

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: P776129

Luminaire Tested: HCDJBS1525CSD-HCD81TRC-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776129  
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-5000K  
Description: 8 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

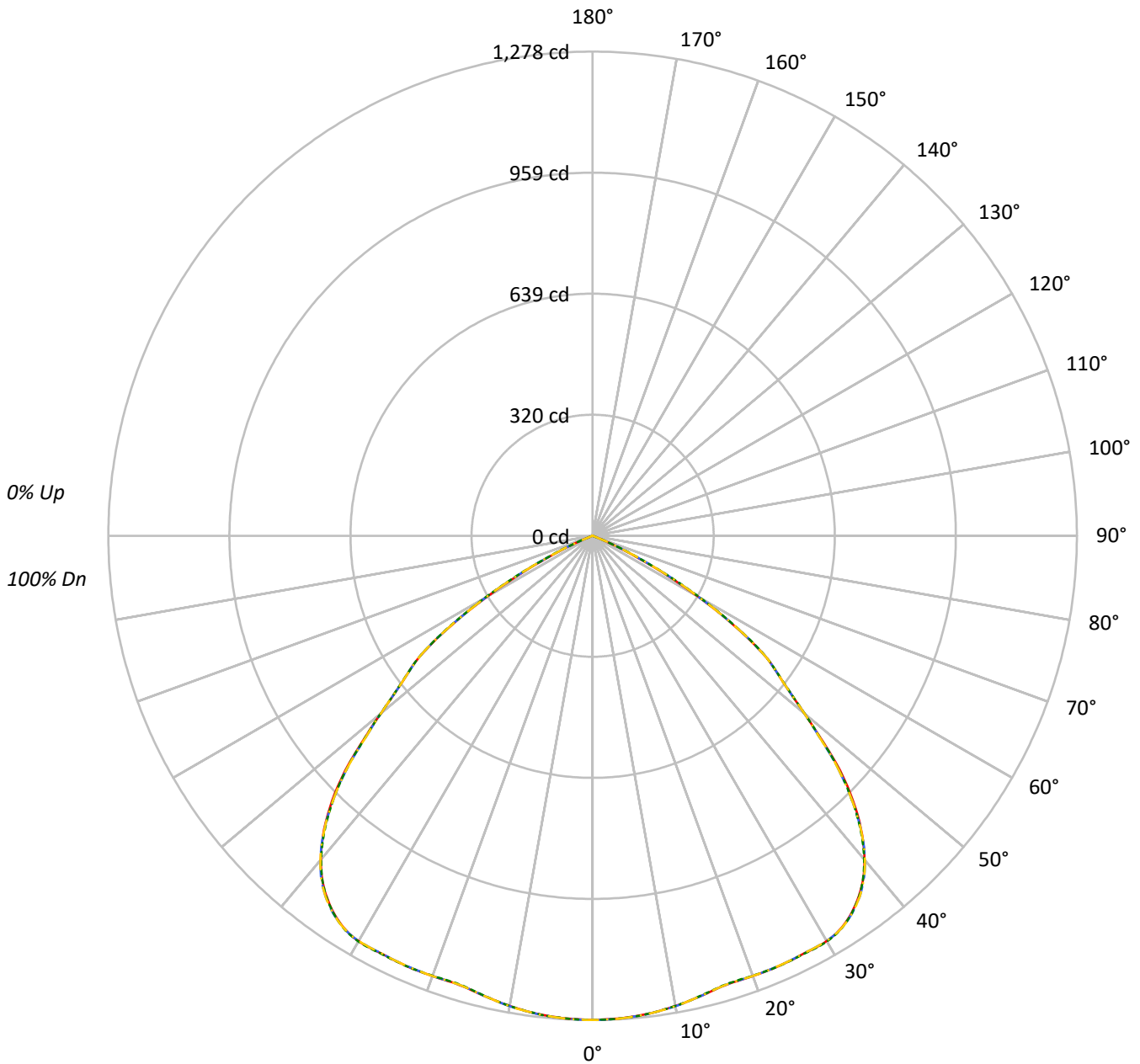
Lumens per Lamp: N/A  
Luminaire Lumens: 3128.1 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.44  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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°	39018	39018	39018	39018
5°	39023	39032	39023	39032
10°	39074	39068	39074	39068
15°	39228	39187	39228	39187
20°	40180	40154	40180	40154
25°	41667	41677	41667	41677
30°	43552	43587	43552	43587
35°	44773	44803	44773	44803
40°	44474	44422	44474	44422
45°	41553	41328	41553	41328
50°	34630	34687	34630	34687
55°	29738	29808	29738	29808
60°	19570	20107	19570	20107
65°	6957	7961	6957	7961
70°	205	393	205	393
75°	94	118	94	118
80°	53	88	53	88
85°	0	105	0	105

