

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: P776143

Luminaire Tested: HCDJBL51525CSD-HCD81TRMB-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B045-HCD81TRMB)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD81TRMB-2500lm-4000K
Description: 8 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

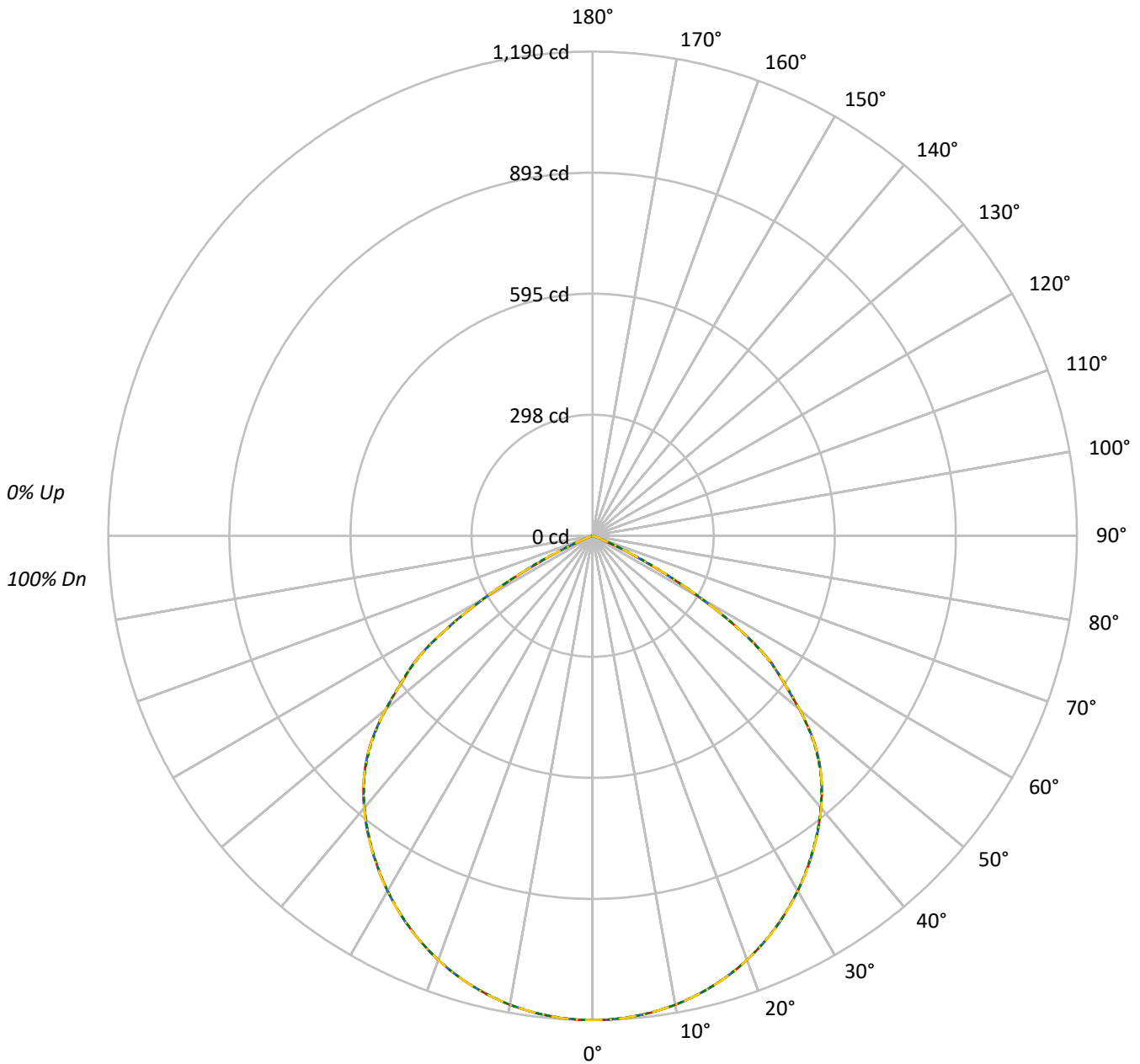
Lumens per Lamp: N/A
Luminaire Lumens: 2688.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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°	36337	36337	36337	36337
5°	36329	36314	36329	36314
10°	36284	36278	36284	36278
15°	36190	36181	36190	36181
20°	36044	36038	36044	36038
25°	35822	35805	35822	35805
30°	35535	35507	35535	35507
35°	35198	35150	35198	35150
40°	34801	34733	34801	34733
45°	34014	33893	34014	33893
50°	31505	31505	31505	31505
55°	28035	27726	28035	27726
60°	18721	18984	18721	18984
65°	6632	7932	6632	7932
70°	71	750	71	750
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: 34014 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	4.2
10°-20°	323.2	12.0
20°-30°	490.0	18.2
30°-40°	590.7	22.0
40°-50°	602.2	22.4
50°-60°	452.5	16.8
60°-70°	116.9	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°	925.8	34.4
0°-40°	1516.6	56.4
0°-60°	2571.3	95.6
0°-90°	2688.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2688.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1190	1190	1190	1190	1190	
5°	1185	1185	1185	1185	1185	113
15°	1145	1145	1145	1145	1145	323
25°	1063	1063	1063	1063	1063	490
35°	944	943	944	943	944	591
45°	788	785	788	785	788	603
55°	527	521	527	521	527	453
65°	92	110	92	110	92	109
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°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2
