

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: P776186

Luminaire Tested: HCDJBL51525CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B022)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K  
Description: 8 INCH ROUND MEDIUM LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

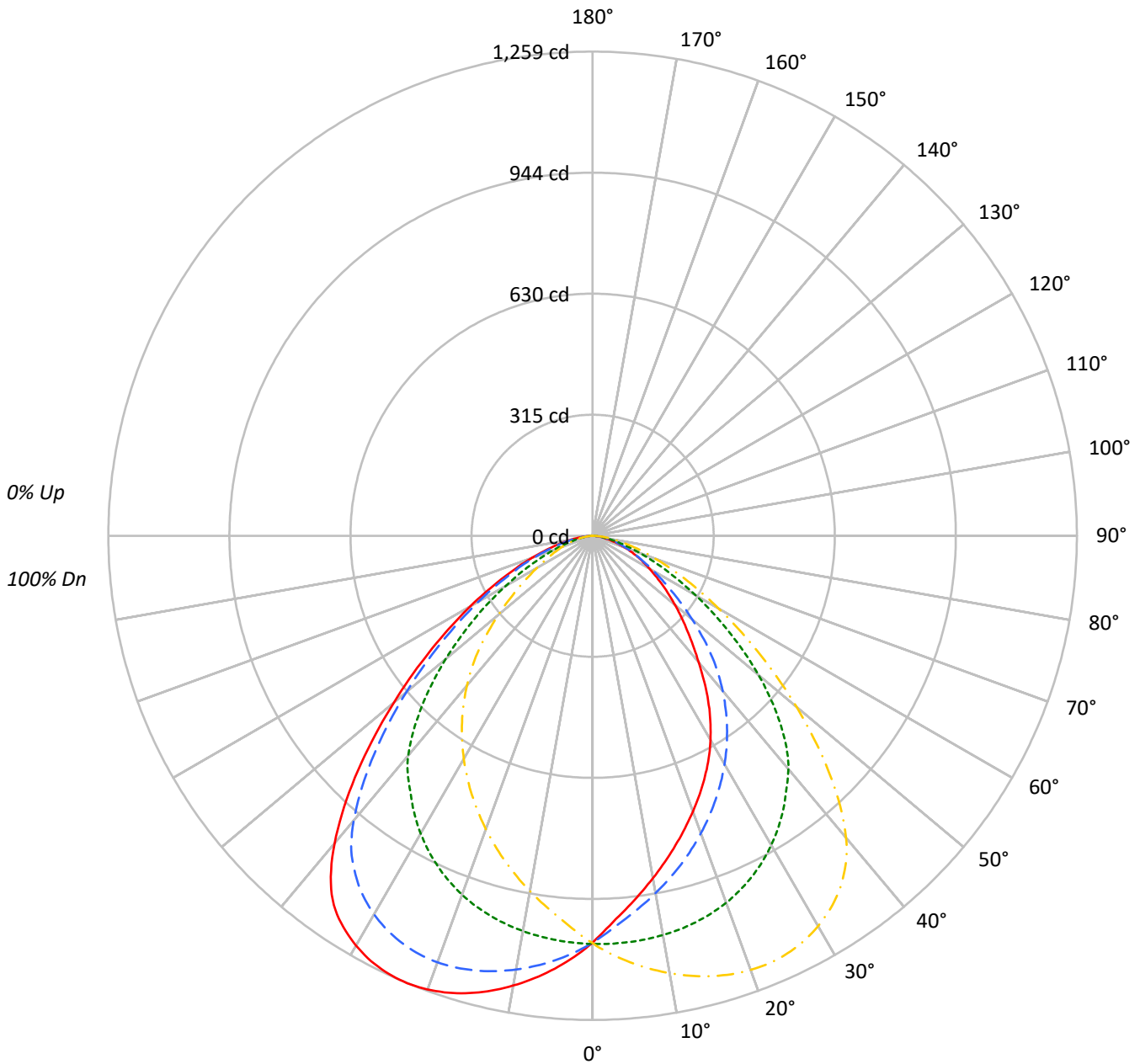
Lumens per Lamp: N/A  
Luminaire Lumens: 2475.8 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.32  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	94	89	83	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65								
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57								
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50								
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44								
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39								
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35								
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32								
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29								

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

	0°	90°	180°	270°
0°	32325	32325	32325	32325
5°	29914	32510	34625	32360
10°	28022	32678	36817	32359
15°	26329	32865	38912	32350
20°	24783	32990	40791	32259
25°	23274	32972	42320	31999
30°	21603	32747	43365	31516
35°	19526	32243	43692	30696
40°	17098	31573	41600	29704
45°	15012	29779	37214	27141
50°	13275	26750	32041	23687
55°	11721	22899	27018	19833
60°	10380	18831	22421	15992
65°	9261	15106	18335	12534
70°	7900	11712	14934	9525
75°	6323	8894	12044	6995
80°	4905	6558	9477	4729
85°	3293	4659	6060	2697

