

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: P776126

Luminaire Tested: HCDJBS1525CSD-HCD81TRC-2500lm-3000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776126
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-3000K
Description: 8 INCH ROUND SHALLOW-WIDE SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

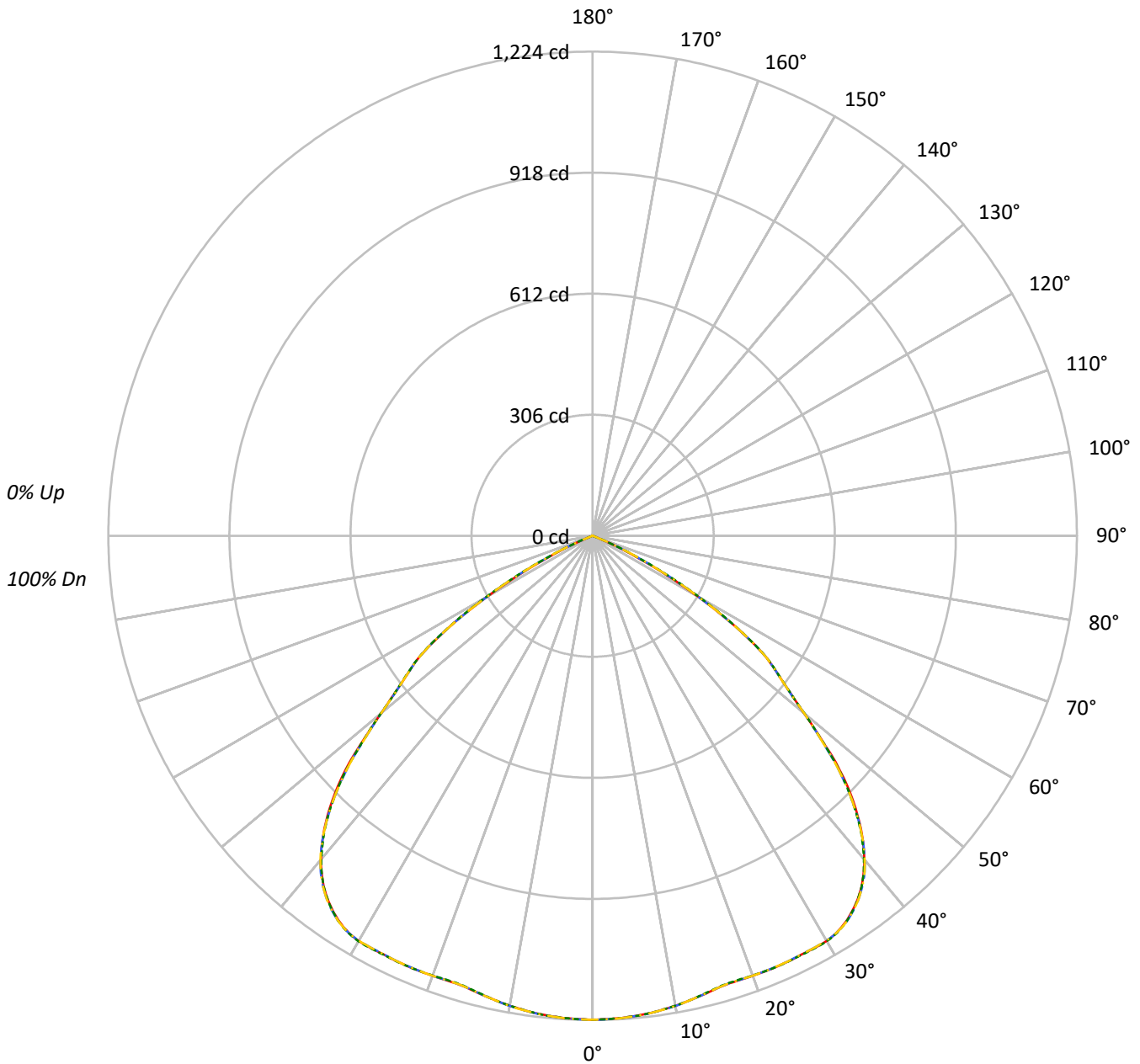
Lumens per Lamp: N/A
Luminaire Lumens: 2994.1 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.44
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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



