

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: P776128

Luminaire Tested: HCDJBS1525CSD-HCD81TRC-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776128
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-4000K
Description: 8 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

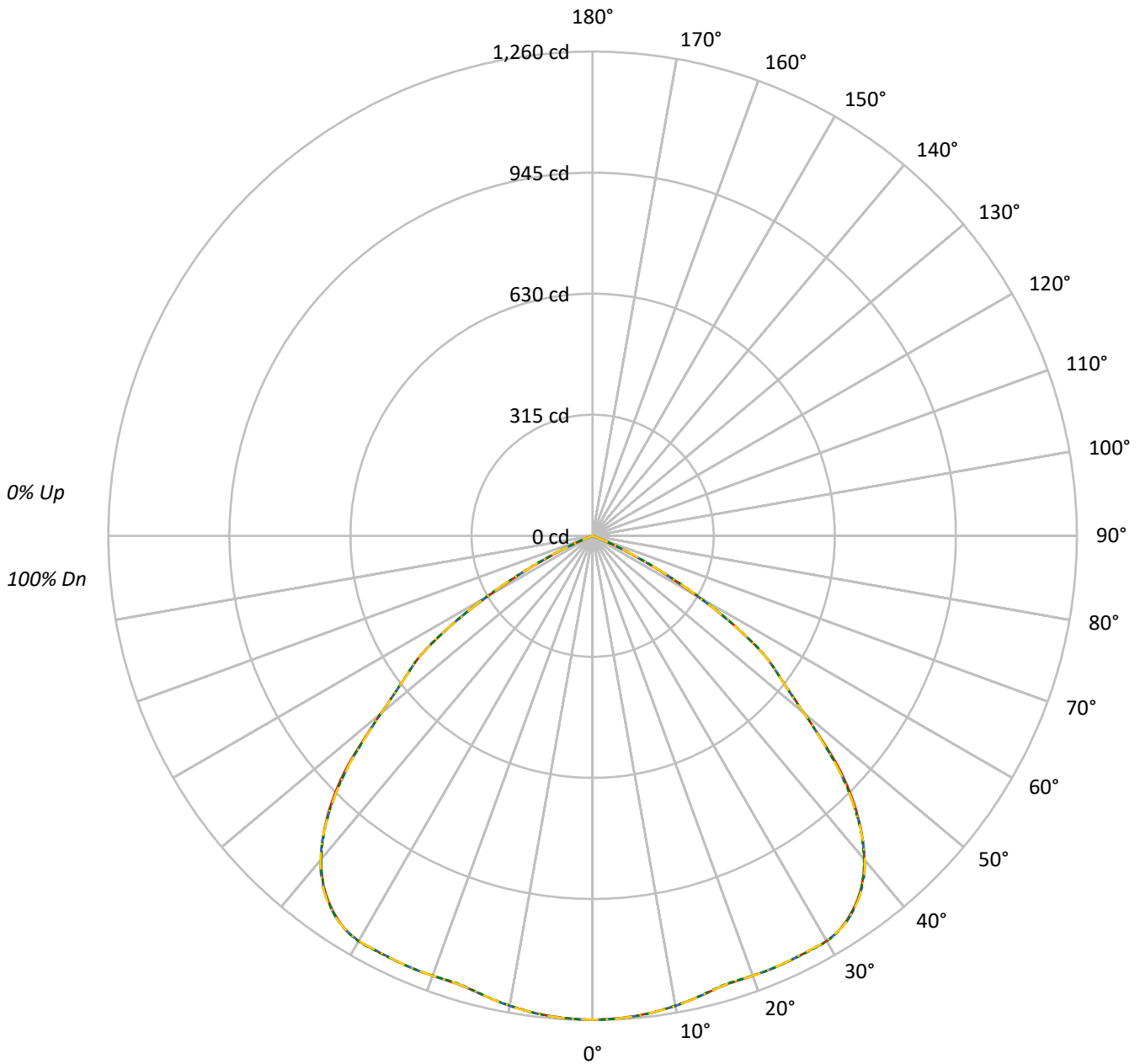
Lumens per Lamp: N/A
Luminaire Lumens: 3082.4 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.44
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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				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			100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			60
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52			52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46			46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	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	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30			30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	38447	38447	38447	38447
5°	38456	38462	38456	38462
10°	38504	38497	38504	38497
15°	38656	38615	38656	38615
20°	39592	39569	39592	39569
25°	41060	41067	41060	41067
30°	42917	42953	42917	42953
35°	44121	44151	44121	44151
40°	43824	43776	43824	43776
45°	40944	40724	40944	40724
50°	34122	34183	34122	34183
55°	29307	29371	29307	29371
60°	19283	19814	19283	19814
65°	6856	7845	6856	7845
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: 40944 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.9
10°-20°	347.0	11.3
20°-30°	564.0	18.3
30°-40°	737.8	23.9
40°-50°	716.8	23.3
50°-60°	476.2	15.4
60°-70°	119.9	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°	1030.4	33.4
0°-40°	1768.2	57.4
0°-60°	2961.2	96.1
0°-90°	3082.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3082.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1255	1255	1255	1255	1255	119
15°	1223	1222	1223	1222	1223	347
25°	1219	1219	1219	1219	1219	564
35°	1184	1185	1184	1185	1184	737
45°	948	943	948	943	948	719
55°	551	552	551	552	551	475
65°	95	109	95	109	95	113
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
0.5°	1259.1	1259.1	1259.6	1259.8	1259.1	1259.8	1259.6	1259.1	1259.1	1259.1	1259.6
1°	1258.8	1259.1	1259.3	1259.6	1259.1	1259.6	1259.3	1259.1	1258.8	1259.1	1259.3
1.5°	1258.6	1258.8	1259.1	1259.3	1258.8	1259.3	1259.1	1258.8	1258.6	1258.8	1259.1
2°	1258.3	1258.3	1258.8	1259.1	1258.6	1259.1	1258.8	1258.3	1258.3	1258.3	1258.8
2.5°	1257.8	1258.1	1258.3	1258.6	1258.1	1258.6	1258.3	1258.1	1257.8	1258.1	1258.3
3°	1257.6	1257.6	1258.1	1258.3	1257.6	1258.3	1258.1	1257.6	1257.6	1257.6	1258.1
3.5°	1257.0	1257.0	1257.6	1257.6	1257.0	1257.6	1257.6	1257.0	1257.0	1257.0	1257.6
4°	1256.3	1256.5	1256.8	1257.0	1256.3	1257.0	1256.8	1256.5	1256.3	1256.5	1256.8
