8	1027.3	1027.3	1027.3	1027.1	1027.3	1027.3
24°	1022.5	1022.5	1022.7	1022.5	1022.2	1022.5	1022.7	1022.5	1022.5	1022.5	1022.7
24.5°	1017.6	1017.8	1018.1	1017.8	1017.4	1017.8	1018.1	1017.8	1017.6	1017.8	1018.1
25°	1013.0	1013.0	1013.2	1013.0	1012.5	1013.0	1013.2	1013.0	1013.0	1013.0	1013.2
25.5°	1007.9	1008.2	1008.4	1008.2	1007.7	1008.2	1008.4	1008.2	1007.9	1008.2	1008.4
26°	1003.1	1003.1	1003.3	1003.1	1002.6	1003.1	1003.3	1003.1	1003.1	1003.1	1003.3
26.5°	998.0	998.2	998.2	998.0	997.5	998.0	998.2	998.2	998.0	998.2	998.2
27°	992.9	992.9	993.1	992.9	992.4	992.9	993.1	992.9	992.9	992.9	993.1
27.5°	987.6	987.8	987.8	987.6	987.1	987.6	987.8	987.8	987.6	987.8	987.8
28°	982.2	982.5	982.5	982.2	981.8	982.2	982.5	982.5	982.2	982.5	982.5
28.5°	976.9	976.9	977.2	976.9	976.4	976.9	977.2	976.9	976.9	976.9	977.2
29°	971.4	971.6	971.6	971.4	970.6	971.4	971.6	971.6	971.4	971.6	971.6
29.5°	965.8	966.0	966.0	965.8	965.1	965.8	966.0	966.0	965.8	966.0	966.0
30°	960.2	960.5	960.5	960.0	959.5	960.0	960.5	960.5	960.2	960.5	960.5
30.5°	954.6	954.6	954.6	954.4	953.7	954.4	954.6	954.6	954.6	954.6	954.6
31°	948.6	948.8	949.1	948.3	947.9	948.3	949.1	948.8	948.6	948.8	949.1
31.5°	942.8	943.0	943.0	942.5	941.8	942.5	943.0	943.0	942.8	943.0	943.0
32°	937.0	937.2	937.2	936.7	935.8	936.7	937.2	937.2	937.0	937.2	937.2
32.5°	930.9	931.2	931.2	930.4	929.7	930.4	931.2	931.2	930.9	931.2	931.2
33°	924.6	925.1	925.1	924.6	923.6	924.6	925.1	925.1	924.6	925.1	925.1
33.5°	918.6	918.8	919.0	918.3	917.3	918.3	919.0	918.8	918.6	918.8	919.0
34°	912.3	912.5	912.7	912.0	911.3	912.0	912.7	912.5	912.3	912.5	912.7
34.5°	906.0	906.2	906.4	905.7	905.0	905.7	906.4	906.2	906.0	906.2	906.4
35°	899.7	899.9	900.2	899.4	898.5	899.4	900.2	899.9	899.7	899.9	900.2
35.5°	893.1	893.6	893.6	892.9	891.9	892.9	893.6	893.6	893.1	893.6	893.6
36°	886.8	887.1	887.3	886.3	885.4	886.3	887.3	887.1	886.8	887.1	887.3
36.5°	880.3	880.5	880.8	879.8	878.8	879.8	880.8	880.5	880.3	880.5	880.8
37°	873.5	873.8	874.0	873.0	872.3	873.0	874.0	873.8	873.5	873.8	874.0
37.5°	866.7	867.2	867.5	866.2	865.3	866.2	867.5	867.2	866.7	867.2	867.5
38°	860.0	860.2	860.7	859.5	858.7	859.5	860.7	860.2	860.0	860.2	860.7
38.5°	852.9	853.4	853.7	852.7	851.7	852.7	853.7	853.4	852.9	853.4	853.7
39°	846.1	846.6	846.9	845.7	844.7	845.7	846.9	846.6	846.1	846.6	846.9
39.5°	839.1	839.4	839.6	838.6	837.4	838.6	839.6	839.4	839.1	839.4	839.6
40°	831.9	832.3	832.3	831.4	830.2	831.4	832.3	832.3	831.9	832.3	832.3
40.5°	824.6	824.8	825.1	823.9	822.9	823.9	825.1	824.8	824.6	824.8	825.1
41°	817.1	817.6	817.8	816.6	815.4	816.6	817.8	817.6	817.1	817.6	817.8
41.5°	809.6	809.8	810.1	808.9	807.9	808.9	810.1	809.8	809.6	809.8	810.1
42°	801.8	802.1	802.3	801.1	799.9	801.1	802.3	802.1	801.8	802.1	802.3
42.5°	793.8	794.3	794.3	793.1	791.9	793.1	794.3	794.3	793.8	794.3	794.3
43°	785.8	786.1	786.1	784.9	783.7	784.9	786.1	786.1	785.8	786.1	786.1
43.5°	777.4	777.6	777.6	776.4	775.2	776.4	777.6	777.6	777.4	777.6	777.6



