

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: P776125

Luminaire Tested: HCDJBS1525CSD-HCD81TRC-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B042-HCD81TRC)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBLS1525CSD-HCD81TRC-2500lm-2700K  
Description: 8 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

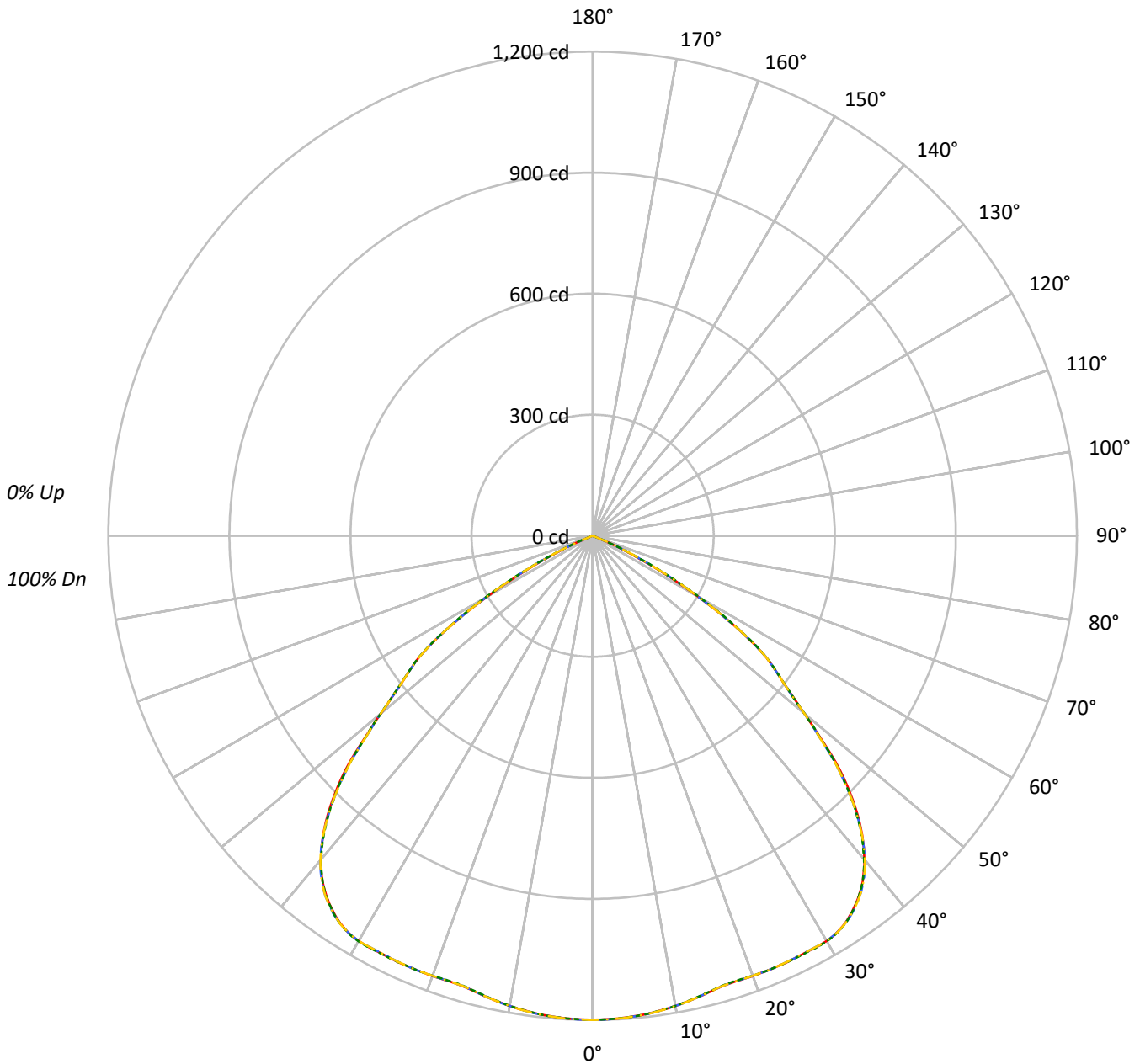
Lumens per Lamp: N/A  
Luminaire Lumens: 2936.3 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.44  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
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	102	99	97	98	96	94	94	93	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68								
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60								
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	75	63	55	50	74	63	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	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33								
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30								

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

	0°	90°	180°	270°
0°	36627	36627	36627	36627
5°	36632	36638	36632	36638
10°	36681	36671	36681	36671
15°	36822	36785	36822	36785
20°	37717	37694	37717	37694
25°	39113	39123	39113	39123
30°	40883	40919	40883	40919
35°	42030	42056	42030	42056
40°	41748	41700	41748	41700
45°	39006	38794	39006	38794
50°	32507	32564	32507	32564
55°	27918	27982	27918	27982
60°	18373	18874	18373	18874
65°	6531	7470	6531	7470
70°	196	366	196	366
75°	83	118	83	118
80°	35	88	35	88
85°	0	70	0	70

