

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: P776217

Luminaire Tested: HCDJBS1525CSD-HCD8TSQMB-2500lm-3500K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B024-HCD8TSQMB)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TSQMB-2500lm-3500K  
Description: 8 INCH SQUARE MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

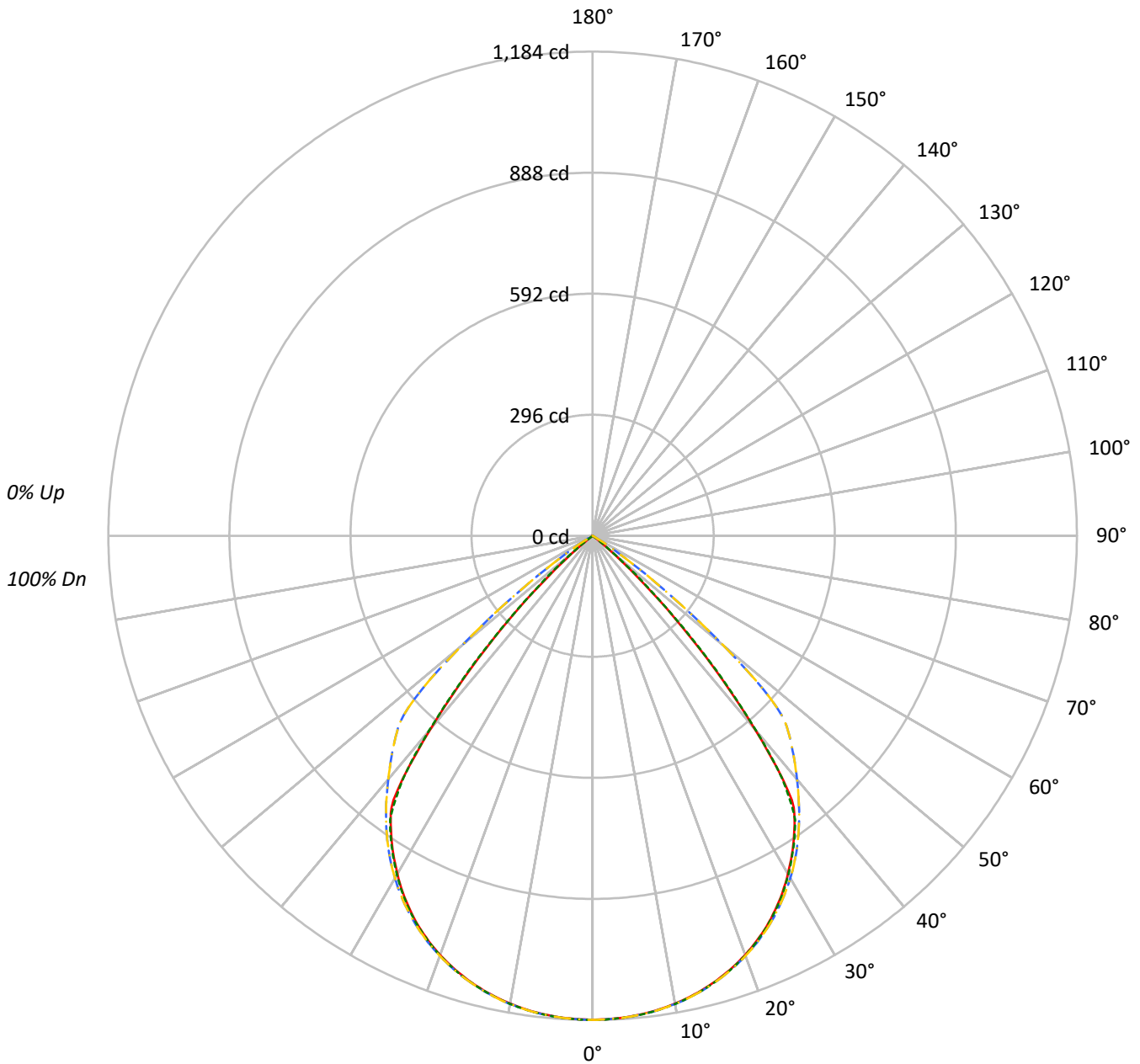
Lumens per Lamp: N/A  
Luminaire Lumens: 1839.5 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28  
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')  
CIE Type: Direct