4.5°	1255.5	1255.8	1256.0	1256.3	1255.8	1256.3	1256.0	1255.8	1255.5	1255.8	1256.0
5°	1254.8	1255.0	1255.3	1255.5	1255.0	1255.5	1255.3	1255.0	1254.8	1255.0	1255.3
5.5°	1254.0	1254.2	1254.5	1254.8	1254.2	1254.8	1254.5	1254.2	1254.0	1254.2	1254.5
6°	1253.0	1253.2	1253.5	1253.7	1253.2	1253.7	1253.5	1253.2	1253.0	1253.2	1253.5
6.5°	1252.0	1252.2	1252.5	1252.7	1252.0	1252.7	1252.5	1252.2	1252.0	1252.2	1252.5
7°	1250.9	1250.9	1251.2	1251.4	1250.7	1251.4	1251.2	1250.9	1250.9	1250.9	1251.2
7.5°	1249.7	1249.7	1249.9	1249.9	1249.4	1249.9	1249.9	1249.7	1249.7	1249.7	1249.9
8°	1248.1	1248.4	1248.4	1248.6	1248.1	1248.6	1248.4	1248.4	1248.1	1248.4	1248.4
8.5°	1246.6	1246.9	1247.1	1247.1	1246.6	1247.1	1247.1	1246.9	1246.6	1246.9	1247.1
9°	1245.3	1245.3	1245.6	1245.6	1245.1	1245.6	1245.6	1245.3	1245.3	1245.3	1245.6
9.5°	1243.6	1243.8	1243.8	1244.1	1243.6	1244.1	1243.8	1243.8	1243.6	1243.8	1243.8
10°	1242.0	1242.0	1242.3	1242.3	1241.8	1242.3	1242.3	1242.0	1242.0	1242.0	1242.3
10.5°	1240.3	1240.3	1240.5	1240.5	1240.0	1240.5	1240.5	1240.3	1240.3	1240.3	1240.5
11°	1238.5	1238.5	1238.7	1238.7	1238.0	1238.7	1238.7	1238.5	1238.5	1238.5	1238.7
11.5°	1236.4	1236.4	1236.7	1236.7	1236.2	1236.7	1236.7	1236.4	1236.4	1236.4	1236.7
12°	1234.7	1234.7	1234.7	1234.7	1234.2	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7
12.5°	1232.6	1232.6	1232.6	1232.6	1232.1	1232.6	1232.6	1232.6	1232.6	1232.6	1232.6
13°	1230.8	1230.6	1230.8	1230.6	1230.1	1230.6	1230.8	1230.6	1230.8	1230.6	1230.8
13.5°	1228.8	1228.6	1228.6	1228.6	1227.8	1228.6	1228.6	1228.6	1228.8	1228.6	1228.6
14°	1226.8	1226.8	1226.5	1226.5	1225.8	1226.5	1226.5	1226.8	1226.8	1226.8	1226.5
14.5°	1224.7	1224.7	1224.5	1224.5	1223.7	1224.5	1224.5	1224.7	1224.7	1224.7	1224.5
15°	1223.0	1222.7	1222.5	1222.5	1221.7	1222.5	1222.5	1222.7	1223.0	1222.7	1222.5
15.5°	1221.2	1220.9	1220.7	1220.4	1219.9	1220.4	1220.7	1220.9	1221.2	1220.9	1220.7
16°	1219.9	1219.7	1219.4	1218.9	1218.4	1218.9	1219.4	1219.7	1219.9	1219.7	1219.4
16.5°	1218.9	1218.6	1218.4	1217.6	1217.4	1217.6	1218.4	1218.6	1218.9	1218.6	1218.4
17°	1218.1	1218.1	1217.9	1217.1	1216.6	1217.1	1217.9	1218.1	1218.1	1218.1	1217.9
17.5°	1217.9	1217.9	1217.4	1216.9	1216.6	1216.9	1217.4	1217.9	1217.9	1217.9	1217.4
18°	1217.9	1217.9	1217.4	1217.1	1216.6	1217.1	1217.4	1217.9	1217.9	1217.9	1217.4
18.5°	1217.9	1217.9	1217.6	1217.1	1216.6	1217.1	1217.6	1217.9	1217.9	1217.9	1217.6
19°	1218.1	1218.1	1217.9	1217.6	1217.1	1217.6	1217.9	1218.1	1218.1	1218.1	1217.9
19.5°	1218.4	1218.4	1218.1	1217.9	1217.4	1217.9	1218.1	1218.4	1218.4	1218.4	1218.1
20°	1218.6	1218.6	1218.4	1218.1	1217.9	1218.1	1218.4	1218.6	1218.6	1218.6	1218.4
20.5°	1218.9	1218.6	1218.6	1218.6	1218.1	1218.6	1218.6	1218.6	1218.9	1218.6	1218.6
21°	1218.9	1218.9	1218.9	1218.9	1218.6	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9



