

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: P776127

Luminaire Tested: HCDJBS1525CSD-HCD81TRC-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776127
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: HCDJBL51525CSD-HCD81TRC-2500lm-3500K
Description: 8 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

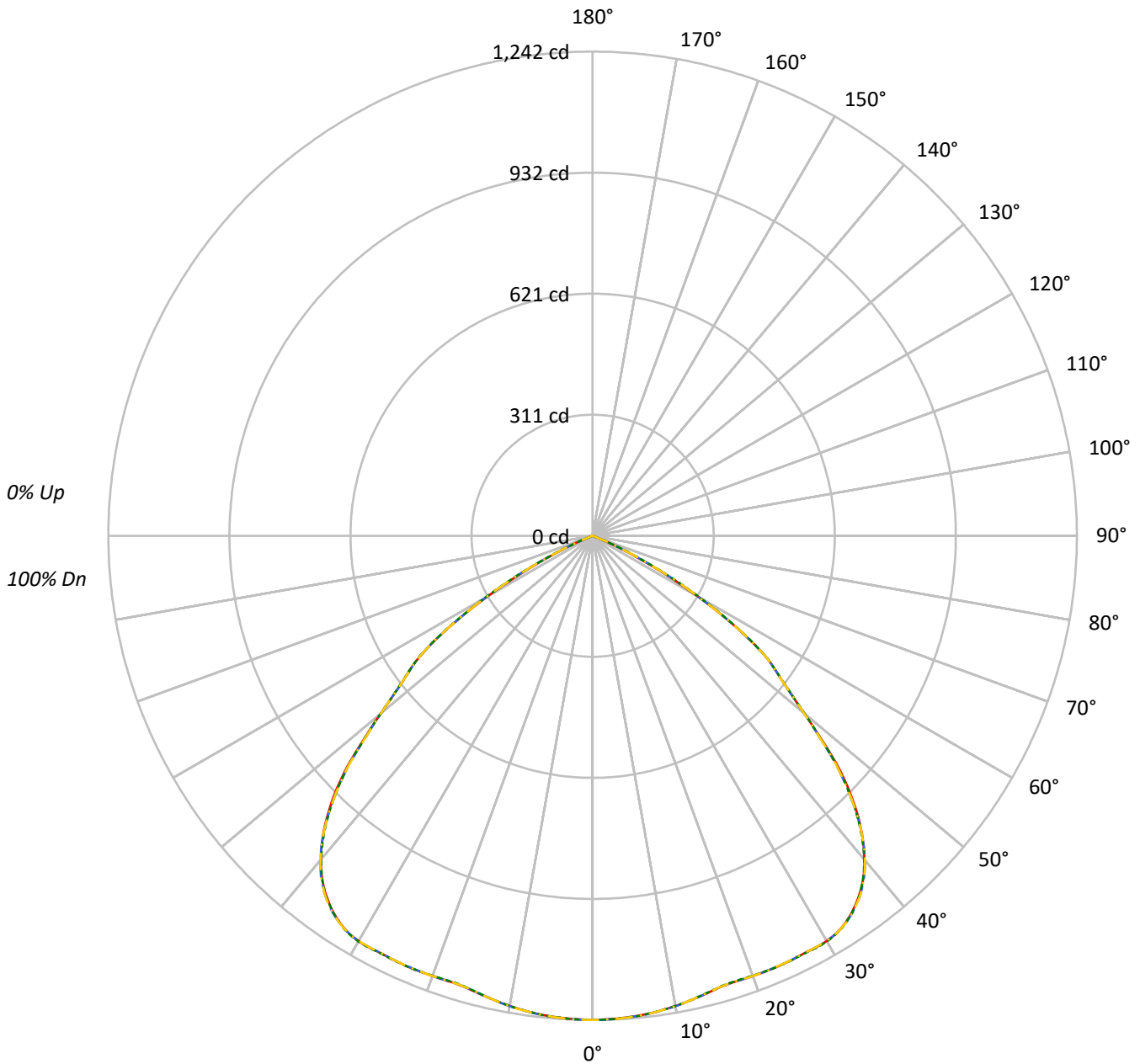
Lumens per Lamp: N/A
Luminaire Lumens: 3039.8 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.44
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	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°	37916	37916	37916	37916
5°	37922	37932	37922	37932
10°	37973	37964	37973	37964
15°	38122	38080	38122	38080
20°	39046	39020	39046	39020
25°	40494	40501	40494	40501
30°	42322	42357	42322	42357
35°	43510	43540	43510	43540
40°	43218	43170	43218	43170
45°	40379	40163	40379	40163
50°	33651	33708	33651	33708
55°	28903	28967	28903	28967
60°	19020	19539	19020	19539
65°	6755	7737	6755	7737
70°	205	384	205	384
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: 40379 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.9
10°-20°	342.2	11.3
20°-30°	556.2	18.3
30°-40°	727.6	23.9
40°-50°	706.9	23.3
50°-60°	469.6	15.4
60°-70°	118.3	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°	1016.1	33.4
0°-40°	1743.8	57.4
0°-60°	2920.3	96.1
0°-90°	3039.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1242	1242	1242	1242	1242	
5°	1237	1238	1237	1238	1237	118
15°	1206	1205	1206	1205	1206	342
25°	1202	1202	1202	1202	1202	556
35°	1167	1168	1167	1168	1167	727
45°	935	930	935	930	935	709
55°	543	544	543	544	543	469
65°	94	107	94	107	94	112
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°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