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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°	37348	37348	37348	37348
5°	37352	37362	37352	37362
10°	37403	37394	37403	37394
15°	37549	37508	37549	37508
20°	38461	38435	38461	38435
25°	39885	39891	39885	39891
30°	41687	41722	41687	41722
35°	42857	42887	42857	42887
40°	42569	42521	42569	42521
45°	39774	39558	39774	39558
50°	33148	33205	33148	33205
55°	28466	28530	28466	28530
60°	18733	19246	18733	19246
65°	6653	7621	6653	7621
70°	196	375	196	375
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: 39774 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.9
10°-20°	337.0	11.3
20°-30°	547.9	18.3
30°-40°	716.7	23.9
40°-50°	696.3	23.3
50°-60°	462.6	15.4
60°-70°	116.5	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°	1000.9	33.4
0°-40°	1717.6	57.4
0°-60°	2876.5	96.1
0°-90°	2994.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1223	1223	1223	1223	1223	
5°	1219	1219	1219	1219	1219	116
15°	1188	1187	1188	1187	1188	337
25°	1184	1184	1184	1184	1184	548
35°	1150	1151	1150	1151	1150	716
45°	921	916	921	916	921	698
55°	535	536	535	536	535	462
65°	92	106	92	106	92	110
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°	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3
0.5°	1223.0	1223.0	1223.5	1223.8	1223.0	1223.8	1223.5	1223.0	1223.0	1223.0	1223.5
1°	1222.8	1223.0	1223.3	1223.5	1223.0	1223.5	1223.3	1223.0	1222.8	1223.0	1223.3
1.5°	1222.5	1222.8	1223.0	1223.3	1222.8	1223.3	1223.0	1222.8	1222.5	1222.8	1223.0
2°	1222.3	1222.3	1222.8	1223.0	1222.5	1223.0	1222.8	1222.3	1222.3	1222.3	1222.8
2.5°	1221.8	1222.0	1222.3	1222.5	1222.0	1222.5	1222.3	1222.0	1221.8	1222.0	1222.3
3°	1221.5	1221.5	1222.0	1222.3	1221.5	1222.3	1222.0	1221.5	1221.5	1221.5	1222.0
3.5°	1221.1	1221.1	1221.5	1221.5	1221.1	1221.5	1221.5	1221.1	1221.1	1221.1	1221.5
4°	1220.3	1220.6	1220.8	1221.1	1220.3	1221.1	1220.8	1220.6	1220.3	1220.6	1220.8
4.5°	1219.6	1219.8	1220.1	1220.3	1219.8	1220.3	1220.1	1219.8	1219.6	1219.8	1220.1
5°	1218.8	1219.1	1219.3	1219.6	1219.1	1219.6	1219.3	1219.1	1218.8	1219.1	1219.3
5.5°	1218.1	1218.3	1218.6	1218.8	1218.3	1218.8	1218.6	1218.3	1218.1	1218.3	1218.6
6°	1217.1	1217.3	1217.6	1217.8	1217.3	1217.8	1217.6	1217.3	1217.1	1217.3	1217.6
6.5°	1216.1	1216.4	1216.6	1216.9	1216.1	1216.9	1216.6	1216.4	1216.1	1216.4	1216.6
7°	1215.1	1215.1	1215.4	1215.6	1214.9	1215.6	1215.4	1215.1	1215.1	1215.1	1215.4