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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°	1219.4	1219.1	1219.1	1219.4	1219.4	1219.4	1219.1	1219.1	1219.4	1219.1	1219.1
23°	1219.4	1219.1	1219.1	1219.7	1219.4	1219.7	1219.1	1219.1	1219.4	1219.1	1219.1
23.5°	1219.4	1219.1	1218.9	1219.4	1219.4	1219.4	1218.9	1219.1	1219.4	1219.1	1218.9
24°	1219.1	1218.9	1218.6	1219.4	1219.4	1219.4	1218.6	1218.9	1219.1	1218.9	1218.6
24.5°	1219.1	1218.6	1218.6	1219.4	1219.4	1219.4	1218.6	1218.6	1219.1	1218.6	1218.6
25°	1218.9	1218.4	1218.4	1219.1	1219.1	1219.1	1218.4	1218.4	1218.9	1218.4	1218.4
25.5°	1218.6	1218.1	1218.1	1219.1	1219.1	1219.1	1218.1	1218.1	1218.6	1218.1	1218.1
26°	1218.1	1217.9	1217.6	1218.9	1218.9	1218.9	1217.6	1217.9	1218.1	1217.9	1217.6
26.5°	1217.9	1217.6	1217.4	1218.6	1218.6	1218.6	1217.4	1217.6	1217.9	1217.6	1217.4
27°	1217.9	1217.4	1217.1	1218.4	1218.6	1218.4	1217.1	1217.4	1217.9	1217.4	1217.1
27.5°	1217.9	1217.6	1217.1	1218.4	1218.6	1218.4	1217.1	1217.6	1217.9	1217.6	1217.1
28°	1218.1	1217.6	1217.4	1218.6	1218.9	1218.6	1217.4	1217.6	1218.1	1217.6	1217.4
28.5°	1218.4	1217.9	1217.4	1218.9	1219.1	1218.9	1217.4	1217.9	1218.4	1217.9	1217.4
29°	1218.4	1217.9	1217.4	1219.1	1219.1	1219.1	1217.4	1217.9	1218.4	1217.9	1217.4
29.5°	1218.1	1217.6	1217.4	1218.9	1218.9	1218.9	1217.4	1217.6	1218.1	1217.6	1217.4
30°	1217.4	1217.1	1216.9	1218.4	1218.4	1218.4	1216.9	1217.1	1217.4	1217.1	1216.9
30.5°	1216.4	1216.1	1216.1	1217.6	1217.4	1217.6	1216.1	1216.1	1216.4	1216.1	1216.1
31°	1214.8	1214.6	1214.6	1216.1	1215.8	1216.1	1214.6	1214.6	1214.8	1214.6	1214.6
31.5°	1212.8	1212.8	1213.0	1214.3	1213.8	1214.3	1213.0	1212.8	1212.8	1212.8	1213.0
32°	1210.0	1210.2	1210.5	1211.8	1211.3	1211.8	1210.5	1210.2	1210.0	1210.2	1210.5
32.5°	1206.9	1207.2	1207.7	1208.7	1208.2	1208.7	1207.7	1207.2	1206.9	1207.2	1207.7
33°	1203.4	1203.6	1204.4	1205.2	1204.4	1205.2	1204.4	1203.6	1203.4	1203.6	1204.4
33.5°	1199.3	1199.6	1200.6	1201.1	1200.3	1201.1	1200.6	1199.6	1199.3	1199.6	1200.6
34°	1194.5	1195.2	1196.3	1196.5	1195.5	1196.5	1196.3	1195.2	1194.5	1195.2	1196.3
34.5°	1189.4	1190.2	1191.4	1191.4	1190.4	1191.4	1191.4	1190.2	1189.4	1190.2	1191.4
35°	1183.8	1184.6	1186.1	1185.8	1184.6	1185.8	1186.1	1184.6	1183.8	1184.6	1186.1