0.5°	1241.7	1241.7	1242.2	1242.4	1241.7	1242.4	1242.2	1241.7	1241.7	1241.7	1242.2
1°	1241.4	1241.7	1241.9	1242.2	1241.7	1242.2	1241.9	1241.7	1241.4	1241.7	1241.9
1.5°	1241.2	1241.4	1241.7	1241.9	1241.4	1241.9	1241.7	1241.4	1241.2	1241.4	1241.7
2°	1240.9	1240.9	1241.4	1241.7	1241.2	1241.7	1241.4	1240.9	1240.9	1240.9	1241.4
2.5°	1240.4	1240.7	1240.9	1241.2	1240.7	1241.2	1240.9	1240.7	1240.4	1240.7	1240.9
3°	1240.2	1240.2	1240.7	1240.9	1240.2	1240.9	1240.7	1240.2	1240.2	1240.2	1240.7
3.5°	1239.7	1239.7	1240.2	1240.2	1239.7	1240.2	1240.2	1239.7	1239.7	1239.7	1240.2
4°	1238.9	1239.2	1239.4	1239.7	1238.9	1239.7	1239.4	1239.2	1238.9	1239.2	1239.4
4.5°	1238.2	1238.4	1238.7	1238.9	1238.4	1238.9	1238.7	1238.4	1238.2	1238.4	1238.7
5°	1237.4	1237.7	1237.9	1238.2	1237.7	1238.2	1237.9	1237.7	1237.4	1237.7	1237.9
5.5°	1236.7	1236.9	1237.2	1237.4	1236.9	1237.4	1237.2	1236.9	1236.7	1236.9	1237.2
6°	1235.7	1235.9	1236.2	1236.4	1235.9	1236.4	1236.2	1235.9	1235.7	1235.9	1236.2
6.5°	1234.7	1234.9	1235.2	1235.4	1234.7	1235.4	1235.2	1234.9	1234.7	1234.9	1235.2
7°	1233.6	1233.6	1233.9	1234.2	1233.4	1234.2	1233.9	1233.6	1233.6	1233.6	1233.9
7.5°	1232.4	1232.4	1232.6	1232.6	1232.1	1232.6	1232.6	1232.4	1232.4	1232.4	1232.6
8°	1230.9	1231.1	1231.1	1231.4	1230.9	1231.4	1231.1	1231.1	1230.9	1231.1	1231.1
8.5°	1229.4	1229.6	1229.9	1229.9	1229.4	1229.9	1229.9	1229.6	1229.4	1229.6	1229.9
9°	1228.1	1228.1	1228.4	1228.4	1227.9	1228.4	1228.4	1228.1	1228.1	1228.1	1228.4
9.5°	1226.4	1226.6	1226.6	1226.9	1226.4	1226.9	1226.6	1226.6	1226.4	1226.6	1226.6
10°	1224.9	1224.9	1225.1	1225.1	1224.6	1225.1	1225.1	1224.9	1224.9	1224.9	1225.1
10.5°	1223.1	1223.1	1223.4	1223.4	1222.9	1223.4	1223.4	1223.1	1223.1	1223.1	1223.4