7.5°	1213.9	1213.9	1214.1	1214.1	1213.6	1214.1	1214.1	1213.9	1213.9	1213.9	1214.1
8°	1212.4	1212.7	1212.7	1212.9	1212.4	1212.9	1212.7	1212.7	1212.4	1212.7	1212.7
8.5°	1210.9	1211.2	1211.4	1211.4	1210.9	1211.4	1211.4	1211.2	1210.9	1211.2	1211.4
9°	1209.7	1209.7	1209.9	1209.9	1209.4	1209.9	1209.9	1209.7	1209.7	1209.7	1209.9
9.5°	1208.0	1208.2	1208.2	1208.5	1208.0	1208.5	1208.2	1208.2	1208.0	1208.2	1208.2
10°	1206.5	1206.5	1206.7	1206.7	1206.2	1206.7	1206.7	1206.5	1206.5	1206.5	1206.7
10.5°	1204.8	1204.8	1205.0	1205.0	1204.5	1205.0	1205.0	1204.8	1204.8	1204.8	1205.0
11°	1203.0	1203.0	1203.3	1203.3	1202.5	1203.3	1203.3	1203.0	1203.0	1203.0	1203.3
11.5°	1201.0	1201.0	1201.3	1201.3	1200.8	1201.3	1201.3	1201.0	1201.0	1201.0	1201.3
12°	1199.3	1199.3	1199.3	1199.3	1198.8	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3
12.5°	1197.3	1197.3	1197.3	1197.3	1196.8	1197.3	1197.3	1197.3	1197.3	1197.3	1197.3
13°	1195.6	1195.4	1195.6	1195.4	1194.9	1195.4	1195.6	1195.4	1195.6	1195.4	1195.6
13.5°	1193.6	1193.4	1193.4	1193.4	1192.6	1193.4	1193.4	1193.4	1193.6	1193.4	1193.4
14°	1191.7	1191.7	1191.4	1191.4	1190.7	1191.4	1191.4	1191.7	1191.7	1191.7	1191.4
14.5°	1189.7	1189.7	1189.4	1189.4	1188.7	1189.4	1189.4	1189.7	1189.7	1189.7	1189.4
15°	1188.0	1187.7	1187.5	1187.5	1186.7	1187.5	1187.5	1187.7	1188.0	1187.7	1187.5
15.5°	1186.2	1186.0	1185.7	1185.5	1185.0	1185.5	1185.7	1186.0	1186.2	1186.0	1185.7
16°	1185.0	1184.7	1184.5	1184.0	1183.5	1184.0	1184.5	1184.7	1185.0	1184.7	1184.5
16.5°	1184.0	1183.8	1183.5	1182.8	1182.5	1182.8	1183.5	1183.8	1184.0	1183.8	1183.5
17°	1183.3	1183.3	1183.0	1182.3	1181.8	1182.3	1183.0	1183.3	1183.3	1183.3	1183.0
17.5°	1183.0	1183.0	1182.5	1182.0	1181.8	1182.0	1182.5	1183.0	1183.0	1183.0	1182.5
18°	1183.0	1183.0	1182.5	1182.3	1181.8	1182.3	1182.5	1183.0	1183.0	1183.0	1182.5
18.5°	1183.0	1183.0	1182.8	1182.3	1181.8	1182.3	1182.8	1183.0	1183.0	1183.0	1182.8
19°	1183.3	1183.3	1183.0	1182.8	1182.3	1182.8	1183.0	1183.3	1183.3	1183.3	1183.0
19.5°	1183.5	1183.5	1183.3	1183.0	1182.5	1183.0	1183.3	1183.5	1183.5	1183.5	1183.3
20°	1183.8	1183.8	1183.5	1183.3	1183.0	1183.3	1183.5	1183.8	1183.8	1183.8	1183.5
20.5°	1184.0	1183.8	1183.8	1183.8	1183.3	1183.8	1183.8	1183.8	1184.0	1183.8	1183.8
21°	1184.0	1184.0	1184.0	1184.0	1183.8	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0