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 41553 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	3.9
10°-20°	352.1	11.3
20°-30°	572.4	18.3
30°-40°	748.8	23.9
40°-50°	727.4	23.3
50°-60°	483.3	15.4
60°-70°	121.7	3.9
70°-80°	1.1	0.0
80°-90°	0.2	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°	1045.6	33.4
0°-40°	1794.4	57.4
0°-60°	3005.1	96.1
0°-90°	3128.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1278	1278	1278	1278	1278	
5°	1273	1274	1273	1274	1273	121
15°	1241	1240	1241	1240	1241	352
25°	1237	1237	1237	1237	1237	572
35°	1201	1202	1201	1202	1201	748
45°	962	957	962	957	962	729
55°	559	560	559	560	559	482
65°	96	110	96	110	96	115
75°	1	1	1	1	1	1
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°	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0
0.5°	1277.7	1277.7	1278.2	1278.5	1277.7	1278.5	1278.2	1277.7	1277.7	1277.7	1278.2
1°	1277.5	1277.7	1278.0	1278.2	1277.7	1278.2	1278.0	1277.7	1277.5	1277.7	1278.0
1.5°	1277.2	1277.5	1277.7	1278.0	1277.5	1278.0	1277.7	1277.5	1277.2	1277.5	1277.7
2°	1276.9	1276.9	1277.5	1277.7	1277.2	1277.7	1277.5	1276.9	1276.9	1276.9	1277.5
2.5°	1276.4	1276.7	1276.9	1277.2	1276.7	1277.2	1276.9	1276.7	1276.4	1276.7	1276.9
3°	1276.2	1276.2	1276.7	1276.9	1276.2	1276.9	1276.7	1276.2	1276.2	1276.2	1276.7
3.5°	1275.7	1275.7	1276.2	1276.2	1275.7	1276.2	1276.2	1275.7	1275.7	1275.7	1276.2
4°	1274.9	1275.1	1275.4	1275.7	1274.9	1275.7	1275.4	1275.1	1274.9	1275.1	1275.4
4.5°	1274.1	1274.4	1274.6	1274.9	1274.4	1274.9	1274.6	1274.4	1274.1	1274.4	1274.6
5°	1273.3	1273.6	1273.8	1274.1	1273.6	1274.1	1273.8	1273.6	1273.3	1273.6	1273.8
5.5°	1272.6	1272.8	1273.1	1273.3	1272.8	1273.3	1273.1	1272.8	1272.6	1272.8	1273.1
6°	1271.5	1271.8	1272.0	1272.3	1271.8	1272.3	1272.0	1271.8	1271.5	1271.8	1272.0
6.5°	1270.5	1270.8	1271.0	1271.3	1270.5	1271.3	1271.0	1270.8	1270.5	1270.8	1271.0
7°	1269.5	1269.5	1269.7	1270.0	1269.2	1270.0	1269.7	1269.5	1269.5	1269.5	1269.7
7.5°	1268.2	1268.2	1268.4	1268.4	1267.9	1268.4	1268.4	1268.2	1268.2	1268.2	1268.4
8°	1266.6	1266.9	1266.9	1267.1	1266.6	1267.1	1266.9	1266.9	1266.6	1266.9	1266.9
8.5°	1265.1	1265.3	1265.6	1265.6	1265.1	1265.6	1265.6	1265.3	1265.1	1265.3	1265.6
9°	1263.8	1263.8	1264.0	1264.0	1263.5	1264.0	1264.0	1263.8	1263.8	1263.8	1264.0
9.5°	1262.0	1262.2	1262.2	1262.5	1262.0	1262.5	1262.2	1262.2	1262.0	1262.2	1262.2
10°	1260.4	1260.4	1260.7	1260.7	1260.2	1260.7	1260.7	1260.4	1260.4	1260.4	1260.7
10.5°	1258.6	1258.6	1258.9	1258.9	1258.4	1258.9	1258.9	1258.6	1258.6	1258.6	1258.9
11°	1256.8	1256.8	1257.1	1257.1	1256.3	1257.1	1257.1	1256.8	1256.8	1256.8	1257.1
11.5°	1254.8	1254.8	1255.0	1255.0	1254.5	1255.0	1255.0	1254.8	1254.8	1254.8	1255.0
12°	1252.9	1252.9	1252.9	1252.9	1252.4	1252.9	1252.9	1252.9	1252.9	1252.9	1252.9
12.5°	1250.9	1250.9	1250.9	1250.9	1250.4	1250.9	1250.9	1250.9	1250.9	1250.9	1250.9
13°	1249.1	1248.8	1249.1	1248.8	1248.3	1248.8	1249.1	1248.8	1249.1	1248.8	1249.1
13.5°	1247.0	1246.8	1246.8	1246.8	1246.0	1246.8	1246.8	1246.8	1247.0	1246.8	1246.8
14°	1244.9	1244.9	1244.7	1244.7	1243.9	1244.7	1244.7	1244.9	1244.9	1244.9	1244.7
14.5°	1242.9	1242.9	1242.6	1242.6	1241.8	1242.6	1242.6	1242.9	1242.9	1242.9	1242.6
15°	1241.1	1240.8	1240.6	1240.6	1239.8	1240.6	1240.6	1240.8	1241.1	1240.8	1240.6
15.5°	1239.3	1239.0	1238.8	1238.5	1238.0	1238.5	1238.8	1239.0	1239.3	1239.0	1238.8
16°	1238.0	1237.7	1237.5	1236.9	1236.4	1236.9	1237.5	1237.7	1238.0	1237.7	1237.5
16.5°	1236.9	1236.7	1236.4	1235.7	1235.4	1235.7	1236.4	1236.7	1236.9	1236.7	1236.4
17°	1236.2	1236.2	1235.9	1235.1	1234.6	1235.1	1235.9	1236.2	1236.2	1236.2	1235.9
17.5°	1235.9	1235.9	1235.4	1234.9	1234.6	1234.9	1235.4	1235.9	1235.9	1235.9	1235.4
18°	1235.9	1235.9	1235.4	1235.1	1234.6	1235.1	1235.4	1235.9	1235.9	1235.9	1235.4
18.5°	1235.9	1235.9	1235.7	1235.1	1234.6	1235.1	1235.7	1235.9	1235.9	1235.9	1235.7
19°	1236.2	1236.2	1235.9	1235.7	1235.1	1235.7	1235.9	1236.2	1236.2	1236.2	1235.9
19.5°	1236.4	1236.4	1236.2	1235.9	1235.4	1235.9	1236.2	1236.4	1236.4	1236.4	1236.2
20°	1236.7	1236.7	1236.4	1236.2	1235.9	1236.2	1236.4	1236.7	1236.7	1236.7	1236.4
20.5°	1236.9	1236.7	1236.7	1236.7	1236.2	1236.7	1236.7	1236.7	1236.9	1236.7	1236.7
21°	1236.9	1236.9	1236.9	1236.9	1236.7	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9



