

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: P776218

Luminaire Tested: HCDJBS1525CSD-HCD8TSQMB-2500lm-4000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B024-HCD8TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQMB-2500lm-4000K
Description: 8 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

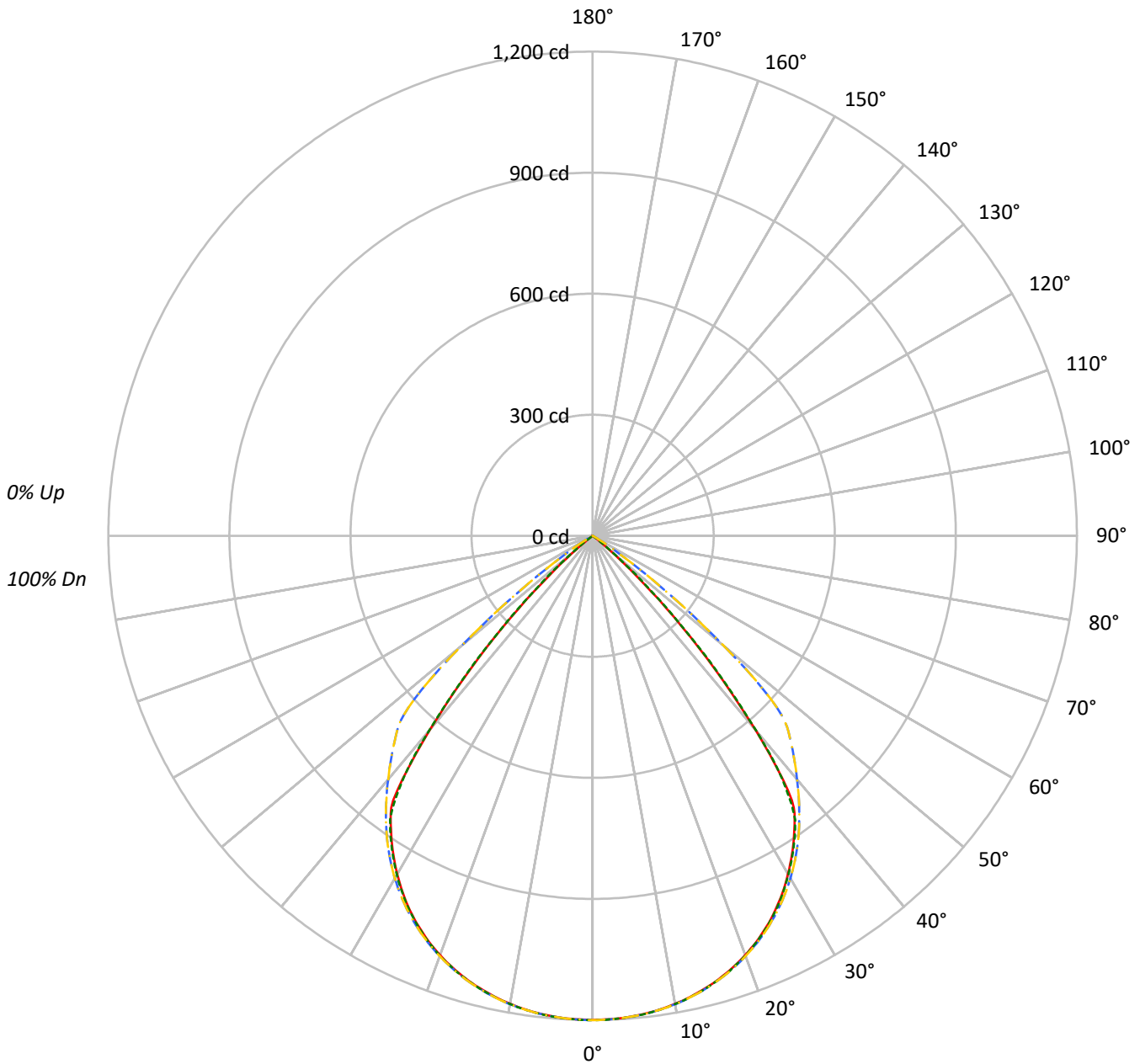
Lumens per Lamp: N/A
Luminaire Lumens: 1865.2 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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					100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	91	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57					57			
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52					52			
8	72	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28781	28781	28781	28781
5°	28749	28768	28749	28768
10°	28680	28699	28680	28699
15°	28516	28540	28516	28540
20°	28220	28248	28220	28248
25°	27693	27727	27693	27727
30°	26805	26863	26805	26863
35°	25543	25616	25543	25616
40°	19576	19745	19576	19745
45°	9709	9956	9709	9956
50°	2134	2600	2134	2600
55°	33	42	33	42
60°	24	38	24	38
65°	28	28	28	28
70°	21	21	21	21
75°	28	28	28	28
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 23253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	6.1
10°-20°	324.2	17.4
20°-30°	482.7	25.9
30°-40°	546.1	29.3
40°-50°	348.5	18.7
50°-60°	49.4	2.7
60°-70°	0.6	0.0
70°-80°	0.2	0.0
80°-90°	0.0	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°	920.5	49.3
0°-40°	1466.5	78.6
0°-60°	1864.5	100.0
0°-90°	1865.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1200	1200	1200	1200	1200	
5°	1194	1195	1194	1195	1194	114
15°	1149	1150	1149	1150	1149	324
25°	1047	1048	1047	1048	1047	481
35°	873	875	873	875	873	530
45°	286	294	286	294	286	229
55°	1	1	1	1	1	7
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
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°	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3
0.5°	1199.8	1200.0	1200.3	1200.5	1200.5	1200.5	1200.3	1200.0	1199.8	1200.0	1200.3
1°	1199.5	1199.8	1200.0	1200.3	1200.3	1200.3	1200.0	1199.8	1199.5	1199.8	1200.0
1.5°	1199.2	1199.5	1199.8	1200.0	1200.0	1200.0	1199.8	1199.5	1199.2	1199.5	1199.8
2°	1199.0	1199.0	1199.5	1199.8	1199.5	1199.8	1199.5	1199.0	1199.0	1199.0	1199.5
2.5°	1198.5	1198.7	1199.0	1199.2	1199.2	1199.2	1199.0	1198.7	1198.5	1198.7	1199.0