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



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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	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84	84	84	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76	76	76	76
4	93	85	78	73	91	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64	62	62	62	62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57	57	57	57
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52	52	52	52
8	72	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	47	47	47	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44	44	44	44
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°	90°	180°	270°
0°	28383	28383	28383	28383
5°	28352	28371	28352	28371
10°	28283	28302	28283	28302
15°	28121	28146	28121	28146
20°	27832	27857	27832	27857
25°	27309	27344	27309	27344
30°	26436	26492	26436	26492
35°	25189	25262	25189	25262
40°	19307	19473	19307	19473
45°	9573	9821	9573	9821
50°	2104	2563	2104	2563
55°	33	42	33	42
60°	24	38	24	38
65°	28	28	28	28
70°	21	21	21	21
75°	28	28	28	28
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 22930 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.0	6.1
10°-20°	319.7	17.4
20°-30°	476.1	25.9
30°-40°	538.5	29.3
40°-50°	343.7	18.7
50°-60°	48.8	2.7
60°-70°	0.5	0.0
70°-80°	0.2	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°	907.8	49.3
0°-40°	1446.3	78.6
0°-60°	1838.7	100.0
0°-90°	1839.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1839.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1184	1184	1184	1184	1184	
5°	1178	1179	1178	1179	1178	112
15°	1133	1134	1133	1134	1133	319
25°	1032	1034	1032	1034	1032	474
35°	860	863	860	863	860	522
45°	282	290	282	290	282	225
55°	1	1	1	1	1	7
65°	0	0	0	0	0	0
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°	1183.7	1183.7	1183.7	1183.7	1183.7	1183.7	1183.7	1183.7	1183.7	1183.7	1183.7
0.5°	1183.2	1183.4	1183.7	1183.9	1183.9	1183.9	1183.7	1183.4	1183.2	1183.4	1183.7
1°	1182.9	1183.2	1183.4	1183.7	1183.7	1183.7	1183.4	1183.2	1182.9	1183.2	1183.4
1.5°	1182.7	1182.9	1183.2	1183.4	1183.4	1183.4	1183.2	1182.9	1182.7	1182.9	1183.2
2°	1182.4	1182.4	1182.9	1183.2	1182.9	1183.2	1182.9	1182.4	1182.4	1182.4	1182.9
2.5°	1181.9	1182.2	1182.4	1182.7	1182.7	1182.7	1182.4	1182.2	1181.9	1182.2	1182.4
3°	1181.4	1181.4	1181.9	1182.2	1181.9	1182.2	1181.9	1181.4	1181.4	1181.4	1181.9
3.5°	1180.7	1180.9	1181.2	1181.4	1181.4	1181.4	1181.2	1180.9	1180.7	1180.9	1181.2
4°	1179.9	1180.2	1180.4	1180.7	1180.4	1180.7	1180.4	1180.2	1179.9	1180.2	1180.4
4.5°	1178.9	1179.2	1179.4	1179.7	1179.7	1179.7	1179.4	1179.2	1178.9	1179.2	1179.4