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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°	1237.5	1237.2	1237.2	1237.5	1237.5	1237.5	1237.2	1237.2	1237.5	1237.2	1237.2
23°	1237.5	1237.2	1237.2	1237.7	1237.5	1237.7	1237.2	1237.2	1237.5	1237.2	1237.2
23.5°	1237.5	1237.2	1236.9	1237.5	1237.5	1237.5	1236.9	1237.2	1237.5	1237.2	1236.9
24°	1237.2	1236.9	1236.7	1237.5	1237.5	1237.5	1236.7	1236.9	1237.2	1236.9	1236.7
24.5°	1237.2	1236.7	1236.7	1237.5	1237.5	1237.5	1236.7	1236.7	1237.2	1236.7	1236.7
25°	1236.9	1236.4	1236.4	1237.2	1237.2	1237.2	1236.4	1236.4	1236.9	1236.4	1236.4
25.5°	1236.7	1236.2	1236.2	1237.2	1237.2	1237.2	1236.2	1236.2	1236.7	1236.2	1236.2
26°	1236.2	1235.9	1235.7	1236.9	1236.9	1236.9	1235.7	1235.9	1236.2	1235.9	1235.7
26.5°	1235.9	1235.7	1235.4	1236.7	1236.7	1236.7	1235.4	1235.7	1235.9	1235.7	1235.4
27°	1235.9	1235.4	1235.1	1236.4	1236.7	1236.4	1235.1	1235.4	1235.9	1235.4	1235.1
27.5°	1235.9	1235.7	1235.1	1236.4	1236.7	1236.4	1235.1	1235.7	1235.9	1235.7	1235.1
28°	1236.2	1235.7	1235.4	1236.7	1236.9	1236.7	1235.4	1235.7	1236.2	1235.7	1235.4
28.5°	1236.4	1235.9	1235.4	1236.9	1237.2	1236.9	1235.4	1235.9	1236.4	1235.9	1235.4
29°	1236.4	1235.9	1235.4	1237.2	1237.2	1237.2	1235.4	1235.9	1236.4	1235.9	1235.4
29.5°	1236.2	1235.7	1235.4	1236.9	1236.9	1236.9	1235.4	1235.7	1236.2	1235.7	1235.4
30°	1235.4	1235.1	1234.9	1236.4	1236.4	1236.4	1234.9	1235.1	1235.4	1235.1	1234.9
30.5°	1234.4	1234.1	1234.1	1235.7	1235.4	1235.7	1234.1	1234.1	1234.4	1234.1	1234.1
31°	1232.8	1232.6	1232.6	1234.1	1233.8	1234.1	1232.6	1232.6	1232.8	1232.6	1232.6
31.5°	1230.8	1230.8	1231.0	1232.3	1231.8	1232.3	1231.0	1230.8	1230.8	1230.8	1231.0
32°	1227.9	1228.2	1228.4	1229.7	1229.2	1229.7	1228.4	1228.2	1227.9	1228.2	1228.4
32.5°	1224.8	1225.1	1225.6	1226.6	1226.1	1226.6	1225.6	1225.1	1224.8	1225.1	1225.6
33°	1221.2	1221.5	1222.2	1223.0	1222.2	1223.0	1222.2	1221.5	1221.2	1221.5	1222.2
33.5°	1217.1	1217.3	1218.4	1218.9	1218.1	1218.9	1218.4	1217.3	1217.1	1217.3	1218.4
34°	1212.2	1212.9	1214.0	1214.2	1213.2	1214.2	1214.0	1212.9	1212.2	1212.9	1214.0
34.5°	1207.0	1207.8	1209.1	1209.1	1208.0	1209.1	1209.1	1207.8	1207.0	1207.8	1209.1
35°	1201.3	1202.1	1203.7	1203.4	1202.1	1203.4	1203.7	1202.1	1201.3	1202.1	1203.7
35.5°	1195.4	1196.4	1197.7	1197.5	1196.2	1197.5	1197.7	1196.4	1195.4	1196.4	1197.7
36°	1188.9	1190.0	1191.5	1191.0	1189.5	1191.0	1191.5	1190.0	1188.9	1190.0	1191.5
36.5°	1182.0	1183.3	1184.8	1184.0	1182.5	1184.0	1184.8	1183.3	1182.0	1183.3	1184.8
37°	1174.5	1175.8	1177.3	1176.6	1174.7	1176.6	1177.3	1175.8	1174.5	1175.8	1177.3
37.5°	1166.5	1168.0	1169.1	1168.3	1166.5	1168.3	1169.1	1168.0	1166.5	1168.0	1169.1
38°	1157.7	1159.3	1160.6	1159.5	1157.7	1159.5	1160.6	1159.3	1157.7	1159.3	1160.6
38.5°	1148.2	1150.0	1151.3	1150.0	1147.9	1150.0	1151.3	1150.0	1148.2	1150.0	1151.3
39°	1138.1	1140.2	1140.9	1139.7	1137.6	1139.7	1140.9	1140.2	1138.1	1140.2	1140.9
39.5°	1127.5	1129.3	1129.8	1128.3	1126.2	1128.3	1129.8	1129.3	1127.5	1129.3	1129.8
40°	1115.9	1117.5	1118.0	1116.4	1114.6	1116.4	1118.0	1117.5	1115.9	1117.5	1118.0
40.5°	1103.8	1105.1	1105.3	1103.8	1101.7	1103.8	1105.3	1105.1	1103.8	1105.1	1105.3
41°	1090.9	1091.9	1091.6	1090.1	1088.6	1090.1	1091.6	1091.9	1090.9	1091.9	1091.6
41.5°	1077.2	1078.0	1077.5	1075.9	1074.6	1075.9	1077.5	1078.0	1077.2	1078.0	1077.5
42°	1063.0	1063.3	1062.2	1060.9	1060.2	1060.9	1062.2	1063.3	1063.0	1063.3	1062.2