0.5°	1190.2	1190.2	1190.2	1190.2	1190.0	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2
1°	1190.2	1190.2	1190.2	1190.0	1189.7	1190.0	1190.2	1190.2	1190.2	1190.2	1190.2
1.5°	1190.0	1190.0	1190.0	1190.0	1189.7	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2°	1189.7	1189.7	1189.7	1189.5	1189.2	1189.5	1189.7	1189.7	1189.7	1189.7	1189.7
2.5°	1189.0	1189.2	1189.2	1189.2	1188.7	1189.2	1189.2	1189.2	1189.0	1189.2	1189.2
3°	1188.5	1188.7	1188.7	1188.7	1188.2	1188.7	1188.7	1188.7	1188.5	1188.7	1188.7
3.5°	1188.0	1188.0	1188.0	1188.0	1187.7	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
4°	1187.2	1187.2	1187.2	1187.2	1186.7	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2
4.5°	1186.4	1186.4	1186.4	1186.4	1185.9	1186.4	1186.4	1186.4	1186.4	1186.4	1186.4
5°	1185.4	1185.4	1185.4	1185.4	1184.9	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4
5.5°	1184.4	1184.4	1184.4	1184.4	1183.9	1184.4	1184.4	1184.4	1184.4	1184.4	1184.4
6°	1183.1	1183.4	1183.1	1183.1	1182.9	1183.1	1183.1	1183.4	1183.1	1183.4	1183.1
6.5°	1181.9	1182.1	1182.1	1181.9	1181.6	1181.9	1182.1	1182.1	1181.9	1182.1	1182.1
7°	1180.6	1180.6	1180.6	1180.6	1180.3	1180.6	1180.6	1180.6	1180.6	1180.6	1180.6
7.5°	1179.1	1179.1	1179.1	1179.3	1178.8	1179.3	1179.1	1179.1	1179.1	1179.1	1179.1
8°	1177.5	1177.5	1177.5	1177.5	1177.3	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
8.5°	1176.0	1176.0	1176.0	1176.0	1175.5	1176.0	1176.0	1176.0	1176.0	1176.0	1176.0
9°	1174.2	1174.2	1174.2	1174.2	1174.0	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
9.5°	1172.2	1172.5	1172.5	1172.5	1171.9	1172.5	1172.5	1172.5	1172.2	1172.5	1172.5
10°	1170.4	1170.4	1170.4	1170.4	1170.2	1170.4	1170.4	1170.4	1170.4	1170.4	1170.4
10.5°	1168.4	1168.4	1168.4	1168.4	1168.1	1168.4	1168.4	1168.4	1168.4	1168.4	1168.4