5°	1177.9	1178.2	1178.7	1178.7	1178.7	1178.7	1178.7	1178.2	1177.9	1178.2	1178.7
5.5°	1176.9	1177.2	1177.4	1177.7	1177.4	1177.7	1177.4	1177.2	1176.9	1177.2	1177.4
6°	1175.7	1175.9	1176.2	1176.4	1176.4	1176.4	1176.2	1175.9	1175.7	1175.9	1176.2
6.5°	1174.4	1174.7	1174.9	1175.2	1174.9	1175.2	1174.9	1174.7	1174.4	1174.7	1174.9
7°	1172.9	1173.1	1173.6	1173.6	1173.6	1173.6	1173.6	1173.1	1172.9	1173.1	1173.6
7.5°	1171.4	1171.6	1171.9	1172.1	1171.9	1172.1	1171.9	1171.6	1171.4	1171.6	1171.9
8°	1169.6	1169.9	1170.4	1170.4	1170.4	1170.4	1170.4	1169.9	1169.6	1169.9	1170.4
8.5°	1167.9	1168.1	1168.6	1168.6	1168.4	1168.6	1168.6	1168.1	1167.9	1168.1	1168.6
9°	1165.9	1166.1	1166.6	1166.9	1166.6	1166.9	1166.6	1166.1	1165.9	1166.1	1166.6
9.5°	1163.9	1164.1	1164.6	1164.9	1164.4	1164.9	1164.6	1164.1	1163.9	1164.1	1164.6
10°	1161.6	1162.1	1162.6	1162.6	1162.4	1162.6	1162.6	1162.1	1161.6	1162.1	1162.6
10.5°	1159.4	1159.9	1160.4	1160.4	1160.1	1160.4	1160.4	1159.9	1159.4	1159.9	1160.4
11°	1156.9	1157.4	1158.1	1157.9	1157.6	1157.9	1158.1	1157.4	1156.9	1157.4	1158.1
11.5°	1154.3	1154.8	1155.6	1155.3	1155.1	1155.3	1155.6	1154.8	1154.3	1154.8	1155.6
12°	1151.6	1152.1	1152.8	1152.8	1152.3	1152.8	1152.8	1152.1	1151.6	1152.1	1152.8
12.5°	1148.8	1149.3	1150.1	1150.1	1149.6	1150.1	1150.1	1149.3	1148.8	1149.3	1150.1
13°	1145.8	1146.6	1147.3	1147.3	1146.8	1147.3	1147.3	1146.6	1145.8	1146.6	1147.3
13.5°	1142.8	1143.6	1144.3	1144.3	1143.8	1144.3	1144.3	1143.6	1142.8	1143.6	1144.3
14°	1139.6	1140.3	1141.1	1141.1	1140.6	1141.1	1141.1	1140.3	1139.6	1140.3	1141.1
14.5°	1136.3	1137.0	1137.8	1137.8	1137.3	1137.8	1137.8	1137.0	1136.3	1137.0	1137.8
15°	1132.8	1133.5	1134.5	1134.3	1133.8	1134.3	1134.5	1133.5	1132.8	1133.5	1134.5
15.5°	1129.3	1130.0	1131.0	1130.8	1130.3	1130.8	1131.0	1130.0	1129.3	1130.0	1131.0
16°	1125.5	1126.3	1127.3	1127.3	1126.5	1127.3	1127.3	1126.3	1125.5	1126.3	1127.3
16.5°	1121.7	1122.5	1123.5	1123.5	1122.8	1123.5	1123.5	1122.5	1121.7	1122.5	1123.5
17°	1117.5	1118.5	1119.7	1119.5	1118.7	1119.5	1119.7	1118.5	1117.5	1118.5	1119.7
17.5°	1113.5	1114.5	1115.5	1115.5	1114.7	1115.5	1115.5	1114.5	1113.5	1114.5	1115.5
18°	1109.2	1110.2	1111.5	1111.2	1110.2	1111.2	1111.5	1110.2	1109.2	1110.2	1111.5
18.5°	1104.7	1106.0	1107.0	1106.7	1105.7	1106.7	1107.0	1106.0	1104.7	1106.0	1107.0
19°	1100.2	1101.4	1102.4	1102.2	1101.2	1102.2	1102.4	1101.4	1100.2	1101.4	1102.4
19.5°	1095.4	1096.7	1097.9	1097.7	1096.7	1097.7	1097.9	1096.7	1095.4	1096.7	1097.9
20°	1090.7	1091.9	1093.2	1092.9	1091.7	1092.9	1093.2	1091.9	1090.7	1091.9	1093.2
20.5°	1085.4	1086.9	1088.4	1087.9	1086.6	1087.9	1088.4	1086.9	1085.4	1086.9	1088.4
21°	1080.1	1081.9	1083.4	1082.9	1081.4	1082.9	1083.4	1081.9	1080.1	1081.9	1083.4