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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°	1184.5	1184.2	1184.2	1184.5	1184.5	1184.5	1184.2	1184.2	1184.5	1184.2	1184.2
23°	1184.5	1184.2	1184.2	1184.7	1184.5	1184.7	1184.2	1184.2	1184.5	1184.2	1184.2
23.5°	1184.5	1184.2	1184.0	1184.5	1184.5	1184.5	1184.0	1184.2	1184.5	1184.2	1184.0
24°	1184.2	1184.0	1183.8	1184.5	1184.5	1184.5	1183.8	1184.0	1184.2	1184.0	1183.8
24.5°	1184.2	1183.8	1183.8	1184.5	1184.5	1184.5	1183.8	1183.8	1184.2	1183.8	1183.8
25°	1184.0	1183.5	1183.5	1184.2	1184.2	1184.2	1183.5	1183.5	1184.0	1183.5	1183.5
25.5°	1183.8	1183.3	1183.3	1184.2	1184.2	1184.2	1183.3	1183.3	1183.8	1183.3	1183.3
26°	1183.3	1183.0	1182.8	1184.0	1184.0	1184.0	1182.8	1183.0	1183.3	1183.0	1182.8
26.5°	1183.0	1182.8	1182.5	1183.8	1183.8	1183.8	1182.5	1182.8	1183.0	1182.8	1182.5
27°	1183.0	1182.5	1182.3	1183.5	1183.8	1183.5	1182.3	1182.5	1183.0	1182.5	1182.3
27.5°	1183.0	1182.8	1182.3	1183.5	1183.8	1183.5	1182.3	1182.8	1183.0	1182.8	1182.3
28°	1183.3	1182.8	1182.5	1183.8	1184.0	1183.8	1182.5	1182.8	1183.3	1182.8	1182.5
28.5°	1183.5	1183.0	1182.5	1184.0	1184.2	1184.0	1182.5	1183.0	1183.5	1183.0	1182.5
29°	1183.5	1183.0	1182.5	1184.2	1184.2	1184.2	1182.5	1183.0	1183.5	1183.0	1182.5
29.5°	1183.3	1182.8	1182.5	1184.0	1184.0	1184.0	1182.5	1182.8	1183.3	1182.8	1182.5
30°	1182.5	1182.3	1182.0	1183.5	1183.5	1183.5	1182.0	1182.3	1182.5	1182.3	1182.0
30.5°	1181.5	1181.3	1181.3	1182.8	1182.5	1182.8	1181.3	1181.3	1181.5	1181.3	1181.3
31°	1180.0	1179.8	1179.8	1181.3	1181.0	1181.3	1179.8	1179.8	1180.0	1179.8	1179.8
31.5°	1178.1	1178.1	1178.3	1179.6	1179.1	1179.6	1178.3	1178.1	1178.1	1178.1	1178.3
32°	1175.4	1175.6	1175.8	1177.1	1176.6	1177.1	1175.8	1175.6	1175.4	1175.6	1175.8
32.5°	1172.4	1172.6	1173.1	1174.1	1173.6	1174.1	1173.1	1172.6	1172.4	1172.6	1173.1
33°	1168.9	1169.2	1169.9	1170.7	1169.9	1170.7	1169.9	1169.2	1168.9	1169.2	1169.9
33.5°	1165.0	1165.2	1166.2	1166.7	1166.0	1166.7	1166.2	1165.2	1165.0	1165.2	1166.2
34°	1160.3	1161.0	1162.0	1162.3	1161.3	1162.3	1162.0	1161.0	1160.3	1161.0	1162.0
34.5°	1155.3	1156.1	1157.3	1157.3	1156.3	1157.3	1157.3	1156.1	1155.3	1156.1	1157.3
35°	1149.9	1150.7	1152.1	1151.9	1150.7	1151.9	1152.1	1150.7	1149.9	1150.7	1152.1
35.5°	1144.2	1145.2	1146.5	1146.2	1145.0	1146.2	1146.5	1145.2	1144.2	1145.2	1146.5
36°	1138.1	1139.0	1140.5	1140.0	1138.5	1140.0	1140.5	1139.0	1138.1	1139.0	1140.5
36.5°	1131.4	1132.6	1134.1	1133.4	1131.9	1133.4	1134.1	1132.6	1131.4	1132.6	1134.1
37°	1124.2	1125.5	1126.9	1126.2	1124.5	1126.2	1126.9	1125.5	1124.2	1125.5	1126.9
37.5°	1116.6	1118.0	1119.0	1118.3	1116.6	1118.3	1119.0	1118.0	1116.6	1118.0	1119.0
38°	1108.2	1109.6	1110.9	1109.9	1108.2	1109.9	1110.9	1109.6	1108.2	1109.6	1110.9
38.5°	1099.0	1100.8	1102.0	1100.8	1098.8	1100.8	1102.0	1100.8	1099.0	1100.8	1102.0
39°	1089.4	1091.4	1092.1	1090.9	1088.9	1090.9	1092.1	1091.4	1089.4	1091.4	1092.1
39.5°	1079.3	1081.0	1081.5	1080.0	1078.0	1080.0	1081.5	1081.0	1079.3	1081.0	1081.5
40°	1068.1	1069.6	1070.1	1068.6	1066.9	1068.6	1070.1	1069.6	1068.1	1069.6	1070.1
40.5°	1056.5	1057.8	1058.0	1056.5	1054.6	1056.5	1058.0	1057.8	1056.5	1057.8	1058.0
41°	1044.2	1045.2	1044.9	1043.4	1042.0	1043.4	1044.9	1045.2	1044.2	1045.2	1044.9
41.5°	1031.1	1031.8	1031.3	1029.9	1028.6	1029.9	1031.3	1031.8	1031.1	1031.8	1031.3