42.5°	1048.3	1048.0	1046.5	1045.5	1044.7	1045.5	1046.5	1048.0	1048.3	1048.0	1046.5
43°	1032.6	1031.8	1030.0	1029.2	1028.7	1029.2	1030.0	1031.8	1032.6	1031.8	1030.0
43.5°	1016.0	1015.0	1012.4	1012.2	1011.9	1012.2	1012.4	1015.0	1016.0	1015.0	1012.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	962.4	960.0	956.4	956.4	957.2	956.4	956.4	960.0	962.4	960.0	956.4
45.5°	942.7	940.2	936.0	936.5	937.3	936.5	936.0	940.2	942.7	940.2	936.0
46°	922.1	919.5	915.4	915.9	917.2	915.9	915.4	919.5	922.1	919.5	915.4
46.5°	900.4	898.1	894.0	894.5	895.8	894.5	894.0	898.1	900.4	898.1	894.0
47°	877.7	875.4	871.5	872.0	873.1	872.0	871.5	875.4	877.7	875.4	871.5
47.5°	852.4	850.1	846.2	847.0	848.0	847.0	846.2	850.1	852.4	850.1	846.2
48°	825.3	823.3	820.2	821.4	822.5	821.4	820.2	823.3	825.3	823.3	820.2
48.5°	800.0	799.0	796.2	797.2	798.5	797.2	796.2	799.0	800.0	799.0	796.2
49°	776.3	775.8	774.2	775.0	775.8	775.0	774.2	775.8	776.3	775.8	774.2
49.5°	752.8	752.5	751.8	752.3	752.8	752.3	751.8	752.5	752.8	752.5	751.8
50°	729.1	728.8	728.8	729.6	730.3	729.6	728.8	728.8	729.1	728.8	728.8
50.5°	706.9	707.1	706.9	707.4	707.9	707.4	706.9	707.1	706.9	707.1	706.9
51°	686.7	686.7	686.5	687.0	686.5	687.0	686.5	686.7	686.7	686.7	686.5
51.5°	667.6	667.4	667.1	667.6	667.9	667.6	667.1	667.4	667.6	667.4	667.1
52°	649.3	649.3	649.3	650.1	650.9	650.1	649.3	649.3	649.3	649.3	649.3
52.5°	632.5	632.8	632.5	633.6	634.3	633.6	632.5	632.8	632.5	632.8	632.5
53°	617.6	617.3	617.3	618.6	619.1	618.6	617.3	617.3	617.6	617.3	617.3
53.5°	603.4	603.4	603.4	604.4	604.9	604.4	603.4	603.4	603.4	603.4	603.4
54°	589.7	589.4	589.4	590.5	590.5	590.5	589.4	589.4	589.7	589.4	589.4
54.5°	575.0	575.0	575.0	575.8	576.0	575.8	575.0	575.0	575.0	575.0	575.0
55°	558.7	558.7	558.7	560.0	560.0	560.0	558.7	558.7	558.7	558.7	558.7
55.5°	539.9	539.9	540.1	542.0	541.4	542.0	540.1	539.9	539.9	539.9	540.1
56°	518.5	519.0	519.8	521.3	521.0	521.3	519.8	519.0	518.5	519.0	519.8
56.5°	496.3	496.5	497.6	499.1	499.1	499.1	497.6	496.5	496.3	496.5	497.6
57°	472.8	473.0	474.3	475.9	475.4	475.9	474.3	473.0	472.8	473.0	474.3
57.5°	448.3	448.8	449.8	451.9	451.9	451.9	449.8	448.8	448.3	448.8	449.8
58°	423.8	423.8	425.3	427.6	428.1	427.6	425.3	423.8	423.8	423.8	425.3
58.5°	397.9	398.7	400.0	402.9	403.9	402.9	400.0	398.7	397.9	398.7	400.0
59°	372.1	373.2	374.7	377.6	378.9	377.6	374.7	373.2	372.1	373.2	374.7
59.5°	346.1	347.4	349.2	352.8	354.3	352.8	349.2	347.4	346.1	347.4	349.2
60°	320.5	322.1	324.4	327.8	329.3	327.8	324.4	322.1	320.5	322.1	324.4
60.5°	295.0	296.8	299.9	303.5	305.0	303.5	299.9	296.8	295.0	296.8	299.9
61°	269.9	272.3	275.9	279.2	280.5	279.2	275.9	272.3	269.9	272.3	275.9
61.5°	246.2	248.3	252.7	255.8	256.8	255.8	252.7	248.3	246.2	248.3	252.7
62°	222.5	225.0	229.4	232.3	233.6	232.3	229.4	225.0	222.5	225.0	229.4
62.5°	199.2	202.1	207.0	209.6	211.6	209.6	207.0	202.1	199.2	202.1	207.0
63°	176.3	179.6	185.0	187.6	189.7	187.6	185.0	179.6	176.3	179.6	185.0
63.5°	154.8	157.7	163.6	166.5	168.5	166.5	163.6	157.7	154.8	157.7	163.6
64°	134.5	137.6	143.0	146.1	147.6	146.1	143.0	137.6	134.5	137.6	143.0
64.5°	114.8	118.2	123.4	126.2	127.5	126.2	123.4	118.2	114.8	118.2	123.4
65°	96.3	99.9	105.6	108.6	110.2	108.6	105.6	99.9	96.3	99.9	105.6
65.5°	79.7	83.6	88.3	91.6	93.7	91.6	88.3	83.6	79.7	83.6	88.3
66°	63.7	68.9	72.3	75.6	77.7	75.6	72.3	68.9	63.7	68.9	72.3