35.5°	1178.0	1179.0	1180.2	1180.0	1178.7	1180.0	1180.2	1179.0	1178.0	1179.0	1180.2
36°	1171.6	1172.6	1174.1	1173.6	1172.1	1173.6	1174.1	1172.6	1171.6	1172.6	1174.1
36.5°	1164.7	1166.0	1167.5	1166.8	1165.2	1166.8	1167.5	1166.0	1164.7	1166.0	1167.5
37°	1157.4	1158.6	1160.2	1159.4	1157.6	1159.4	1160.2	1158.6	1157.4	1158.6	1160.2
37.5°	1149.5	1151.0	1152.0	1151.2	1149.5	1151.2	1152.0	1151.0	1149.5	1151.0	1152.0
38°	1140.8	1142.3	1143.6	1142.6	1140.8	1142.6	1143.6	1142.3	1140.8	1142.3	1143.6
38.5°	1131.4	1133.2	1134.5	1133.2	1131.2	1133.2	1134.5	1133.2	1131.4	1133.2	1134.5
39°	1121.5	1123.5	1124.3	1123.0	1121.0	1123.0	1124.3	1123.5	1121.5	1123.5	1124.3
39.5°	1111.1	1112.8	1113.4	1111.8	1109.8	1111.8	1113.4	1112.8	1111.1	1112.8	1113.4
40°	1099.6	1101.2	1101.7	1100.1	1098.4	1100.1	1101.7	1101.2	1099.6	1101.2	1101.7
40.5°	1087.7	1088.9	1089.2	1087.7	1085.6	1087.7	1089.2	1088.9	1087.7	1088.9	1089.2
41°	1075.0	1076.0	1075.7	1074.2	1072.7	1074.2	1075.7	1076.0	1075.0	1076.0	1075.7
41.5°	1061.5	1062.2	1061.7	1060.2	1058.9	1060.2	1061.7	1062.2	1061.5	1062.2	1061.7
42°	1047.5	1047.7	1046.7	1045.5	1044.7	1045.5	1046.7	1047.7	1047.5	1047.7	1046.7
42.5°	1033.0	1032.7	1031.2	1030.2	1029.4	1030.2	1031.2	1032.7	1033.0	1032.7	1031.2
43°	1017.5	1016.7	1014.9	1014.2	1013.7	1014.2	1014.9	1016.7	1017.5	1016.7	1014.9
43.5°	1001.2	1000.2	997.6	997.4	997.1	997.4	997.6	1000.2	1001.2	1000.2	997.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	948.3	946.0	942.5	942.5	943.2	942.5	942.5	946.0	948.3	946.0	942.5
45.5°	929.0	926.4	922.4	922.9	923.6	922.9	922.4	926.4	929.0	926.4	922.4
46°	908.6	906.1	902.0	902.5	903.8	902.5	902.0	906.1	908.6	906.1	902.0
46.5°	887.3	885.0	880.9	881.4	882.7	881.4	880.9	885.0	887.3	885.0	880.9
47°	864.9	862.6	858.8	859.3	860.3	859.3	858.8	862.6	864.9	862.6	858.8
47.5°	840.0	837.7	833.9	834.6	835.7	834.6	833.9	837.7	840.0	837.7	833.9
48°	813.3	811.2	808.2	809.5	810.5	809.5	808.2	811.2	813.3	811.2	808.2
48.5°	788.4	787.3	784.5	785.6	786.8	785.6	784.5	787.3	788.4	787.3	784.5
49°	765.0	764.4	762.9	763.7	764.4	763.7	762.9	764.4	765.0	764.4	762.9
49.5°	741.8	741.6	740.8	741.3	741.8	741.3	740.8	741.6	741.8	741.6	740.8
50°	718.4	718.2	718.2	718.9	719.7	718.9	718.2	718.2	718.4	718.2	718.2