3°	1198.0	1198.0	1198.5	1198.7	1198.5	1198.7	1198.5	1198.0	1198.0	1198.0	1198.5
3.5°	1197.2	1197.5	1197.7	1198.0	1198.0	1198.0	1197.7	1197.5	1197.2	1197.5	1197.7
4°	1196.5	1196.7	1197.0	1197.2	1197.0	1197.2	1197.0	1196.7	1196.5	1196.7	1197.0
4.5°	1195.4	1195.7	1195.9	1196.2	1196.2	1196.2	1195.9	1195.7	1195.4	1195.7	1195.9
5°	1194.4	1194.7	1195.2	1195.2	1195.2	1195.2	1195.2	1194.7	1194.4	1194.7	1195.2
5.5°	1193.4	1193.7	1193.9	1194.2	1193.9	1194.2	1193.9	1193.7	1193.4	1193.7	1193.9
6°	1192.1	1192.4	1192.6	1192.9	1192.9	1192.9	1192.6	1192.4	1192.1	1192.4	1192.6
6.5°	1190.9	1191.1	1191.4	1191.6	1191.4	1191.6	1191.4	1191.1	1190.9	1191.1	1191.4
7°	1189.3	1189.6	1190.1	1190.1	1190.1	1190.1	1190.1	1189.6	1189.3	1189.6	1190.1
7.5°	1187.8	1188.1	1188.3	1188.6	1188.3	1188.6	1188.3	1188.1	1187.8	1188.1	1188.3
8°	1186.0	1186.3	1186.8	1186.8	1186.8	1186.8	1186.8	1186.3	1186.0	1186.3	1186.8
8.5°	1184.2	1184.5	1185.0	1185.0	1184.8	1185.0	1185.0	1184.5	1184.2	1184.5	1185.0
9°	1182.2	1182.5	1183.0	1183.2	1183.0	1183.2	1183.0	1182.5	1182.2	1182.5	1183.0
9.5°	1180.2	1180.4	1180.9	1181.2	1180.7	1181.2	1180.9	1180.4	1180.2	1180.4	1180.9
10°	1177.9	1178.4	1178.9	1178.9	1178.7	1178.9	1178.9	1178.4	1177.9	1178.4	1178.9
10.5°	1175.6	1176.1	1176.6	1176.6	1176.4	1176.6	1176.6	1176.1	1175.6	1176.1	1176.6
11°	1173.1	1173.6	1174.3	1174.1	1173.8	1174.1	1174.3	1173.6	1173.1	1173.6	1174.3
11.5°	1170.5	1171.0	1171.8	1171.5	1171.3	1171.5	1171.8	1171.0	1170.5	1171.0	1171.8
12°	1167.7	1168.2	1169.0	1169.0	1168.5	1169.0	1169.0	1168.2	1167.7	1168.2	1169.0
12.5°	1164.9	1165.4	1166.2	1166.2	1165.7	1166.2	1166.2	1165.4	1164.9	1165.4	1166.2
13°	1161.9	1162.6	1163.4	1163.4	1162.9	1163.4	1163.4	1162.6	1161.9	1162.6	1163.4
13.5°	1158.8	1159.6	1160.4	1160.4	1159.8	1160.4	1160.4	1159.6	1158.8	1159.6	1160.4
14°	1155.5	1156.3	1157.0	1157.0	1156.5	1157.0	1157.0	1156.3	1155.5	1156.3	1157.0
14.5°	1152.2	1153.0	1153.7	1153.7	1153.2	1153.7	1153.7	1153.0	1152.2	1153.0	1153.7
15°	1148.7	1149.4	1150.4	1150.2	1149.7	1150.2	1150.4	1149.4	1148.7	1149.4	1150.4
15.5°	1145.1	1145.9	1146.9	1146.6	1146.1	1146.6	1146.9	1145.9	1145.1	1145.9	1146.9
16°	1141.3	1142.0	1143.1	1143.1	1142.3	1143.1	1143.1	1142.0	1141.3	1142.0	1143.1
16.5°	1137.5	1138.2	1139.2	1139.2	1138.5	1139.2	1139.2	1138.2	1137.5	1138.2	1139.2
17°	1133.1	1134.2	1135.4	1135.2	1134.4	1135.2	1135.4	1134.2	1133.1	1134.2	1135.4