TEST NUMBER: P776129

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	25.5	33.0	35.9	37.2	37.7	37.2	35.9	33.0	25.5	33.0	35.9
68°	15.5	23.7	26.3	27.9	29.2	27.9	26.3	23.7	15.5	23.7	26.3
68.5°	6.7	15.7	17.3	18.8	21.4	18.8	17.3	15.7	6.7	15.7	17.3
69°	4.1	9.5	11.6	12.4	15.5	12.4	11.6	9.5	4.1	9.5	11.6
69.5°	2.8	5.7	7.7	7.2	9.8	7.2	7.7	5.7	2.8	5.7	7.7
70°	2.3	3.4	4.1	3.9	4.4	3.9	4.1	3.4	2.3	3.4	4.1
70.5°	1.5	2.1	2.6	2.6	2.1	2.6	2.6	2.1	1.5	2.1	2.6
71°	1.3	1.5	2.1	2.1	1.8	2.1	2.1	1.5	1.3	1.5	2.1
71.5°	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.5
72°	1.3	1.3	1.3	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3
72.5°	1.0	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.0	1.3	1.3
73°	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.0	1.0	1.0	1.3
73.5°	1.0	1.0	1.0	1.3	1.3	1.3	1.0	1.0	1.0	1.0	1.0
74°	0.8	1.0	1.0	1.0	1.3	1.0	1.0	1.0	0.8	1.0	1.0
74.5°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.0
75°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
75.5°	0.8	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8
76°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
76.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
77°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
77.5°	0.5	0.5	0.5	0.8	0.8	0.8	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°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
80°	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
84.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.3	0.3	0.3	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: P776129  
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-5000K