11°	1221.4	1221.4	1221.6	1221.6	1220.9	1221.6	1221.6	1221.4	1221.4	1221.4	1221.6
11.5°	1219.4	1219.4	1219.6	1219.6	1219.1	1219.6	1219.6	1219.4	1219.4	1219.4	1219.6
12°	1217.6	1217.6	1217.6	1217.6	1217.1	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6
12.5°	1215.6	1215.6	1215.6	1215.6	1215.1	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6
13°	1213.8	1213.6	1213.8	1213.6	1213.1	1213.6	1213.8	1213.6	1213.8	1213.6	1213.8
13.5°	1211.8	1211.6	1211.6	1211.6	1210.8	1211.6	1211.6	1211.6	1211.8	1211.6	1211.6
14°	1209.8	1209.8	1209.6	1209.6	1208.8	1209.6	1209.6	1209.8	1209.8	1209.8	1209.6
14.5°	1207.8	1207.8	1207.6	1207.6	1206.8	1207.6	1207.6	1207.8	1207.8	1207.8	1207.6
15°	1206.1	1205.8	1205.6	1205.6	1204.8	1205.6	1205.6	1205.8	1206.1	1205.8	1205.6
15.5°	1204.3	1204.1	1203.8	1203.6	1203.1	1203.6	1203.8	1204.1	1204.3	1204.1	1203.8
16°	1203.1	1202.8	1202.6	1202.1	1201.5	1202.1	1202.6	1202.8	1203.1	1202.8	1202.6
16.5°	1202.1	1201.8	1201.5	1200.8	1200.5	1200.8	1201.5	1201.8	1202.1	1201.8	1201.5
17°	1201.3	1201.3	1201.0	1200.3	1199.8	1200.3	1201.0	1201.3	1201.3	1201.3	1201.0
17.5°	1201.0	1201.0	1200.5	1200.0	1199.8	1200.0	1200.5	1201.0	1201.0	1201.0	1200.5
18°	1201.0	1201.0	1200.5	1200.3	1199.8	1200.3	1200.5	1201.0	1201.0	1201.0	1200.5
18.5°	1201.0	1201.0	1200.8	1200.3	1199.8	1200.3	1200.8	1201.0	1201.0	1201.0	1200.8
19°	1201.3	1201.3	1201.0	1200.8	1200.3	1200.8	1201.0	1201.3	1201.3	1201.3	1201.0
19.5°	1201.5	1201.5	1201.3	1201.0	1200.5	1201.0	1201.3	1201.5	1201.5	1201.5	1201.3
20°	1201.8	1201.8	1201.5	1201.3	1201.0	1201.3	1201.5	1201.8	1201.8	1201.8	1201.5
20.5°	1202.1	1201.8	1201.8	1201.8	1201.3	1201.8	1201.8	1201.8	1202.1	1201.8	1201.8
21°	1202.1	1202.1	1202.1	1202.1	1201.8	1202.1	1202.1	1202.1	1202.1	1202.1	1202.1