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 39006 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.7	3.9
10°-20°	330.5	11.3
20°-30°	537.3	18.3
30°-40°	702.9	23.9
40°-50°	682.9	23.3
50°-60°	453.7	15.4
60°-70°	114.2	3.9
70°-80°	1.0	0.0
80°-90°	0.1	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°	981.6	33.4
0°-40°	1684.4	57.4
0°-60°	2820.9	96.1
0°-90°	2936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2936.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1200	1200	1200	1200	1200	
5°	1195	1196	1195	1196	1195	114
15°	1165	1164	1165	1164	1165	331
25°	1161	1161	1161	1161	1161	537
35°	1128	1128	1128	1128	1128	702
45°	903	898	903	898	903	685
55°	524	526	524	526	524	453
65°	90	103	90	103	90	108
75°	1	1	1	1	1	1
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°	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7
0.5°	1199.4	1199.4	1199.9	1200.1	1199.4	1200.1	1199.9	1199.4	1199.4	1199.4	1199.9
1°	1199.2	1199.4	1199.7	1199.9	1199.4	1199.9	1199.7	1199.4	1199.2	1199.4	1199.7
1.5°	1198.9	1199.2	1199.4	1199.7	1199.2	1199.7	1199.4	1199.2	1198.9	1199.2	1199.4
2°	1198.7	1198.7	1199.2	1199.4	1198.9	1199.4	1199.2	1198.7	1198.7	1198.7	1199.2
2.5°	1198.2	1198.4	1198.7	1198.9	1198.4	1198.9	1198.7	1198.4	1198.2	1198.4	1198.7
3°	1198.0	1198.0	1198.4	1198.7	1198.0	1198.7	1198.4	1198.0	1198.0	1198.0	1198.4
3.5°	1197.5	1197.5	1198.0	1198.0	1197.5	1198.0	1198.0	1197.5	1197.5	1197.5	1198.0
4°	1196.8	1197.0	1197.2	1197.5	1196.8	1197.5	1197.2	1197.0	1196.8	1197.0	1197.2
4.5°	1196.0	1196.3	1196.5	1196.8	1196.3	1196.8	1196.5	1196.3	1196.0	1196.3	1196.5
5°	1195.3	1195.5	1195.8	1196.0	1195.5	1196.0	1195.8	1195.5	1195.3	1195.5	1195.8
5.5°	1194.6	1194.8	1195.1	1195.3	1194.8	1195.3	1195.1	1194.8	1194.6	1194.8	1195.1
6°	1193.6	1193.8	1194.1	1194.3	1193.8	1194.3	1194.1	1193.8	1193.6	1193.8	1194.1
6.5°	1192.6	1192.9	1193.1	1193.4	1192.6	1193.4	1193.1	1192.9	1192.6	1192.9	1193.1
7°	1191.7	1191.7	1191.9	1192.1	1191.4	1192.1	1191.9	1191.7	1191.7	1191.7	1191.9
7.5°	1190.5	1190.5	1190.7	1190.7	1190.2	1190.7	1190.7	1190.5	1190.5	1190.5	1190.7
8°	1189.0	1189.2	1189.2	1189.5	1189.0	1189.5	1189.2	1189.2	1189.0	1189.2	1189.2
8.5°	1187.5	1187.8	1188.0	1188.0	1187.5	1188.0	1188.0	1187.8	1187.5	1187.8	1188.0
9°	1186.3	1186.3	1186.6	1186.6	1186.1	1186.6	1186.6	1186.3	1186.3	1186.3	1186.6
9.5°	1184.6	1184.9	1184.9	1185.1	1184.6	1185.1	1184.9	1184.9	1184.6	1184.9	1184.9
10°	1183.2	1183.2	1183.4	1183.4	1182.9	1183.4	1183.4	1183.2	1183.2	1183.2	1183.4
10.5°	1181.5	1181.5	1181.7	1181.7	1181.2	1181.7	1181.7	1181.5	1181.5	1181.5	1181.7
11°	1179.8	1179.8	1180.0	1180.0	1179.3	1180.0	1180.0	1179.8	1179.8	1179.8	1180.0
11.5°	1177.9	1177.9	1178.1	1178.1	1177.6	1178.1	1178.1	1177.9	1177.9	1177.9	1178.1
12°	1176.2	1176.2	1176.2	1176.2	1175.7	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2
12.5°	1174.2	1174.2	1174.2	1174.2	1173.7	1174.2	1174.2	1174.2	1174.2	1174.2	1174.2
13°	1172.5	1172.3	1172.5	1172.3	1171.8	1172.3	1172.5	1172.3	1172.5	1172.3	1172.5
13.5°	1170.6	1170.3	1170.3	1170.3	1169.6	1170.3	1170.3	1170.3	1170.6	1170.3	1170.3
14°	1168.6	1168.6	1168.4	1168.4	1167.7	1168.4	1168.4	1168.6	1168.6	1168.6	1168.4
14.5°	1166.7	1166.7	1166.5	1166.5	1165.7	1166.5	1166.5	1166.7	1166.7	1166.7	1166.5
15°	1165.0	1164.8	1164.5	1164.5	1163.8	1164.5	1164.5	1164.8	1165.0	1164.8	1164.5
15.5°	1163.3	1163.1	1162.8	1162.6	1162.1	1162.6	1162.8	1163.1	1163.3	1163.1	1162.8
16°	1162.1	1161.9	1161.6	1161.1	1160.7	1161.1	1161.6	1161.9	1162.1	1161.9	1161.6
16.5°	1161.1	1160.9	1160.7	1159.9	1159.7	1159.9	1160.7	1160.9	1161.1	1160.9	1160.7
17°	1160.4	1160.4	1160.2	1159.4	1159.0	1159.4	1160.2	1160.4	1160.4	1160.4	1160.2
17.5°	1160.2	1160.2	1159.7	1159.2	1159.0	1159.2	1159.7	1160.2	1160.2	1160.2	1159.7
18°	1160.2	1160.2	1159.7	1159.4	1159.0	1159.4	1159.7	1160.2	1160.2	1160.2	1159.7
18.5°	1160.2	1160.2	1159.9	1159.4	1159.0	1159.4	1159.9	1160.2	1160.2	1160.2	1159.9
19°	1160.4	1160.4	1160.2	1159.9	1159.4	1159.9	1160.2	1160.4	1160.4	1160.4	1160.2
19.5°	1160.7	1160.7	1160.4	1160.2	1159.7	1160.2	1160.4	1160.7	1160.7	1160.7	1160.4
20°	1160.9	1160.9	1160.7	1160.4	1160.2	1160.4	1160.7	1160.9	1160.9	1160.9	1160.7
20.5°	1161.1	1160.9	1160.9	1160.9	1160.4	1160.9	1160.9	1160.9	1161.1	1160.9	1160.9
21°	1161.1	1161.1	1161.1	1161.1	1160.9	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1