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CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	750.5	750.5	750.2	749.0	747.8	749.0	750.2	750.5	750.5	750.5	750.2
45.5°	740.8	740.8	740.6	739.1	737.9	739.1	740.6	740.8	740.8	740.8	740.6
46°	730.9	730.9	730.4	728.9	727.5	728.9	730.4	730.9	730.9	730.9	730.4
46.5°	720.2	720.2	719.7	718.0	717.1	718.0	719.7	720.2	720.2	720.2	719.7
47°	709.1	709.1	708.4	706.9	705.7	706.9	708.4	709.1	709.1	709.1	708.4
47.5°	697.5	697.5	696.7	695.3	694.1	695.3	696.7	697.5	697.5	697.5	696.7
48°	685.3	685.3	684.9	683.4	682.4	683.4	684.9	685.3	685.3	685.3	684.9
48.5°	672.8	672.8	672.3	671.3	670.3	671.3	672.3	672.8	672.8	672.8	672.3
49°	659.4	659.4	659.2	658.5	658.0	658.5	659.2	659.4	659.4	659.4	659.2
49.5°	646.1	645.9	646.1	645.4	645.1	645.4	646.1	645.9	646.1	645.9	646.1
50°	631.8	632.1	632.6	632.1	631.8	632.1	632.6	632.1	631.8	632.1	632.6
50.5°	617.1	618.0	618.7	618.5	618.5	618.5	618.7	618.0	617.1	618.0	618.7
51°	603.0	603.5	604.2	604.9	605.4	604.9	604.2	603.5	603.0	603.5	604.2
51.5°	589.2	589.4	590.4	591.1	591.9	591.1	590.4	589.4	589.2	589.4	590.4
52°	575.4	575.9	576.9	577.8	579.0	577.8	576.9	575.9	575.4	575.9	576.9
52.5°	562.3	562.8	564.0	565.2	566.2	565.2	564.0	562.8	562.3	562.8	564.0
53°	550.0	550.5	551.7	552.6	553.6	552.6	551.7	550.5	550.0	550.5	551.7
53.5°	538.3	538.8	539.3	539.8	540.5	539.8	539.3	538.8	538.3	538.8	539.3
54°	527.5	527.0	527.0	526.7	526.7	526.7	527.0	527.0	527.5	527.0	527.0
54.5°	515.3	514.9	513.9	512.7	511.7	512.7	513.9	514.9	515.3	514.9	513.9
55°	501.8	500.8	499.4	497.7	496.2	497.7	499.4	500.8	501.8	500.8	499.4
55.5°	485.8	484.6	483.1	481.7	480.2	481.7	483.1	484.6	485.8	484.6	483.1
56°	467.9	467.1	465.7	464.2	462.5	464.2	465.7	467.1	467.9	467.1	465.7
56.5°	448.3	447.5	447.0	445.6	444.4	445.6	447.0	447.5	448.3	447.5	447.0
57°	427.7	427.2	426.9	425.7	424.3	425.7	426.9	427.2	427.7	427.2	426.9
57.5°	405.9	405.9	405.9	404.7	403.7	404.7	405.9	405.9	405.9	405.9	405.9
58°	383.8	384.1	384.3	383.6	382.6	383.6	384.3	384.1	383.8	384.1	384.3
58.5°	361.3	361.3	362.0	361.8	360.8	361.8	362.0	361.3	361.3	361.3	362.0
59°	338.3	338.8	339.5	339.8	339.5	339.8	339.5	338.8	338.3	338.8	339.5
59.5°	315.3	315.8	317.0	318.0	318.0	318.0	317.0	315.8	315.3	315.8	317.0
60°	292.1	293.0	294.5	296.4	296.2	296.4	294.5	293.0	292.1	293.0	294.5
60.5°	269.1	270.3	272.2	274.4	274.6	274.4	272.2	270.3	269.1	270.3	272.2
61°	246.8	248.2	250.2	252.6	253.3	252.6	250.2	248.2	246.8	248.2	250.2
61.5°	225.0	226.2	228.9	231.0	232.5	231.0	228.9	226.2	225.0	226.2	228.9
62°	203.2	204.9	207.8	210.4	212.4	210.4	207.8	204.9	203.2	204.9	207.8
62.5°	181.6	183.6	187.4	190.3	192.3	190.3	187.4	183.6	181.6	183.6	187.4
63°	161.0	163.2	167.6	170.7	172.9	170.7	167.6	163.2	161.0	163.2	167.6
63.5°	141.4	143.6	148.2	152.1	155.7	152.1	148.2	143.6	141.4	143.6	148.2
64°	122.5	125.0	129.6	134.6	138.8	134.6	129.6	125.0	122.5	125.0	129.6
64.5°	104.4	107.5	112.4	117.7	121.6	117.7	112.4	107.5	104.4	107.5	112.4
65°	87.4	91.5	96.1	101.2	104.6	101.2	96.1	91.5	87.4	91.5	96.1
65.5°	71.9	76.5	80.6	85.5	88.6	85.5	80.6	76.5	71.9	76.5	80.6
66°	57.6	63.2	66.4	71.2	74.1	71.2	66.4	63.2	57.6	63.2	66.4