42°	1017.5	1017.8	1016.8	1015.5	1014.8	1015.5	1016.8	1017.8	1017.5	1017.8	1016.8
42.5°	1003.4	1003.2	1001.7	1000.7	1000.0	1000.7	1001.7	1003.2	1003.4	1003.2	1001.7
43°	988.4	987.6	985.9	985.1	984.7	985.1	985.9	987.6	988.4	987.6	985.9
43.5°	972.5	971.6	969.1	968.8	968.6	968.8	969.1	971.6	972.5	971.6	969.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	921.2	918.9	915.5	915.5	916.2	915.5	915.5	918.9	921.2	918.9	915.5
45.5°	902.4	899.9	896.0	896.5	897.2	896.5	896.0	899.9	902.4	899.9	896.0
46°	882.6	880.2	876.2	876.7	877.9	876.7	876.2	880.2	882.6	880.2	876.2
46.5°	861.9	859.7	855.7	856.2	857.4	856.2	855.7	859.7	861.9	859.7	855.7
47°	840.1	837.9	834.2	834.7	835.7	834.7	834.2	837.9	840.1	837.9	834.2
47.5°	815.9	813.7	810.0	810.7	811.7	810.7	810.0	813.7	815.9	813.7	810.0
48°	790.0	788.0	785.1	786.3	787.3	786.3	785.1	788.0	790.0	788.0	785.1
48.5°	765.8	764.8	762.1	763.1	764.3	763.1	762.1	764.8	765.8	764.8	762.1
49°	743.1	742.6	741.1	741.8	742.6	741.8	741.1	742.6	743.1	742.6	741.1
49.5°	720.6	720.3	719.6	720.1	720.6	720.1	719.6	720.3	720.6	720.3	719.6
50°	697.9	697.6	697.6	698.3	699.1	698.3	697.6	697.6	697.9	697.6	697.6
50.5°	676.6	676.9	676.6	677.1	677.6	677.1	676.6	676.9	676.6	676.9	676.6
51°	657.3	657.3	657.1	657.6	657.1	657.6	657.1	657.3	657.3	657.3	657.1
51.5°	639.1	638.8	638.6	639.1	639.3	639.1	638.6	638.8	639.1	638.8	638.6
52°	621.5	621.5	621.5	622.3	623.0	622.3	621.5	621.5	621.5	621.5	621.5
52.5°	605.5	605.7	605.5	606.5	607.2	606.5	605.5	605.7	605.5	605.7	605.5
53°	591.1	590.9	590.9	592.1	592.6	592.1	590.9	590.9	591.1	590.9	590.9
53.5°	577.5	577.5	577.5	578.5	579.0	578.5	577.5	577.5	577.5	577.5	577.5
54°	564.5	564.2	564.2	565.2	565.2	565.2	564.2	564.2	564.5	564.2	564.2
54.5°	550.4	550.4	550.4	551.1	551.4	551.1	550.4	550.4	550.4	550.4	550.4
55°	534.8	534.8	534.8	536.0	536.0	536.0	534.8	534.8	534.8	534.8	534.8
55.5°	516.8	516.8	517.0	518.8	518.3	518.8	517.0	516.8	516.8	516.8	517.0
56°	496.3	496.8	497.5	499.0	498.7	499.0	497.5	496.8	496.3	496.8	497.5
56.5°	475.0	475.3	476.3	477.8	477.8	477.8	476.3	475.3	475.0	475.3	476.3
57°	452.6	452.8	454.0	455.5	455.0	455.5	454.0	452.8	452.6	452.8	454.0
57.5°	429.1	429.6	430.6	432.5	432.5	432.5	430.6	429.6	429.1	429.6	430.6
58°	405.6	405.6	407.1	409.3	409.8	409.3	407.1	405.6	405.6	405.6	407.1
58.5°	380.9	381.7	382.9	385.6	386.6	385.6	382.9	381.7	380.9	381.7	382.9
59°	356.2	357.2	358.7	361.4	362.6	361.4	358.7	357.2	356.2	357.2	358.7
59.5°	331.3	332.5	334.2	337.7	339.2	337.7	334.2	332.5	331.3	332.5	334.2
60°	306.8	308.3	310.5	313.7	315.2	313.7	310.5	308.3	306.8	308.3	310.5
60.5°	282.4	284.1	287.0	290.5	292.0	290.5	287.0	284.1	282.4	284.1	287.0
61°	258.4	260.6	264.1	267.3	268.5	267.3	264.1	260.6	258.4	260.6	264.1
61.5°	235.7	237.6	241.8	244.8	245.8	244.8	241.8	237.6	235.7	237.6	241.8
62°	212.9	215.4	219.6	222.3	223.6	222.3	219.6	215.4	212.9	215.4	219.6
62.5°	190.7	193.4	198.1	200.6	202.6	200.6	198.1	193.4	190.7	193.4	198.1
63°	168.7	171.9	177.1	179.6	181.6	179.6	177.1	171.9	168.7	171.9	177.1
63.5°	148.2	150.9	156.6	159.3	161.3	159.3	156.6	150.9	148.2	150.9	156.6
64°	128.7	131.7	136.9	139.8	141.3	139.8	136.9	131.7	128.7	131.7	136.9
64.5°	109.9	113.1	118.1	120.8	122.0	120.8	118.1	113.1	109.9	113.1	118.1
65°	92.1	95.6	101.0	104.0	105.5	104.0	101.0	95.6	92.1	95.6	101.0
65.5°	76.3	80.0	84.5	87.7	89.7	87.7	84.5	80.0	76.3	80.0	84.5
66°	61.0	66.0	69.2	72.4	74.4	72.4	69.2	66.0	61.0	66.0	69.2