50.5°	696.5	696.8	696.5	697.1	697.6	697.1	696.5	696.8	696.5	696.8	696.5
51°	676.7	676.7	676.5	677.0	676.5	677.0	676.5	676.7	676.7	676.7	676.5
51.5°	657.9	657.6	657.4	657.9	658.1	657.9	657.4	657.6	657.9	657.6	657.4
52°	639.8	639.8	639.8	640.6	641.4	640.6	639.8	639.8	639.8	639.8	639.8
52.5°	623.3	623.6	623.3	624.3	625.1	624.3	623.3	623.6	623.3	623.6	623.3
53°	608.6	608.3	608.3	609.6	610.1	609.6	608.3	608.3	608.6	608.3	608.3
53.5°	594.6	594.6	594.6	595.6	596.1	595.6	594.6	594.6	594.6	594.6	594.6
54°	581.1	580.8	580.8	581.9	581.9	581.9	580.8	580.8	581.1	580.8	580.8
54.5°	566.6	566.6	566.6	567.4	567.6	567.4	566.6	566.6	566.6	566.6	566.6
55°	550.6	550.6	550.6	551.8	551.8	551.8	550.6	550.6	550.6	550.6	550.6
55.5°	532.0	532.0	532.3	534.0	533.5	534.0	532.3	532.0	532.0	532.0	532.3
56°	510.9	511.4	512.2	513.7	513.4	513.7	512.2	511.4	510.9	511.4	512.2
56.5°	489.0	489.3	490.3	491.8	491.8	491.8	490.3	489.3	489.0	489.3	490.3
57°	465.9	466.1	467.4	468.9	468.4	468.9	467.4	466.1	465.9	466.1	467.4
57.5°	441.7	442.2	443.3	445.3	445.3	445.3	443.3	442.2	441.7	442.2	443.3
58°	417.6	417.6	419.1	421.4	421.9	421.4	419.1	417.6	417.6	417.6	419.1
58.5°	392.1	392.9	394.2	397.0	398.0	397.0	394.2	392.9	392.1	392.9	394.2
59°	366.7	367.7	369.3	372.1	373.3	372.1	369.3	367.7	366.7	367.7	369.3
59.5°	341.0	342.3	344.1	347.6	349.2	347.6	344.1	342.3	341.0	342.3	344.1
60°	315.8	317.4	319.7	323.0	324.5	323.0	319.7	317.4	315.8	317.4	319.7
60.5°	290.7	292.5	295.5	299.1	300.6	299.1	295.5	292.5	290.7	292.5	295.5
61°	266.0	268.3	271.9	275.2	276.4	275.2	271.9	268.3	266.0	268.3	271.9
61.5°	242.6	244.6	249.0	252.0	253.0	252.0	249.0	244.6	242.6	244.6	249.0
62°	219.2	221.8	226.1	228.9	230.1	228.9	226.1	221.8	219.2	221.8	226.1
62.5°	196.3	199.1	204.0	206.5	208.5	206.5	204.0	199.1	196.3	199.1	204.0
63°	173.7	177.0	182.3	184.9	186.9	184.9	182.3	177.0	173.7	177.0	182.3
63.5°	152.6	155.4	161.2	164.0	166.1	164.0	161.2	155.4	152.6	155.4	161.2
64°	132.5	135.5	140.9	143.9	145.5	143.9	140.9	135.5	132.5	135.5	140.9
64.5°	113.2	116.5	121.6	124.4	125.6	124.4	121.6	116.5	113.2	116.5	121.6
65°	94.9	98.4	104.0	107.1	108.6	107.1	104.0	98.4	94.9	98.4	104.0
65.5°	78.6	82.4	87.0	90.3	92.3	90.3	87.0	82.4	78.6	82.4	87.0
66°	62.8	67.9	71.2	74.5	76.5	74.5	71.2	67.9	62.8	67.9	71.2