TEST NUMBER: P776140

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	22.0	29.8	33.2	37.3	39.5	37.3	33.2	29.8	22.0	29.8	33.2
68°	12.8	20.6	25.2	28.1	30.8	28.1	25.2	20.6	12.8	20.6	25.2
68.5°	4.8	13.8	18.2	21.3	24.5	21.3	18.2	13.8	4.8	13.8	18.2
69°	2.4	8.2	11.6	14.8	18.2	14.8	11.6	8.2	2.4	8.2	11.6
69.5°	1.5	3.6	6.5	9.7	13.1	9.7	6.5	3.6	1.5	3.6	6.5
70°	0.7	1.7	3.6	5.6	8.0	5.6	3.6	1.7	0.7	1.7	3.6
70.5°	0.2	1.0	2.2	2.7	3.1	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: P776140  
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P776140

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
0.5°	1133.8	1133.6	1133.8	1133.8	1133.8	1133.8
1°	1133.6	1133.4	1133.6	1133.8	1133.8	1133.8
1.5°	1133.6	1133.4	1133.6	1133.6	1133.6	1133.6
2°	1133.1	1132.9	1133.1	1133.4	1133.4	1133.4
2.5°	1132.9	1132.4	1132.9	1132.9	1132.9	1132.6
3°	1132.4	1131.9	1132.4	1132.4	1132.4	1132.2
3.5°	1131.7	1131.4	1131.7	1131.7	1131.7	1131.7
4°	1130.9	1130.5	1130.9	1130.9	1130.9	1130.9
4.5°	1130.2	1129.7	1130.2	1130.2	1130.2	1130.2
5°	1129.2	1128.8	1129.2	1129.2	1129.2	1129.2
5.5°	1128.3	1127.8	1128.3	1128.3	1128.3	1128.3
6°	1127.1	1126.8	1127.1	1127.1	1127.3	1127.1
6.5°	1125.9	1125.6	1125.9	1126.1	1126.1	1125.9
7°	1124.6	1124.4	1124.6	1124.6	1124.6	1124.6
7.5°	1123.4	1123.0	1123.4	1123.2	1123.2	1123.2
8°	1121.7	1121.5	1121.7	1121.7	1121.7	1121.7
8.5°	1120.3	1119.8	1120.3	1120.3	1120.3	1120.3
9°	1118.6	1118.4	1118.6	1118.6	1118.6	1118.6
9.5°	1116.9	1116.4	1116.9	1116.9	1116.9	1116.7
10°	1115.0	1114.7	1115.0	1115.0	1115.0	1115.0
10.5°	1113.0	1112.8	1113.0	1113.0	1113.0	1113.0
11°	1111.1	1110.6	1111.1	1110.8	1110.8	1110.8
11.5°	1108.9	1108.4	1108.9	1108.7	1108.7	1108.7
12°	1106.5	1106.2	1106.5	1106.5	1106.5	1106.5
12.5°	1104.3	1103.8	1104.3	1104.1	1104.1	1104.1
13°	1101.6	1101.4	1101.6	1101.6	1101.6	1101.6
13.5°	1099.2	1098.7	1099.2	1099.2	1099.2	1099.0
14°	1096.6	1096.1	1096.6	1096.6	1096.6	1096.3
14.5°	1093.6	1093.4	1093.6	1093.6	1093.6	1093.6
15°	1091.0	1090.5	1091.0	1090.7	1090.7	1090.7
15.5°	1087.8	1087.6	1087.8	1087.8	1087.8	1087.8
16°	1084.9	1084.4	1084.9	1084.9	1084.9	1084.7
16.5°	1081.8	1081.5	1081.8	1081.8	1081.5	1081.5
17°	1078.4	1078.1	1078.4	1078.6	1078.4	1078.4
17.5°	1075.2	1075.0	1075.2	1075.2	1075.0	1075.0
18°	1071.6	1071.4	1071.6	1071.6	1071.6	1071.6
18.5°	1068.2	1067.7	1068.2	1068.2	1068.0	1068.0
19°	1064.6	1064.1	1064.6	1064.6	1064.3	1064.3
19.5°	1060.7	1060.5	1060.7	1060.7	1060.7	1060.7
20°	1056.8	1056.6	1056.8	1056.8	1056.8	1056.8
20.5°	1053.0	1052.5	1053.0	1053.0	1053.0	1052.7
21°	1048.8	1048.6	1048.8	1048.8	1048.8	1048.8