11°	1166.1	1166.1	1166.1	1166.4	1165.8	1166.4	1166.1	1166.1	1166.1	1166.1	1166.1
11.5°	1163.8	1163.8	1163.8	1164.1	1163.6	1164.1	1163.8	1163.8	1163.8	1163.8	1163.8
12°	1161.5	1161.5	1161.5	1161.5	1161.3	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
12.5°	1159.0	1159.0	1159.0	1159.2	1158.7	1159.2	1159.0	1159.0	1159.0	1159.0	1159.0
13°	1156.4	1156.4	1156.4	1156.4	1156.2	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4
13.5°	1153.6	1153.9	1153.9	1153.9	1153.4	1153.9	1153.9	1153.9	1153.6	1153.9	1153.9
14°	1150.8	1151.1	1151.1	1151.1	1150.6	1151.1	1151.1	1151.1	1150.8	1151.1	1151.1
14.5°	1148.0	1148.0	1148.0	1148.0	1147.8	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0
15°	1145.0	1145.0	1145.0	1145.3	1144.7	1145.3	1145.0	1145.0	1145.0	1145.0	1145.0
15.5°	1141.9	1141.9	1141.9	1141.9	1141.7	1141.9	1141.9	1141.9	1141.9	1141.9	1141.9
16°	1138.6	1138.9	1138.9	1138.9	1138.4	1138.9	1138.9	1138.9	1138.6	1138.9	1138.9
16.5°	1135.3	1135.3	1135.6	1135.6	1135.3	1135.6	1135.6	1135.3	1135.3	1135.3	1135.6
17°	1132.0	1132.0	1132.3	1132.0	1131.8	1132.0	1132.3	1132.0	1132.0	1132.0	1132.3
17.5°	1128.5	1128.5	1128.7	1128.7	1128.5	1128.7	1128.7	1128.5	1128.5	1128.5	1128.7
18°	1124.9	1124.9	1124.9	1124.9	1124.7	1124.9	1124.9	1124.9	1124.9	1124.9	1124.9
18.5°	1121.1	1121.1	1121.4	1121.4	1120.8	1121.4	1121.4	1121.1	1121.1	1121.1	1121.4
19°	1117.3	1117.3	1117.5	1117.5	1117.0	1117.5	1117.5	1117.3	1117.3	1117.3	1117.5
19.5°	1113.5	1113.5	1113.5	1113.5	1113.2	1113.5	1113.5	1113.5	1113.5	1113.5	1113.5
20°	1109.4	1109.4	1109.4	1109.4	1109.2	1109.4	1109.4	1109.4	1109.4	1109.4	1109.4
20.5°	1105.1	1105.3	1105.3	1105.3	1104.8	1105.3	1105.3	1105.3	1105.1	1105.3	1105.3
21°	1101.0	1101.0	1101.0	1101.0	1100.8	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0