TEST NUMBER: P776128

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	25.2	32.6	35.3	36.6	37.1	36.6	35.3	32.6	25.2	32.6	35.3
68°	15.3	23.4	25.9	27.5	28.7	27.5	25.9	23.4	15.3	23.4	25.9
68.5°	6.6	15.5	17.0	18.6	21.1	18.6	17.0	15.5	6.6	15.5	17.0
69°	4.1	9.4	11.4	12.2	15.3	12.2	11.4	9.4	4.1	9.4	11.4
69.5°	2.8	5.6	7.6	7.1	9.7	7.1	7.6	5.6	2.8	5.6	7.6
70°	2.3	3.3	4.1	3.8	4.3	3.8	4.1	3.3	2.3	3.3	4.1
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: P776128
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-4000K

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: P776128

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
0.5°	1259.8	1259.1	1259.8	1259.6	1259.1	1259.1
1°	1259.6	1259.1	1259.6	1259.3	1259.1	1258.8
1.5°	1259.3	1258.8	1259.3	1259.1	1258.8	1258.6
2°	1259.1	1258.6	1259.1	1258.8	1258.3	1258.3
2.5°	1258.6	1258.1	1258.6	1258.3	1258.1	1257.8
3°	1258.3	1257.6	1258.3	1258.1	1257.6	1257.6
3.5°	1257.6	1257.0	1257.6	1257.6	1257.0	1257.0
4°	1257.0	1256.3	1257.0	1256.8	1256.5	1256.3
4.5°	1256.3	1255.8	1256.3	1256.0	1255.8	1255.5
5°	1255.5	1255.0	1255.5	1255.3	1255.0	1254.8
5.5°	1254.8	1254.2	1254.8	1254.5	1254.2	1254.0
6°	1253.7	1253.2	1253.7	1253.5	1253.2	1253.0
6.5°	1252.7	1252.0	1252.7	1252.5	1252.2	1252.0
7°	1251.4	1250.7	1251.4	1251.2	1250.9	1250.9
7.5°	1249.9	1249.4	1249.9	1249.9	1249.7	1249.7
8°	1248.6	1248.1	1248.6	1248.4	1248.4	1248.1
8.5°	1247.1	1246.6	1247.1	1247.1	1246.9	1246.6
9°	1245.6	1245.1	1245.6	1245.6	1245.3	1245.3
9.5°	1244.1	1243.6	1244.1	1243.8	1243.8	1243.6
10°	1242.3	1241.8	1242.3	1242.3	1242.0	1242.0
10.5°	1240.5	1240.0	1240.5	1240.5	1240.3	1240.3
11°	1238.7	1238.0	1238.7	1238.7	1238.5	1238.5
11.5°	1236.7	1236.2	1236.7	1236.7	1236.4	1236.4
12°	1234.7	1234.2	1234.7	1234.7	1234.7	1234.7
12.5°	1232.6	1232.1	1232.6	1232.6	1232.6	1232.6
13°	1230.6	1230.1	1230.6	1230.8	1230.6	1230.8
13.5°	1228.6	1227.8	1228.6	1228.6	1228.6	1228.8
14°	1226.5	1225.8	1226.5	1226.5	1226.8	1226.8
14.5°	1224.5	1223.7	1224.5	1224.5	1224.7	1224.7
15°	1222.5	1221.7	1222.5	1222.5	1222.7	1223.0
15.5°	1220.4	1219.9	1220.4	1220.7	1220.9	1221.2
16°	1218.9	1218.4	1218.9	1219.4	1219.7	1219.9
16.5°	1217.6	1217.4	1217.6	1218.4	1218.6	1218.9
17°	1217.1	1216.6	1217.1	1217.9	1218.1	1218.1
17.5°	1216.9	1216.6	1216.9	1217.4	1217.9	1217.9
18°	1217.1	1216.6	1217.1	1217.4	1217.9	1217.9
18.5°	1217.1	1216.6	1217.1	1217.6	1217.9	1217.9
19°	1217.6	1217.1	1217.6	1217.9	1218.1	1218.1
19.5°	1217.9	1217.4	1217.9	1218.1	1218.4	1218.4
20°	1218.1	1217.9	1218.1	1218.4	1218.6	1218.6
20.5°	1218.6	1218.1	1218.6	1218.6	1218.6	1218.9
21°	1218.9	1218.6	1218.9	1218.9	1218.9	1218.9