TEST NUMBER: P776140

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1036.3	1035.8	1036.3	1036.3	1036.3	1036.0
23°	1031.7	1031.4	1031.7	1031.7	1031.7	1031.7
23.5°	1027.3	1026.8	1027.3	1027.3	1027.3	1027.1
24°	1022.5	1022.2	1022.5	1022.7	1022.5	1022.5
24.5°	1017.8	1017.4	1017.8	1018.1	1017.8	1017.6
25°	1013.0	1012.5	1013.0	1013.2	1013.0	1013.0
25.5°	1008.2	1007.7	1008.2	1008.4	1008.2	1007.9
26°	1003.1	1002.6	1003.1	1003.3	1003.1	1003.1
26.5°	998.0	997.5	998.0	998.2	998.2	998.0
27°	992.9	992.4	992.9	993.1	992.9	992.9
27.5°	987.6	987.1	987.6	987.8	987.8	987.6
28°	982.2	981.8	982.2	982.5	982.5	982.2
28.5°	976.9	976.4	976.9	977.2	976.9	976.9
29°	971.4	970.6	971.4	971.6	971.6	971.4
29.5°	965.8	965.1	965.8	966.0	966.0	965.8
30°	960.0	959.5	960.0	960.5	960.5	960.2
30.5°	954.4	953.7	954.4	954.6	954.6	954.6
31°	948.3	947.9	948.3	949.1	948.8	948.6
31.5°	942.5	941.8	942.5	943.0	943.0	942.8
32°	936.7	935.8	936.7	937.2	937.2	937.0
32.5°	930.4	929.7	930.4	931.2	931.2	930.9
33°	924.6	923.6	924.6	925.1	925.1	924.6
33.5°	918.3	917.3	918.3	919.0	918.8	918.6
34°	912.0	911.3	912.0	912.7	912.5	912.3
34.5°	905.7	905.0	905.7	906.4	906.2	906.0
35°	899.4	898.5	899.4	900.2	899.9	899.7
35.5°	892.9	891.9	892.9	893.6	893.6	893.1
36°	886.3	885.4	886.3	887.3	887.1	886.8
36.5°	879.8	878.8	879.8	880.8	880.5	880.3
37°	873.0	872.3	873.0	874.0	873.8	873.5
37.5°	866.2	865.3	866.2	867.5	867.2	866.7
38°	859.5	858.7	859.5	860.7	860.2	860.0
38.5°	852.7	851.7	852.7	853.7	853.4	852.9
39°	845.7	844.7	845.7	846.9	846.6	846.1
39.5°	838.6	837.4	838.6	839.6	839.4	839.1
40°	831.4	830.2	831.4	832.3	832.3	831.9
40.5°	823.9	822.9	823.9	825.1	824.8	824.6
41°	816.6	815.4	816.6	817.8	817.6	817.1
41.5°	808.9	807.9	808.9	810.1	809.8	809.6
42°	801.1	799.9	801.1	802.3	802.1	801.8
42.5°	793.1	791.9	793.1	794.3	794.3	793.8
43°	784.9	783.7	784.9	786.1	786.1	785.8
43.5°	776.4	775.2	776.4	777.6	777.6	777.4