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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°	1161.6	1161.4	1161.4	1161.6	1161.6	1161.6	1161.4	1161.4	1161.6	1161.4	1161.4
23°	1161.6	1161.4	1161.4	1161.9	1161.6	1161.9	1161.4	1161.4	1161.6	1161.4	1161.4
23.5°	1161.6	1161.4	1161.1	1161.6	1161.6	1161.6	1161.1	1161.4	1161.6	1161.4	1161.1
24°	1161.4	1161.1	1160.9	1161.6	1161.6	1161.6	1160.9	1161.1	1161.4	1161.1	1160.9
24.5°	1161.4	1160.9	1160.9	1161.6	1161.6	1161.6	1160.9	1160.9	1161.4	1160.9	1160.9
25°	1161.1	1160.7	1160.7	1161.4	1161.4	1161.4	1160.7	1160.7	1161.1	1160.7	1160.7
25.5°	1160.9	1160.4	1160.4	1161.4	1161.4	1161.4	1160.4	1160.4	1160.9	1160.4	1160.4
26°	1160.4	1160.2	1159.9	1161.1	1161.1	1161.1	1159.9	1160.2	1160.4	1160.2	1159.9
26.5°	1160.2	1159.9	1159.7	1160.9	1160.9	1160.9	1159.7	1159.9	1160.2	1159.9	1159.7
27°	1160.2	1159.7	1159.4	1160.7	1160.9	1160.7	1159.4	1159.7	1160.2	1159.7	1159.4
27.5°	1160.2	1159.9	1159.4	1160.7	1160.9	1160.7	1159.4	1159.9	1160.2	1159.9	1159.4
28°	1160.4	1159.9	1159.7	1160.9	1161.1	1160.9	1159.7	1159.9	1160.4	1159.9	1159.7
28.5°	1160.7	1160.2	1159.7	1161.1	1161.4	1161.1	1159.7	1160.2	1160.7	1160.2	1159.7
29°	1160.7	1160.2	1159.7	1161.4	1161.4	1161.4	1159.7	1160.2	1160.7	1160.2	1159.7
29.5°	1160.4	1159.9	1159.7	1161.1	1161.1	1161.1	1159.7	1159.9	1160.4	1159.9	1159.7
30°	1159.7	1159.4	1159.2	1160.7	1160.7	1160.7	1159.2	1159.4	1159.7	1159.4	1159.2
30.5°	1158.7	1158.5	1158.5	1159.9	1159.7	1159.9	1158.5	1158.5	1158.7	1158.5	1158.5
31°	1157.3	1157.0	1157.0	1158.5	1158.2	1158.5	1157.0	1157.0	1157.3	1157.0	1157.0
31.5°	1155.3	1155.3	1155.6	1156.8	1156.3	1156.8	1155.6	1155.3	1155.3	1155.3	1155.6
32°	1152.7	1152.9	1153.1	1154.4	1153.9	1154.4	1153.1	1152.9	1152.7	1152.9	1153.1
32.5°	1149.8	1150.0	1150.5	1151.4	1151.0	1151.4	1150.5	1150.0	1149.8	1150.0	1150.5
33°	1146.4	1146.6	1147.3	1148.1	1147.3	1148.1	1147.3	1146.6	1146.4	1146.6	1147.3
33.5°	1142.5	1142.7	1143.7	1144.2	1143.5	1144.2	1143.7	1142.7	1142.5	1142.7	1143.7
34°	1137.9	1138.6	1139.6	1139.8	1138.9	1139.8	1139.6	1138.6	1137.9	1138.6	1139.6
34.5°	1133.0	1133.8	1135.0	1135.0	1134.0	1135.0	1135.0	1133.8	1133.0	1133.8	1135.0
35°	1127.7	1128.4	1129.9	1129.6	1128.4	1129.6	1129.9	1128.4	1127.7	1128.4	1129.9
35.5°	1122.1	1123.1	1124.3	1124.1	1122.9	1124.1	1124.3	1123.1	1122.1	1123.1	1124.3
36°	1116.1	1117.0	1118.5	1118.0	1116.6	1118.0	1118.5	1117.0	1116.1	1117.0	1118.5
36.5°	1109.5	1110.7	1112.2	1111.5	1110.0	1111.5	1112.2	1110.7	1109.5	1110.7	1112.2
37°	1102.5	1103.7	1105.2	1104.5	1102.8	1104.5	1105.2	1103.7	1102.5	1103.7	1105.2
37.5°	1095.0	1096.5	1097.4	1096.7	1095.0	1096.7	1097.4	1096.5	1095.0	1096.5	1097.4
38°	1086.8	1088.2	1089.4	1088.5	1086.8	1088.5	1089.4	1088.2	1086.8	1088.2	1089.4
38.5°	1077.8	1079.5	1080.7	1079.5	1077.6	1079.5	1080.7	1079.5	1077.8	1079.5	1080.7
39°	1068.4	1070.3	1071.0	1069.8	1067.9	1069.8	1071.0	1070.3	1068.4	1070.3	1071.0
39.5°	1058.4	1060.1	1060.6	1059.1	1057.2	1059.1	1060.6	1060.1	1058.4	1060.1	1060.6
40°	1047.5	1049.0	1049.5	1048.0	1046.3	1048.0	1049.5	1049.0	1047.5	1049.0	1049.5
40.5°	1036.1	1037.3	1037.6	1036.1	1034.2	1036.1	1037.6	1037.3	1036.1	1037.3	1037.6
41°	1024.0	1025.0	1024.7	1023.3	1021.8	1023.3	1024.7	1025.0	1024.0	1025.0	1024.7
41.5°	1011.2	1011.9	1011.4	1010.0	1008.8	1010.0	1011.4	1011.9	1011.2	1011.9	1011.4