TEST NUMBER: P776126

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	24.5	31.6	34.3	35.6	36.1	35.6	34.3	31.6	24.5	31.6	34.3
68°	14.8	22.7	25.2	26.7	27.9	26.7	25.2	22.7	14.8	22.7	25.2
68.5°	6.4	15.1	16.6	18.0	20.5	18.0	16.6	15.1	6.4	15.1	16.6
69°	4.0	9.1	11.1	11.9	14.8	11.9	11.1	9.1	4.0	9.1	11.1
69.5°	2.7	5.4	7.4	6.9	9.4	6.9	7.4	5.4	2.7	5.4	7.4
70°	2.2	3.2	4.0	3.7	4.2	3.7	4.0	3.2	2.2	3.2	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°	1.2	1.5	2.0	2.0	1.7	2.0	2.0	1.5	1.2	1.5	2.0
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: P776126

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-3000K

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: P776126

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1223.3	1223.3	1223.3	1223.3	1223.3	1223.3
0.5°	1223.8	1223.0	1223.8	1223.5	1223.0	1223.0
1°	1223.5	1223.0	1223.5	1223.3	1223.0	1222.8
1.5°	1223.3	1222.8	1223.3	1223.0	1222.8	1222.5
2°	1223.0	1222.5	1223.0	1222.8	1222.3	1222.3
2.5°	1222.5	1222.0	1222.5	1222.3	1222.0	1221.8
3°	1222.3	1221.5	1222.3	1222.0	1221.5	1221.5
3.5°	1221.5	1221.1	1221.5	1221.5	1221.1	1221.1
4°	1221.1	1220.3	1221.1	1220.8	1220.6	1220.3
4.5°	1220.3	1219.8	1220.3	1220.1	1219.8	1219.6
5°	1219.6	1219.1	1219.6	1219.3	1219.1	1218.8
5.5°	1218.8	1218.3	1218.8	1218.6	1218.3	1218.1
6°	1217.8	1217.3	1217.8	1217.6	1217.3	1217.1
6.5°	1216.9	1216.1	1216.9	1216.6	1216.4	1216.1
7°	1215.6	1214.9	1215.6	1215.4	1215.1	1215.1
7.5°	1214.1	1213.6	1214.1	1214.1	1213.9	1213.9
8°	1212.9	1212.4	1212.9	1212.7	1212.7	1212.4
8.5°	1211.4	1210.9	1211.4	1211.4	1211.2	1210.9
9°	1209.9	1209.4	1209.9	1209.9	1209.7	1209.7
9.5°	1208.5	1208.0	1208.5	1208.2	1208.2	1208.0
10°	1206.7	1206.2	1206.7	1206.7	1206.5	1206.5
10.5°	1205.0	1204.5	1205.0	1205.0	1204.8	1204.8
11°	1203.3	1202.5	1203.3	1203.3	1203.0	1203.0
11.5°	1201.3	1200.8	1201.3	1201.3	1201.0	1201.0
12°	1199.3	1198.8	1199.3	1199.3	1199.3	1199.3
12.5°	1197.3	1196.8	1197.3	1197.3	1197.3	1197.3
13°	1195.4	1194.9	1195.4	1195.6	1195.4	1195.6
13.5°	1193.4	1192.6	1193.4	1193.4	1193.4	1193.6
14°	1191.4	1190.7	1191.4	1191.4	1191.7	1191.7
14.5°	1189.4	1188.7	1189.4	1189.4	1189.7	1189.7
15°	1187.5	1186.7	1187.5	1187.5	1187.7	1188.0
15.5°	1185.5	1185.0	1185.5	1185.7	1186.0	1186.2
16°	1184.0	1183.5	1184.0	1184.5	1184.7	1185.0
16.5°	1182.8	1182.5	1182.8	1183.5	1183.8	1184.0
17°	1182.3	1181.8	1182.3	1183.0	1183.3	1183.3
17.5°	1182.0	1181.8	1182.0	1182.5	1183.0	1183.0
18°	1182.3	1181.8	1182.3	1182.5	1183.0	1183.0
18.5°	1182.3	1181.8	1182.3	1182.8	1183.0	1183.0
19°	1182.8	1182.3	1182.8	1183.0	1183.3	1183.3
19.5°	1183.0	1182.5	1183.0	1183.3	1183.5	1183.5
20°	1183.3	1183.0	1183.3	1183.5	1183.8	1183.8
20.5°	1183.8	1183.3	1183.8	1183.8	1183.8	1184.0
21°	1184.0	1183.8	1184.0	1184.0	1184.0	1184.0



