

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: P776112

Luminaire Tested: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B018)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K
Description: 6 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2225.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

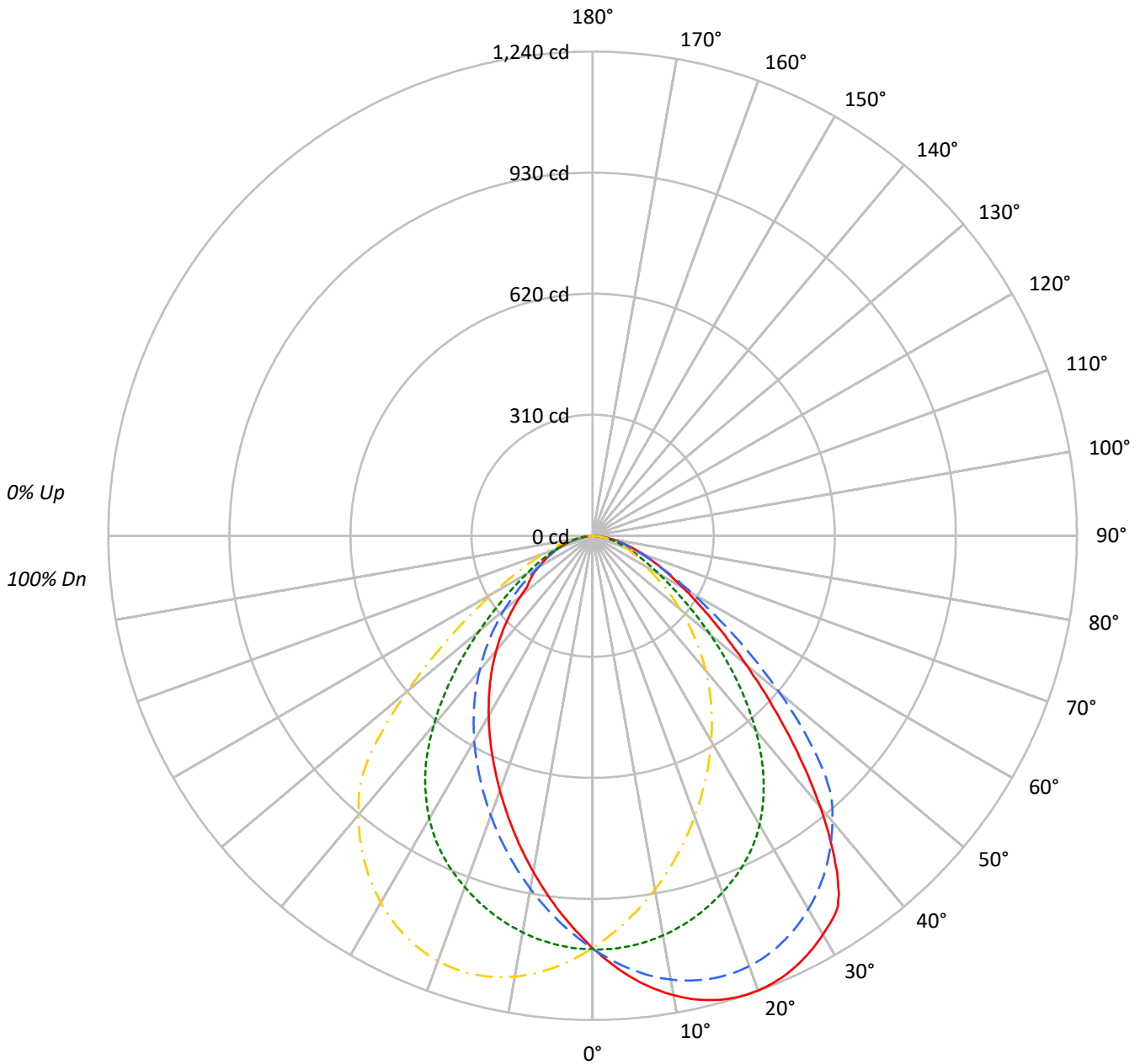
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87															
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76				76															
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66				66															
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58				58															
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51				51															
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	45				45															
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	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	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33															
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31				31															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	45527	45527	45527	45527
5°	49063	45623	41755	45450
10°	52241	45429	38211	45088
15°	54849	45065	34866	44552
20°	56783	44531	31803	43876
25°	58015	43811	29022	42998
30°	58621	42493	26464	41583
35°	57623	40109	24026	39279
40°	51001	36460	21572	35572
45°	42483	31681	19004	30762
50°	34362	26264	16129	25440
55°	27834	21018	14653	20523
60°	23224	17041	13761	16869
65°	19754	14181	12551	14283
70°	17183	12161	11556	12375
75°	14989	10514	10480	10896
80°	12323	9025	8777	9447
85°	7954	6916	4841	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 50100 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	4.5
10°-20°	283.5	12.7
20°-30°	420.6	18.9
30°-40°	480.6	21.6
40°-50°	417.9	18.8
50°-60°	271.9	12.2
60°-70°	154.9	7.0
70°-80°	77.6	3.5
80°-90°	18.4	0.8
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°	804.0	36.1
0°-40°	1284.7	57.7
0°-60°	1974.4	88.7
0°-90°	2225.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1057	1057	1057	1057	1057	
5°	1135	1056	966	1052	1135	110
15°	1230	1011	782	1000	1230	348
25°	1221	922	611	905	1221	562
35°	1096	763	457	747	1096	673
45°	698	520	312	505	698	539
55°	371	280	195	273	371	337
65°	194	139	123	140	194	194
75°	90	63	63	66	90	96
85°	16	14	10	16	16	21
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°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
0.5°	1063.9	1063.9	1063.9	1062.7	1059.7	1057.4	1049.6	1046.6	1046.6	1047.9	1051.1
1°	1072.2	1071.7	1069.7	1065.9	1059.7	1054.1	1043.6	1038.6	1037.8	1039.6	1044.9
1.5°	1080.7	1079.7	1075.7	1069.2	1059.7	1050.6	1037.1	1030.6	1028.8	1031.3	1038.3
2°	1089.0	1087.5	1081.5	1072.2	1059.4	1047.1	1030.8	1022.3	1020.0	1023.3	1031.8
2.5°	1097.0	1094.8	1087.5	1075.2	1059.2	1043.4	1024.5	1014.0	1011.0	1014.8	1025.0