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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°	1063.6	1065.6	1067.3	1066.6	1064.8	1066.6	1067.3	1065.6	1063.6	1065.6	1067.3
23°	1057.6	1059.8	1061.8	1060.8	1058.8	1060.8	1061.8	1059.8	1057.6	1059.8	1061.8
23.5°	1051.5	1054.1	1056.1	1054.8	1052.8	1054.8	1056.1	1054.1	1051.5	1054.1	1056.1
24°	1045.5	1047.8	1050.0	1048.8	1046.5	1048.8	1050.0	1047.8	1045.5	1047.8	1050.0
24.5°	1039.0	1041.5	1044.0	1042.5	1040.3	1042.5	1044.0	1041.5	1039.0	1041.5	1044.0
25°	1032.2	1035.2	1037.8	1036.0	1033.5	1036.0	1037.8	1035.2	1032.2	1035.2	1037.8
25.5°	1025.2	1028.7	1031.5	1029.5	1026.7	1029.5	1031.5	1028.7	1025.2	1028.7	1031.5
26°	1018.5	1022.0	1025.0	1022.7	1020.0	1022.7	1025.0	1022.0	1018.5	1022.0	1025.0
26.5°	1010.9	1014.9	1018.2	1015.7	1012.7	1015.7	1018.2	1014.9	1010.9	1014.9	1018.2
27°	1003.7	1007.7	1011.4	1008.4	1005.2	1008.4	1011.4	1007.7	1003.7	1007.7	1011.4
27.5°	996.1	1000.4	1004.4	1001.1	997.6	1001.1	1004.4	1000.4	996.1	1000.4	1004.4
28°	988.1	992.9	997.1	993.6	989.9	993.6	997.1	992.9	988.1	992.9	997.1
28.5°	980.1	985.1	989.9	986.1	981.8	986.1	989.9	985.1	980.1	985.1	989.9
29°	971.8	977.1	982.3	978.1	973.8	978.1	982.3	977.1	971.8	977.1	982.3
29.5°	963.5	969.1	974.6	970.1	965.3	970.1	974.6	969.1	963.5	969.1	974.6
30°	954.8	960.8	966.8	962.0	956.8	962.0	966.8	960.8	954.8	960.8	966.8
30.5°	946.0	952.5	958.8	953.5	948.2	953.5	958.8	952.5	946.0	952.5	958.8
31°	937.2	943.7	950.5	945.0	939.5	945.0	950.5	943.7	937.2	943.7	950.5
31.5°	928.2	935.2	942.2	936.5	930.2	936.5	942.2	935.2	928.2	935.2	942.2
32°	919.2	926.4	933.7	927.7	921.2	927.7	933.7	926.4	919.2	926.4	933.7
32.5°	909.9	917.4	924.9	918.7	911.9	918.7	924.9	917.4	909.9	917.4	924.9
33°	900.4	908.4	916.2	909.6	902.6	909.6	916.2	908.4	900.4	908.4	916.2
33.5°	890.6	899.1	906.9	900.6	893.1	900.6	906.9	899.1	890.6	899.1	906.9
34°	880.6	890.1	897.6	891.3	883.3	891.3	897.6	890.1	880.6	890.1	897.6
34.5°	870.5	880.6	888.3	881.8	873.3	881.8	888.3	880.6	870.5	880.6	888.3
35°	860.5	871.0	878.5	872.3	863.0	872.3	878.5	871.0	860.5	871.0	878.5
35.5°	850.0	861.5	869.0	862.7	852.5	862.7	869.0	861.5	850.0	861.5	869.0
36°	839.4	851.7	859.2	853.0	835.7	853.0	859.2	851.7	839.4	851.7	859.2
36.5°	826.9	841.4	849.2	842.9	817.1	842.9	849.2	841.4	826.9	841.4	849.2
37°	809.6	831.2	839.2	832.9	795.3	832.9	839.2	831.2	809.6	831.2	839.2
37.5°	783.3	820.9	828.9	822.4	774.2	822.4	828.9	820.9	783.3	820.9	828.9
38°	754.7	810.6	818.6	810.6	750.2	810.6	818.6	810.6	754.7	810.6	818.6
38.5°	720.8	799.6	808.3	793.8	722.6	793.8	808.3	799.6	720.8	799.6	808.3
39°	686.5	785.0	798.3	774.2	691.8	774.2	798.3	785.0	686.5	785.0	798.3
39.5°	651.6	765.2	787.8	753.9	657.4	753.9	787.8	765.2	651.6	765.2	787.8
40°	616.8	739.6	777.3	731.9	622.1	731.9	777.3	739.6	616.8	739.6	777.3
40.5°	581.7	709.8	767.2	707.0	585.9	707.0	767.2	709.8	581.7	709.8	767.2