TEST NUMBER: P776126

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1184.5	1184.5	1184.5	1184.2	1184.2	1184.5
23°	1184.7	1184.5	1184.7	1184.2	1184.2	1184.5
23.5°	1184.5	1184.5	1184.5	1184.0	1184.2	1184.5
24°	1184.5	1184.5	1184.5	1183.8	1184.0	1184.2
24.5°	1184.5	1184.5	1184.5	1183.8	1183.8	1184.2
25°	1184.2	1184.2	1184.2	1183.5	1183.5	1184.0
25.5°	1184.2	1184.2	1184.2	1183.3	1183.3	1183.8
26°	1184.0	1184.0	1184.0	1182.8	1183.0	1183.3
26.5°	1183.8	1183.8	1183.8	1182.5	1182.8	1183.0
27°	1183.5	1183.8	1183.5	1182.3	1182.5	1183.0
27.5°	1183.5	1183.8	1183.5	1182.3	1182.8	1183.0
28°	1183.8	1184.0	1183.8	1182.5	1182.8	1183.3
28.5°	1184.0	1184.2	1184.0	1182.5	1183.0	1183.5
29°	1184.2	1184.2	1184.2	1182.5	1183.0	1183.5
29.5°	1184.0	1184.0	1184.0	1182.5	1182.8	1183.3
30°	1183.5	1183.5	1183.5	1182.0	1182.3	1182.5
30.5°	1182.8	1182.5	1182.8	1181.3	1181.3	1181.5
31°	1181.3	1181.0	1181.3	1179.8	1179.8	1180.0
31.5°	1179.6	1179.1	1179.6	1178.3	1178.1	1178.1
32°	1177.1	1176.6	1177.1	1175.8	1175.6	1175.4
32.5°	1174.1	1173.6	1174.1	1173.1	1172.6	1172.4
33°	1170.7	1169.9	1170.7	1169.9	1169.2	1168.9
33.5°	1166.7	1166.0	1166.7	1166.2	1165.2	1165.0
34°	1162.3	1161.3	1162.3	1162.0	1161.0	1160.3
34.5°	1157.3	1156.3	1157.3	1157.3	1156.1	1155.3
35°	1151.9	1150.7	1151.9	1152.1	1150.7	1149.9
35.5°	1146.2	1145.0	1146.2	1146.5	1145.2	1144.2
36°	1140.0	1138.5	1140.0	1140.5	1139.0	1138.1
36.5°	1133.4	1131.9	1133.4	1134.1	1132.6	1131.4
37°	1126.2	1124.5	1126.2	1126.9	1125.5	1124.2
37.5°	1118.3	1116.6	1118.3	1119.0	1118.0	1116.6
38°	1109.9	1108.2	1109.9	1110.9	1109.6	1108.2
38.5°	1100.8	1098.8	1100.8	1102.0	1100.8	1099.0
39°	1090.9	1088.9	1090.9	1092.1	1091.4	1089.4
39.5°	1080.0	1078.0	1080.0	1081.5	1081.0	1079.3
40°	1068.6	1066.9	1068.6	1070.1	1069.6	1068.1
40.5°	1056.5	1054.6	1056.5	1058.0	1057.8	1056.5
41°	1043.4	1042.0	1043.4	1044.9	1045.2	1044.2
41.5°	1029.9	1028.6	1029.9	1031.3	1031.8	1031.1
42°	1015.5	1014.8	1015.5	1016.8	1017.8	1017.5
42.5°	1000.7	1000.0	1000.7	1001.7	1003.2	1003.4
43°	985.1	984.7	985.1	985.9	987.6	988.4
43.5°	968.8	968.6	968.8	969.1	971.6	972.5