17.5°	1129.1	1130.1	1131.1	1131.1	1130.4	1131.1	1131.1	1130.1	1129.1	1130.1	1131.1
18°	1124.8	1125.8	1127.0	1126.8	1125.8	1126.8	1127.0	1125.8	1124.8	1125.8	1127.0
18.5°	1120.2	1121.5	1122.5	1122.2	1121.2	1122.2	1122.5	1121.5	1120.2	1121.5	1122.5
19°	1115.6	1116.9	1117.9	1117.6	1116.6	1117.6	1117.9	1116.9	1115.6	1116.9	1117.9
19.5°	1110.8	1112.0	1113.3	1113.1	1112.0	1113.1	1113.3	1112.0	1110.8	1112.0	1113.3
20°	1105.9	1107.2	1108.5	1108.2	1107.0	1108.2	1108.5	1107.2	1105.9	1107.2	1108.5
20.5°	1100.6	1102.1	1103.7	1103.1	1101.9	1103.1	1103.7	1102.1	1100.6	1102.1	1103.7
21°	1095.3	1097.0	1098.6	1098.1	1096.5	1098.1	1098.6	1097.0	1095.3	1097.0	1098.6



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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°	1078.5	1080.5	1082.3	1081.5	1079.8	1081.5	1082.3	1080.5	1078.5	1080.5	1082.3
23°	1072.4	1074.7	1076.7	1075.7	1073.7	1075.7	1076.7	1074.7	1072.4	1074.7	1076.7
23.5°	1066.3	1068.8	1070.9	1069.6	1067.6	1069.6	1070.9	1068.8	1066.3	1068.8	1070.9
24°	1060.2	1062.5	1064.8	1063.5	1061.2	1063.5	1064.8	1062.5	1060.2	1062.5	1064.8
24.5°	1053.6	1056.1	1058.7	1057.1	1054.8	1057.1	1058.7	1056.1	1053.6	1056.1	1058.7
25°	1046.7	1049.8	1052.3	1050.5	1048.0	1050.5	1052.3	1049.8	1046.7	1049.8	1052.3
25.5°	1039.6	1043.1	1045.9	1043.9	1041.1	1043.9	1045.9	1043.1	1039.6	1043.1	1045.9
26°	1032.7	1036.3	1039.3	1037.0	1034.2	1037.0	1039.3	1036.3	1032.7	1036.3	1039.3
26.5°	1025.1	1029.2	1032.5	1029.9	1026.9	1029.9	1032.5	1029.2	1025.1	1029.2	1032.5
27°	1017.7	1021.8	1025.6	1022.6	1019.2	1022.6	1025.6	1021.8	1017.7	1021.8	1025.6
27.5°	1010.1	1014.4	1018.5	1015.2	1011.6	1015.2	1018.5	1014.4	1010.1	1014.4	1018.5
28°	1002.0	1006.8	1011.1	1007.6	1003.7	1007.6	1011.1	1006.8	1002.0	1006.8	1011.1
28.5°	993.8	998.9	1003.7	999.9	995.6	999.9	1003.7	998.9	993.8	998.9	1003.7
29°	985.4	990.8	996.1	991.8	987.5	991.8	996.1	990.8	985.4	990.8	996.1
29.5°	977.0	982.6	988.2	983.7	978.8	983.7	988.2	982.6	977.0	982.6	988.2
30°	968.1	974.2	980.3	975.5	970.2	975.5	980.3	974.2	968.1	974.2	980.3
30.5°	959.2	965.9	972.2	966.9	961.5	966.9	972.2	965.9	959.2	965.9	972.2
31°	950.3	957.0	963.8	958.2	952.6	958.2	963.8	957.0	950.3	957.0	963.8
31.5°	941.2	948.3	955.4	949.6	943.2	949.6	955.4	948.3	941.2	948.3	955.4
32°	932.0	939.4	946.8	940.7	934.1	940.7	946.8	939.4	932.0	939.4	946.8