41°	546.1	677.5	756.9	679.5	551.3	679.5	756.9	677.5	546.1	677.5	756.9
41.5°	511.7	644.9	746.9	649.1	517.2	649.1	746.9	644.9	511.7	644.9	746.9
42°	476.9	612.0	736.9	616.3	483.9	616.3	736.9	612.0	476.9	612.0	736.9
42.5°	443.3	579.4	726.9	582.9	450.8	582.9	726.9	579.4	443.3	579.4	726.9
43°	409.7	546.1	716.8	549.1	417.2	549.1	716.8	546.1	409.7	546.1	716.8
43.5°	376.8	512.7	706.5	516.5	383.9	516.5	706.5	512.7	376.8	512.7	706.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	282.3	415.0	676.2	421.2	289.6	421.2	676.2	415.0	282.3	415.0	676.2
45.5°	252.5	383.6	665.9	389.4	260.5	389.4	665.9	383.6	252.5	383.6	665.9
46°	224.4	352.8	652.6	358.5	232.7	358.5	652.6	352.8	224.4	352.8	652.6
46.5°	197.1	322.2	637.1	328.2	205.6	328.2	637.1	322.2	197.1	322.2	637.1
47°	170.0	292.1	615.3	298.4	181.8	298.4	615.3	292.1	170.0	292.1	615.3
47.5°	144.2	262.8	591.0	269.5	161.5	269.5	591.0	262.8	144.2	262.8	591.0
48°	121.6	235.2	561.6	241.7	141.4	241.7	561.6	235.2	121.6	235.2	561.6
48.5°	101.0	208.6	529.5	215.1	121.4	215.1	529.5	208.6	101.0	208.6	529.5
49°	85.2	182.3	493.2	189.8	101.3	189.8	493.2	182.3	85.2	182.3	493.2
49.5°	70.5	156.7	456.3	166.2	83.5	166.2	456.3	156.7	70.5	156.7	456.3
50°	56.4	132.6	418.2	145.7	68.7	145.7	418.2	132.6	56.4	132.6	418.2
50.5°	44.9	111.1	380.9	126.4	54.2	126.4	380.9	111.1	44.9	111.1	380.9
51°	33.6	92.8	344.5	107.8	41.1	107.8	344.5	92.8	33.6	92.8	344.5
51.5°	24.1	77.5	310.6	90.5	32.3	90.5	310.6	77.5	24.1	77.5	310.6
52°	14.5	62.9	277.6	74.7	25.8	74.7	277.6	62.9	14.5	62.9	277.6
52.5°	5.3	50.6	245.7	60.4	19.3	60.4	245.7	50.6	5.3	50.6	245.7
53°	3.0	39.4	215.4	48.1	13.0	48.1	215.4	39.4	3.0	39.4	215.4
53.5°	2.3	29.1	188.5	36.6	7.5	36.6	188.5	29.1	2.3	29.1	188.5
54°	1.5	20.1	163.2	26.8	2.0	26.8	163.2	20.1	1.5	20.1	163.2
54.5°	0.8	11.0	139.7	20.1	1.0	20.1	139.7	11.0	0.8	11.0	139.7
55°	0.8	3.8	118.3	13.5	1.0	13.5	118.3	3.8	0.8	3.8	118.3
55.5°	0.8	2.3	98.0	8.3	1.0	8.3	98.0	2.3	0.8	2.3	98.0
56°	0.8	1.8	80.2	5.0	0.8	5.0	80.2	1.8	0.8	1.8	80.2
56.5°	0.8	1.0	66.2	2.0	0.8	2.0	66.2	1.0	0.8	1.0	66.2
57°	0.8	0.8	52.9	1.3	0.8	1.3	52.9	0.8	0.8	0.8	52.9
57.5°	0.8	0.8	41.1	0.8	0.8	0.8	41.1	0.8	0.8	0.8	41.1
58°	0.8	0.8	30.6	0.8	0.8	0.8	30.6	0.8	0.8	0.8	30.6
58.5°	0.5	0.5	22.1	0.8	0.8	0.8	22.1	0.5	0.5	0.5	22.1
59°	0.5	0.5	16.8	0.5	0.8	0.5	16.8	0.5	0.5	0.5	16.8
59.5°	0.5	0.5	12.3	0.5	0.8	0.5	12.3	0.5	0.5	0.5	12.3
60°	0.5	0.5	8.0	0.5	0.8	0.5	8.0	0.5	0.5	0.5	8.0
60.5°	0.5	0.5	4.8	0.5	0.5	0.5	4.8	0.5	0.5	0.5	4.8
61°	0.5	0.5	3.0	0.5	0.5	0.5	3.0	0.5	0.5	0.5	3.0
61.5°	0.5	0.5	1.8	0.5	0.5	0.5	1.8	0.5	0.5	0.5	1.8
62°	0.5	0.5	0.8	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.8
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.3	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.3
65.5°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3