3°	1105.1	1102.3	1093.0	1078.0	1058.7	1039.8	1017.8	1005.7	1002.2	1006.5	1018.3
3.5°	1112.8	1109.6	1098.3	1080.7	1058.2	1036.1	1011.2	997.4	993.2	997.9	1011.5
4°	1120.4	1116.6	1103.8	1083.2	1057.2	1031.8	1004.5	989.2	984.4	989.7	1004.7
4.5°	1127.9	1123.4	1108.8	1085.8	1056.4	1028.1	997.9	980.4	975.1	980.9	997.9
5°	1135.2	1130.2	1113.9	1088.3	1055.6	1023.8	991.2	972.1	966.1	972.4	990.9
5.5°	1141.9	1136.7	1118.9	1090.3	1054.4	1019.5	984.2	963.6	957.1	963.8	983.9
6°	1148.7	1143.0	1123.4	1092.3	1053.1	1015.0	977.1	955.1	948.0	955.1	976.6
6.5°	1155.5	1149.0	1127.9	1094.3	1051.9	1010.7	970.4	946.5	938.7	946.5	969.6
7°	1161.8	1155.0	1132.2	1096.0	1050.4	1006.5	963.3	937.7	929.5	937.7	962.3
7.5°	1167.8	1160.5	1136.4	1097.8	1048.9	1001.5	956.1	929.0	920.2	929.0	955.1
8°	1173.6	1166.0	1140.2	1099.3	1047.1	996.9	948.8	920.4	911.1	920.2	947.8
8.5°	1179.3	1171.0	1144.0	1100.6	1045.4	991.9	941.8	911.7	901.9	911.7	940.3
9°	1184.8	1176.3	1147.5	1101.6	1043.4	987.2	934.5	903.1	892.3	902.6	933.0
9.5°	1190.1	1181.1	1150.7	1102.6	1041.3	982.4	927.2	894.1	883.3	893.8	925.4
10°	1194.9	1185.6	1154.0	1103.6	1039.1	977.1	919.7	885.3	874.0	885.1	917.9
10.5°	1199.6	1190.1	1157.0	1104.3	1037.1	972.1	912.2	876.5	865.0	876.3	910.4
11°	1204.2	1194.1	1159.5	1104.8	1034.6	966.8	904.6	867.7	855.7	867.2	902.9
11.5°	1208.4	1197.9	1162.3	1105.3	1032.1	961.3	897.1	859.2	846.2	858.7	895.3
12°	1212.4	1201.7	1164.5	1105.3	1029.3	955.8	889.6	849.9	837.1	849.7	887.6
12.5°	1216.2	1204.9	1166.5	1105.6	1026.5	950.3	882.0	841.4	828.1	840.9	880.0
13°	1219.5	1208.2	1168.5	1105.3	1023.8	945.0	874.3	832.6	818.8	831.9	872.3
13.5°	1222.7	1210.9	1170.3	1105.1	1020.5	939.2	866.5	823.8	809.5	823.3	864.5
14°	1225.5	1213.7	1171.8	1104.8	1017.5	933.5	859.0	815.1	800.5	814.3	856.7
14.5°	1228.2	1216.0	1173.1	1104.3	1014.3	927.7	850.9	806.0	791.2	805.5	848.9
15°	1230.5	1218.2	1174.1	1103.6	1011.0	921.7	843.2	797.3	782.2	796.8	841.2
15.5°	1232.8	1220.0	1175.1	1102.6	1007.5	915.9	835.4	788.7	773.2	788.2	833.1
16°	1234.5	1221.7	1175.6	1101.6	1004.0	909.9	827.6	779.9	764.1	779.2	825.4
16.5°	1236.0	1223.0	1176.1	1100.3	1000.5	903.9	819.8	771.2	755.4	770.7	817.6
17°	1237.3	1224.0	1176.3	1098.8	996.4	897.6	811.8	762.4	746.3	761.9	809.8
17.5°	1238.3	1224.7	1176.3	1097.3	992.7	891.6	804.0	753.9	737.5	753.1	801.8
18°	1239.0	1225.2	1176.1	1095.8	988.7	885.6	796.3	745.1	728.5	744.6	793.7
18.5°	1239.5	1225.7	1175.6	1093.8	984.7	879.0	788.2	736.5	720.0	736.0	786.0
19°	1239.5	1225.7	1174.8	1091.8	980.4	872.5	780.4	728.0	711.5	727.5	778.2
19.5°	1239.5	1225.5	1174.1	1089.8	976.4	866.2	772.4	719.5	702.7	719.0	770.4
20°	1239.3	1225.0	1172.8	1087.3	971.9	860.0	764.4	711.0	694.1	710.5	762.4
20.5°	1238.5	1224.2	1171.5	1085.0	967.6	853.5	756.6	702.4	685.4	702.2	754.4
21°	1237.8	1223.2	1169.8	1082.2	962.8	846.7	748.6	694.1	677.1	693.6	746.6