**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: P776129

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0
0.5°	1278.5	1277.7	1278.5	1278.2	1277.7	1277.7
1°	1278.2	1277.7	1278.2	1278.0	1277.7	1277.5
1.5°	1278.0	1277.5	1278.0	1277.7	1277.5	1277.2
2°	1277.7	1277.2	1277.7	1277.5	1276.9	1276.9
2.5°	1277.2	1276.7	1277.2	1276.9	1276.7	1276.4
3°	1276.9	1276.2	1276.9	1276.7	1276.2	1276.2
3.5°	1276.2	1275.7	1276.2	1276.2	1275.7	1275.7
4°	1275.7	1274.9	1275.7	1275.4	1275.1	1274.9
4.5°	1274.9	1274.4	1274.9	1274.6	1274.4	1274.1
5°	1274.1	1273.6	1274.1	1273.8	1273.6	1273.3
5.5°	1273.3	1272.8	1273.3	1273.1	1272.8	1272.6
6°	1272.3	1271.8	1272.3	1272.0	1271.8	1271.5
6.5°	1271.3	1270.5	1271.3	1271.0	1270.8	1270.5
7°	1270.0	1269.2	1270.0	1269.7	1269.5	1269.5
7.5°	1268.4	1267.9	1268.4	1268.4	1268.2	1268.2
8°	1267.1	1266.6	1267.1	1266.9	1266.9	1266.6
8.5°	1265.6	1265.1	1265.6	1265.6	1265.3	1265.1
9°	1264.0	1263.5	1264.0	1264.0	1263.8	1263.8
9.5°	1262.5	1262.0	1262.5	1262.2	1262.2	1262.0
10°	1260.7	1260.2	1260.7	1260.7	1260.4	1260.4
10.5°	1258.9	1258.4	1258.9	1258.9	1258.6	1258.6
11°	1257.1	1256.3	1257.1	1257.1	1256.8	1256.8
11.5°	1255.0	1254.5	1255.0	1255.0	1254.8	1254.8
12°	1252.9	1252.4	1252.9	1252.9	1252.9	1252.9
12.5°	1250.9	1250.4	1250.9	1250.9	1250.9	1250.9
13°	1248.8	1248.3	1248.8	1249.1	1248.8	1249.1
13.5°	1246.8	1246.0	1246.8	1246.8	1246.8	1247.0
14°	1244.7	1243.9	1244.7	1244.7	1244.9	1244.9
14.5°	1242.6	1241.8	1242.6	1242.6	1242.9	1242.9
15°	1240.6	1239.8	1240.6	1240.6	1240.8	1241.1
15.5°	1238.5	1238.0	1238.5	1238.8	1239.0	1239.3
16°	1236.9	1236.4	1236.9	1237.5	1237.7	1238.0
16.5°	1235.7	1235.4	1235.7	1236.4	1236.7	1236.9
17°	1235.1	1234.6	1235.1	1235.9	1236.2	1236.2
17.5°	1234.9	1234.6	1234.9	1235.4	1235.9	1235.9
18°	1235.1	1234.6	1235.1	1235.4	1235.9	1235.9
18.5°	1235.1	1234.6	1235.1	1235.7	1235.9	1235.9
19°	1235.7	1235.1	1235.7	1235.9	1236.2	1236.2
19.5°	1235.9	1235.4	1235.9	1236.2	1236.4	1236.4
20°	1236.2	1235.9	1236.2	1236.4	1236.7	1236.7
20.5°	1236.7	1236.2	1236.7	1236.7	1236.7	1236.9
21°	1236.9	1236.7	1236.9	1236.9	1236.9	1236.9