TEST NUMBER: P776217

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
77°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
77.5°	0.0	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.0	0.3	0.0
78°	0.0	0.0	0.0	0.0	0.3	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: P776217  
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-3500K

**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: P776217

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1183.7	1183.7	1183.7	1183.7	1183.7	1183.7
0.5°	1183.9	1183.9	1183.9	1183.7	1183.4	1183.2
1°	1183.7	1183.7	1183.7	1183.4	1183.2	1182.9
1.5°	1183.4	1183.4	1183.4	1183.2	1182.9	1182.7
2°	1183.2	1182.9	1183.2	1182.9	1182.4	1182.4
2.5°	1182.7	1182.7	1182.7	1182.4	1182.2	1181.9
3°	1182.2	1181.9	1182.2	1181.9	1181.4	1181.4
3.5°	1181.4	1181.4	1181.4	1181.2	1180.9	1180.7
4°	1180.7	1180.4	1180.7	1180.4	1180.2	1179.9
4.5°	1179.7	1179.7	1179.7	1179.4	1179.2	1178.9
5°	1178.7	1178.7	1178.7	1178.7	1178.2	1177.9
5.5°	1177.7	1177.4	1177.7	1177.4	1177.2	1176.9
6°	1176.4	1176.4	1176.4	1176.2	1175.9	1175.7
6.5°	1175.2	1174.9	1175.2	1174.9	1174.7	1174.4
7°	1173.6	1173.6	1173.6	1173.6	1173.1	1172.9
7.5°	1172.1	1171.9	1172.1	1171.9	1171.6	1171.4
8°	1170.4	1170.4	1170.4	1170.4	1169.9	1169.6
8.5°	1168.6	1168.4	1168.6	1168.6	1168.1	1167.9
9°	1166.9	1166.6	1166.9	1166.6	1166.1	1165.9
9.5°	1164.9	1164.4	1164.9	1164.6	1164.1	1163.9
10°	1162.6	1162.4	1162.6	1162.6	1162.1	1161.6
10.5°	1160.4	1160.1	1160.4	1160.4	1159.9	1159.4
11°	1157.9	1157.6	1157.9	1158.1	1157.4	1156.9
11.5°	1155.3	1155.1	1155.3	1155.6	1154.8	1154.3
12°	1152.8	1152.3	1152.8	1152.8	1152.1	1151.6
12.5°	1150.1	1149.6	1150.1	1150.1	1149.3	1148.8
13°	1147.3	1146.8	1147.3	1147.3	1146.6	1145.8
13.5°	1144.3	1143.8	1144.3	1144.3	1143.6	1142.8
14°	1141.1	1140.6	1141.1	1141.1	1140.3	1139.6
14.5°	1137.8	1137.3	1137.8	1137.8	1137.0	1136.3
15°	1134.3	1133.8	1134.3	1134.5	1133.5	1132.8
15.5°	1130.8	1130.3	1130.8	1131.0	1130.0	1129.3
16°	1127.3	1126.5	1127.3	1127.3	1126.3	1125.5
16.5°	1123.5	1122.8	1123.5	1123.5	1122.5	1121.7
17°	1119.5	1118.7	1119.5	1119.7	1118.5	1117.5
17.5°	1115.5	1114.7	1115.5	1115.5	1114.5	1113.5
18°	1111.2	1110.2	1111.2	1111.5	1110.2	1109.2
18.5°	1106.7	1105.7	1106.7	1107.0	1106.0	1104.7
19°	1102.2	1101.2	1102.2	1102.4	1101.4	1100.2
19.5°	1097.7	1096.7	1097.7	1097.9	1096.7	1095.4
20°	1092.9	1091.7	1092.9	1093.2	1091.9	1090.7
20.5°	1087.9	1086.6	1087.9	1088.4	1086.9	1085.4
21°	1082.9	1081.4	1082.9	1083.4	1081.9	1080.1