32.5°	922.6	930.3	937.9	931.5	924.7	931.5	937.9	930.3	922.6	930.3	937.9
33°	913.0	921.1	929.0	922.4	915.3	922.4	929.0	921.1	913.0	921.1	929.0
33.5°	903.1	911.7	919.6	913.2	905.6	913.2	919.6	911.7	903.1	911.7	919.6
34°	892.9	902.6	910.2	903.8	895.7	903.8	910.2	902.6	892.9	902.6	910.2
34.5°	882.7	892.9	900.8	894.2	885.5	894.2	900.8	892.9	882.7	892.9	900.8
35°	872.6	883.2	890.9	884.5	875.1	884.5	890.9	883.2	872.6	883.2	890.9
35.5°	861.9	873.6	881.2	874.8	864.4	874.8	881.2	873.6	861.9	873.6	881.2
36°	851.2	863.7	871.3	864.9	847.4	864.9	871.3	863.7	851.2	863.7	871.3
36.5°	838.5	853.2	861.1	854.8	828.6	854.8	861.1	853.2	838.5	853.2	861.1
37°	820.9	842.8	850.9	844.6	806.4	844.6	850.9	842.8	820.9	842.8	850.9
37.5°	794.2	832.4	840.5	833.9	785.1	833.9	840.5	832.4	794.2	832.4	840.5
38°	765.3	822.0	830.1	822.0	760.7	822.0	830.1	822.0	765.3	822.0	830.1
38.5°	730.9	810.8	819.7	804.9	732.7	804.9	819.7	810.8	730.9	810.8	819.7
39°	696.1	796.0	809.5	785.1	701.4	785.1	809.5	796.0	696.1	796.0	809.5
39.5°	660.8	775.9	798.8	764.5	666.6	764.5	798.8	775.9	660.8	775.9	798.8
40°	625.4	750.0	788.1	742.1	630.8	742.1	788.1	750.0	625.4	750.0	788.1
40.5°	589.8	719.8	778.0	717.0	594.2	717.0	778.0	719.8	589.8	719.8	778.0
41°	553.7	687.0	767.6	689.0	559.1	689.0	767.6	687.0	553.7	687.0	767.6
41.5°	518.9	653.9	757.4	658.2	524.5	658.2	757.4	653.9	518.9	653.9	757.4
42°	483.6	620.6	747.2	624.9	490.7	624.9	747.2	620.6	483.6	620.6	747.2
42.5°	449.5	587.5	737.0	591.1	457.1	591.1	737.0	587.5	449.5	587.5	737.0
43°	415.4	553.7	726.9	556.8	423.1	556.8	726.9	553.7	415.4	553.7	726.9
43.5°	382.1	519.9	716.4	523.7	389.2	523.7	716.4	519.9	382.1	519.9	716.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	286.3	420.8	685.7	427.1	293.6	427.1	685.7	420.8	286.3	420.8	685.7
45.5°	256.0	389.0	675.3	394.8	264.2	394.8	675.3	389.0	256.0	389.0	675.3
46°	227.5	357.7	661.8	363.6	235.9	363.6	661.8	357.7	227.5	357.7	661.8
46.5°	199.8	326.7	646.0	332.8	208.5	332.8	646.0	326.7	199.8	326.7	646.0
47°	172.4	296.2	623.9	302.5	184.3	302.5	623.9	296.2	172.4	296.2	623.9
47.5°	146.2	266.4	599.2	273.3	163.7	273.3	599.2	266.4	146.2	266.4	599.2
48°	123.3	238.5	569.5	245.1	143.4	245.1	569.5	238.5	123.3	238.5	569.5
48.5°	102.5	211.5	537.0	218.1	123.1	218.1	537.0	211.5	102.5	211.5	537.0
49°	86.4	184.8	500.1	192.5	102.7	192.5	500.1	184.8	86.4	184.8	500.1
49.5°	71.4	158.9	462.7	168.6	84.7	168.6	462.7	158.9	71.4	158.9	462.7