42°	997.9	998.1	997.1	995.9	995.2	995.9	997.1	998.1	997.9	998.1	997.1
42.5°	984.0	983.8	982.4	981.4	980.7	981.4	982.4	983.8	984.0	983.8	982.4
43°	969.3	968.5	966.8	966.1	965.6	966.1	966.8	968.5	969.3	968.5	966.8
43.5°	953.8	952.8	950.4	950.1	949.9	950.1	950.4	952.8	953.8	952.8	950.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	903.4	901.2	897.8	897.8	898.5	897.8	897.8	901.2	903.4	901.2	897.8
45.5°	885.0	882.5	878.7	879.2	879.9	879.2	878.7	882.5	885.0	882.5	878.7
46°	865.6	863.2	859.3	859.8	861.0	859.8	859.3	863.2	865.6	863.2	859.3
46.5°	845.2	843.1	839.2	839.7	840.9	839.7	839.2	843.1	845.2	843.1	839.2
47°	823.9	821.7	818.1	818.6	819.6	818.6	818.1	821.7	823.9	821.7	818.1
47.5°	800.2	798.0	794.4	795.1	796.1	795.1	794.4	798.0	800.2	798.0	794.4
48°	774.7	772.8	769.9	771.1	772.1	771.1	769.9	772.8	774.7	772.8	769.9
48.5°	751.0	750.0	747.4	748.3	749.5	748.3	747.4	750.0	751.0	750.0	747.4
49°	728.7	728.2	726.8	727.5	728.2	727.5	726.8	728.2	728.7	728.2	726.8
49.5°	706.7	706.4	705.7	706.2	706.7	706.2	705.7	706.4	706.7	706.4	705.7
50°	684.4	684.1	684.1	684.9	685.6	684.9	684.1	684.1	684.4	684.1	684.1
50.5°	663.5	663.8	663.5	664.0	664.5	664.0	663.5	663.8	663.5	663.8	663.5
51°	644.6	644.6	644.4	644.9	644.4	644.9	644.4	644.6	644.6	644.6	644.4
51.5°	626.7	626.5	626.2	626.7	627.0	626.7	626.2	626.5	626.7	626.5	626.2
52°	609.5	609.5	609.5	610.2	611.0	610.2	609.5	609.5	609.5	609.5	609.5
52.5°	593.8	594.0	593.8	594.7	595.5	594.7	593.8	594.0	593.8	594.0	593.8
53°	579.7	579.5	579.5	580.7	581.2	580.7	579.5	579.5	579.7	579.5	579.5
53.5°	566.4	566.4	566.4	567.4	567.9	567.4	566.4	566.4	566.4	566.4	566.4
54°	553.6	553.3	553.3	554.3	554.3	554.3	553.3	553.3	553.6	553.3	553.3
54.5°	539.7	539.7	539.7	540.5	540.7	540.5	539.7	539.7	539.7	539.7	539.7
55°	524.5	524.5	524.5	525.7	525.7	525.7	524.5	524.5	524.5	524.5	524.5
55.5°	506.8	506.8	507.0	508.7	508.3	508.7	507.0	506.8	506.8	506.8	507.0
56°	486.7	487.2	487.9	489.4	489.1	489.4	487.9	487.2	486.7	487.2	487.9
56.5°	465.9	466.1	467.1	468.5	468.5	468.5	467.1	466.1	465.9	466.1	467.1
57°	443.8	444.1	445.3	446.7	446.2	446.7	445.3	444.1	443.8	444.1	445.3
57.5°	420.8	421.3	422.3	424.2	424.2	424.2	422.3	421.3	420.8	421.3	422.3
58°	397.8	397.8	399.2	401.4	401.9	401.4	399.2	397.8	397.8	397.8	399.2
58.5°	373.6	374.3	375.5	378.2	379.1	378.2	375.5	374.3	373.6	374.3	375.5
59°	349.3	350.3	351.8	354.4	355.6	354.4	351.8	350.3	349.3	350.3	351.8
59.5°	324.9	326.1	327.8	331.2	332.6	331.2	327.8	326.1	324.9	326.1	327.8
60°	300.9	302.3	304.5	307.7	309.1	307.7	304.5	302.3	300.9	302.3	304.5
60.5°	276.9	278.6	281.5	284.9	286.3	284.9	281.5	278.6	276.9	278.6	281.5
61°	253.4	255.6	259.0	262.1	263.3	262.1	259.0	255.6	253.4	255.6	259.0
61.5°	231.1	233.1	237.2	240.1	241.0	240.1	237.2	233.1	231.1	233.1	237.2
62°	208.8	211.2	215.4	218.0	219.2	218.0	215.4	211.2	208.8	211.2	215.4
62.5°	187.0	189.7	194.3	196.7	198.7	196.7	194.3	189.7	187.0	189.7	194.3
63°	165.5	168.6	173.7	176.1	178.1	176.1	173.7	168.6	165.5	168.6	173.7
63.5°	145.4	148.0	153.6	156.3	158.2	156.3	153.6	148.0	145.4	148.0	153.6
64°	126.2	129.1	134.2	137.1	138.6	137.1	134.2	129.1	126.2	129.1	134.2
64.5°	107.8	111.0	115.8	118.5	119.7	118.5	115.8	111.0	107.8	111.0	115.8
65°	90.4	93.8	99.1	102.0	103.4	102.0	99.1	93.8	90.4	93.8	99.1
65.5°	74.9	78.5	82.9	86.0	87.9	86.0	82.9	78.5	74.9	78.5	82.9
66°	59.8	64.7	67.8	71.0	72.9	71.0	67.8	64.7	59.8	64.7	67.8