TEST NUMBER: P776217

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1066.6	1064.8	1066.6	1067.3	1065.6	1063.6
23°	1060.8	1058.8	1060.8	1061.8	1059.8	1057.6
23.5°	1054.8	1052.8	1054.8	1056.1	1054.1	1051.5
24°	1048.8	1046.5	1048.8	1050.0	1047.8	1045.5
24.5°	1042.5	1040.3	1042.5	1044.0	1041.5	1039.0
25°	1036.0	1033.5	1036.0	1037.8	1035.2	1032.2
25.5°	1029.5	1026.7	1029.5	1031.5	1028.7	1025.2
26°	1022.7	1020.0	1022.7	1025.0	1022.0	1018.5
26.5°	1015.7	1012.7	1015.7	1018.2	1014.9	1010.9
27°	1008.4	1005.2	1008.4	1011.4	1007.7	1003.7
27.5°	1001.1	997.6	1001.1	1004.4	1000.4	996.1
28°	993.6	989.9	993.6	997.1	992.9	988.1
28.5°	986.1	981.8	986.1	989.9	985.1	980.1
29°	978.1	973.8	978.1	982.3	977.1	971.8
29.5°	970.1	965.3	970.1	974.6	969.1	963.5
30°	962.0	956.8	962.0	966.8	960.8	954.8
30.5°	953.5	948.2	953.5	958.8	952.5	946.0
31°	945.0	939.5	945.0	950.5	943.7	937.2
31.5°	936.5	930.2	936.5	942.2	935.2	928.2
32°	927.7	921.2	927.7	933.7	926.4	919.2
32.5°	918.7	911.9	918.7	924.9	917.4	909.9
33°	909.6	902.6	909.6	916.2	908.4	900.4
33.5°	900.6	893.1	900.6	906.9	899.1	890.6
34°	891.3	883.3	891.3	897.6	890.1	880.6
34.5°	881.8	873.3	881.8	888.3	880.6	870.5
35°	872.3	863.0	872.3	878.5	871.0	860.5
35.5°	862.7	852.5	862.7	869.0	861.5	850.0
36°	853.0	835.7	853.0	859.2	851.7	839.4
36.5°	842.9	817.1	842.9	849.2	841.4	826.9
37°	832.9	795.3	832.9	839.2	831.2	809.6
37.5°	822.4	774.2	822.4	828.9	820.9	783.3
38°	810.6	750.2	810.6	818.6	810.6	754.7
38.5°	793.8	722.6	793.8	808.3	799.6	720.8
39°	774.2	691.8	774.2	798.3	785.0	686.5
39.5°	753.9	657.4	753.9	787.8	765.2	651.6
40°	731.9	622.1	731.9	777.3	739.6	616.8
40.5°	707.0	585.9	707.0	767.2	709.8	581.7
41°	679.5	551.3	679.5	756.9	677.5	546.1
41.5°	649.1	517.2	649.1	746.9	644.9	511.7
42°	616.3	483.9	616.3	736.9	612.0	476.9
42.5°	582.9	450.8	582.9	726.9	579.4	443.3
43°	549.1	417.2	549.1	716.8	546.1	409.7
43.5°	516.5	383.9	516.5	706.5	512.7	376.8