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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°	1233.3	1218.5	1163.8	1073.5	948.5	826.9	725.0	669.3	651.8	669.1	722.7
23°	1231.5	1216.5	1161.3	1070.2	943.8	820.1	717.0	661.0	643.5	660.8	715.0
23.5°	1229.2	1214.2	1158.5	1066.9	938.5	813.3	709.2	652.8	635.2	652.8	707.2
24°	1226.7	1211.4	1155.7	1063.2	933.2	806.3	701.2	644.7	627.2	644.5	699.2
24.5°	1224.0	1208.7	1152.5	1059.7	928.0	799.5	693.4	636.7	619.1	636.2	691.4
25°	1221.2	1205.7	1149.2	1055.6	922.2	792.2	685.6	628.4	610.9	628.2	683.4
25.5°	1218.0	1202.2	1145.7	1051.6	916.7	785.5	677.6	620.4	602.8	620.4	675.8
26°	1214.4	1198.9	1141.9	1047.1	910.6	778.2	669.8	612.4	594.8	612.1	667.8
26.5°	1210.7	1194.9	1137.9	1042.9	904.6	770.9	662.0	604.6	586.8	604.3	660.0
27°	1206.9	1191.1	1133.9	1038.3	898.4	763.6	654.3	596.6	579.0	596.3	652.3
27.5°	1202.9	1186.9	1129.4	1033.3	891.6	756.4	646.2	588.5	571.2	588.5	644.7
28°	1198.4	1182.6	1124.6	1028.1	884.6	748.8	638.5	580.5	563.2	580.5	637.0
28.5°	1193.9	1177.8	1120.1	1022.8	877.8	741.1	630.9	572.7	555.4	572.7	629.2
29°	1189.1	1172.8	1115.1	1017.0	870.3	733.3	622.9	565.0	547.9	565.0	621.4
29.5°	1184.1	1167.8	1109.8	1011.0	862.7	725.5	615.4	557.2	540.1	557.4	613.6
30°	1179.1	1162.5	1104.6	1004.7	854.7	717.2	607.3	549.7	532.3	549.4	605.8
30.5°	1173.8	1157.0	1099.0	998.2	846.7	709.0	599.6	541.6	524.6	541.9	598.3
31°	1168.8	1151.5	1093.3	991.4	838.4	700.9	591.8	533.8	517.0	534.3	590.5
31.5°	1163.8	1145.7	1087.3	983.9	829.9	692.4	584.0	526.6	509.5	526.6	582.8
32°	1158.8	1139.7	1081.2	976.4	821.1	683.9	576.2	518.8	502.0	519.0	575.0
32.5°	1152.7	1133.9	1074.7	968.3	811.8	675.3	568.5	511.0	494.5	511.5	567.5
33°	1146.0	1127.9	1068.4	960.1	802.3	666.6	560.7	503.7	486.9	504.0	559.7
33.5°	1137.7	1122.1	1061.9	951.5	793.0	657.8	552.9	496.2	479.4	496.7	551.9
34°	1124.9	1116.1	1055.1	942.8	783.2	648.7	544.9	488.7	472.1	488.9	544.1
34.5°	1113.6	1109.6	1047.9	933.2	773.4	639.7	537.1	480.9	464.6	481.7	536.4
35°	1096.3	1101.8	1040.6	923.4	763.1	630.4	529.3	473.6	457.1	474.1	528.8
35.5°	1080.2	1093.0	1033.1	913.4	752.9	621.4	521.8	466.1	449.8	466.9	521.1
36°	1064.7	1080.7	1025.3	902.9	742.1	612.1	513.8	458.8	442.5	459.6	513.3
36.5°	1044.6	1068.7	1017.3	892.3	731.0	602.8	505.7	451.3	435.0	452.1	505.2
37°	1028.3	1052.9	1009.0	881.3	720.0	593.3	498.0	443.8	427.7	444.5	497.7
37.5°	1008.5	1036.1	1000.5	869.5	708.7	583.8	489.9	436.5	420.5	437.3	489.7
38°	987.9	1022.0	991.9	857.5	696.7	574.2	482.2	429.0	413.2	430.0	481.9
38.5°	969.4	1002.2	982.9	845.4	685.4	564.7	474.1	421.7	405.9	422.7	474.1
39°	947.3	985.4	974.1	833.1	673.3	555.2	466.1	414.4	398.4	415.4	466.6
39.5°	928.2	967.3	964.6	820.1	661.3	545.4	458.1	406.9	391.1	408.2	458.6
40°	907.4	946.5	955.1	806.5	648.7	535.4	450.1	399.6	383.8	400.9	450.6
40.5°	884.3	930.0	945.3	793.0	636.5	525.6	442.3	392.4	376.8	393.6	442.8
41°	865.5	908.6	936.2	779.2	623.9	515.8	434.0	385.1	369.5	386.3	435.3
41.5°	842.7	888.6	926.2	764.6	611.1	505.7	426.0	377.8	362.5	379.3	427.0
42°	822.1	869.8	915.2	749.8	598.3	496.0	418.2	370.5	355.2	372.0	419.2
42.5°	801.5	847.9	903.4	735.3	585.5	485.9	410.4	363.5	348.0	364.8	411.7
43°	778.2	829.6	891.1	720.2	572.5	476.1	402.4	356.2	340.7	357.7	403.9