TEST NUMBER: P776140

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	749.0	747.8	749.0	750.2	750.5	750.5
45.5°	739.1	737.9	739.1	740.6	740.8	740.8
46°	728.9	727.5	728.9	730.4	730.9	730.9
46.5°	718.0	717.1	718.0	719.7	720.2	720.2
47°	706.9	705.7	706.9	708.4	709.1	709.1
47.5°	695.3	694.1	695.3	696.7	697.5	697.5
48°	683.4	682.4	683.4	684.9	685.3	685.3
48.5°	671.3	670.3	671.3	672.3	672.8	672.8
49°	658.5	658.0	658.5	659.2	659.4	659.4
49.5°	645.4	645.1	645.4	646.1	645.9	646.1
50°	632.1	631.8	632.1	632.6	632.1	631.8
50.5°	618.5	618.5	618.5	618.7	618.0	617.1
51°	604.9	605.4	604.9	604.2	603.5	603.0
51.5°	591.1	591.9	591.1	590.4	589.4	589.2
52°	577.8	579.0	577.8	576.9	575.9	575.4
52.5°	565.2	566.2	565.2	564.0	562.8	562.3
53°	552.6	553.6	552.6	551.7	550.5	550.0
53.5°	539.8	540.5	539.8	539.3	538.8	538.3
54°	526.7	526.7	526.7	527.0	527.0	527.5
54.5°	512.7	511.7	512.7	513.9	514.9	515.3
55°	497.7	496.2	497.7	499.4	500.8	501.8
55.5°	481.7	480.2	481.7	483.1	484.6	485.8
56°	464.2	462.5	464.2	465.7	467.1	467.9
56.5°	445.6	444.4	445.6	447.0	447.5	448.3
57°	425.7	424.3	425.7	426.9	427.2	427.7
57.5°	404.7	403.7	404.7	405.9	405.9	405.9
58°	383.6	382.6	383.6	384.3	384.1	383.8
58.5°	361.8	360.8	361.8	362.0	361.3	361.3
59°	339.8	339.5	339.8	339.5	338.8	338.3
59.5°	318.0	318.0	318.0	317.0	315.8	315.3
60°	296.4	296.2	296.4	294.5	293.0	292.1
60.5°	274.4	274.6	274.4	272.2	270.3	269.1
61°	252.6	253.3	252.6	250.2	248.2	246.8
61.5°	231.0	232.5	231.0	228.9	226.2	225.0
62°	210.4	212.4	210.4	207.8	204.9	203.2
62.5°	190.3	192.3	190.3	187.4	183.6	181.6
63°	170.7	172.9	170.7	167.6	163.2	161.0
63.5°	152.1	155.7	152.1	148.2	143.6	141.4
64°	134.6	138.8	134.6	129.6	125.0	122.5
64.5°	117.7	121.6	117.7	112.4	107.5	104.4
65°	101.2	104.6	101.2	96.1	91.5	87.4
65.5°	85.5	88.6	85.5	80.6	76.5	71.9
66°	71.2	74.1	71.2	66.4	63.2	57.6



TEST NUMBER: P776140

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	37.3	39.5	37.3	33.2	29.8	22.0
68°	28.1	30.8	28.1	25.2	20.6	12.8
68.5°	21.3	24.5	21.3	18.2	13.8	4.8
69°	14.8	18.2	14.8	11.6	8.2	2.4
69.5°	9.7	13.1	9.7	6.5	3.6	1.5
70°	5.6	8.0	5.6	3.6	1.7	0.7
70.5°	2.7	3.1	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: P776140  
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

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

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

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





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

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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	1044.7	1044.7	1044.7	1044.7	1044.2	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7
22°	1040.4	1040.4	1040.6	1040.6	1040.1	1040.6	1040.6	1040.4	1040.4	1040.4	1040.4	1040.6



44°	768.7	768.9	768.7	767.4	766.5	767.4	768.7	768.9	768.7	768.9	768.7
44.5°	759.7	759.9	759.9	758.5	757.0	758.5	759.9	759.9	759.7	759.9	759.9



66.5°	45.5	51.1	53.8	58.4	61.0	58.4	53.8	51.1	45.5	51.1	53.8
67°	33.7	39.2	43.1	47.0	49.2	47.0	43.1	39.2	33.7	39.2	43.1



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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Scaled Data Report





21.5°	1044.7	1044.2	1044.7	1044.7	1044.7	1044.7
22°	1040.6	1040.1	1040.6	1040.6	1040.4	1040.4



44°	767.4	766.5	767.4	768.7	768.9	768.7
44.5°	758.5	757.0	758.5	759.9	759.9	759.7

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Scaled Data Report



66.5°	58.4	61.0	58.4	53.8	51.1	45.5
67°	47.0	49.2	47.0	43.1	39.2	33.7

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Peachtree City, GA 30269

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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)