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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°	1202.6	1202.3	1202.3	1202.6	1202.6	1202.6	1202.3	1202.3	1202.6	1202.3	1202.3
23°	1202.6	1202.3	1202.3	1202.8	1202.6	1202.8	1202.3	1202.3	1202.6	1202.3	1202.3
23.5°	1202.6	1202.3	1202.1	1202.6	1202.6	1202.6	1202.1	1202.3	1202.6	1202.3	1202.1
24°	1202.3	1202.1	1201.8	1202.6	1202.6	1202.6	1201.8	1202.1	1202.3	1202.1	1201.8
24.5°	1202.3	1201.8	1201.8	1202.6	1202.6	1202.6	1201.8	1201.8	1202.3	1201.8	1201.8
25°	1202.1	1201.5	1201.5	1202.3	1202.3	1202.3	1201.5	1201.5	1202.1	1201.5	1201.5
25.5°	1201.8	1201.3	1201.3	1202.3	1202.3	1202.3	1201.3	1201.3	1201.8	1201.3	1201.3
26°	1201.3	1201.0	1200.8	1202.1	1202.1	1202.1	1200.8	1201.0	1201.3	1201.0	1200.8
26.5°	1201.0	1200.8	1200.5	1201.8	1201.8	1201.8	1200.5	1200.8	1201.0	1200.8	1200.5
27°	1201.0	1200.5	1200.3	1201.5	1201.8	1201.5	1200.3	1200.5	1201.0	1200.5	1200.3
27.5°	1201.0	1200.8	1200.3	1201.5	1201.8	1201.5	1200.3	1200.8	1201.0	1200.8	1200.3
28°	1201.3	1200.8	1200.5	1201.8	1202.1	1201.8	1200.5	1200.8	1201.3	1200.8	1200.5
28.5°	1201.5	1201.0	1200.5	1202.1	1202.3	1202.1	1200.5	1201.0	1201.5	1201.0	1200.5
29°	1201.5	1201.0	1200.5	1202.3	1202.3	1202.3	1200.5	1201.0	1201.5	1201.0	1200.5
29.5°	1201.3	1200.8	1200.5	1202.1	1202.1	1202.1	1200.5	1200.8	1201.3	1200.8	1200.5
30°	1200.5	1200.3	1200.0	1201.5	1201.5	1201.5	1200.0	1200.3	1200.5	1200.3	1200.0
30.5°	1199.5	1199.3	1199.3	1200.8	1200.5	1200.8	1199.3	1199.3	1199.5	1199.3	1199.3
31°	1198.0	1197.8	1197.8	1199.3	1199.0	1199.3	1197.8	1197.8	1198.0	1197.8	1197.8
31.5°	1196.0	1196.0	1196.3	1197.5	1197.0	1197.5	1196.3	1196.0	1196.0	1196.0	1196.3
32°	1193.3	1193.5	1193.8	1195.0	1194.5	1195.0	1193.8	1193.5	1193.3	1193.5	1193.8
32.5°	1190.3	1190.5	1191.0	1192.0	1191.5	1192.0	1191.0	1190.5	1190.3	1190.5	1191.0
33°	1186.8	1187.0	1187.8	1188.5	1187.8	1188.5	1187.8	1187.0	1186.8	1187.0	1187.8
33.5°	1182.7	1183.0	1184.0	1184.5	1183.7	1184.5	1184.0	1183.0	1182.7	1183.0	1184.0
34°	1178.0	1178.7	1179.7	1180.0	1179.0	1180.0	1179.7	1178.7	1178.0	1178.7	1179.7
34.5°	1173.0	1173.7	1175.0	1175.0	1174.0	1175.0	1175.0	1173.7	1173.0	1173.7	1175.0
35°	1167.4	1168.2	1169.7	1169.4	1168.2	1169.4	1169.7	1168.2	1167.4	1168.2	1169.7
35.5°	1161.7	1162.7	1163.9	1163.7	1162.4	1163.7	1163.9	1162.7	1161.7	1162.7	1163.9
36°	1155.4	1156.4	1157.9	1157.4	1155.9	1157.4	1157.9	1156.4	1155.4	1156.4	1157.9
36.5°	1148.6	1149.9	1151.4	1150.6	1149.1	1150.6	1151.4	1149.9	1148.6	1149.9	1151.4
37°	1141.4	1142.6	1144.1	1143.4	1141.6	1143.4	1144.1	1142.6	1141.4	1142.6	1144.1
37.5°	1133.6	1135.1	1136.1	1135.3	1133.6	1135.3	1136.1	1135.1	1133.6	1135.1	1136.1
38°	1125.1	1126.6	1127.8	1126.8	1125.1	1126.8	1127.8	1126.6	1125.1	1126.6	1127.8
38.5°	1115.8	1117.5	1118.8	1117.5	1115.5	1117.5	1118.8	1117.5	1115.8	1117.5	1118.8
39°	1106.0	1108.0	1108.8	1107.5	1105.5	1107.5	1108.8	1108.0	1106.0	1108.0	1108.8
39.5°	1095.7	1097.5	1098.0	1096.5	1094.5	1096.5	1098.0	1097.5	1095.7	1097.5	1098.0
40°	1084.4	1085.9	1086.4	1084.9	1083.2	1084.9	1086.4	1085.9	1084.4	1085.9	1086.4
40.5°	1072.6	1073.9	1074.1	1072.6	1070.6	1072.6	1074.1	1073.9	1072.6	1073.9	1074.1
41°	1060.1	1061.1	1060.9	1059.3	1057.8	1059.3	1060.9	1061.1	1060.1	1061.1	1060.9
41.5°	1046.8	1047.6	1047.1	1045.6	1044.3	1045.6	1047.1	1047.6	1046.8	1047.6	1047.1
42°	1033.0	1033.3	1032.3	1031.0	1030.3	1031.0	1032.3	1033.3	1033.0	1033.3	1032.3