TEST NUMBER: P776125

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	24.0	31.0	33.7	34.9	35.4	34.9	33.7	31.0	24.0	31.0	33.7
68°	14.5	22.3	24.7	26.2	27.4	26.2	24.7	22.3	14.5	22.3	24.7
68.5°	6.3	14.8	16.2	17.7	20.1	17.7	16.2	14.8	6.3	14.8	16.2
69°	3.9	9.0	10.9	11.6	14.5	11.6	10.9	9.0	3.9	9.0	10.9
69.5°	2.7	5.3	7.3	6.8	9.2	6.8	7.3	5.3	2.7	5.3	7.3
70°	2.2	3.1	3.9	3.6	4.1	3.6	3.9	3.1	2.2	3.1	3.9
70.5°	1.5	1.9	2.4	2.4	1.9	2.4	2.4	1.9	1.5	1.9	2.4
71°	1.2	1.5	1.9	1.9	1.7	1.9	1.9	1.5	1.2	1.5	1.9
71.5°	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.5
72°	1.2	1.2	1.2	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2
72.5°	1.0	1.2	1.2	1.2	1.5	1.2	1.2	1.2	1.0	1.2	1.2
73°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2
73.5°	1.0	1.0	1.0	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0
74°	0.7	1.0	1.0	1.0	1.2	1.0	1.0	1.0	0.7	1.0	1.0
74.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	1.0
75°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
75.5°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
76°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
76.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
77°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.7
77.5°	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5
78°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
78.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
79°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
79.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
80°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
84.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.2	0.2	0.2	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: P776125  
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P776125