TEST NUMBER: P776129

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1237.5	1237.5	1237.5	1237.2	1237.2	1237.5
23°	1237.7	1237.5	1237.7	1237.2	1237.2	1237.5
23.5°	1237.5	1237.5	1237.5	1236.9	1237.2	1237.5
24°	1237.5	1237.5	1237.5	1236.7	1236.9	1237.2
24.5°	1237.5	1237.5	1237.5	1236.7	1236.7	1237.2
25°	1237.2	1237.2	1237.2	1236.4	1236.4	1236.9
25.5°	1237.2	1237.2	1237.2	1236.2	1236.2	1236.7
26°	1236.9	1236.9	1236.9	1235.7	1235.9	1236.2
26.5°	1236.7	1236.7	1236.7	1235.4	1235.7	1235.9
27°	1236.4	1236.7	1236.4	1235.1	1235.4	1235.9
27.5°	1236.4	1236.7	1236.4	1235.1	1235.7	1235.9
28°	1236.7	1236.9	1236.7	1235.4	1235.7	1236.2
28.5°	1236.9	1237.2	1236.9	1235.4	1235.9	1236.4
29°	1237.2	1237.2	1237.2	1235.4	1235.9	1236.4
29.5°	1236.9	1236.9	1236.9	1235.4	1235.7	1236.2
30°	1236.4	1236.4	1236.4	1234.9	1235.1	1235.4
30.5°	1235.7	1235.4	1235.7	1234.1	1234.1	1234.4
31°	1234.1	1233.8	1234.1	1232.6	1232.6	1232.8
31.5°	1232.3	1231.8	1232.3	1231.0	1230.8	1230.8
32°	1229.7	1229.2	1229.7	1228.4	1228.2	1227.9
32.5°	1226.6	1226.1	1226.6	1225.6	1225.1	1224.8
33°	1223.0	1222.2	1223.0	1222.2	1221.5	1221.2
33.5°	1218.9	1218.1	1218.9	1218.4	1217.3	1217.1
34°	1214.2	1213.2	1214.2	1214.0	1212.9	1212.2
34.5°	1209.1	1208.0	1209.1	1209.1	1207.8	1207.0
35°	1203.4	1202.1	1203.4	1203.7	1202.1	1201.3
35.5°	1197.5	1196.2	1197.5	1197.7	1196.4	1195.4
36°	1191.0	1189.5	1191.0	1191.5	1190.0	1188.9
36.5°	1184.0	1182.5	1184.0	1184.8	1183.3	1182.0
37°	1176.6	1174.7	1176.6	1177.3	1175.8	1174.5
37.5°	1168.3	1166.5	1168.3	1169.1	1168.0	1166.5
38°	1159.5	1157.7	1159.5	1160.6	1159.3	1157.7
38.5°	1150.0	1147.9	1150.0	1151.3	1150.0	1148.2
39°	1139.7	1137.6	1139.7	1140.9	1140.2	1138.1
39.5°	1128.3	1126.2	1128.3	1129.8	1129.3	1127.5
40°	1116.4	1114.6	1116.4	1118.0	1117.5	1115.9
40.5°	1103.8	1101.7	1103.8	1105.3	1105.1	1103.8
41°	1090.1	1088.6	1090.1	1091.6	1091.9	1090.9
41.5°	1075.9	1074.6	1075.9	1077.5	1078.0	1077.2
42°	1060.9	1060.2	1060.9	1062.2	1063.3	1063.0
42.5°	1045.5	1044.7	1045.5	1046.5	1048.0	1048.3
43°	1029.2	1028.7	1029.2	1030.0	1031.8	1032.6
43.5°	1012.2	1011.9	1012.2	1012.4	1015.0	1016.0



TEST NUMBER: P776129

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	956.4	957.2	956.4	956.4	960.0	962.4
45.5°	936.5	937.3	936.5	936.0	940.2	942.7
46°	915.9	917.2	915.9	915.4	919.5	922.1
46.5°	894.5	895.8	894.5	894.0	898.1	900.4
47°	872.0	873.1	872.0	871.5	875.4	877.7
47.5°	847.0	848.0	847.0	846.2	850.1	852.4
48°	821.4	822.5	821.4	820.2	823.3	825.3
48.5°	797.2	798.5	797.2	796.2	799.0	800.0
49°	775.0	775.8	775.0	774.2	775.8	776.3
49.5°	752.3	752.8	752.3	751.8	752.5	752.8
50°	729.6	730.3	729.6	728.8	728.8	729.1
50.5°	707.4	707.9	707.4	706.9	707.1	706.9
51°	687.0	686.5	687.0	686.5	686.7	686.7
51.5°	667.6	667.9	667.6	667.1	667.4	667.6
52°	650.1	650.9	650.1	649.3	649.3	649.3
52.5°	633.6	634.3	633.6	632.5	632.8	632.5
53°	618.6	619.1	618.6	617.3	617.3	617.6
53.5°	604.4	604.9	604.4	603.4	603.4	603.4
54°	590.5	590.5	590.5	589.4	589.4	589.7
54.5°	575.8	576.0	575.8	575.0	575.0	575.0
55°	560.0	560.0	560.0	558.7	558.7	558.7
55.5°	542.0	541.4	542.0	540.1	539.9	539.9
56°	521.3	521.0	521.3	519.8	519.0	518.5
56.5°	499.1	499.1	499.1	497.6	496.5	496.3
57°	475.9	475.4	475.9	474.3	473.0	472.8
57.5°	451.9	451.9	451.9	449.8	448.8	448.3
58°	427.6	428.1	427.6	425.3	423.8	423.8
58.5°	402.9	403.9	402.9	400.0	398.7	397.9
59°	377.6	378.9	377.6	374.7	373.2	372.1
59.5°	352.8	354.3	352.8	349.2	347.4	346.1
60°	327.8	329.3	327.8	324.4	322.1	320.5
60.5°	303.5	305.0	303.5	299.9	296.8	295.0
61°	279.2	280.5	279.2	275.9	272.3	269.9
61.5°	255.8	256.8	255.8	252.7	248.3	246.2
62°	232.3	233.6	232.3	229.4	225.0	222.5
62.5°	209.6	211.6	209.6	207.0	202.1	199.2
63°	187.6	189.7	187.6	185.0	179.6	176.3
63.5°	166.5	168.5	166.5	163.6	157.7	154.8
64°	146.1	147.6	146.1	143.0	137.6	134.5
64.5°	126.2	127.5	126.2	123.4	118.2	114.8
65°	108.6	110.2	108.6	105.6	99.9	96.3
65.5°	91.6	93.7	91.6	88.3	83.6	79.7
66°	75.6	77.7	75.6	72.3	68.9	63.7