42.5°	1018.7	1018.5	1017.0	1016.0	1015.2	1016.0	1017.0	1018.5	1018.7	1018.5	1017.0
43°	1003.4	1002.7	1000.9	1000.2	999.7	1000.2	1000.9	1002.7	1003.4	1002.7	1000.9
43.5°	987.4	986.4	983.9	983.6	983.4	983.6	983.9	986.4	987.4	986.4	983.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	935.2	932.9	929.4	929.4	930.2	929.4	929.4	932.9	935.2	932.9	929.4
45.5°	916.1	913.6	909.6	910.1	910.9	910.1	909.6	913.6	916.1	913.6	909.6
46°	896.1	893.6	889.6	890.1	891.3	890.1	889.6	893.6	896.1	893.6	889.6
46.5°	875.0	872.8	868.7	869.2	870.5	869.2	868.7	872.8	875.0	872.8	868.7
47°	852.9	850.7	846.9	847.4	848.4	847.4	846.9	850.7	852.9	850.7	846.9
47.5°	828.4	826.1	822.3	823.1	824.1	823.1	822.3	826.1	828.4	826.1	822.3
48°	802.0	800.0	797.0	798.3	799.3	798.3	797.0	800.0	802.0	800.0	797.0
48.5°	777.5	776.5	773.7	774.7	776.0	774.7	773.7	776.5	777.5	776.5	773.7
49°	754.4	753.9	752.4	753.1	753.9	753.1	752.4	753.9	754.4	753.9	752.4
49.5°	731.6	731.3	730.6	731.1	731.6	731.1	730.6	731.3	731.6	731.3	730.6
50°	708.5	708.2	708.2	709.0	709.7	709.0	708.2	708.2	708.5	708.2	708.2
50.5°	686.9	687.2	686.9	687.4	687.9	687.4	686.9	687.2	686.9	687.2	686.9
51°	667.4	667.4	667.1	667.6	667.1	667.6	667.1	667.4	667.4	667.4	667.1
51.5°	648.8	648.6	648.3	648.8	649.1	648.8	648.3	648.6	648.8	648.6	648.3
52°	631.0	631.0	631.0	631.7	632.5	631.7	631.0	631.0	631.0	631.0	631.0
52.5°	614.7	614.9	614.7	615.7	616.4	615.7	614.7	614.9	614.7	614.9	614.7
53°	600.1	599.9	599.9	601.2	601.7	601.2	599.9	599.9	600.1	599.9	599.9
53.5°	586.4	586.4	586.4	587.4	587.9	587.4	586.4	586.4	586.4	586.4	586.4
54°	573.1	572.8	572.8	573.8	573.8	573.8	572.8	572.8	573.1	572.8	572.8
54.5°	558.8	558.8	558.8	559.5	559.8	559.5	558.8	558.8	558.8	558.8	558.8
55°	543.0	543.0	543.0	544.2	544.2	544.2	543.0	543.0	543.0	543.0	543.0
55.5°	524.7	524.7	524.9	526.7	526.2	526.7	524.9	524.7	524.7	524.7	524.9
56°	503.8	504.3	505.1	506.6	506.4	506.6	505.1	504.3	503.8	504.3	505.1
56.5°	482.3	482.5	483.5	485.0	485.0	485.0	483.5	482.5	482.3	482.5	483.5
57°	459.5	459.7	461.0	462.5	462.0	462.5	461.0	459.7	459.5	459.7	461.0
57.5°	435.6	436.1	437.1	439.1	439.1	439.1	437.1	436.1	435.6	436.1	437.1
58°	411.8	411.8	413.3	415.6	416.1	415.6	413.3	411.8	411.8	411.8	413.3
58.5°	386.7	387.5	388.7	391.5	392.5	391.5	388.7	387.5	386.7	387.5	388.7
59°	361.6	362.6	364.2	366.9	368.2	366.9	364.2	362.6	361.6	362.6	364.2
59.5°	336.3	337.6	339.3	342.8	344.3	342.8	339.3	337.6	336.3	337.6	339.3
60°	311.5	313.0	315.2	318.5	320.0	318.5	315.2	313.0	311.5	313.0	315.2
60.5°	286.7	288.4	291.4	294.9	296.4	294.9	291.4	288.4	286.7	288.4	291.4
61°	262.3	264.6	268.1	271.4	272.6	271.4	268.1	264.6	262.3	264.6	268.1
61.5°	239.3	241.3	245.5	248.5	249.5	248.5	245.5	241.3	239.3	241.3	245.5
62°	216.2	218.7	223.0	225.7	227.0	225.7	223.0	218.7	216.2	218.7	223.0
62.5°	193.6	196.4	201.1	203.6	205.7	203.6	201.1	196.4	193.6	196.4	201.1
63°	171.3	174.6	179.8	182.3	184.3	182.3	179.8	174.6	171.3	174.6	179.8
63.5°	150.5	153.2	159.0	161.8	163.8	161.8	159.0	153.2	150.5	153.2	159.0
64°	130.7	133.7	138.9	141.9	143.5	141.9	138.9	133.7	130.7	133.7	138.9
64.5°	111.6	114.9	119.9	122.6	123.9	122.6	119.9	114.9	111.6	114.9	119.9
65°	93.5	97.1	102.6	105.6	107.1	105.6	102.6	97.1	93.5	97.1	102.6
65.5°	77.5	81.3	85.8	89.0	91.0	89.0	85.8	81.3	77.5	81.3	85.8
66°	61.9	67.0	70.2	73.5	75.5	73.5	70.2	67.0	61.9	67.0	70.2