TEST NUMBER: P776128

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1219.4	1219.4	1219.4	1219.1	1219.1	1219.4
23°	1219.7	1219.4	1219.7	1219.1	1219.1	1219.4
23.5°	1219.4	1219.4	1219.4	1218.9	1219.1	1219.4
24°	1219.4	1219.4	1219.4	1218.6	1218.9	1219.1
24.5°	1219.4	1219.4	1219.4	1218.6	1218.6	1219.1
25°	1219.1	1219.1	1219.1	1218.4	1218.4	1218.9
25.5°	1219.1	1219.1	1219.1	1218.1	1218.1	1218.6
26°	1218.9	1218.9	1218.9	1217.6	1217.9	1218.1
26.5°	1218.6	1218.6	1218.6	1217.4	1217.6	1217.9
27°	1218.4	1218.6	1218.4	1217.1	1217.4	1217.9
27.5°	1218.4	1218.6	1218.4	1217.1	1217.6	1217.9
28°	1218.6	1218.9	1218.6	1217.4	1217.6	1218.1
28.5°	1218.9	1219.1	1218.9	1217.4	1217.9	1218.4
29°	1219.1	1219.1	1219.1	1217.4	1217.9	1218.4
29.5°	1218.9	1218.9	1218.9	1217.4	1217.6	1218.1
30°	1218.4	1218.4	1218.4	1216.9	1217.1	1217.4
30.5°	1217.6	1217.4	1217.6	1216.1	1216.1	1216.4
31°	1216.1	1215.8	1216.1	1214.6	1214.6	1214.8
31.5°	1214.3	1213.8	1214.3	1213.0	1212.8	1212.8
32°	1211.8	1211.3	1211.8	1210.5	1210.2	1210.0
32.5°	1208.7	1208.2	1208.7	1207.7	1207.2	1206.9
33°	1205.2	1204.4	1205.2	1204.4	1203.6	1203.4
33.5°	1201.1	1200.3	1201.1	1200.6	1199.6	1199.3
34°	1196.5	1195.5	1196.5	1196.3	1195.2	1194.5
34.5°	1191.4	1190.4	1191.4	1191.4	1190.2	1189.4
35°	1185.8	1184.6	1185.8	1186.1	1184.6	1183.8
35.5°	1180.0	1178.7	1180.0	1180.2	1179.0	1178.0
36°	1173.6	1172.1	1173.6	1174.1	1172.6	1171.6
36.5°	1166.8	1165.2	1166.8	1167.5	1166.0	1164.7
37°	1159.4	1157.6	1159.4	1160.2	1158.6	1157.4
37.5°	1151.2	1149.5	1151.2	1152.0	1151.0	1149.5
38°	1142.6	1140.8	1142.6	1143.6	1142.3	1140.8
38.5°	1133.2	1131.2	1133.2	1134.5	1133.2	1131.4
39°	1123.0	1121.0	1123.0	1124.3	1123.5	1121.5
39.5°	1111.8	1109.8	1111.8	1113.4	1112.8	1111.1
40°	1100.1	1098.4	1100.1	1101.7	1101.2	1099.6
40.5°	1087.7	1085.6	1087.7	1089.2	1088.9	1087.7
41°	1074.2	1072.7	1074.2	1075.7	1076.0	1075.0
41.5°	1060.2	1058.9	1060.2	1061.7	1062.2	1061.5
42°	1045.5	1044.7	1045.5	1046.7	1047.7	1047.5
42.5°	1030.2	1029.4	1030.2	1031.2	1032.7	1033.0
43°	1014.2	1013.7	1014.2	1014.9	1016.7	1017.5
43.5°	997.4	997.1	997.4	997.6	1000.2	1001.2