50°	57.2	134.5	424.1	147.7	69.7	147.7	424.1	134.5	57.2	134.5	424.1
50.5°	45.5	112.6	386.2	128.1	54.9	128.1	386.2	112.6	45.5	112.6	386.2
51°	34.1	94.1	349.3	109.3	41.7	109.3	349.3	94.1	34.1	94.1	349.3
51.5°	24.4	78.6	315.0	91.8	32.8	91.8	315.0	78.6	24.4	78.6	315.0
52°	14.7	63.8	281.4	75.8	26.2	75.8	281.4	63.8	14.7	63.8	281.4
52.5°	5.3	51.4	249.2	61.3	19.6	61.3	249.2	51.4	5.3	51.4	249.2
53°	3.1	39.9	218.4	48.8	13.2	48.8	218.4	39.9	3.1	39.9	218.4
53.5°	2.3	29.5	191.2	37.1	7.6	37.1	191.2	29.5	2.3	29.5	191.2
54°	1.5	20.3	165.5	27.2	2.0	27.2	165.5	20.3	1.5	20.3	165.5
54.5°	0.8	11.2	141.6	20.3	1.0	20.3	141.6	11.2	0.8	11.2	141.6
55°	0.8	3.8	120.0	13.7	1.0	13.7	120.0	3.8	0.8	3.8	120.0
55.5°	0.8	2.3	99.4	8.4	1.0	8.4	99.4	2.3	0.8	2.3	99.4
56°	0.8	1.8	81.4	5.1	0.8	5.1	81.4	1.8	0.8	1.8	81.4
56.5°	0.8	1.0	67.1	2.0	0.8	2.0	67.1	1.0	0.8	1.0	67.1
57°	0.8	0.8	53.6	1.3	0.8	1.3	53.6	0.8	0.8	0.8	53.6
57.5°	0.8	0.8	41.7	0.8	0.8	0.8	41.7	0.8	0.8	0.8	41.7
58°	0.8	0.8	31.0	0.8	0.8	0.8	31.0	0.8	0.8	0.8	31.0
58.5°	0.5	0.5	22.4	0.8	0.8	0.8	22.4	0.5	0.5	0.5	22.4
59°	0.5	0.5	17.0	0.5	0.8	0.5	17.0	0.5	0.5	0.5	17.0
59.5°	0.5	0.5	12.5	0.5	0.8	0.5	12.5	0.5	0.5	0.5	12.5
60°	0.5	0.5	8.1	0.5	0.8	0.5	8.1	0.5	0.5	0.5	8.1
60.5°	0.5	0.5	4.8	0.5	0.5	0.5	4.8	0.5	0.5	0.5	4.8
61°	0.5	0.5	3.1	0.5	0.5	0.5	3.1	0.5	0.5	0.5	3.1
61.5°	0.5	0.5	1.8	0.5	0.5	0.5	1.8	0.5	0.5	0.5	1.8
62°	0.5	0.5	0.8	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.8
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.3	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.3
65.5°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P776218

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
77°	0.3	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.0
77.5°	0.0	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.0	0.3	0.0
78°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	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: P776218
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-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: P776218

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3
0.5°	1200.5	1200.5	1200.5	1200.3	1200.0	1199.8
1°	1200.3	1200.3	1200.3	1200.0	1199.8	1199.5
1.5°	1200.0	1200.0	1200.0	1199.8	1199.5	1199.2
2°	1199.8	1199.5	1199.8	1199.5	1199.0	1199.0
2.5°	1199.2	1199.2	1199.2	1199.0	1198.7	1198.5