TEST NUMBER: P776127

CATALOG NUMBER: HCDJBL5125CSD-HCD81TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	24.8	32.1	34.9	36.1	36.6	36.1	34.9	32.1	24.8	32.1	34.9
68°	15.0	23.1	25.6	27.1	28.3	27.1	25.6	23.1	15.0	23.1	25.6
68.5°	6.5	15.3	16.8	18.3	20.8	18.3	16.8	15.3	6.5	15.3	16.8
69°	4.0	9.3	11.3	12.0	15.0	12.0	11.3	9.3	4.0	9.3	11.3
69.5°	2.8	5.5	7.5	7.0	9.5	7.0	7.5	5.5	2.8	5.5	7.5
70°	2.3	3.3	4.0	3.8	4.3	3.8	4.0	3.3	2.3	3.3	4.0
70.5°	1.5	2.0	2.5	2.5	2.0	2.5	2.5	2.0	1.5	2.0	2.5
71°	1.3	1.5	2.0	2.0	1.8	2.0	2.0	1.5	1.3	1.5	2.0
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: P776127

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-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: P776127

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
0.5°	1242.4	1241.7	1242.4	1242.2	1241.7	1241.7
1°	1242.2	1241.7	1242.2	1241.9	1241.7	1241.4
1.5°	1241.9	1241.4	1241.9	1241.7	1241.4	1241.2
2°	1241.7	1241.2	1241.7	1241.4	1240.9	1240.9
2.5°	1241.2	1240.7	1241.2	1240.9	1240.7	1240.4
3°	1240.9	1240.2	1240.9	1240.7	1240.2	1240.2
3.5°	1240.2	1239.7	1240.2	1240.2	1239.7	1239.7
4°	1239.7	1238.9	1239.7	1239.4	1239.2	1238.9
4.5°	1238.9	1238.4	1238.9	1238.7	1238.4	1238.2
5°	1238.2	1237.7	1238.2	1237.9	1237.7	1237.4
5.5°	1237.4	1236.9	1237.4	1237.2	1236.9	1236.7
6°	1236.4	1235.9	1236.4	1236.2	1235.9	1235.7
6.5°	1235.4	1234.7	1235.4	1235.2	1234.9	1234.7
7°	1234.2	1233.4	1234.2	1233.9	1233.6	1233.6
7.5°	1232.6	1232.1	1232.6	1232.6	1232.4	1232.4
8°	1231.4	1230.9	1231.4	1231.1	1231.1	1230.9
8.5°	1229.9	1229.4	1229.9	1229.9	1229.6	1229.4
9°	1228.4	1227.9	1228.4	1228.4	1228.1	1228.1
9.5°	1226.9	1226.4	1226.9	1226.6	1226.6	1226.4
10°	1225.1	1224.6	1225.1	1225.1	1224.9	1224.9
10.5°	1223.4	1222.9	1223.4	1223.4	1223.1	1223.1
11°	1221.6	1220.9	1221.6	1221.6	1221.4	1221.4
11.5°	1219.6	1219.1	1219.6	1219.6	1219.4	1219.4
12°	1217.6	1217.1	1217.6	1217.6	1217.6	1217.6
12.5°	1215.6	1215.1	1215.6	1215.6	1215.6	1215.6
13°	1213.6	1213.1	1213.6	1213.8	1213.6	1213.8
13.5°	1211.6	1210.8	1211.6	1211.6	1211.6	1211.8
14°	1209.6	1208.8	1209.6	1209.6	1209.8	1209.8
14.5°	1207.6	1206.8	1207.6	1207.6	1207.8	1207.8
15°	1205.6	1204.8	1205.6	1205.6	1205.8	1206.1
15.5°	1203.6	1203.1	1203.6	1203.8	1204.1	1204.3
16°	1202.1	1201.5	1202.1	1202.6	1202.8	1203.1
16.5°	1200.8	1200.5	1200.8	1201.5	1201.8	1202.1
17°	1200.3	1199.8	1200.3	1201.0	1201.3	1201.3
17.5°	1200.0	1199.8	1200.0	1200.5	1201.0	1201.0
18°	1200.3	1199.8	1200.3	1200.5	1201.0	1201.0
18.5°	1200.3	1199.8	1200.3	1200.8	1201.0	1201.0
19°	1200.8	1200.3	1200.8	1201.0	1201.3	1201.3
19.5°	1201.0	1200.5	1201.0	1201.3	1201.5	1201.5
20°	1201.3	1201.0	1201.3	1201.5	1201.8	1201.8
20.5°	1201.8	1201.3	1201.8	1201.8	1201.8	1202.1
21°	1202.1	1201.8	1202.1	1202.1	1202.1	1202.1