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 37853 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	4.1
10°-20°	290.9	11.8
20°-30°	445.3	18.0
30°-40°	527.3	21.3
40°-50°	484.2	19.6
50°-60°	338.6	13.7
60°-70°	189.7	7.7
70°-80°	81.9	3.3
80°-90°	17.3	0.7
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°	836.7	33.8
0°-40°	1364.0	55.1
0°-60°	2186.9	88.3
0°-90°	2475.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2475.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1059	1059	1059	1059	1059	
5°	976	1061	1130	1056	976	91
15°	833	1040	1231	1024	833	234
25°	691	979	1256	950	691	317
35°	524	865	1172	824	524	326
45°	348	690	862	629	348	269
55°	220	430	508	373	220	198
65°	128	209	254	174	128	127
75°	54	75	102	59	54	58
85°	9	13	17	8	9	12
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°	1058.8	1058.8	1058.8	1058.8	1058.8	1058.8	1058.8	1058.8	1058.8	1058.8	1058.8
0.5°	1048.7	1049.5	1052.2	1055.9	1061.6	1063.8	1066.0	1066.0	1065.5	1064.5	1063.8
1°	1040.3	1041.8	1046.2	1052.7	1061.6	1067.0	1071.7	1073.4	1073.7	1072.2	1069.2
1.5°	1031.7	1033.6	1040.3	1049.5	1061.8	1070.5	1077.4	1080.8	1081.3	1079.1	1074.4
2°	1022.8	1025.7	1034.1	1046.2	1061.8	1073.4	1082.8	1087.8	1088.7	1086.0	1079.8
2.5°	1014.4	1017.8	1028.0	1042.8	1061.8	1076.4	1088.2	1094.4	1095.9	1092.7	1084.8
3°	1006.2	1010.2	1022.0	1039.6	1061.8	1079.6	1093.2	1101.1	1103.1	1099.1	1089.7
3.5°	998.3	1003.0	1015.8	1036.1	1061.6	1082.3	1098.4	1107.5	1110.0	1105.3	1094.2
4°	990.9	995.8	1010.2	1032.4	1061.3	1085.0	1103.3	1113.9	1116.7	1111.5	1098.9
4.5°	983.2	988.9	1004.2	1028.9	1061.1	1087.8	1108.3	1120.4	1123.3	1117.4	1103.3
5°	976.1	982.0	998.5	1025.2	1060.8	1090.5	1113.0	1126.3	1129.8	1123.3	1107.8
5.5°	968.6	975.1	993.1	1021.5	1060.6	1092.7	1117.7	1132.5	1136.2	1129.3	1112.0
6°	961.5	968.4	987.4	1018.1	1060.1	1095.2	1122.1	1138.2	1142.4	1135.0	1116.2
6.5°	954.3	961.7	982.0	1014.4	1059.6	1097.6	1126.8	1144.1	1148.5	1140.1	1120.1
7°	946.9	955.1	976.6	1010.7	1059.1	1099.9	1131.0	1149.5	1154.5	1145.6	1124.1
7.5°	939.7	948.4	971.1	1007.0	1058.3	1102.1	1135.4	1155.0	1160.2	1151.0	1127.8
8°	932.6	941.5	965.7	1003.2	1057.6	1104.1	1139.4	1160.4	1166.1	1156.2	1131.5
8.5°	925.4	934.8	960.2	999.5	1056.9	1106.0	1143.6	1165.8	1171.8	1161.1	1135.2
9°	918.2	928.1	954.6	995.6	1056.1	1108.0	1147.3	1170.8	1177.2	1165.8	1138.7
9.5°	911.1	921.5	949.1	991.9	1055.1	1109.7	1151.3	1175.7	1182.4	1170.8	1141.9
10°	903.9	914.5	943.4	988.2	1054.1	1111.7	1154.7	1180.9	1187.6	1175.2	1145.1
10.5°	897.0	907.9	937.8	984.5	1053.2	1113.2	1158.4	1185.4	1192.8	1179.9	1148.3
11°	889.6	901.2	932.1	980.5	1051.9	1114.7	1162.1	1190.1	1197.7	1184.1	1151.3
11.5°	882.4	894.5	926.4	976.6	1050.7	1116.2	1165.3	1194.5	1202.4	1188.3	1154.2
12°	875.2	887.6	920.5	972.6	1049.5	1117.7	1168.6	1199.0	1206.9	1192.5	1156.9
12.5°	868.3	880.9	914.8	968.4	1048.2	1118.9	1171.8	1203.4	1211.3	1196.2	1159.4
13°	861.2	874.3	909.1	964.2	1046.7	1120.1	1174.7	1207.4	1215.8	1200.2	1161.9
13.5°	854.2	867.6	903.2	960.2	1045.0	1121.1	1177.7	1211.1	1219.7	1203.6	1164.4
14°	847.1	860.7	897.2	955.8	1043.3	1121.9	1180.4	1215.0	1223.7	1207.1	1166.6
14.5°	839.9	854.0	891.3	951.6	1041.5	1122.8	1183.1	1218.5	1227.4	1210.3	1168.6
15°	833.0	847.1	885.4	946.9	1039.8	1123.6	1185.6	1221.9	1231.1	1213.5	1170.5
15.5°	825.8	840.2	879.4	942.7	1037.8	1124.1	1187.8	1225.1	1234.5	1216.2	1172.3
16°	818.9	833.5	873.3	938.0	1035.9	1124.6	1190.1	1228.4	1237.7	1219.0	1173.7
16.5°	812.0	826.8	867.1	933.6	1033.6	1124.8	1192.0	1231.1	1240.7	1221.7	1175.2
17°	804.8	819.9	861.2	928.6	1031.4	1125.1	1194.0	1233.8	1243.4	1223.9	1176.5
17.5°	797.9	813.2	854.7	923.7	1028.9	1125.1	1195.7	1236.3	1245.9	1226.1	1177.5
18°	790.7	806.3	848.6	918.7	1026.5	1125.1	1197.2	1238.5	1248.4	1228.1	1178.4
18.5°	783.8	799.6	842.1	913.8	1023.8	1124.8	1198.5	1240.7	1250.3	1229.6	1179.2
19°	776.9	792.7	836.0	908.6	1021.0	1124.6	1199.7	1242.7	1252.3	1231.3	1179.7
19.5°	769.7	786.0	829.5	903.7	1018.3	1124.1	1200.7	1244.2	1254.1	1232.6	1179.9
20°	762.8	778.9	823.1	898.2	1015.4	1123.3	1201.4	1245.7	1255.5	1233.5	1180.2
20.5°	755.6	772.0	816.7	893.0	1012.4	1122.3	1202.2	1246.9	1256.8	1234.3	1179.9
21°	748.7	765.0	810.0	887.6	1008.9	1121.4	1202.4	1247.9	1257.8	1235.0	1179.7