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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°	1087.5	1087.8	1087.8	1087.8	1087.3	1087.8	1087.8	1087.8	1087.5	1087.8	1087.8
23°	1083.0	1083.0	1083.0	1083.0	1082.7	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
23.5°	1078.1	1078.4	1078.4	1078.4	1077.9	1078.4	1078.4	1078.4	1078.1	1078.4	1078.4
24°	1073.3	1073.3	1073.6	1073.3	1073.1	1073.3	1073.6	1073.3	1073.3	1073.3	1073.6
24.5°	1068.2	1068.5	1068.7	1068.5	1068.0	1068.5	1068.7	1068.5	1068.2	1068.5	1068.7
25°	1063.4	1063.4	1063.6	1063.4	1062.9	1063.4	1063.6	1063.4	1063.4	1063.4	1063.6
25.5°	1058.1	1058.3	1058.6	1058.3	1057.8	1058.3	1058.6	1058.3	1058.1	1058.3	1058.6
26°	1053.0	1053.0	1053.2	1053.0	1052.5	1053.0	1053.2	1053.0	1053.0	1053.0	1053.2
26.5°	1047.6	1047.9	1047.9	1047.6	1047.1	1047.6	1047.9	1047.9	1047.6	1047.9	1047.9
27°	1042.3	1042.3	1042.5	1042.3	1041.8	1042.3	1042.5	1042.3	1042.3	1042.3	1042.5
27.5°	1036.7	1037.0	1037.0	1036.7	1036.2	1036.7	1037.0	1037.0	1036.7	1037.0	1037.0
28°	1031.1	1031.4	1031.4	1031.1	1030.6	1031.1	1031.4	1031.4	1031.1	1031.4	1031.4
28.5°	1025.5	1025.5	1025.8	1025.5	1025.0	1025.5	1025.8	1025.5	1025.5	1025.5	1025.8
29°	1019.7	1019.9	1019.9	1019.7	1018.9	1019.7	1019.9	1019.9	1019.7	1019.9	1019.9
29.5°	1013.8	1014.1	1014.1	1013.8	1013.1	1013.8	1014.1	1014.1	1013.8	1014.1	1014.1
30°	1008.0	1008.2	1008.2	1007.7	1007.2	1007.7	1008.2	1008.2	1008.0	1008.2	1008.2
30.5°	1002.1	1002.1	1002.1	1001.9	1001.1	1001.9	1002.1	1002.1	1002.1	1002.1	1002.1
31°	995.8	996.0	996.3	995.5	995.0	995.5	996.3	996.0	995.8	996.0	996.3
31.5°	989.7	989.9	989.9	989.4	988.7	989.4	989.9	989.9	989.7	989.9	989.9
32°	983.6	983.8	983.8	983.3	982.3	983.3	983.8	983.8	983.6	983.8	983.8
32.5°	977.2	977.5	977.5	976.7	975.9	976.7	977.5	977.5	977.2	977.5	977.5
33°	970.6	971.1	971.1	970.6	969.6	970.6	971.1	971.1	970.6	971.1	971.1
33.5°	964.2	964.5	964.8	964.0	963.0	964.0	964.8	964.5	964.2	964.5	964.8
34°	957.6	957.9	958.1	957.4	956.6	957.4	958.1	957.9	957.6	957.9	958.1
34.5°	951.0	951.3	951.5	950.8	950.0	950.8	951.5	951.3	951.0	951.3	951.5
35°	944.4	944.7	944.9	944.2	943.1	944.2	944.9	944.7	944.4	944.7	944.9
35.5°	937.6	938.1	938.1	937.3	936.3	937.3	938.1	938.1	937.6	938.1	938.1
36°	930.9	931.2	931.5	930.4	929.4	930.4	931.5	931.2	930.9	931.2	931.5
36.5°	924.1	924.3	924.6	923.6	922.6	923.6	924.6	924.3	924.1	924.3	924.6
37°	917.0	917.2	917.5	916.5	915.7	916.5	917.5	917.2	917.0	917.2	917.5
37.5°	909.8	910.4	910.6	909.3	908.3	909.3	910.6	910.4	909.8	910.4	910.6
38°	902.7	903.0	903.5	902.2	901.5	902.2	903.5	903.0	902.7	903.0	903.5
38.5°	895.4	895.9	896.1	895.1	894.1	895.1	896.1	895.9	895.4	895.9	896.1
39°	888.2	888.7	889.0	887.7	886.7	887.7	889.0	888.7	888.2	888.7	889.0
39.5°	880.9	881.1	881.4	880.4	879.1	880.4	881.4	881.1	880.9	881.1	881.4
40°	873.2	873.7	873.7	872.7	871.5	872.7	873.7	873.7	873.2	873.7	873.7
40.5°	865.6	865.9	866.1	864.8	863.8	864.8	866.1	865.9	865.6	865.9	866.1
41°	857.7	858.2	858.5	857.2	856.0	857.2	858.5	858.2	857.7	858.2	858.5
41.5°	849.9	850.1	850.4	849.1	848.1	849.1	850.4	850.1	849.9	850.1	850.4
42°	841.7	842.0	842.2	841.0	839.7	841.0	842.2	842.0	841.7	842.0	842.2
42.5°	833.3	833.8	833.8	832.6	831.3	832.6	833.8	833.8	833.3	833.8	833.8