TEST NUMBER: P776128

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	942.5	943.2	942.5	942.5	946.0	948.3
45.5°	922.9	923.6	922.9	922.4	926.4	929.0
46°	902.5	903.8	902.5	902.0	906.1	908.6
46.5°	881.4	882.7	881.4	880.9	885.0	887.3
47°	859.3	860.3	859.3	858.8	862.6	864.9
47.5°	834.6	835.7	834.6	833.9	837.7	840.0
48°	809.5	810.5	809.5	808.2	811.2	813.3
48.5°	785.6	786.8	785.6	784.5	787.3	788.4
49°	763.7	764.4	763.7	762.9	764.4	765.0
49.5°	741.3	741.8	741.3	740.8	741.6	741.8
50°	718.9	719.7	718.9	718.2	718.2	718.4
50.5°	697.1	697.6	697.1	696.5	696.8	696.5
51°	677.0	676.5	677.0	676.5	676.7	676.7
51.5°	657.9	658.1	657.9	657.4	657.6	657.9
52°	640.6	641.4	640.6	639.8	639.8	639.8
52.5°	624.3	625.1	624.3	623.3	623.6	623.3
53°	609.6	610.1	609.6	608.3	608.3	608.6
53.5°	595.6	596.1	595.6	594.6	594.6	594.6
54°	581.9	581.9	581.9	580.8	580.8	581.1
54.5°	567.4	567.6	567.4	566.6	566.6	566.6
55°	551.8	551.8	551.8	550.6	550.6	550.6
55.5°	534.0	533.5	534.0	532.3	532.0	532.0
56°	513.7	513.4	513.7	512.2	511.4	510.9
56.5°	491.8	491.8	491.8	490.3	489.3	489.0
57°	468.9	468.4	468.9	467.4	466.1	465.9
57.5°	445.3	445.3	445.3	443.3	442.2	441.7
58°	421.4	421.9	421.4	419.1	417.6	417.6
58.5°	397.0	398.0	397.0	394.2	392.9	392.1
59°	372.1	373.3	372.1	369.3	367.7	366.7
59.5°	347.6	349.2	347.6	344.1	342.3	341.0
60°	323.0	324.5	323.0	319.7	317.4	315.8
60.5°	299.1	300.6	299.1	295.5	292.5	290.7
61°	275.2	276.4	275.2	271.9	268.3	266.0
61.5°	252.0	253.0	252.0	249.0	244.6	242.6
62°	228.9	230.1	228.9	226.1	221.8	219.2
62.5°	206.5	208.5	206.5	204.0	199.1	196.3
63°	184.9	186.9	184.9	182.3	177.0	173.7
63.5°	164.0	166.1	164.0	161.2	155.4	152.6
64°	143.9	145.5	143.9	140.9	135.5	132.5
64.5°	124.4	125.6	124.4	121.6	116.5	113.2
65°	107.1	108.6	107.1	104.0	98.4	94.9
65.5°	90.3	92.3	90.3	87.0	82.4	78.6
66°	74.5	76.5	74.5	71.2	67.9	62.8



TEST NUMBER: P776128

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	36.6	37.1	36.6	35.3	32.6	25.2
68°	27.5	28.7	27.5	25.9	23.4	15.3
68.5°	18.6	21.1	18.6	17.0	15.5	6.6
69°	12.2	15.3	12.2	11.4	9.4	4.1
69.5°	7.1	9.7	7.1	7.6	5.6	2.8
70°	3.8	4.3	3.8	4.1	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: P776128
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-4000K

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°	1219.1	1219.1	1218.9	1219.1	1218.9	1219.1	1218.9	1219.1	1219.1	1219.1	1218.9
22°	1219.4	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.4	1219.1	1219.1



44°	984.2	982.9	979.8	979.6	979.8	979.6	979.8	982.9	984.2	982.9	979.8
44.5°	966.6	965.1	961.5	961.5	961.8	961.5	961.5	965.1	966.6	965.1	961.5



66.5°	50.4	54.4	58.0	60.5	61.3	60.5	58.0	54.4	50.4	54.4	58.0
67°	37.6	42.5	45.3	47.8	48.3	47.8	45.3	42.5	37.6	42.5	45.3



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°	1219.1	1218.9	1219.1	1218.9	1219.1	1219.1
22°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.4



44°	979.6	979.8	979.6	979.8	982.9	984.2
44.5°	961.5	961.8	961.5	961.5	965.1	966.6



66.5°	60.5	61.3	60.5	58.0	54.4	50.4
67°	47.8	48.3	47.8	45.3	42.5	37.6

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Peachtree City, GA 30269

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)