TEST NUMBER: P776127

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1202.6	1202.6	1202.6	1202.3	1202.3	1202.6
23°	1202.8	1202.6	1202.8	1202.3	1202.3	1202.6
23.5°	1202.6	1202.6	1202.6	1202.1	1202.3	1202.6
24°	1202.6	1202.6	1202.6	1201.8	1202.1	1202.3
24.5°	1202.6	1202.6	1202.6	1201.8	1201.8	1202.3
25°	1202.3	1202.3	1202.3	1201.5	1201.5	1202.1
25.5°	1202.3	1202.3	1202.3	1201.3	1201.3	1201.8
26°	1202.1	1202.1	1202.1	1200.8	1201.0	1201.3
26.5°	1201.8	1201.8	1201.8	1200.5	1200.8	1201.0
27°	1201.5	1201.8	1201.5	1200.3	1200.5	1201.0
27.5°	1201.5	1201.8	1201.5	1200.3	1200.8	1201.0
28°	1201.8	1202.1	1201.8	1200.5	1200.8	1201.3
28.5°	1202.1	1202.3	1202.1	1200.5	1201.0	1201.5
29°	1202.3	1202.3	1202.3	1200.5	1201.0	1201.5
29.5°	1202.1	1202.1	1202.1	1200.5	1200.8	1201.3
30°	1201.5	1201.5	1201.5	1200.0	1200.3	1200.5
30.5°	1200.8	1200.5	1200.8	1199.3	1199.3	1199.5
31°	1199.3	1199.0	1199.3	1197.8	1197.8	1198.0
31.5°	1197.5	1197.0	1197.5	1196.3	1196.0	1196.0
32°	1195.0	1194.5	1195.0	1193.8	1193.5	1193.3
32.5°	1192.0	1191.5	1192.0	1191.0	1190.5	1190.3
33°	1188.5	1187.8	1188.5	1187.8	1187.0	1186.8
33.5°	1184.5	1183.7	1184.5	1184.0	1183.0	1182.7
34°	1180.0	1179.0	1180.0	1179.7	1178.7	1178.0
34.5°	1175.0	1174.0	1175.0	1175.0	1173.7	1173.0
35°	1169.4	1168.2	1169.4	1169.7	1168.2	1167.4
35.5°	1163.7	1162.4	1163.7	1163.9	1162.7	1161.7
36°	1157.4	1155.9	1157.4	1157.9	1156.4	1155.4
36.5°	1150.6	1149.1	1150.6	1151.4	1149.9	1148.6
37°	1143.4	1141.6	1143.4	1144.1	1142.6	1141.4
37.5°	1135.3	1133.6	1135.3	1136.1	1135.1	1133.6
38°	1126.8	1125.1	1126.8	1127.8	1126.6	1125.1
38.5°	1117.5	1115.5	1117.5	1118.8	1117.5	1115.8
39°	1107.5	1105.5	1107.5	1108.8	1108.0	1106.0
39.5°	1096.5	1094.5	1096.5	1098.0	1097.5	1095.7
40°	1084.9	1083.2	1084.9	1086.4	1085.9	1084.4
40.5°	1072.6	1070.6	1072.6	1074.1	1073.9	1072.6
41°	1059.3	1057.8	1059.3	1060.9	1061.1	1060.1
41.5°	1045.6	1044.3	1045.6	1047.1	1047.6	1046.8
42°	1031.0	1030.3	1031.0	1032.3	1033.3	1033.0
42.5°	1016.0	1015.2	1016.0	1017.0	1018.5	1018.7
43°	1000.2	999.7	1000.2	1000.9	1002.7	1003.4
43.5°	983.6	983.4	983.6	983.9	986.4	987.4