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CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	727.2	744.3	790.5	870.8	998.8	1117.7	1202.7	1249.4	1259.2	1235.3	1177.7
23°	720.1	737.4	783.6	864.9	995.1	1115.9	1202.2	1249.4	1259.0	1234.8	1176.5
23.5°	712.9	730.4	777.1	859.2	991.1	1114.2	1201.4	1249.1	1258.8	1234.3	1175.2
24°	705.7	723.3	770.2	853.3	986.9	1112.2	1200.7	1248.6	1258.3	1233.3	1173.5
24.5°	698.3	715.9	763.6	847.1	983.0	1110.0	1199.7	1247.9	1257.3	1232.1	1171.8
25°	690.9	708.9	756.6	841.1	978.8	1107.5	1198.2	1246.9	1256.3	1230.8	1169.8
25.5°	683.5	701.5	750.0	835.0	974.6	1105.1	1196.7	1245.7	1255.0	1229.1	1167.6
26°	676.1	694.4	743.0	828.8	969.9	1102.3	1195.0	1244.2	1253.3	1227.1	1164.9
26.5°	668.7	687.0	736.1	822.4	965.2	1099.1	1193.0	1242.4	1251.3	1224.9	1162.1
27°	660.8	679.8	729.0	815.9	960.5	1096.2	1190.8	1240.5	1249.4	1222.7	1159.2
27.5°	652.8	672.1	722.0	809.5	955.6	1092.7	1188.3	1238.2	1246.9	1220.0	1156.0
28°	645.2	664.7	714.9	802.8	950.4	1089.2	1185.6	1235.5	1244.2	1216.7	1152.5
28.5°	637.3	657.1	707.7	796.2	945.2	1085.5	1182.6	1232.8	1241.2	1213.8	1149.0
29°	629.1	649.4	700.5	789.5	940.0	1081.6	1179.4	1229.6	1237.7	1210.1	1145.1
29.5°	621.0	641.5	693.4	782.8	934.3	1077.4	1176.0	1226.4	1234.0	1206.4	1140.9
30°	612.8	633.6	686.0	776.2	928.9	1072.9	1172.3	1222.7	1230.1	1202.2	1136.4
30.5°	604.4	625.4	678.5	769.0	923.2	1068.5	1168.3	1218.5	1225.9	1198.0	1131.7
31°	595.8	617.5	671.1	762.1	917.3	1063.8	1164.1	1214.3	1221.4	1193.3	1126.8
31.5°	587.1	609.1	663.5	755.2	911.1	1058.6	1159.7	1209.8	1216.7	1188.3	1121.6
32°	578.2	601.0	656.1	747.7	905.1	1053.7	1155.0	1204.9	1211.6	1182.9	1116.4
32.5°	569.3	592.6	648.4	740.8	899.0	1048.2	1150.0	1199.9	1206.4	1177.5	1110.5
33°	560.7	583.9	640.7	733.4	892.5	1042.8	1144.8	1194.5	1200.4	1171.8	1104.3
33.5°	551.5	575.3	633.1	726.2	885.9	1036.9	1139.2	1188.6	1194.3	1165.1	1097.9
34°	542.6	566.6	625.2	718.6	879.2	1030.7	1133.2	1182.4	1187.8	1158.4	1090.7
34.5°	533.0	557.7	617.3	711.2	872.3	1024.5	1127.3	1176.0	1180.7	1150.5	1083.1
35°	523.9	548.6	609.4	703.5	865.1	1018.1	1120.6	1168.6	1172.3	1142.4	1074.9
35.5°	514.2	539.7	601.2	695.8	857.9	1010.9	1113.5	1160.6	1163.6	1133.0	1066.3
36°	505.1	530.5	593.1	688.2	850.5	1003.5	1105.5	1151.8	1153.7	1123.1	1058.3
36.5°	495.2	521.4	585.1	680.3	842.9	996.1	1097.1	1141.9	1143.1	1113.0	1050.2
37°	485.8	512.0	576.7	672.6	835.5	988.2	1088.5	1131.7	1130.3	1102.1	1041.3
37.5°	475.9	502.6	568.3	664.5	827.8	981.0	1080.3	1120.6	1118.4	1089.5	1030.9
38°	466.5	493.0	559.9	657.1	820.9	973.8	1071.2	1108.3	1104.3	1076.1	1019.3
38.5°	456.4	483.6	551.5	649.1	813.7	967.2	1061.1	1095.2	1090.5	1062.3	1006.7
39°	447.3	473.9	543.1	641.5	806.5	959.3	1049.7	1081.8	1075.4	1047.7	993.9
39.5°	437.9	464.3	534.5	633.8	799.6	950.6	1038.1	1067.5	1060.1	1032.6	980.0
40°	429.0	454.7	525.8	626.2	792.2	941.0	1025.2	1052.2	1043.8	1016.8	965.7
40.5°	419.6	445.0	516.9	618.3	784.1	929.9	1011.6	1036.9	1027.0	1000.5	950.6
41°	411.2	435.6	508.0	610.3	775.2	918.7	997.6	1020.3	1009.9	983.7	935.5
41.5°	402.5	426.3	499.4	602.2	765.8	906.9	983.0	1003.7	992.1	966.7	919.7
42°	394.6	416.9	490.5	593.8	755.9	894.3	967.9	986.4	974.3	949.4	903.7
42.5°	386.5	408.0	481.6	585.1	745.8	881.9	952.3	968.6	956.3	931.3	887.6