3°	1198.7	1198.5	1198.7	1198.5	1198.0	1198.0
3.5°	1198.0	1198.0	1198.0	1197.7	1197.5	1197.2
4°	1197.2	1197.0	1197.2	1197.0	1196.7	1196.5
4.5°	1196.2	1196.2	1196.2	1195.9	1195.7	1195.4
5°	1195.2	1195.2	1195.2	1195.2	1194.7	1194.4
5.5°	1194.2	1193.9	1194.2	1193.9	1193.7	1193.4
6°	1192.9	1192.9	1192.9	1192.6	1192.4	1192.1
6.5°	1191.6	1191.4	1191.6	1191.4	1191.1	1190.9
7°	1190.1	1190.1	1190.1	1190.1	1189.6	1189.3
7.5°	1188.6	1188.3	1188.6	1188.3	1188.1	1187.8
8°	1186.8	1186.8	1186.8	1186.8	1186.3	1186.0
8.5°	1185.0	1184.8	1185.0	1185.0	1184.5	1184.2
9°	1183.2	1183.0	1183.2	1183.0	1182.5	1182.2
9.5°	1181.2	1180.7	1181.2	1180.9	1180.4	1180.2
10°	1178.9	1178.7	1178.9	1178.9	1178.4	1177.9
10.5°	1176.6	1176.4	1176.6	1176.6	1176.1	1175.6
11°	1174.1	1173.8	1174.1	1174.3	1173.6	1173.1
11.5°	1171.5	1171.3	1171.5	1171.8	1171.0	1170.5
12°	1169.0	1168.5	1169.0	1169.0	1168.2	1167.7
12.5°	1166.2	1165.7	1166.2	1166.2	1165.4	1164.9
13°	1163.4	1162.9	1163.4	1163.4	1162.6	1161.9
13.5°	1160.4	1159.8	1160.4	1160.4	1159.6	1158.8
14°	1157.0	1156.5	1157.0	1157.0	1156.3	1155.5
14.5°	1153.7	1153.2	1153.7	1153.7	1153.0	1152.2
15°	1150.2	1149.7	1150.2	1150.4	1149.4	1148.7
15.5°	1146.6	1146.1	1146.6	1146.9	1145.9	1145.1
16°	1143.1	1142.3	1143.1	1143.1	1142.0	1141.3
16.5°	1139.2	1138.5	1139.2	1139.2	1138.2	1137.5
17°	1135.2	1134.4	1135.2	1135.4	1134.2	1133.1
17.5°	1131.1	1130.4	1131.1	1131.1	1130.1	1129.1
18°	1126.8	1125.8	1126.8	1127.0	1125.8	1124.8
18.5°	1122.2	1121.2	1122.2	1122.5	1121.5	1120.2
19°	1117.6	1116.6	1117.6	1117.9	1116.9	1115.6
19.5°	1113.1	1112.0	1113.1	1113.3	1112.0	1110.8
20°	1108.2	1107.0	1108.2	1108.5	1107.2	1105.9
20.5°	1103.1	1101.9	1103.1	1103.7	1102.1	1100.6
21°	1098.1	1096.5	1098.1	1098.6	1097.0	1095.3



TEST NUMBER: P776218

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1081.5	1079.8	1081.5	1082.3	1080.5	1078.5
23°	1075.7	1073.7	1075.7	1076.7	1074.7	1072.4
23.5°	1069.6	1067.6	1069.6	1070.9	1068.8	1066.3
24°	1063.5	1061.2	1063.5	1064.8	1062.5	1060.2
24.5°	1057.1	1054.8	1057.1	1058.7	1056.1	1053.6
25°	1050.5	1048.0	1050.5	1052.3	1049.8	1046.7
25.5°	1043.9	1041.1	1043.9	1045.9	1043.1	1039.6
26°	1037.0	1034.2	1037.0	1039.3	1036.3	1032.7
26.5°	1029.9	1026.9	1029.9	1032.5	1029.2	1025.1
27°	1022.6	1019.2	1022.6	1025.6	1021.8	1017.7
27.5°	1015.2	1011.6	1015.2	1018.5	1014.4	1010.1
28°	1007.6	1003.7	1007.6	1011.1	1006.8	1002.0