TEST NUMBER: P776126

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	915.5	916.2	915.5	915.5	918.9	921.2
45.5°	896.5	897.2	896.5	896.0	899.9	902.4
46°	876.7	877.9	876.7	876.2	880.2	882.6
46.5°	856.2	857.4	856.2	855.7	859.7	861.9
47°	834.7	835.7	834.7	834.2	837.9	840.1
47.5°	810.7	811.7	810.7	810.0	813.7	815.9
48°	786.3	787.3	786.3	785.1	788.0	790.0
48.5°	763.1	764.3	763.1	762.1	764.8	765.8
49°	741.8	742.6	741.8	741.1	742.6	743.1
49.5°	720.1	720.6	720.1	719.6	720.3	720.6
50°	698.3	699.1	698.3	697.6	697.6	697.9
50.5°	677.1	677.6	677.1	676.6	676.9	676.6
51°	657.6	657.1	657.6	657.1	657.3	657.3
51.5°	639.1	639.3	639.1	638.6	638.8	639.1
52°	622.3	623.0	622.3	621.5	621.5	621.5
52.5°	606.5	607.2	606.5	605.5	605.7	605.5
53°	592.1	592.6	592.1	590.9	590.9	591.1
53.5°	578.5	579.0	578.5	577.5	577.5	577.5
54°	565.2	565.2	565.2	564.2	564.2	564.5
54.5°	551.1	551.4	551.1	550.4	550.4	550.4
55°	536.0	536.0	536.0	534.8	534.8	534.8
55.5°	518.8	518.3	518.8	517.0	516.8	516.8
56°	499.0	498.7	499.0	497.5	496.8	496.3
56.5°	477.8	477.8	477.8	476.3	475.3	475.0
57°	455.5	455.0	455.5	454.0	452.8	452.6
57.5°	432.5	432.5	432.5	430.6	429.6	429.1
58°	409.3	409.8	409.3	407.1	405.6	405.6
58.5°	385.6	386.6	385.6	382.9	381.7	380.9
59°	361.4	362.6	361.4	358.7	357.2	356.2
59.5°	337.7	339.2	337.7	334.2	332.5	331.3
60°	313.7	315.2	313.7	310.5	308.3	306.8
60.5°	290.5	292.0	290.5	287.0	284.1	282.4
61°	267.3	268.5	267.3	264.1	260.6	258.4
61.5°	244.8	245.8	244.8	241.8	237.6	235.7
62°	222.3	223.6	222.3	219.6	215.4	212.9
62.5°	200.6	202.6	200.6	198.1	193.4	190.7
63°	179.6	181.6	179.6	177.1	171.9	168.7
63.5°	159.3	161.3	159.3	156.6	150.9	148.2
64°	139.8	141.3	139.8	136.9	131.7	128.7
64.5°	120.8	122.0	120.8	118.1	113.1	109.9
65°	104.0	105.5	104.0	101.0	95.6	92.1
65.5°	87.7	89.7	87.7	84.5	80.0	76.3
66°	72.4	74.4	72.4	69.2	66.0	61.0



TEST NUMBER: P776126

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	35.6	36.1	35.6	34.3	31.6	24.5
68°	26.7	27.9	26.7	25.2	22.7	14.8
68.5°	18.0	20.5	18.0	16.6	15.1	6.4
69°	11.9	14.8	11.9	11.1	9.1	4.0
69.5°	6.9	9.4	6.9	7.4	5.4	2.7
70°	3.7	4.2	3.7	4.0	3.2	2.2
70.5°	2.5	2.0	2.5	2.5	2.0	1.5
71°	2.0	1.7	2.0	2.0	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: P776126

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRC-2500lm-3000K

CANDELA DISTRIBUTION (continued):

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



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

Scaled Data Report





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

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Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	1184.2	1184.2	1184.0	1184.2	1184.0	1184.2	1184.0	1184.2	1184.2	1184.2	1184.0
22°	1184.5	1184.2	1184.2	1184.2	1184.2	1184.2	1184.2	1184.2	1184.5	1184.2	1184.2



44°	956.0	954.8	951.8	951.5	951.8	951.5	951.8	954.8	956.0	954.8	951.8
44.5°	939.0	937.5	934.0	934.0	934.3	934.0	934.0	937.5	939.0	937.5	934.0



66.5°	48.9	52.9	56.3	58.8	59.5	58.8	56.3	52.9	48.9	52.9	56.3
67°	36.6	41.3	44.0	46.4	46.9	46.4	44.0	41.3	36.6	41.3	44.0



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°	1184.2	1184.0	1184.2	1184.0	1184.2	1184.2
22°	1184.2	1184.2	1184.2	1184.2	1184.2	1184.5



44°	951.5	951.8	951.5	951.8	954.8	956.0
44.5°	934.0	934.3	934.0	934.0	937.5	939.0



66.5°	58.8	59.5	58.8	56.3	52.9	48.9
67°	46.4	46.9	46.4	44.0	41.3	36.6

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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)