TEST NUMBER: P776129

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	37.2	37.7	37.2	35.9	33.0	25.5
68°	27.9	29.2	27.9	26.3	23.7	15.5
68.5°	18.8	21.4	18.8	17.3	15.7	6.7
69°	12.4	15.5	12.4	11.6	9.5	4.1
69.5°	7.2	9.8	7.2	7.7	5.7	2.8
70°	3.9	4.4	3.9	4.1	3.4	2.3
70.5°	2.6	2.1	2.6	2.6	2.1	1.5
71°	2.1	1.8	2.1	2.1	1.5	1.3
71.5°	1.5	1.5	1.5	1.5	1.3	1.3
72°	1.5	1.5	1.5	1.3	1.3	1.3
72.5°	1.3	1.5	1.3	1.3	1.3	1.0
73°	1.3	1.3	1.3	1.3	1.0	1.0
73.5°	1.3	1.3	1.3	1.0	1.0	1.0
74°	1.0	1.3	1.0	1.0	1.0	0.8
74.5°	1.0	1.0	1.0	1.0	0.8	0.8
75°	1.0	1.0	1.0	0.8	0.8	0.8
75.5°	1.0	1.0	1.0	0.8	0.8	0.8
76°	0.8	0.8	0.8	0.8	0.8	0.8
76.5°	0.8	0.8	0.8	0.8	0.5	0.5
77°	0.8	0.8	0.8	0.8	0.5	0.5
77.5°	0.8	0.8	0.8	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	0.3	0.3
80°	0.5	0.5	0.5	0.3	0.3	0.3
80.5°	0.5	0.5	0.5	0.3	0.3	0.3
81°	0.3	0.3	0.3	0.3	0.3	0.3
81.5°	0.3	0.3	0.3	0.3	0.3	0.3
82°	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3
83°	0.3	0.3	0.3	0.3	0.3	0.3
83.5°	0.3	0.3	0.3	0.3	0.3	0.3
84°	0.3	0.3	0.3	0.3	0.0	0.0
84.5°	0.3	0.3	0.3	0.0	0.0	0.0
85°	0.3	0.3	0.3	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: P776129

CATALOG NUMBER: HCDJBL1525CSD-HCD81TRC-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

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



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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1237.2	1237.2	1236.9	1237.2	1236.9	1237.2	1236.9	1237.2	1237.2	1237.2	1236.9
22°	1237.5	1237.2	1237.2	1237.2	1237.2	1237.2	1237.2	1237.2	1237.5	1237.2	1237.2



44°	998.7	997.5	994.4	994.1	994.4	994.1	994.4	997.5	998.7	997.5	994.4
44.5°	980.9	979.4	975.8	975.8	976.0	975.8	975.8	979.4	980.9	979.4	975.8



66.5°	51.1	55.2	58.8	61.4	62.2	61.4	58.8	55.2	51.1	55.2	58.8
67°	38.2	43.1	45.9	48.5	49.0	48.5	45.9	43.1	38.2	43.1	45.9



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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Scaled Data Report





21.5°	1237.2	1236.9	1237.2	1236.9	1237.2	1237.2
22°	1237.2	1237.2	1237.2	1237.2	1237.2	1237.5



44°	994.1	994.4	994.1	994.4	997.5	998.7
44.5°	975.8	976.0	975.8	975.8	979.4	980.9



66.5°	61.4	62.2	61.4	58.8	55.2	51.1
67°	48.5	49.0	48.5	45.9	43.1	38.2

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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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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)