TEST NUMBER: P776217

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	421.2	289.6	421.2	676.2	415.0	282.3
45.5°	389.4	260.5	389.4	665.9	383.6	252.5
46°	358.5	232.7	358.5	652.6	352.8	224.4
46.5°	328.2	205.6	328.2	637.1	322.2	197.1
47°	298.4	181.8	298.4	615.3	292.1	170.0
47.5°	269.5	161.5	269.5	591.0	262.8	144.2
48°	241.7	141.4	241.7	561.6	235.2	121.6
48.5°	215.1	121.4	215.1	529.5	208.6	101.0
49°	189.8	101.3	189.8	493.2	182.3	85.2
49.5°	166.2	83.5	166.2	456.3	156.7	70.5
50°	145.7	68.7	145.7	418.2	132.6	56.4
50.5°	126.4	54.2	126.4	380.9	111.1	44.9
51°	107.8	41.1	107.8	344.5	92.8	33.6
51.5°	90.5	32.3	90.5	310.6	77.5	24.1
52°	74.7	25.8	74.7	277.6	62.9	14.5
52.5°	60.4	19.3	60.4	245.7	50.6	5.3
53°	48.1	13.0	48.1	215.4	39.4	3.0
53.5°	36.6	7.5	36.6	188.5	29.1	2.3
54°	26.8	2.0	26.8	163.2	20.1	1.5
54.5°	20.1	1.0	20.1	139.7	11.0	0.8
55°	13.5	1.0	13.5	118.3	3.8	0.8
55.5°	8.3	1.0	8.3	98.0	2.3	0.8
56°	5.0	0.8	5.0	80.2	1.8	0.8
56.5°	2.0	0.8	2.0	66.2	1.0	0.8
57°	1.3	0.8	1.3	52.9	0.8	0.8
57.5°	0.8	0.8	0.8	41.1	0.8	0.8
58°	0.8	0.8	0.8	30.6	0.8	0.8
58.5°	0.8	0.8	0.8	22.1	0.5	0.5
59°	0.5	0.8	0.5	16.8	0.5	0.5
59.5°	0.5	0.8	0.5	12.3	0.5	0.5
60°	0.5	0.8	0.5	8.0	0.5	0.5
60.5°	0.5	0.5	0.5	4.8	0.5	0.5
61°	0.5	0.5	0.5	3.0	0.5	0.5
61.5°	0.5	0.5	0.5	1.8	0.5	0.5
62°	0.5	0.5	0.5	0.8	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.5	0.5	0.5	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.3	0.5	0.5
65.5°	0.3	0.5	0.3	0.3	0.3	0.3
66°	0.3	0.5	0.3	0.3	0.3	0.3



TEST NUMBER: P776217

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	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	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.0	0.3	0.3
77°	0.3	0.3	0.3	0.0	0.3	0.3
77.5°	0.3	0.3	0.3	0.0	0.3	0.0
78°	0.0	0.3	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: P776217

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMB-2500lm-3500K

**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  
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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°	1074.9	1076.6	1078.1	1077.6	1076.1	1077.6	1078.1	1076.6	1074.9	1076.6	1078.1
22°	1069.3	1071.1	1072.9	1072.1	1070.6	1072.1	1072.9	1071.1	1069.3	1071.1	1072.9



44°	344.2	479.9	696.5	484.4	351.5	484.4	696.5	479.9	344.2	479.9	696.5
44.5°	312.9	447.3	686.5	452.6	320.2	452.6	686.5	447.3	312.9	447.3	686.5



66.5°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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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21.5°	1077.6	1076.1	1077.6	1078.1	1076.6	1074.9
22°	1072.1	1070.6	1072.1	1072.9	1071.1	1069.3



44°	484.4	351.5	484.4	696.5	479.9	344.2
44.5°	452.6	320.2	452.6	686.5	447.3	312.9

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66.5°	0.3	0.5	0.3	0.3	0.3	0.3
67°	0.3	0.5	0.3	0.3	0.3	0.3

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Peachtree City, GA 30269

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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)