43°	378.3	399.3	472.5	576.0	734.9	868.8	936.0	950.9	937.8	913.8	871.3
43.5°	370.4	390.7	463.3	566.6	724.0	855.2	919.5	932.6	919.0	895.0	854.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	347.7	366.2	434.9	537.5	689.7	812.5	868.8	876.7	861.9	839.9	803.1
45.5°	340.8	358.3	425.5	527.8	677.6	797.9	851.0	858.2	843.1	821.4	785.8
46°	333.3	350.4	415.6	517.4	665.7	782.6	833.7	839.2	823.8	802.8	768.5
46.5°	326.2	342.7	405.7	506.8	653.6	767.3	816.2	820.4	804.8	784.1	751.2
47°	319.3	335.3	395.9	496.4	641.0	751.7	798.1	801.1	785.5	765.5	733.9
47.5°	312.3	327.7	385.7	485.6	628.1	736.1	780.1	782.3	767.0	747.2	716.4
48°	305.7	320.5	375.6	474.9	615.3	720.3	762.6	764.0	748.2	729.2	699.3
48.5°	299.0	313.3	366.0	464.3	602.4	704.5	744.5	745.3	729.9	710.9	682.3
49°	292.6	306.2	356.1	453.2	589.6	688.7	726.7	727.0	710.7	693.1	665.5
49.5°	285.9	299.2	346.7	442.3	576.2	672.6	709.2	708.2	692.6	674.8	648.6
50°	279.5	292.3	337.1	431.4	563.2	656.8	691.6	689.9	674.6	657.3	631.6
50.5°	273.1	285.7	327.7	420.3	549.6	641.0	673.6	671.9	656.8	639.8	615.0
51°	266.9	278.7	318.8	409.2	536.2	624.7	656.1	653.8	639.0	622.7	598.5
51.5°	260.9	272.3	309.9	397.8	523.1	609.4	639.3	636.5	621.5	605.7	582.7
52°	254.8	265.6	301.0	387.0	509.5	593.5	622.2	619.0	604.7	588.8	566.4
52.5°	248.8	259.2	292.6	375.8	496.2	577.5	604.9	601.5	587.1	572.3	550.3
53°	242.9	252.8	283.9	364.7	482.8	561.9	588.1	584.6	571.1	556.2	534.7
53.5°	237.2	246.6	275.5	353.9	469.5	546.6	571.6	568.1	554.0	539.9	519.4
54°	231.3	240.4	267.1	343.0	456.2	531.0	555.5	551.8	538.4	524.1	504.1
54.5°	225.9	234.5	259.2	332.1	443.1	516.0	539.2	535.5	521.9	508.5	489.3
55°	220.2	228.6	251.3	321.5	430.2	501.1	523.1	519.7	507.6	494.0	474.7
55.5°	214.7	222.6	243.6	310.9	417.4	485.8	508.0	504.1	491.5	478.6	460.4
56°	209.5	217.0	236.0	300.2	404.5	471.2	492.2	488.8	477.2	463.8	446.0
56.5°	204.1	211.3	228.8	290.1	392.2	457.4	477.2	473.7	461.6	449.7	432.2
57°	198.9	205.3	221.4	280.2	379.3	442.8	462.3	459.1	448.2	435.6	418.3
57.5°	194.0	200.2	214.5	270.1	367.4	428.7	447.5	444.5	433.4	421.8	405.0
58°	188.8	194.7	207.8	260.4	355.1	414.9	433.4	430.5	420.3	408.2	392.2
58.5°	184.1	189.5	201.1	251.1	343.2	401.5	419.6	416.9	406.2	395.4	379.1
59°	179.4	184.3	194.7	241.7	331.4	388.2	405.7	403.3	393.6	382.5	366.7
59.5°	174.7	179.4	188.5	232.5	319.8	375.4	391.9	389.9	380.3	369.7	354.1
60°	170.0	174.5	182.4	223.6	308.4	362.5	378.6	377.1	367.2	357.6	342.2
60.5°	165.6	169.5	176.4	215.2	297.3	349.9	366.0	364.5	355.1	345.7	330.4
61°	161.1	164.8	170.5	206.6	286.6	337.5	353.6	352.1	342.0	333.8	318.8
61.5°	156.7	160.4	165.3	198.4	275.8	325.7	341.3	340.0	330.4	322.2	307.6
62°	152.5	155.9	159.9	190.8	265.4	314.1	329.1	328.4	318.8	310.9	296.8
62.5°	148.3	151.5	154.7	183.1	255.5	302.7	317.3	316.5	306.7	299.7	286.1
63°	144.3	147.0	149.7	175.7	245.6	291.1	305.9	305.2	296.0	288.9	275.5
63.5°	140.4	142.8	144.8	168.3	235.5	280.0	294.5	294.1	284.7	278.2	265.6
64°	136.4	138.9	140.1	161.4	226.8	269.3	283.9	283.4	273.8	267.9	255.5
64.5°	132.4	134.7	135.7	154.7	217.9	259.0	273.3	272.8	263.9	258.0	245.9
65°	128.2	130.7	131.5	148.3	209.1	249.1	262.9	262.7	253.8	248.3	236.7
65.5°	124.3	126.8	127.0	142.1	200.2	239.2	252.8	252.8	243.6	238.7	227.6
66°	120.3	122.8	122.8	135.9	191.3	229.3	243.2	243.2	234.3	229.3	218.4