43°	824.9	825.2	825.2	823.9	822.6	823.9	825.2	825.2	824.9	825.2	825.2
43.5°	816.0	816.3	816.3	815.0	813.8	815.0	816.3	816.3	816.0	816.3	816.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	787.8	787.8	787.6	786.3	785.0	786.3	787.6	787.8	787.8	787.8	787.6
45.5°	777.7	777.7	777.4	775.9	774.6	775.9	777.4	777.7	777.7	777.7	777.4
46°	767.2	767.2	766.7	765.2	763.7	765.2	766.7	767.2	767.2	767.2	766.7
46.5°	756.0	756.0	755.5	753.8	752.7	753.8	755.5	756.0	756.0	756.0	755.5
47°	744.3	744.3	743.6	742.1	740.8	742.1	743.6	744.3	744.3	744.3	743.6
47.5°	732.1	732.1	731.4	729.9	728.6	729.9	731.4	732.1	732.1	732.1	731.4
48°	719.4	719.4	718.9	717.4	716.4	717.4	718.9	719.4	719.4	719.4	718.9
48.5°	706.2	706.2	705.7	704.7	703.7	704.7	705.7	706.2	706.2	706.2	705.7
49°	692.2	692.2	692.0	691.2	690.7	691.2	692.0	692.2	692.2	692.2	692.0
49.5°	678.3	678.0	678.3	677.5	677.2	677.5	678.3	678.0	678.3	678.0	678.3
50°	663.3	663.5	664.0	663.5	663.3	663.5	664.0	663.5	663.3	663.5	664.0
50.5°	647.7	648.8	649.5	649.3	649.3	649.3	649.5	648.8	647.7	648.8	649.5
51°	633.0	633.5	634.3	635.0	635.5	635.0	634.3	633.5	633.0	633.5	634.3
51.5°	618.5	618.8	619.8	620.5	621.3	620.5	619.8	618.8	618.5	618.8	619.8
52°	604.0	604.5	605.5	606.6	607.8	606.6	605.5	604.5	604.0	604.5	605.5
52.5°	590.3	590.8	592.1	593.3	594.4	593.3	592.1	590.8	590.3	590.8	592.1
53°	577.3	577.8	579.1	580.1	581.1	580.1	579.1	577.8	577.3	577.8	579.1
53.5°	565.1	565.6	566.1	566.7	567.4	566.7	566.1	565.6	565.1	565.6	566.1
54°	553.7	553.2	553.2	552.9	552.9	552.9	553.2	553.2	553.7	553.2	553.2
54.5°	541.0	540.5	539.5	538.2	537.2	538.2	539.5	540.5	541.0	540.5	539.5
55°	526.7	525.7	524.2	522.4	520.9	522.4	524.2	525.7	526.7	525.7	524.2
55.5°	510.0	508.7	507.2	505.6	504.1	505.6	507.2	508.7	510.0	508.7	507.2
56°	491.1	490.4	488.9	487.3	485.6	487.3	488.9	490.4	491.1	490.4	488.9
56.5°	470.6	469.8	469.3	467.8	466.5	467.8	469.3	469.8	470.6	469.8	469.3
57°	448.9	448.4	448.2	446.9	445.4	446.9	448.2	448.4	448.9	448.4	448.2
57.5°	426.1	426.1	426.1	424.8	423.8	424.8	426.1	426.1	426.1	426.1	426.1
58°	402.9	403.2	403.4	402.7	401.7	402.7	403.4	403.2	402.9	403.2	403.4
58.5°	379.3	379.3	380.1	379.8	378.8	379.8	380.1	379.3	379.3	379.3	380.1
59°	355.1	355.7	356.4	356.7	356.4	356.7	356.4	355.7	355.1	355.7	356.4
59.5°	331.0	331.5	332.8	333.8	333.8	333.8	332.8	331.5	331.0	331.5	332.8
60°	306.6	307.6	309.1	311.2	310.9	311.2	309.1	307.6	306.6	307.6	309.1
60.5°	282.4	283.7	285.7	288.0	288.3	288.0	285.7	283.7	282.4	283.7	285.7
61°	259.0	260.6	262.6	265.1	265.9	265.1	262.6	260.6	259.0	260.6	262.6
61.5°	236.2	237.4	240.2	242.5	244.0	242.5	240.2	237.4	236.2	237.4	240.2
62°	213.3	215.1	218.1	220.9	222.9	220.9	218.1	215.1	213.3	215.1	218.1
62.5°	190.7	192.7	196.8	199.8	201.8	199.8	196.8	192.7	190.7	192.7	196.8
63°	169.1	171.3	175.9	179.2	181.5	179.2	175.9	171.3	169.1	171.3	175.9
63.5°	148.5	150.8	155.6	159.6	163.5	159.6	155.6	150.8	148.5	150.8	155.6
64°	128.6	131.2	136.0	141.3	145.7	141.3	136.0	131.2	128.6	131.2	136.0
64.5°	109.6	112.9	118.0	123.5	127.6	123.5	118.0	112.9	109.6	112.9	118.0
65°	91.8	96.1	100.9	106.3	109.8	106.3	100.9	96.1	91.8	96.1	100.9
65.5°	75.5	80.3	84.7	89.7	93.0	89.7	84.7	80.3	75.5	80.3	84.7
66°	60.5	66.4	69.7	74.7	77.8	74.7	69.7	66.4	60.5	66.4	69.7