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7
0.5°	1200.1	1199.4	1200.1	1199.9	1199.4	1199.4
1°	1199.9	1199.4	1199.9	1199.7	1199.4	1199.2
1.5°	1199.7	1199.2	1199.7	1199.4	1199.2	1198.9
2°	1199.4	1198.9	1199.4	1199.2	1198.7	1198.7
2.5°	1198.9	1198.4	1198.9	1198.7	1198.4	1198.2
3°	1198.7	1198.0	1198.7	1198.4	1198.0	1198.0
3.5°	1198.0	1197.5	1198.0	1198.0	1197.5	1197.5
4°	1197.5	1196.8	1197.5	1197.2	1197.0	1196.8
4.5°	1196.8	1196.3	1196.8	1196.5	1196.3	1196.0
5°	1196.0	1195.5	1196.0	1195.8	1195.5	1195.3
5.5°	1195.3	1194.8	1195.3	1195.1	1194.8	1194.6
6°	1194.3	1193.8	1194.3	1194.1	1193.8	1193.6
6.5°	1193.4	1192.6	1193.4	1193.1	1192.9	1192.6
7°	1192.1	1191.4	1192.1	1191.9	1191.7	1191.7
7.5°	1190.7	1190.2	1190.7	1190.7	1190.5	1190.5
8°	1189.5	1189.0	1189.5	1189.2	1189.2	1189.0
8.5°	1188.0	1187.5	1188.0	1188.0	1187.8	1187.5
9°	1186.6	1186.1	1186.6	1186.6	1186.3	1186.3
9.5°	1185.1	1184.6	1185.1	1184.9	1184.9	1184.6
10°	1183.4	1182.9	1183.4	1183.4	1183.2	1183.2
10.5°	1181.7	1181.2	1181.7	1181.7	1181.5	1181.5
11°	1180.0	1179.3	1180.0	1180.0	1179.8	1179.8
11.5°	1178.1	1177.6	1178.1	1178.1	1177.9	1177.9
12°	1176.2	1175.7	1176.2	1176.2	1176.2	1176.2
12.5°	1174.2	1173.7	1174.2	1174.2	1174.2	1174.2
13°	1172.3	1171.8	1172.3	1172.5	1172.3	1172.5
13.5°	1170.3	1169.6	1170.3	1170.3	1170.3	1170.6
14°	1168.4	1167.7	1168.4	1168.4	1168.6	1168.6
14.5°	1166.5	1165.7	1166.5	1166.5	1166.7	1166.7
15°	1164.5	1163.8	1164.5	1164.5	1164.8	1165.0
15.5°	1162.6	1162.1	1162.6	1162.8	1163.1	1163.3
16°	1161.1	1160.7	1161.1	1161.6	1161.9	1162.1
16.5°	1159.9	1159.7	1159.9	1160.7	1160.9	1161.1
17°	1159.4	1159.0	1159.4	1160.2	1160.4	1160.4
17.5°	1159.2	1159.0	1159.2	1159.7	1160.2	1160.2
18°	1159.4	1159.0	1159.4	1159.7	1160.2	1160.2
18.5°	1159.4	1159.0	1159.4	1159.9	1160.2	1160.2
19°	1159.9	1159.4	1159.9	1160.2	1160.4	1160.4
19.5°	1160.2	1159.7	1160.2	1160.4	1160.7	1160.7
20°	1160.4	1160.2	1160.4	1160.7	1160.9	1160.9
20.5°	1160.9	1160.4	1160.9	1160.9	1160.9	1161.1
21°	1161.1	1160.9	1161.1	1161.1	1161.1	1161.1