TEST NUMBER: P776186

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	108.0	111.2	111.2	119.1	166.8	202.6	215.7	216.0	208.1	203.4	193.5
68°	104.3	107.5	107.5	113.7	159.1	194.0	207.3	207.6	199.4	195.0	185.1
68.5°	100.3	103.8	103.8	108.7	152.0	185.1	198.7	198.9	191.0	186.6	177.2
69°	96.4	100.1	100.1	103.5	144.6	176.9	190.3	190.5	182.4	178.9	169.5
69.5°	92.7	96.1	96.6	99.1	137.9	168.8	181.6	182.1	174.7	171.2	162.1
70°	88.5	92.4	93.2	94.6	131.2	160.9	173.7	174.5	167.3	163.8	154.7
70.5°	85.0	88.5	89.9	90.4	124.8	153.5	165.8	166.8	159.9	156.7	147.8
71°	81.5	85.0	86.7	86.5	118.4	146.5	158.6	159.6	152.7	149.5	141.1
71.5°	77.8	81.8	83.5	82.8	112.4	139.4	151.5	152.5	145.5	142.6	134.4
72°	74.4	78.3	80.3	78.8	106.5	132.4	144.3	145.3	138.9	135.9	128.0
72.5°	70.9	75.1	77.3	75.1	100.8	125.8	137.6	138.6	132.2	129.5	121.6
73°	67.5	71.7	74.1	71.2	95.4	119.4	130.7	132.2	125.8	123.1	115.6
73.5°	63.8	68.2	70.9	68.0	89.9	113.2	124.8	125.8	119.6	117.1	109.7
74°	60.3	65.0	68.0	64.7	85.0	107.2	118.4	119.8	113.7	111.2	104.0
74.5°	57.1	61.8	65.0	61.5	80.1	101.6	112.2	113.7	107.7	105.8	98.6
75°	53.6	58.3	62.0	58.6	75.4	95.9	106.3	108.0	102.1	100.1	93.2
75.5°	50.4	55.4	59.1	55.8	70.7	90.4	100.8	102.3	96.6	94.6	88.0
76°	47.2	52.1	56.3	53.1	66.5	85.3	95.1	96.9	91.2	89.2	82.8
76.5°	44.2	48.9	53.4	50.4	62.3	80.1	89.9	91.7	86.2	84.3	78.1
77°	41.3	46.0	50.7	47.9	58.3	75.4	84.8	86.5	81.1	79.3	73.4
77.5°	38.8	43.0	47.9	45.7	54.4	70.7	79.8	81.5	76.1	74.6	68.7
78°	36.6	40.3	45.2	43.2	50.7	66.0	74.9	76.8	71.4	69.9	64.2
78.5°	34.3	37.8	42.5	41.0	46.9	61.8	70.4	72.2	67.0	65.5	60.0
79°	32.1	35.3	40.0	38.5	43.7	57.6	65.7	67.7	62.3	61.0	56.1
79.5°	30.1	33.1	37.6	36.3	40.3	53.4	61.5	63.3	58.1	57.1	51.9
80°	27.9	31.1	35.1	34.1	37.3	49.7	57.3	58.8	53.9	52.9	47.9
80.5°	26.2	28.9	32.6	32.1	34.1	46.0	53.1	54.9	49.7	48.9	44.5
81°	24.2	26.9	30.4	29.9	31.6	42.3	49.4	50.9	45.7	45.0	40.8
81.5°	22.2	24.7	28.4	27.7	28.7	38.8	45.5	46.9	41.8	41.3	37.3
82°	20.3	22.7	26.2	25.7	26.2	35.6	42.0	43.2	38.1	37.8	33.9
82.5°	18.5	20.8	24.2	23.7	23.7	32.4	38.3	39.5	34.3	34.3	30.6
83°	16.6	18.8	22.2	21.7	21.5	29.4	35.1	36.1	30.9	30.9	27.7
83.5°	14.6	16.8	20.3	20.0	19.5	26.7	31.6	32.6	27.2	27.7	25.0
84°	12.8	15.1	18.3	18.0	17.5	24.2	28.7	29.4	24.0	24.7	22.2
84.5°	11.1	13.1	16.3	16.3	15.3	21.5	25.5	26.2	20.5	21.7	19.5
85°	9.4	11.4	14.3	14.3	13.3	19.0	23.0	23.2	17.3	18.8	16.8
85.5°	7.9	9.4	12.6	12.6	11.6	16.6	20.3	20.5	14.1	15.8	14.1
86°	6.4	7.9	10.6	10.9	9.9	14.1	17.5	17.8	10.6	12.8	11.4
86.5°	4.9	6.7	9.1	9.1	8.4	12.1	14.8	14.8	7.9	10.6	9.1
87°	3.7	5.2	7.4	7.7	6.9	9.9	12.1	12.1	6.4	8.4	6.9
87.5°	2.5	3.7	5.9	6.2	5.4	7.9	9.9	9.6	4.9	6.4	4.7
88°	1.5	2.5	4.2	4.4	4.2	6.2	7.4	7.4	3.5	4.2	2.7
88.5°	0.7	1.5	2.7	3.0	3.0	4.4	5.4	4.9	2.0	2.0	0.7