TEST NUMBER: P776143

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	23.1	31.3	34.8	39.1	41.4	39.1	34.8	31.3	23.1	31.3	34.8
68°	13.5	21.6	26.4	29.5	32.3	29.5	26.4	21.6	13.5	21.6	26.4
68.5°	5.1	14.5	19.1	22.4	25.7	22.4	19.1	14.5	5.1	14.5	19.1
69°	2.5	8.6	12.2	15.5	19.1	15.5	12.2	8.6	2.5	8.6	12.2
69.5°	1.5	3.8	6.9	10.2	13.7	10.2	6.9	3.8	1.5	3.8	6.9
70°	0.8	1.8	3.8	5.8	8.4	5.8	3.8	1.8	0.8	1.8	3.8
70.5°	0.3	1.0	2.3	2.8	3.3	2.8	2.3	1.0	0.3	1.0	2.3
71°	0.3	0.5	1.3	1.5	1.3	1.5	1.3	0.5	0.3	0.5	1.3
71.5°	0.3	0.3	0.8	0.8	0.3	0.8	0.8	0.3	0.3	0.3	0.8
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776143
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-4000K

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: P776143

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2
0.5°	1190.2	1190.0	1190.2	1190.2	1190.2	1190.2
1°	1190.0	1189.7	1190.0	1190.2	1190.2	1190.2
1.5°	1190.0	1189.7	1190.0	1190.0	1190.0	1190.0
2°	1189.5	1189.2	1189.5	1189.7	1189.7	1189.7
2.5°	1189.2	1188.7	1189.2	1189.2	1189.2	1189.0
3°	1188.7	1188.2	1188.7	1188.7	1188.7	1188.5
3.5°	1188.0	1187.7	1188.0	1188.0	1188.0	1188.0
4°	1187.2	1186.7	1187.2	1187.2	1187.2	1187.2
4.5°	1186.4	1185.9	1186.4	1186.4	1186.4	1186.4
5°	1185.4	1184.9	1185.4	1185.4	1185.4	1185.4
5.5°	1184.4	1183.9	1184.4	1184.4	1184.4	1184.4
6°	1183.1	1182.9	1183.1	1183.1	1183.4	1183.1
6.5°	1181.9	1181.6	1181.9	1182.1	1182.1	1181.9
7°	1180.6	1180.3	1180.6	1180.6	1180.6	1180.6
7.5°	1179.3	1178.8	1179.3	1179.1	1179.1	1179.1
8°	1177.5	1177.3	1177.5	1177.5	1177.5	1177.5
8.5°	1176.0	1175.5	1176.0	1176.0	1176.0	1176.0
9°	1174.2	1174.0	1174.2	1174.2	1174.2	1174.2
9.5°	1172.5	1171.9	1172.5	1172.5	1172.5	1172.2
10°	1170.4	1170.2	1170.4	1170.4	1170.4	1170.4
10.5°	1168.4	1168.1	1168.4	1168.4	1168.4	1168.4
11°	1166.4	1165.8	1166.4	1166.1	1166.1	1166.1
11.5°	1164.1	1163.6	1164.1	1163.8	1163.8	1163.8
12°	1161.5	1161.3	1161.5	1161.5	1161.5	1161.5
12.5°	1159.2	1158.7	1159.2	1159.0	1159.0	1159.0
13°	1156.4	1156.2	1156.4	1156.4	1156.4	1156.4
13.5°	1153.9	1153.4	1153.9	1153.9	1153.9	1153.6
14°	1151.1	1150.6	1151.1	1151.1	1151.1	1150.8
14.5°	1148.0	1147.8	1148.0	1148.0	1148.0	1148.0
15°	1145.3	1144.7	1145.3	1145.0	1145.0	1145.0
15.5°	1141.9	1141.7	1141.9	1141.9	1141.9	1141.9
16°	1138.9	1138.4	1138.9	1138.9	1138.9	1138.6
16.5°	1135.6	1135.3	1135.6	1135.6	1135.3	1135.3
17°	1132.0	1131.8	1132.0	1132.3	1132.0	1132.0
17.5°	1128.7	1128.5	1128.7	1128.7	1128.5	1128.5
18°	1124.9	1124.7	1124.9	1124.9	1124.9	1124.9
18.5°	1121.4	1120.8	1121.4	1121.4	1121.1	1121.1
19°	1117.5	1117.0	1117.5	1117.5	1117.3	1117.3
19.5°	1113.5	1113.2	1113.5	1113.5	1113.5	1113.5
20°	1109.4	1109.2	1109.4	1109.4	1109.4	1109.4
20.5°	1105.3	1104.8	1105.3	1105.3	1105.3	1105.1
21°	1101.0	1100.8	1101.0	1101.0	1101.0	1101.0