TEST NUMBER: P776125

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1161.6	1161.6	1161.6	1161.4	1161.4	1161.6
23°	1161.9	1161.6	1161.9	1161.4	1161.4	1161.6
23.5°	1161.6	1161.6	1161.6	1161.1	1161.4	1161.6
24°	1161.6	1161.6	1161.6	1160.9	1161.1	1161.4
24.5°	1161.6	1161.6	1161.6	1160.9	1160.9	1161.4
25°	1161.4	1161.4	1161.4	1160.7	1160.7	1161.1
25.5°	1161.4	1161.4	1161.4	1160.4	1160.4	1160.9
26°	1161.1	1161.1	1161.1	1159.9	1160.2	1160.4
26.5°	1160.9	1160.9	1160.9	1159.7	1159.9	1160.2
27°	1160.7	1160.9	1160.7	1159.4	1159.7	1160.2
27.5°	1160.7	1160.9	1160.7	1159.4	1159.9	1160.2
28°	1160.9	1161.1	1160.9	1159.7	1159.9	1160.4
28.5°	1161.1	1161.4	1161.1	1159.7	1160.2	1160.7
29°	1161.4	1161.4	1161.4	1159.7	1160.2	1160.7
29.5°	1161.1	1161.1	1161.1	1159.7	1159.9	1160.4
30°	1160.7	1160.7	1160.7	1159.2	1159.4	1159.7
30.5°	1159.9	1159.7	1159.9	1158.5	1158.5	1158.7
31°	1158.5	1158.2	1158.5	1157.0	1157.0	1157.3
31.5°	1156.8	1156.3	1156.8	1155.6	1155.3	1155.3
32°	1154.4	1153.9	1154.4	1153.1	1152.9	1152.7
32.5°	1151.4	1151.0	1151.4	1150.5	1150.0	1149.8
33°	1148.1	1147.3	1148.1	1147.3	1146.6	1146.4
33.5°	1144.2	1143.5	1144.2	1143.7	1142.7	1142.5
34°	1139.8	1138.9	1139.8	1139.6	1138.6	1137.9
34.5°	1135.0	1134.0	1135.0	1135.0	1133.8	1133.0
35°	1129.6	1128.4	1129.6	1129.9	1128.4	1127.7
35.5°	1124.1	1122.9	1124.1	1124.3	1123.1	1122.1
36°	1118.0	1116.6	1118.0	1118.5	1117.0	1116.1
36.5°	1111.5	1110.0	1111.5	1112.2	1110.7	1109.5
37°	1104.5	1102.8	1104.5	1105.2	1103.7	1102.5
37.5°	1096.7	1095.0	1096.7	1097.4	1096.5	1095.0
38°	1088.5	1086.8	1088.5	1089.4	1088.2	1086.8
38.5°	1079.5	1077.6	1079.5	1080.7	1079.5	1077.8
39°	1069.8	1067.9	1069.8	1071.0	1070.3	1068.4
39.5°	1059.1	1057.2	1059.1	1060.6	1060.1	1058.4
40°	1048.0	1046.3	1048.0	1049.5	1049.0	1047.5
40.5°	1036.1	1034.2	1036.1	1037.6	1037.3	1036.1
41°	1023.3	1021.8	1023.3	1024.7	1025.0	1024.0
41.5°	1010.0	1008.8	1010.0	1011.4	1011.9	1011.2
42°	995.9	995.2	995.9	997.1	998.1	997.9
42.5°	981.4	980.7	981.4	982.4	983.8	984.0
43°	966.1	965.6	966.1	966.8	968.5	969.3
43.5°	950.1	949.9	950.1	950.4	952.8	953.8



TEST NUMBER: P776125

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	897.8	898.5	897.8	897.8	901.2	903.4
45.5°	879.2	879.9	879.2	878.7	882.5	885.0
46°	859.8	861.0	859.8	859.3	863.2	865.6
46.5°	839.7	840.9	839.7	839.2	843.1	845.2
47°	818.6	819.6	818.6	818.1	821.7	823.9
47.5°	795.1	796.1	795.1	794.4	798.0	800.2
48°	771.1	772.1	771.1	769.9	772.8	774.7
48.5°	748.3	749.5	748.3	747.4	750.0	751.0
49°	727.5	728.2	727.5	726.8	728.2	728.7
49.5°	706.2	706.7	706.2	705.7	706.4	706.7
50°	684.9	685.6	684.9	684.1	684.1	684.4
50.5°	664.0	664.5	664.0	663.5	663.8	663.5
51°	644.9	644.4	644.9	644.4	644.6	644.6
51.5°	626.7	627.0	626.7	626.2	626.5	626.7
52°	610.2	611.0	610.2	609.5	609.5	609.5
52.5°	594.7	595.5	594.7	593.8	594.0	593.8
53°	580.7	581.2	580.7	579.5	579.5	579.7
53.5°	567.4	567.9	567.4	566.4	566.4	566.4
54°	554.3	554.3	554.3	553.3	553.3	553.6
54.5°	540.5	540.7	540.5	539.7	539.7	539.7
55°	525.7	525.7	525.7	524.5	524.5	524.5
55.5°	508.7	508.3	508.7	507.0	506.8	506.8
56°	489.4	489.1	489.4	487.9	487.2	486.7
56.5°	468.5	468.5	468.5	467.1	466.1	465.9
57°	446.7	446.2	446.7	445.3	444.1	443.8
57.5°	424.2	424.2	424.2	422.3	421.3	420.8
58°	401.4	401.9	401.4	399.2	397.8	397.8
58.5°	378.2	379.1	378.2	375.5	374.3	373.6
59°	354.4	355.6	354.4	351.8	350.3	349.3
59.5°	331.2	332.6	331.2	327.8	326.1	324.9
60°	307.7	309.1	307.7	304.5	302.3	300.9
60.5°	284.9	286.3	284.9	281.5	278.6	276.9
61°	262.1	263.3	262.1	259.0	255.6	253.4
61.5°	240.1	241.0	240.1	237.2	233.1	231.1
62°	218.0	219.2	218.0	215.4	211.2	208.8
62.5°	196.7	198.7	196.7	194.3	189.7	187.0
63°	176.1	178.1	176.1	173.7	168.6	165.5
63.5°	156.3	158.2	156.3	153.6	148.0	145.4
64°	137.1	138.6	137.1	134.2	129.1	126.2
64.5°	118.5	119.7	118.5	115.8	111.0	107.8
65°	102.0	103.4	102.0	99.1	93.8	90.4
65.5°	86.0	87.9	86.0	82.9	78.5	74.9
66°	71.0	72.9	71.0	67.8	64.7	59.8