TEST NUMBER: P776186

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**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	0.2	0.2	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776186

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1058.8	1058.8	1058.8	1058.8	1058.8	1058.8
0.5°	1061.8	1061.1	1057.1	1053.7	1050.4	1048.7
1°	1064.5	1060.8	1053.7	1047.5	1042.3	1040.3
1.5°	1067.2	1060.3	1049.9	1041.1	1034.1	1031.7
2°	1070.0	1059.8	1046.2	1034.9	1026.0	1022.8
2.5°	1072.7	1059.3	1042.5	1028.2	1018.1	1014.4
3°	1075.2	1058.6	1038.8	1021.8	1010.4	1006.2
3.5°	1077.4	1058.1	1034.9	1015.4	1003.0	998.3
4°	1079.8	1057.4	1030.9	1009.2	995.3	990.9
4.5°	1082.1	1056.6	1027.0	1003.0	988.2	983.2
5°	1084.0	1055.9	1022.8	997.1	981.3	976.1
5.5°	1086.0	1054.9	1018.8	990.9	974.3	968.6
6°	1088.0	1053.9	1014.6	985.2	967.4	961.5
6.5°	1089.7	1052.9	1010.7	979.3	960.5	954.3
7°	1091.5	1051.9	1006.5	973.6	953.6	946.9
7.5°	1093.2	1050.7	1002.3	967.7	946.7	939.7
8°	1094.7	1049.5	998.3	962.0	939.7	932.6
8.5°	1096.2	1048.2	993.9	956.0	932.8	925.4
9°	1097.6	1046.7	989.7	950.1	925.7	918.2
9.5°	1098.9	1045.3	985.5	944.2	919.0	911.1
10°	1100.1	1043.8	981.3	938.5	912.1	903.9
10.5°	1101.1	1042.0	976.8	932.3	905.1	897.0
11°	1102.1	1040.3	972.6	926.4	898.2	889.6
11.5°	1102.8	1038.6	968.2	920.2	891.3	882.4
12°	1103.6	1036.9	963.7	914.3	884.4	875.2
12.5°	1104.3	1034.9	959.0	908.1	877.5	868.3
13°	1104.8	1032.6	954.6	901.9	870.8	861.2
13.5°	1105.3	1030.7	949.9	895.8	863.6	854.2
14°	1105.5	1028.4	945.2	889.6	856.7	847.1
14.5°	1105.5	1026.0	940.5	883.2	849.8	839.9
15°	1105.5	1023.5	935.8	877.0	842.9	833.0
15.5°	1105.5	1021.0	930.6	870.5	835.5	825.8
16°	1105.3	1018.3	925.7	864.1	828.8	818.9
16.5°	1105.1	1015.6	920.7	857.7	821.9	812.0
17°	1104.6	1012.6	915.5	851.5	815.0	804.8
17.5°	1103.8	1009.7	910.1	844.9	807.8	797.9
18°	1103.1	1006.7	904.9	838.4	800.9	790.7
18.5°	1102.1	1003.2	899.5	831.5	793.7	783.8
19°	1100.9	1000.0	894.0	825.1	786.8	776.9
19.5°	1099.6	996.6	888.3	818.4	779.9	769.7
20°	1098.1	992.9	882.9	812.0	772.9	762.8
20.5°	1096.6	989.4	877.0	805.1	765.8	755.6
21°	1094.9	985.5	871.3	798.1	758.9	748.7