TEST NUMBER: P776143

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1087.8	1087.3	1087.8	1087.8	1087.8	1087.5
23°	1083.0	1082.7	1083.0	1083.0	1083.0	1083.0
23.5°	1078.4	1077.9	1078.4	1078.4	1078.4	1078.1
24°	1073.3	1073.1	1073.3	1073.6	1073.3	1073.3
24.5°	1068.5	1068.0	1068.5	1068.7	1068.5	1068.2
25°	1063.4	1062.9	1063.4	1063.6	1063.4	1063.4
25.5°	1058.3	1057.8	1058.3	1058.6	1058.3	1058.1
26°	1053.0	1052.5	1053.0	1053.2	1053.0	1053.0
26.5°	1047.6	1047.1	1047.6	1047.9	1047.9	1047.6
27°	1042.3	1041.8	1042.3	1042.5	1042.3	1042.3
27.5°	1036.7	1036.2	1036.7	1037.0	1037.0	1036.7
28°	1031.1	1030.6	1031.1	1031.4	1031.4	1031.1
28.5°	1025.5	1025.0	1025.5	1025.8	1025.5	1025.5
29°	1019.7	1018.9	1019.7	1019.9	1019.9	1019.7
29.5°	1013.8	1013.1	1013.8	1014.1	1014.1	1013.8
30°	1007.7	1007.2	1007.7	1008.2	1008.2	1008.0
30.5°	1001.9	1001.1	1001.9	1002.1	1002.1	1002.1
31°	995.5	995.0	995.5	996.3	996.0	995.8
31.5°	989.4	988.7	989.4	989.9	989.9	989.7
32°	983.3	982.3	983.3	983.8	983.8	983.6
32.5°	976.7	975.9	976.7	977.5	977.5	977.2
33°	970.6	969.6	970.6	971.1	971.1	970.6
33.5°	964.0	963.0	964.0	964.8	964.5	964.2
34°	957.4	956.6	957.4	958.1	957.9	957.6
34.5°	950.8	950.0	950.8	951.5	951.3	951.0
35°	944.2	943.1	944.2	944.9	944.7	944.4
35.5°	937.3	936.3	937.3	938.1	938.1	937.6
36°	930.4	929.4	930.4	931.5	931.2	930.9
36.5°	923.6	922.6	923.6	924.6	924.3	924.1
37°	916.5	915.7	916.5	917.5	917.2	917.0
37.5°	909.3	908.3	909.3	910.6	910.4	909.8
38°	902.2	901.5	902.2	903.5	903.0	902.7
38.5°	895.1	894.1	895.1	896.1	895.9	895.4
39°	887.7	886.7	887.7	889.0	888.7	888.2
39.5°	880.4	879.1	880.4	881.4	881.1	880.9
40°	872.7	871.5	872.7	873.7	873.7	873.2
40.5°	864.8	863.8	864.8	866.1	865.9	865.6
41°	857.2	856.0	857.2	858.5	858.2	857.7
41.5°	849.1	848.1	849.1	850.4	850.1	849.9
42°	841.0	839.7	841.0	842.2	842.0	841.7
42.5°	832.6	831.3	832.6	833.8	833.8	833.3
43°	823.9	822.6	823.9	825.2	825.2	824.9
43.5°	815.0	813.8	815.0	816.3	816.3	816.0