TEST NUMBER: P776125

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	34.9	35.4	34.9	33.7	31.0	24.0
68°	26.2	27.4	26.2	24.7	22.3	14.5
68.5°	17.7	20.1	17.7	16.2	14.8	6.3
69°	11.6	14.5	11.6	10.9	9.0	3.9
69.5°	6.8	9.2	6.8	7.3	5.3	2.7
70°	3.6	4.1	3.6	3.9	3.1	2.2
70.5°	2.4	1.9	2.4	2.4	1.9	1.5
71°	1.9	1.7	1.9	1.9	1.5	1.2
71.5°	1.5	1.5	1.5	1.5	1.2	1.2
72°	1.5	1.5	1.5	1.2	1.2	1.2
72.5°	1.2	1.5	1.2	1.2	1.2	1.0
73°	1.2	1.2	1.2	1.2	1.0	1.0
73.5°	1.2	1.2	1.2	1.0	1.0	1.0
74°	1.0	1.2	1.0	1.0	1.0	0.7
74.5°	1.0	1.0	1.0	1.0	0.7	0.7
75°	1.0	1.0	1.0	0.7	0.7	0.7
75.5°	1.0	1.0	1.0	0.7	0.7	0.7
76°	0.7	0.7	0.7	0.7	0.7	0.7
76.5°	0.7	0.7	0.7	0.7	0.5	0.5
77°	0.7	0.7	0.7	0.7	0.5	0.5
77.5°	0.7	0.7	0.7	0.5	0.5	0.5
78°	0.5	0.5	0.5	0.5	0.5	0.5
78.5°	0.5	0.5	0.5	0.5	0.5	0.5
79°	0.5	0.5	0.5	0.5	0.5	0.5
79.5°	0.5	0.5	0.5	0.5	0.2	0.2
80°	0.5	0.5	0.5	0.2	0.2	0.2
80.5°	0.5	0.5	0.5	0.2	0.2	0.2
81°	0.2	0.2	0.2	0.2	0.2	0.2
81.5°	0.2	0.2	0.2	0.2	0.2	0.2
82°	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2
83°	0.2	0.2	0.2	0.2	0.2	0.2
83.5°	0.2	0.2	0.2	0.2	0.2	0.2
84°	0.2	0.2	0.2	0.2	0.0	0.0
84.5°	0.2	0.2	0.2	0.0	0.0	0.0
85°	0.2	0.2	0.2	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: P776125

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

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



Report Generated By 670245859 / DESKTOP-T8S5UU9



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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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1161.4	1161.4	1161.1	1161.4	1161.1	1161.4	1161.1	1161.4	1161.4	1161.4	1161.1
22°	1161.6	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.6	1161.4	1161.4



44°	937.5	936.3	933.4	933.2	933.4	933.2	933.4	936.3	937.5	936.3	933.4
44.5°	920.8	919.4	916.0	916.0	916.2	916.0	916.0	919.4	920.8	919.4	916.0



66.5°	48.0	51.8	55.2	57.7	58.4	57.7	55.2	51.8	48.0	51.8	55.2
67°	35.9	40.5	43.1	45.5	46.0	45.5	43.1	40.5	35.9	40.5	43.1



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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21.5°	1161.4	1161.1	1161.4	1161.1	1161.4	1161.4
22°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.6



44°	933.2	933.4	933.2	933.4	936.3	937.5
44.5°	916.0	916.2	916.0	916.0	919.4	920.8

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66.5°	57.7	58.4	57.7	55.2	51.8	48.0
67°	45.5	46.0	45.5	43.1	40.5	35.9

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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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Scaled Data Report



(END OF REPORT)