TEST NUMBER: P776186

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1088.7	973.1	853.3	777.6	737.4	727.2
23°	1086.0	968.9	847.1	771.0	730.2	720.1
23.5°	1083.6	964.2	840.9	763.8	723.0	712.9
24°	1080.6	959.8	834.7	756.9	715.9	705.7
24.5°	1077.6	954.8	828.3	749.7	708.4	698.3
25°	1074.4	949.9	821.9	742.8	701.3	690.9
25.5°	1071.2	944.9	815.2	735.6	694.1	683.5
26°	1067.5	940.0	808.8	728.5	686.7	676.1
26.5°	1063.8	934.8	802.1	721.3	679.0	668.7
27°	1059.8	929.1	795.4	714.1	671.6	660.8
27.5°	1055.6	923.7	788.5	706.7	664.0	652.8
28°	1051.2	918.0	781.6	699.3	656.1	645.2
28.5°	1046.7	912.3	774.7	691.9	648.6	637.3
29°	1042.0	906.1	767.8	684.7	640.7	629.1
29.5°	1037.1	900.2	760.8	677.3	633.1	621.0
30°	1031.9	894.0	753.7	669.9	625.2	612.8
30.5°	1026.5	887.6	746.3	662.0	617.0	604.4
31°	1021.0	881.2	739.1	654.6	608.9	595.8
31.5°	1015.1	874.7	731.9	646.9	600.5	587.1
32°	1009.4	867.6	724.3	639.3	592.1	578.2
32.5°	1003.0	860.9	716.8	631.6	583.7	569.3
33°	996.6	853.7	709.2	623.7	575.3	560.7
33.5°	989.7	846.6	701.8	615.8	566.4	551.5
34°	982.2	838.9	693.9	607.9	557.7	542.6
34.5°	974.8	831.3	686.2	600.0	549.1	533.0
35°	966.9	823.6	678.3	591.8	539.9	523.9
35.5°	959.5	816.4	670.6	583.7	531.0	514.2
36°	952.6	809.5	663.0	575.8	521.9	505.1
36.5°	945.9	802.6	655.3	567.4	512.5	495.2
37°	939.0	795.7	647.7	559.0	503.4	485.8
37.5°	931.3	788.8	640.0	550.8	494.0	475.9
38°	922.7	781.3	632.3	542.4	484.6	466.5
38.5°	913.1	773.4	624.7	534.2	474.9	456.4
39°	901.9	764.8	617.3	525.6	465.5	447.3
39.5°	890.3	755.4	609.1	517.4	455.9	437.9
40°	878.0	745.3	600.7	508.5	446.5	429.0
40.5°	865.6	734.6	592.1	500.1	436.6	419.6
41°	852.8	724.0	583.2	491.5	427.2	411.2
41.5°	839.2	712.6	574.3	482.8	417.9	402.5
42°	825.6	701.3	564.6	473.7	408.7	394.6
42.5°	811.7	689.7	555.0	464.8	400.1	386.5
43°	797.9	677.8	545.1	455.7	391.2	378.3
43.5°	783.1	665.7	535.2	446.3	382.8	370.4



TEST NUMBER: P776186

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	738.8	628.6	503.8	417.6	358.1	347.7
45.5°	723.5	615.8	493.2	408.0	350.4	340.8
46°	708.2	603.4	482.6	397.8	342.2	333.3
46.5°	693.6	590.1	471.7	388.2	334.8	326.2
47°	677.8	577.2	460.8	378.1	327.4	319.3
47.5°	662.2	563.9	449.7	367.9	320.0	312.3
48°	646.9	551.3	438.9	357.8	312.6	305.7
48.5°	632.1	537.9	427.7	347.9	305.4	299.0
49°	616.3	525.1	416.9	338.0	298.3	292.6
49.5°	601.0	512.0	405.7	328.6	291.3	285.9
50°	585.6	498.7	394.6	319.0	284.4	279.5
50.5°	571.1	485.8	383.5	309.9	277.5	273.1
51°	555.2	473.0	373.1	300.5	270.8	266.9
51.5°	541.2	460.1	362.0	291.8	264.2	260.9
52°	525.8	447.0	351.4	282.9	257.7	254.8
52.5°	511.5	433.9	340.5	274.3	251.3	248.8
53°	496.9	421.6	329.9	265.6	245.1	242.9
53.5°	482.8	409.2	319.3	257.7	238.7	237.2
54°	468.3	396.6	309.1	249.6	232.5	231.3
54.5°	454.7	384.2	299.0	241.4	226.6	225.9
55°	440.8	372.6	288.9	233.8	220.7	220.2
55.5°	427.5	360.5	278.7	226.3	215.0	214.7
56°	413.9	348.9	269.3	218.9	209.3	209.5
56.5°	400.8	337.1	259.7	211.5	203.6	204.1
57°	388.0	325.7	250.3	204.6	197.9	198.9
57.5°	375.6	314.3	240.9	197.9	192.5	194.0
58°	363.0	303.7	232.3	191.5	187.3	188.8
58.5°	351.1	293.1	223.6	185.1	182.1	184.1
59°	338.8	282.4	215.2	178.9	177.2	179.4
59.5°	327.2	271.8	206.8	173.0	172.2	174.7
60°	315.8	261.9	198.9	167.3	167.3	170.0
60.5°	304.7	251.8	191.0	161.6	162.6	165.6
61°	293.6	242.4	183.4	156.2	157.9	161.1
61.5°	283.2	233.3	176.2	151.0	153.5	156.7
62°	272.6	223.9	169.0	146.0	149.0	152.5
62.5°	262.4	215.0	161.9	141.1	144.8	148.3
63°	252.3	206.1	155.2	136.4	140.6	144.3
63.5°	242.7	197.7	148.8	131.7	136.2	140.4
64°	233.0	189.3	142.6	127.5	132.4	136.4
64.5°	223.9	181.4	136.4	123.3	128.5	132.4
65°	215.5	173.5	130.7	119.1	124.5	128.2
65.5°	206.8	166.1	125.0	115.2	120.8	124.3
66°	198.2	158.4	119.6	111.4	117.1	120.3