43.5°	760.1	808.8	875.0	704.7	559.4	466.1	394.1	349.0	333.7	350.5	395.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	697.7	746.6	822.8	658.0	520.3	436.0	370.5	327.4	312.1	329.1	372.8
45.5°	675.6	728.0	805.5	642.0	507.0	426.2	362.8	320.1	305.1	322.1	365.0
46°	658.8	707.9	785.7	626.2	494.2	416.2	354.7	313.1	297.8	314.8	357.2
46.5°	637.2	686.6	765.6	609.9	481.2	406.4	346.9	305.8	290.5	307.8	349.2
47°	619.4	669.3	747.1	593.6	468.1	396.6	338.9	298.5	283.5	300.5	341.7
47.5°	601.1	647.7	725.5	577.5	455.1	386.8	331.1	291.5	276.5	293.8	333.9
48°	580.5	630.9	705.9	561.4	442.3	377.3	323.6	284.2	269.4	286.5	326.1
48.5°	565.7	611.9	685.9	545.1	429.5	367.3	315.8	277.2	262.4	279.5	318.4
49°	544.9	592.3	664.3	529.1	416.7	357.7	307.8	269.9	255.1	272.4	310.8
49.5°	530.8	576.2	645.5	512.8	404.4	348.2	300.3	262.9	248.1	265.4	303.0
50°	513.0	555.7	624.4	496.7	392.1	338.9	292.5	255.9	240.8	258.4	295.5
50.5°	496.7	541.1	604.3	480.7	379.3	329.4	285.0	248.6	233.8	251.4	288.0
51°	482.4	522.1	584.8	464.6	367.3	320.1	277.5	241.8	227.0	244.3	280.2
51.5°	464.1	507.0	563.9	449.1	355.7	311.3	269.9	234.6	219.8	237.3	272.9
52°	452.6	491.2	546.1	433.5	344.2	302.0	262.4	227.5	213.2	230.5	265.4
52.5°	435.5	474.1	526.6	418.2	332.4	293.3	255.4	220.5	210.0	223.5	258.1
53°	423.7	460.6	508.0	403.1	321.6	284.5	247.9	215.0	207.0	217.8	250.9
53.5°	409.9	442.5	489.7	388.3	310.6	275.7	240.6	209.5	204.0	212.0	243.6
54°	396.1	430.5	470.9	373.8	300.3	267.4	233.6	204.2	201.2	206.2	236.6
54.5°	384.8	414.2	454.6	359.7	290.0	258.9	226.5	198.7	198.2	200.4	229.8
55°	370.8	401.6	436.5	346.2	280.0	250.9	219.5	193.4	195.2	194.7	222.8
55.5°	361.2	388.1	421.0	333.2	270.4	243.1	212.7	190.4	191.9	191.7	216.0
56°	347.2	374.3	403.9	320.4	260.9	235.1	206.0	187.4	188.7	188.9	209.5
56.5°	338.4	362.8	388.8	308.1	252.1	227.5	198.9	184.1	185.4	185.6	203.0
57°	326.6	348.5	373.8	296.3	243.3	220.0	192.2	181.1	181.9	182.6	196.4
57.5°	317.3	338.4	358.5	284.7	235.1	213.2	186.1	177.9	178.4	179.4	189.7
58°	307.3	324.9	344.7	273.9	227.0	206.2	179.6	174.6	174.9	176.1	183.6
58.5°	297.3	315.6	330.6	263.4	219.3	199.2	173.3	171.3	171.1	172.8	177.1
59°	288.5	303.0	318.1	253.6	212.0	192.4	167.3	168.1	167.3	169.6	171.1
59.5°	278.5	294.3	304.8	243.8	205.0	186.1	161.3	164.6	163.6	166.1	165.3
60°	269.7	283.0	293.0	234.8	197.9	180.1	155.5	161.3	159.8	162.6	159.6
60.5°	260.7	274.4	281.0	226.0	190.7	174.1	150.0	157.5	156.0	159.0	154.0
61°	252.1	263.9	270.2	217.5	184.1	168.3	145.0	154.3	152.3	155.5	148.8
61.5°	244.1	255.4	258.9	209.5	177.9	162.6	141.7	150.5	148.3	152.0	144.0
62°	236.3	246.1	249.4	201.7	171.8	157.3	139.0	147.0	144.5	148.3	140.5
62.5°	228.3	238.1	238.8	194.4	165.8	152.0	136.0	143.5	140.7	144.8	137.7
63°	221.3	229.3	229.8	187.4	160.3	147.0	133.0	139.7	137.0	141.0	134.7
63.5°	213.7	221.8	220.5	180.4	154.8	142.0	130.2	136.2	133.5	137.5	132.0
64°	207.2	213.5	212.0	173.9	149.5	137.2	127.2	132.7	129.9	133.7	129.2
64.5°	199.9	206.5	203.5	167.6	144.2	132.7	124.2	129.2	126.4	130.5	126.2
65°	193.9	198.9	195.7	161.6	139.2	128.2	121.2	125.7	123.2	126.9	123.4
65.5°	187.4	192.4	188.2	156.0	134.5	123.9	118.4	122.4	119.9	123.4	120.4
66°	181.4	185.1	180.9	150.3	129.7	119.7	115.1	119.2	116.7	119.9	117.4



TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	163.3	166.3	160.3	134.5	116.4	107.9	106.1	109.4	107.1	110.1	108.4
68°	157.8	160.1	153.8	129.4	112.1	104.1	103.1	106.4	104.1	107.1	105.4
68.5°	152.3	154.3	148.0	124.7	108.1	100.6	100.1	103.4	100.8	103.9	102.4
69°	146.8	148.8	141.7	119.9	104.4	97.1	97.1	100.1	97.8	100.8	99.1
69.5°	141.5	143.0	136.2	115.4	100.1	93.8	94.1	97.1	94.8	97.6	96.1
70°	136.5	137.7	131.0	111.1	96.6	90.3	91.1	94.1	91.8	94.6	93.1
70.5°	131.2	132.2	125.4	106.6	92.8	87.3	88.3	91.1	88.8	91.6	90.3
71°	126.2	127.2	120.4	102.6	89.3	84.0	85.3	88.1	86.0	88.6	87.3
71.5°	121.4	122.2	115.4	98.6	85.8	81.0	82.3	85.3	83.0	85.5	84.3
72°	116.7	117.2	110.4	94.6	82.3	78.0	79.5	82.3	80.0	82.5	81.3
72.5°	111.9	112.4	105.6	90.8	79.0	75.0	76.8	79.3	77.3	79.5	78.5
73°	107.1	107.4	101.1	87.3	75.8	72.2	74.0	76.3	74.3	76.5	75.8
73.5°	102.6	102.9	96.6	83.5	72.5	69.7	71.2	73.5	71.5	73.8	72.8
74°	98.1	98.3	92.1	80.0	69.2	67.0	68.5	70.5	68.7	70.7	70.0
74.5°	93.6	93.8	88.1	76.5	66.2	64.7	65.7	67.7	65.7	68.0	67.2
75°	90.1	90.1	84.0	73.0	63.2	62.5	63.0	64.7	63.0	65.0	64.5
75.5°	85.8	85.8	80.0	69.7	60.5	60.2	60.2	62.0	60.2	62.2	61.7
76°	81.5	81.5	76.0	66.5	57.4	58.0	57.7	59.0	57.4	59.5	59.0
76.5°	77.0	77.3	72.0	63.2	54.7	55.4	54.9	56.2	54.7	56.4	56.2
77°	72.8	73.0	68.0	60.0	51.9	53.2	52.2	53.4	51.9	53.7	53.4
77.5°	69.0	69.2	64.2	56.7	49.2	50.7	49.4	50.7	49.2	50.9	50.7
78°	65.0	65.2	60.7	53.7	46.4	48.4	46.9	47.7	46.2	48.2	48.2
78.5°	61.0	61.5	56.9	50.7	43.9	45.9	44.2	44.9	43.4	45.4	45.4
79°	57.2	57.4	53.4	47.7	41.4	43.4	41.6	42.1	40.6	42.4	42.6
79.5°	53.4	53.9	49.9	44.9	38.9	41.1	39.1	39.4	38.1	39.6	39.9
80°	49.7	50.2	46.4	41.9	36.4	38.6	36.6	36.6	35.4	36.9	37.4
80.5°	46.2	46.7	43.1	39.1	33.9	36.4	34.1	33.6	32.6	34.1	34.9
81°	42.6	43.1	39.9	36.4	31.6	33.9	31.6	31.1	30.1	31.4	32.1
81.5°	39.1	39.6	36.6	33.6	29.4	31.6	29.1	28.1	27.3	28.6	29.6
82°	35.6	36.1	33.6	31.1	26.8	29.4	26.6	25.6	24.8	26.1	27.3
82.5°	32.4	32.9	30.6	28.6	24.8	27.1	24.3	23.1	22.1	23.6	24.8
83°	29.1	29.6	27.8	26.1	22.6	24.8	22.1	20.6	19.6	20.8	22.8
83.5°	25.6	26.1	24.8	23.6	20.6	22.6	19.8	18.3	17.1	18.3	20.6
84°	22.3	22.8	22.3	21.1	18.3	20.3	17.8	15.8	14.6	15.8	18.6
84.5°	19.1	19.8	19.8	18.8	16.3	18.1	15.6	13.3	12.0	13.3	16.3
85°	16.1	16.8	17.6	16.6	14.0	15.8	13.3	11.3	9.8	11.0	14.3
85.5°	12.8	13.8	15.1	14.3	12.0	13.5	11.3	9.5	8.3	9.3	12.3
86°	10.5	11.5	12.8	12.0	10.3	11.5	9.3	8.0	7.0	7.8	10.3
86.5°	8.8	9.5	10.5	10.0	8.3	9.3	7.3	6.5	5.8	6.3	8.5
87°	7.3	7.8	8.5	7.8	6.5	7.3	5.5	5.0	4.3	5.0	6.8
87.5°	5.5	5.8	6.5	5.8	4.8	5.3	3.5	3.3	3.0	3.5	4.8
88°	4.0	4.0	4.5	3.8	3.0	3.3	1.8	1.8	1.8	2.0	3.0
88.5°	2.3	2.3	2.5	1.8	1.3	1.5	0.5	0.5	0.8	0.8	1.3



TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-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: P776112

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
0.5°	1055.6	1059.4	1063.4	1061.7	1062.7	1063.9
1°	1051.9	1058.9	1066.2	1067.7	1070.2	1072.2
1.5°	1048.1	1058.4	1069.2	1073.2	1078.0	1080.7
2°	1044.1	1057.9	1071.7	1078.7	1085.5	1089.0
2.5°	1040.3	1057.2	1074.2	1084.2	1092.8	1097.0
3°	1036.1	1056.2	1076.5	1089.5	1100.1	1105.1
3.5°	1031.8	1055.1	1078.7	1094.8	1107.3	1112.8
4°	1027.6	1054.1	1080.7	1099.8	1114.1	1120.4
4.5°	1023.0	1052.9	1083.0	1104.6	1120.9	1127.9
5°	1018.5	1051.6	1084.7	1109.3	1127.4	1135.2
5.5°	1014.0	1049.9	1086.5	1113.9	1133.9	1141.9
6°	1009.2	1048.4	1088.0	1118.4	1139.9	1148.7
6.5°	1004.5	1046.6	1089.3	1122.4	1145.7	1155.5
7°	999.7	1044.9	1090.8	1126.4	1151.5	1161.8
7.5°	994.7	1042.9	1091.8	1130.2	1157.0	1167.8
8°	989.7	1040.8	1092.8	1133.9	1162.3	1173.6
8.5°	984.7	1038.6	1093.5	1137.2	1167.3	1179.3
9°	979.4	1036.3	1094.3	1140.4	1172.1	1184.8
9.5°	974.1	1033.8	1094.8	1143.5	1176.8	1190.1
10°	968.8	1031.3	1095.0	1146.5	1181.1	1194.9
10.5°	963.3	1028.6	1095.3	1149.0	1185.1	1199.6
11°	957.8	1025.8	1095.3	1151.5	1189.1	1204.2
11.5°	952.3	1023.0	1095.0	1153.5	1192.9	1208.4
12°	946.8	1019.8	1094.8	1155.5	1196.1	1212.4
12.5°	941.0	1016.8	1094.5	1157.5	1199.4	1216.2
13°	935.2	1013.5	1093.8	1159.0	1202.4	1219.5
13.5°	929.2	1010.2	1093.0	1160.5	1205.2	1222.7
14°	923.2	1006.7	1092.0	1161.8	1207.4	1225.5
14.5°	917.2	1003.2	1091.0	1162.5	1209.7	1228.2
15°	911.1	999.5	1089.8	1163.5	1211.7	1230.5
15.5°	905.1	995.7	1088.5	1164.0	1213.2	1232.8
16°	899.1	991.9	1086.8	1164.3	1214.7	1234.5
16.5°	892.8	987.9	1085.0	1164.3	1215.7	1236.0
17°	886.3	983.9	1083.2	1164.0	1216.5	1237.3
17.5°	880.0	979.6	1081.2	1163.8	1217.2	1238.3
18°	873.8	975.4	1079.0	1163.3	1217.5	1239.0
18.5°	867.2	971.1	1076.5	1162.5	1217.5	1239.5
19°	861.0	966.6	1074.2	1161.3	1217.5	1239.5
19.5°	854.2	962.1	1071.5	1160.0	1217.0	1239.5
20°	847.7	957.6	1068.7	1158.8	1216.2	1239.3
20.5°	841.2	952.8	1065.7	1157.0	1215.2	1238.5
21°	834.4	947.8	1062.7	1155.0	1213.9	1237.8



TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	814.1	932.7	1052.4	1148.0	1208.7	1233.3
23°	807.3	927.5	1048.6	1145.2	1206.4	1231.5
23.5°	800.3	922.2	1044.6	1142.2	1203.9	1229.2
24°	793.5	916.7	1040.6	1138.9	1201.2	1226.7
24.5°	786.2	910.9	1036.3	1135.7	1198.1	1224.0
25°	779.2	905.1	1032.1	1131.9	1194.9	1221.2
25.5°	772.2	899.1	1027.3	1128.1	1191.4	1218.0
26°	764.9	893.1	1022.8	1123.9	1187.6	1214.4
26.5°	757.6	886.8	1017.8	1119.9	1183.6	1210.7
27°	750.3	880.3	1012.8	1115.4	1179.8	1206.9
27.5°	742.8	873.3	1007.2	1110.6	1175.3	1202.9
28°	735.0	866.5	1001.7	1105.8	1170.8	1198.4
28.5°	727.5	859.2	995.9	1100.8	1165.8	1193.9
29°	719.7	851.7	989.7	1095.5	1161.0	1189.1
29.5°	711.7	844.2	983.4	1090.3	1155.7	1184.1
30°	703.4	836.4	976.6	1084.5	1150.5	1179.1
30.5°	695.4	828.1	969.6	1078.7	1144.7	1173.8
31°	687.1	820.1	962.3	1072.7	1138.9	1168.8
31.5°	678.8	811.6	954.8	1066.7	1133.2	1163.8
32°	670.6	803.0	947.0	1060.2	1126.9	1158.8
32.5°	661.8	794.0	938.7	1053.6	1120.9	1152.7
33°	653.3	785.2	930.5	1047.1	1114.6	1146.0
33.5°	644.7	776.2	921.7	1040.3	1108.3	1137.7
34°	635.9	766.7	912.7	1033.3	1102.6	1124.9
34.5°	626.9	757.1	903.6	1026.0	1096.3	1113.6
35°	618.1	747.3	894.1	1018.5	1088.8	1096.3
35.5°	609.4	736.8	884.1	1011.0	1080.7	1080.2
36°	600.1	726.5	874.0	1003.0	1069.9	1064.7
36.5°	591.0	715.5	863.7	994.9	1056.9	1044.6
37°	582.0	704.4	852.7	986.7	1044.4	1028.3
37.5°	572.7	692.9	841.4	978.1	1026.8	1008.5
38°	563.4	681.1	829.4	969.4	1012.0	987.9
38.5°	553.4	669.3	816.8	960.1	995.2	969.4
39°	543.9	657.3	804.3	951.3	975.9	947.3
39.5°	534.3	645.2	791.0	942.3	960.8	928.2
40°	524.6	632.9	776.9	932.7	941.0	907.4
40.5°	514.8	620.4	762.9	922.7	921.9	884.3
41°	504.7	607.6	748.6	913.4	904.4	865.5
41.5°	495.0	595.6	734.3	903.9	883.6	842.7
42°	485.2	582.8	719.5	893.8	865.0	822.1
42.5°	475.1	569.7	704.7	883.6	845.2	801.5
43°	465.4	556.9	689.4	872.5	824.1	778.2
43.5°	455.3	544.1	674.1	860.5	806.3	760.1

TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	425.7	505.2	627.2	815.1	746.6	697.7
45.5°	415.7	492.5	611.6	796.0	724.8	675.6
46°	405.7	479.7	595.6	778.4	707.4	658.8
46.5°	395.9	466.9	579.8	760.1	687.1	637.2
47°	386.3	454.3	563.9	739.3	668.6	619.4
47.5°	376.8	441.3	547.9	720.7	650.0	601.1
48°	367.0	428.7	532.1	700.4	629.2	580.5
48.5°	357.5	416.4	516.5	679.6	613.6	565.7
49°	348.2	403.9	500.7	660.8	593.6	544.9
49.5°	339.2	391.9	484.9	639.5	577.5	530.8
50°	329.6	379.8	469.4	619.6	560.4	513.0
50.5°	320.1	367.8	453.8	600.3	541.4	496.7
51°	311.3	356.2	438.5	580.0	526.8	482.4
51.5°	302.5	344.7	423.7	561.7	507.8	464.1
52°	293.8	333.9	409.2	541.9	494.5	452.6
52.5°	284.7	323.1	394.6	523.1	478.2	435.5
53°	276.5	312.3	380.1	505.5	462.6	423.7
53.5°	268.2	302.0	366.8	486.4	448.6	409.9
54°	259.9	292.3	353.2	469.6	431.7	396.1
54.5°	252.1	283.0	340.4	451.8	420.0	384.8
55°	244.1	273.4	327.9	435.5	403.6	370.8
55.5°	236.6	264.4	316.1	419.4	392.4	361.2
56°	229.3	255.6	304.6	402.9	377.8	347.2
56.5°	222.0	247.6	293.5	388.6	366.0	338.4
57°	215.5	239.3	282.7	373.3	353.7	326.6
57.5°	208.7	231.3	272.7	359.5	340.9	317.3
58°	202.2	223.8	262.9	344.9	330.4	307.3
58.5°	195.7	216.5	253.4	332.1	317.8	297.3
59°	188.9	209.5	244.6	319.4	308.6	288.5
59.5°	182.9	202.4	236.1	306.8	296.8	278.5
60°	177.1	195.9	227.8	295.0	288.2	269.7
60.5°	171.6	189.4	219.8	283.2	277.0	260.7
61°	166.1	183.1	212.0	272.7	268.9	252.1
61.5°	160.8	177.4	204.7	261.7	258.6	244.1
62°	155.5	171.6	197.7	252.1	250.9	236.3
62.5°	150.5	165.8	190.9	242.3	241.3	228.3
63°	145.8	160.3	184.4	233.1	233.8	221.3
63.5°	141.0	155.0	177.9	224.0	225.3	213.7
64°	136.5	150.0	171.6	215.7	218.0	207.2
64.5°	132.2	145.0	165.8	207.2	209.7	199.9
65°	127.9	140.2	160.1	199.4	203.2	193.9
65.5°	123.7	135.5	154.5	191.9	195.4	187.4
66°	119.7	131.0	149.0	184.6	189.4	181.4



TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL5125CSD-HCD6TSQH-HCD6TSQLWW-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	108.1	117.9	134.0	164.6	169.6	163.3
68°	104.6	113.6	128.9	158.3	163.8	157.8
68.5°	101.1	109.6	124.4	152.3	157.8	152.3
69°	97.6	105.9	119.9	146.5	152.0	146.8
69.5°	94.3	102.1	115.4	140.7	146.5	141.5
70°	91.1	98.3	111.1	135.2	140.7	136.5
70.5°	87.8	94.6	106.9	129.9	135.5	131.2
71°	84.8	90.8	102.9	124.7	130.2	126.2
71.5°	81.8	87.6	98.8	119.7	125.2	121.4
72°	78.8	84.3	94.8	114.6	120.2	116.7
72.5°	75.8	81.0	91.1	110.1	115.1	111.9
73°	73.0	78.0	87.6	105.4	110.6	107.1
73.5°	70.2	74.8	84.0	100.6	105.6	102.6
74°	67.7	71.5	80.5	96.3	101.1	98.1
74.5°	65.0	68.5	77.0	91.8	96.6	93.6
75°	62.7	65.5	73.5	87.8	92.1	90.1
75.5°	60.5	62.5	70.2	83.8	88.1	85.8
76°	58.2	59.5	66.7	79.8	83.8	81.5
76.5°	55.7	56.7	63.7	75.8	79.8	77.0
77°	53.4	53.9	60.5	71.7	75.5	72.8
77.5°	50.9	51.2	57.4	68.0	71.5	69.0
78°	48.4	48.4	54.4	64.2	67.5	65.0
78.5°	46.2	45.9	51.2	60.5	63.7	61.0
79°	43.7	43.1	48.4	56.7	59.7	57.2
79.5°	41.1	40.6	45.4	53.2	55.9	53.4
80°	38.9	38.1	42.6	49.7	52.2	49.7
80.5°	36.4	35.6	39.9	46.4	48.7	46.2
81°	33.9	33.4	37.1	43.1	44.9	42.6
81.5°	31.6	30.9	34.4	39.9	41.4	39.1
82°	29.4	28.6	31.6	36.6	37.9	35.6
82.5°	27.1	26.3	29.1	33.6	34.6	32.4
83°	24.8	24.1	26.6	30.6	31.4	29.1
83.5°	22.6	21.8	24.1	27.8	27.8	25.6
84°	20.3	19.8	21.6	25.1	24.6	22.3
84.5°	18.1	17.6	19.3	22.3	21.6	19.1
85°	15.8	15.6	16.8	19.8	18.8	16.1
85.5°	13.5	13.5	14.6	17.3	16.1	12.8
86°	11.3	11.5	12.3	15.1	13.5	10.5
86.5°	9.3	9.5	10.0	12.5	11.3	8.8
87°	7.3	7.5	8.0	10.3	9.3	7.3
87.5°	5.3	5.8	6.0	8.3	7.3	5.5
88°	3.3	3.8	4.0	6.3	5.3	4.0
88.5°	1.5	2.0	1.8	4.3	3.5	2.3



TEST NUMBER: P776112

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQH-HCD6TSQLWW-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
1121 Highway 74 South
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°	1236.5	1221.7	1168.0	1079.5	958.3	839.9	740.8	685.9	668.6	685.4	738.6
22°	1235.0	1220.2	1166.0	1076.5	953.5	833.6	732.8	677.6	660.3	677.1	730.8



44°	737.5	787.0	859.5	689.6	546.4	456.1	386.3	341.7	326.6	343.2	388.1
44.5°	718.0	768.4	842.2	673.6	533.3	446.0	378.6	334.4	319.4	336.2	380.3



66.5°	175.1	179.1	173.6	144.8	125.2	115.6	112.1	115.9	113.4	116.7	114.4
67°	169.3	172.3	166.8	139.5	120.7	111.6	109.1	112.6	110.1	113.4	111.4



89°	0.8	0.5	0.5	0.5	0.3	0.3	0.0	0.3	0.0	0.3	0.3
89.5°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	827.6	943.0	1059.2	1153.0	1212.4	1236.5
22°	820.8	938.0	1055.9	1150.7	1210.7	1235.0



44°	445.3	531.3	658.3	845.9	784.7	737.5
44.5°	435.8	518.5	642.7	829.9	765.9	718.0



66.5°	115.6	126.4	144.0	177.9	182.1	175.1
67°	111.9	122.2	138.7	170.8	176.4	169.3

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Scaled Data Report



89°	0.3	0.5	0.5	2.3	1.5	0.8
89.5°	0.0	0.0	0.0	0.5	0.3	0.0

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)