TEST NUMBER: P776127

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	929.4	930.2	929.4	929.4	932.9	935.2
45.5°	910.1	910.9	910.1	909.6	913.6	916.1
46°	890.1	891.3	890.1	889.6	893.6	896.1
46.5°	869.2	870.5	869.2	868.7	872.8	875.0
47°	847.4	848.4	847.4	846.9	850.7	852.9
47.5°	823.1	824.1	823.1	822.3	826.1	828.4
48°	798.3	799.3	798.3	797.0	800.0	802.0
48.5°	774.7	776.0	774.7	773.7	776.5	777.5
49°	753.1	753.9	753.1	752.4	753.9	754.4
49.5°	731.1	731.6	731.1	730.6	731.3	731.6
50°	709.0	709.7	709.0	708.2	708.2	708.5
50.5°	687.4	687.9	687.4	686.9	687.2	686.9
51°	667.6	667.1	667.6	667.1	667.4	667.4
51.5°	648.8	649.1	648.8	648.3	648.6	648.8
52°	631.7	632.5	631.7	631.0	631.0	631.0
52.5°	615.7	616.4	615.7	614.7	614.9	614.7
53°	601.2	601.7	601.2	599.9	599.9	600.1
53.5°	587.4	587.9	587.4	586.4	586.4	586.4
54°	573.8	573.8	573.8	572.8	572.8	573.1
54.5°	559.5	559.8	559.5	558.8	558.8	558.8
55°	544.2	544.2	544.2	543.0	543.0	543.0
55.5°	526.7	526.2	526.7	524.9	524.7	524.7
56°	506.6	506.4	506.6	505.1	504.3	503.8
56.5°	485.0	485.0	485.0	483.5	482.5	482.3
57°	462.5	462.0	462.5	461.0	459.7	459.5
57.5°	439.1	439.1	439.1	437.1	436.1	435.6
58°	415.6	416.1	415.6	413.3	411.8	411.8
58.5°	391.5	392.5	391.5	388.7	387.5	386.7
59°	366.9	368.2	366.9	364.2	362.6	361.6
59.5°	342.8	344.3	342.8	339.3	337.6	336.3
60°	318.5	320.0	318.5	315.2	313.0	311.5
60.5°	294.9	296.4	294.9	291.4	288.4	286.7
61°	271.4	272.6	271.4	268.1	264.6	262.3
61.5°	248.5	249.5	248.5	245.5	241.3	239.3
62°	225.7	227.0	225.7	223.0	218.7	216.2
62.5°	203.6	205.7	203.6	201.1	196.4	193.6
63°	182.3	184.3	182.3	179.8	174.6	171.3
63.5°	161.8	163.8	161.8	159.0	153.2	150.5
64°	141.9	143.5	141.9	138.9	133.7	130.7
64.5°	122.6	123.9	122.6	119.9	114.9	111.6
65°	105.6	107.1	105.6	102.6	97.1	93.5
65.5°	89.0	91.0	89.0	85.8	81.3	77.5
66°	73.5	75.5	73.5	70.2	67.0	61.9



TEST NUMBER: P776127

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	36.1	36.6	36.1	34.9	32.1	24.8
68°	27.1	28.3	27.1	25.6	23.1	15.0
68.5°	18.3	20.8	18.3	16.8	15.3	6.5
69°	12.0	15.0	12.0	11.3	9.3	4.0
69.5°	7.0	9.5	7.0	7.5	5.5	2.8
70°	3.8	4.3	3.8	4.0	3.3	2.3
70.5°	2.5	2.0	2.5	2.5	2.0	1.5
71°	2.0	1.8	2.0	2.0	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: P776127

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1202.3	1202.3	1202.1	1202.3	1202.1	1202.3	1202.1	1202.3	1202.3	1202.3	1202.1
22°	1202.6	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.6	1202.3	1202.3



44°	970.6	969.3	966.3	966.1	966.3	966.1	966.3	969.3	970.6	969.3	966.3
44.5°	953.3	951.8	948.2	948.2	948.5	948.2	948.2	951.8	953.3	951.8	948.2



66.5°	49.7	53.7	57.2	59.7	60.4	59.7	57.2	53.7	49.7	53.7	57.2
67°	37.1	41.9	44.6	47.1	47.7	47.1	44.6	41.9	37.1	41.9	44.6



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°	1202.3	1202.1	1202.3	1202.1	1202.3	1202.3
22°	1202.3	1202.3	1202.3	1202.3	1202.3	1202.6



44°	966.1	966.3	966.1	966.3	969.3	970.6
44.5°	948.2	948.5	948.2	948.2	951.8	953.3



66.5°	59.7	60.4	59.7	57.2	53.7	49.7
67°	47.1	47.7	47.1	44.6	41.9	37.1

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Peachtree City, GA 30269

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

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Scaled Data Report



(END OF REPORT)