TEST NUMBER: P776186

CATALOG NUMBER: HCDJBL5125CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	173.2	137.6	104.3	100.3	105.8	108.0
68°	165.6	131.0	99.6	96.9	101.8	104.3
68.5°	158.1	124.5	95.1	93.4	98.1	100.3
69°	151.0	118.6	90.7	90.2	94.4	96.4
69.5°	143.8	112.7	86.7	87.2	90.7	92.7
70°	136.9	106.7	82.8	84.0	87.2	88.5
70.5°	130.5	101.3	78.8	81.1	83.8	85.0
71°	124.0	95.9	74.9	77.8	80.3	81.5
71.5°	117.6	90.7	71.2	74.6	76.8	77.8
72°	111.7	86.0	67.7	71.7	73.4	74.4
72.5°	105.8	81.5	64.2	68.7	69.9	70.9
73°	100.1	76.8	60.8	65.7	66.5	67.5
73.5°	94.6	72.2	57.8	62.8	63.3	63.8
74°	89.5	67.5	54.9	60.0	60.0	60.3
74.5°	84.3	63.3	52.1	57.1	56.8	57.1
75°	79.3	59.3	49.4	54.4	53.6	53.6
75.5°	74.6	55.4	46.7	51.6	50.4	50.4
76°	69.9	51.6	44.2	48.9	47.4	47.2
76.5°	65.7	48.2	41.8	46.2	44.2	44.2
77°	61.3	44.7	39.5	43.5	41.5	41.3
77.5°	57.3	41.5	37.3	41.0	38.5	38.8
78°	53.4	38.3	35.3	38.3	36.1	36.6
78.5°	49.4	35.3	33.1	35.8	33.6	34.3
79°	46.0	32.4	30.9	33.6	31.4	32.1
79.5°	42.3	29.7	28.9	31.1	29.4	30.1
80°	38.8	26.9	26.9	28.7	27.2	27.9
80.5°	35.6	24.5	25.0	26.7	25.2	26.2
81°	32.6	22.2	23.0	24.5	23.2	24.2
81.5°	29.7	20.0	21.0	22.5	21.0	22.2
82°	26.7	17.8	19.3	20.5	19.0	20.3
82.5°	24.2	15.8	17.5	18.5	17.3	18.5
83°	22.0	14.1	15.8	16.8	15.3	16.6
83.5°	19.5	12.4	13.8	14.8	13.3	14.6
84°	17.1	10.6	12.4	13.1	11.6	12.8
84.5°	14.6	8.9	10.6	11.4	9.9	11.1
85°	12.1	7.7	8.9	9.6	8.4	9.4
85.5°	10.1	6.2	7.4	8.2	6.9	7.9
86°	8.2	4.9	5.9	6.7	5.4	6.4
86.5°	6.2	3.5	4.4	4.9	4.2	4.9
87°	4.4	2.5	3.0	3.5	3.0	3.7
87.5°	3.0	1.2	1.7	2.2	2.0	2.5
88°	1.2	0.5	0.5	1.0	1.2	1.5
88.5°	0.2	0.0	0.0	0.2	0.5	0.7



TEST NUMBER: P776186

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRH-HCD8TRLWW-2500lm-3000K

**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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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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Scaled Data Report





21.5°	741.6	758.1	803.6	881.9	1005.7	1120.4	1202.7	1248.6	1258.5	1235.3	1179.2
22°	734.4	751.4	796.9	876.5	1002.3	1119.1	1202.7	1249.1	1258.8	1235.3	1178.4



44°	362.7	382.5	453.9	557.2	712.6	841.1	903.2	914.3	899.7	877.0	837.2
44.5°	355.3	374.1	444.5	547.6	701.5	827.1	885.9	895.5	881.4	858.4	820.4



66.5°	116.1	119.1	118.9	130.0	182.4	220.2	233.5	233.5	225.1	220.4	210.3
67°	112.2	115.2	114.9	124.3	174.5	211.5	224.4	224.4	216.5	212.0	201.9



89°	0.2	0.7	1.2	1.7	2.0	2.7	3.2	2.5	0.5	0.2	0.0
89.5°	0.0	0.2	0.2	0.5	1.0	1.2	1.2	0.5	0.0	0.0	0.0



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21.5°	1092.9	981.5	865.4	791.5	751.7	741.6
22°	1090.7	977.3	859.4	784.6	744.5	734.4



44°	768.7	653.3	524.8	436.9	374.4	362.7
44.5°	753.2	641.0	514.2	427.5	366.2	355.3



66.5°	189.8	151.2	114.4	107.7	113.2	116.1
67°	181.1	144.1	109.2	104.0	109.5	112.2

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89°	0.0	0.0	0.0	0.0	0.2	0.2
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)