TEST NUMBER: P776143

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	786.3	785.0	786.3	787.6	787.8	787.8
45.5°	775.9	774.6	775.9	777.4	777.7	777.7
46°	765.2	763.7	765.2	766.7	767.2	767.2
46.5°	753.8	752.7	753.8	755.5	756.0	756.0
47°	742.1	740.8	742.1	743.6	744.3	744.3
47.5°	729.9	728.6	729.9	731.4	732.1	732.1
48°	717.4	716.4	717.4	718.9	719.4	719.4
48.5°	704.7	703.7	704.7	705.7	706.2	706.2
49°	691.2	690.7	691.2	692.0	692.2	692.2
49.5°	677.5	677.2	677.5	678.3	678.0	678.3
50°	663.5	663.3	663.5	664.0	663.5	663.3
50.5°	649.3	649.3	649.3	649.5	648.8	647.7
51°	635.0	635.5	635.0	634.3	633.5	633.0
51.5°	620.5	621.3	620.5	619.8	618.8	618.5
52°	606.6	607.8	606.6	605.5	604.5	604.0
52.5°	593.3	594.4	593.3	592.1	590.8	590.3
53°	580.1	581.1	580.1	579.1	577.8	577.3
53.5°	566.7	567.4	566.7	566.1	565.6	565.1
54°	552.9	552.9	552.9	553.2	553.2	553.7
54.5°	538.2	537.2	538.2	539.5	540.5	541.0
55°	522.4	520.9	522.4	524.2	525.7	526.7
55.5°	505.6	504.1	505.6	507.2	508.7	510.0
56°	487.3	485.6	487.3	488.9	490.4	491.1
56.5°	467.8	466.5	467.8	469.3	469.8	470.6
57°	446.9	445.4	446.9	448.2	448.4	448.9
57.5°	424.8	423.8	424.8	426.1	426.1	426.1
58°	402.7	401.7	402.7	403.4	403.2	402.9
58.5°	379.8	378.8	379.8	380.1	379.3	379.3
59°	356.7	356.4	356.7	356.4	355.7	355.1
59.5°	333.8	333.8	333.8	332.8	331.5	331.0
60°	311.2	310.9	311.2	309.1	307.6	306.6
60.5°	288.0	288.3	288.0	285.7	283.7	282.4
61°	265.1	265.9	265.1	262.6	260.6	259.0
61.5°	242.5	244.0	242.5	240.2	237.4	236.2
62°	220.9	222.9	220.9	218.1	215.1	213.3
62.5°	199.8	201.8	199.8	196.8	192.7	190.7
63°	179.2	181.5	179.2	175.9	171.3	169.1
63.5°	159.6	163.5	159.6	155.6	150.8	148.5
64°	141.3	145.7	141.3	136.0	131.2	128.6
64.5°	123.5	127.6	123.5	118.0	112.9	109.6
65°	106.3	109.8	106.3	100.9	96.1	91.8
65.5°	89.7	93.0	89.7	84.7	80.3	75.5
66°	74.7	77.8	74.7	69.7	66.4	60.5



TEST NUMBER: P776143

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	39.1	41.4	39.1	34.8	31.3	23.1
68°	29.5	32.3	29.5	26.4	21.6	13.5
68.5°	22.4	25.7	22.4	19.1	14.5	5.1
69°	15.5	19.1	15.5	12.2	8.6	2.5
69.5°	10.2	13.7	10.2	6.9	3.8	1.5
70°	5.8	8.4	5.8	3.8	1.8	0.8
70.5°	2.8	3.3	2.8	2.3	1.0	0.3
71°	1.5	1.3	1.5	1.3	0.5	0.3
71.5°	0.8	0.3	0.8	0.8	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776143

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRMB-2500lm-4000K

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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1096.7	1096.7	1096.7	1096.7	1096.2	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7
22°	1092.1	1092.1	1092.4	1092.4	1091.9	1092.4	1092.4	1092.1	1092.1	1092.1	1092.1	1092.4



44°	806.9	807.1	806.9	805.6	804.6	805.6	806.9	807.1	806.9	807.1	806.9
44.5°	797.5	797.7	797.7	796.2	794.7	796.2	797.7	797.7	797.5	797.7	797.7



66.5°	47.8	53.6	56.4	61.3	64.1	61.3	56.4	53.6	47.8	53.6	56.4
67°	35.3	41.2	45.3	49.3	51.6	49.3	45.3	41.2	35.3	41.2	45.3



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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Peachtree City, GA 30269

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21.5°	1096.7	1096.2	1096.7	1096.7	1096.7	1096.7
22°	1092.4	1091.9	1092.4	1092.4	1092.1	1092.1



44°	805.6	804.6	805.6	806.9	807.1	806.9
44.5°	796.2	794.7	796.2	797.7	797.7	797.5



66.5°	61.3	64.1	61.3	56.4	53.6	47.8
67°	49.3	51.6	49.3	45.3	41.2	35.3

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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)