28.5°	999.9	995.6	999.9	1003.7	998.9	993.8
29°	991.8	987.5	991.8	996.1	990.8	985.4
29.5°	983.7	978.8	983.7	988.2	982.6	977.0
30°	975.5	970.2	975.5	980.3	974.2	968.1
30.5°	966.9	961.5	966.9	972.2	965.9	959.2
31°	958.2	952.6	958.2	963.8	957.0	950.3
31.5°	949.6	943.2	949.6	955.4	948.3	941.2
32°	940.7	934.1	940.7	946.8	939.4	932.0
32.5°	931.5	924.7	931.5	937.9	930.3	922.6
33°	922.4	915.3	922.4	929.0	921.1	913.0
33.5°	913.2	905.6	913.2	919.6	911.7	903.1
34°	903.8	895.7	903.8	910.2	902.6	892.9
34.5°	894.2	885.5	894.2	900.8	892.9	882.7
35°	884.5	875.1	884.5	890.9	883.2	872.6
35.5°	874.8	864.4	874.8	881.2	873.6	861.9
36°	864.9	847.4	864.9	871.3	863.7	851.2
36.5°	854.8	828.6	854.8	861.1	853.2	838.5
37°	844.6	806.4	844.6	850.9	842.8	820.9
37.5°	833.9	785.1	833.9	840.5	832.4	794.2
38°	822.0	760.7	822.0	830.1	822.0	765.3
38.5°	804.9	732.7	804.9	819.7	810.8	730.9
39°	785.1	701.4	785.1	809.5	796.0	696.1
39.5°	764.5	666.6	764.5	798.8	775.9	660.8
40°	742.1	630.8	742.1	788.1	750.0	625.4
40.5°	717.0	594.2	717.0	778.0	719.8	589.8
41°	689.0	559.1	689.0	767.6	687.0	553.7
41.5°	658.2	524.5	658.2	757.4	653.9	518.9
42°	624.9	490.7	624.9	747.2	620.6	483.6
42.5°	591.1	457.1	591.1	737.0	587.5	449.5
43°	556.8	423.1	556.8	726.9	553.7	415.4
43.5°	523.7	389.2	523.7	716.4	519.9	382.1



TEST NUMBER: P776218

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	427.1	293.6	427.1	685.7	420.8	286.3
45.5°	394.8	264.2	394.8	675.3	389.0	256.0
46°	363.6	235.9	363.6	661.8	357.7	227.5
46.5°	332.8	208.5	332.8	646.0	326.7	199.8
47°	302.5	184.3	302.5	623.9	296.2	172.4
47.5°	273.3	163.7	273.3	599.2	266.4	146.2
48°	245.1	143.4	245.1	569.5	238.5	123.3
48.5°	218.1	123.1	218.1	537.0	211.5	102.5
49°	192.5	102.7	192.5	500.1	184.8	86.4
49.5°	168.6	84.7	168.6	462.7	158.9	71.4
50°	147.7	69.7	147.7	424.1	134.5	57.2
50.5°	128.1	54.9	128.1	386.2	112.6	45.5
51°	109.3	41.7	109.3	349.3	94.1	34.1
51.5°	91.8	32.8	91.8	315.0	78.6	24.4
52°	75.8	26.2	75.8	281.4	63.8	14.7
52.5°	61.3	19.6	61.3	249.2	51.4	5.3
53°	48.8	13.2	48.8	218.4	39.9	3.1
53.5°	37.1	7.6	37.1	191.2	29.5	2.3
54°	27.2	2.0	27.2	165.5	20.3	1.5
54.5°	20.3	1.0	20.3	141.6	11.2	0.8
55°	13.7	1.0	13.7	120.0	3.8	0.8
55.5°	8.4	1.0	8.4	99.4	2.3	0.8
56°	5.1	0.8	5.1	81.4	1.8	0.8
56.5°	2.0	0.8	2.0	67.1	1.0	0.8
57°	1.3	0.8	1.3	53.6	0.8	0.8
57.5°	0.8	0.8	0.8	41.7	0.8	0.8
58°	0.8	0.8	0.8	31.0	0.8	0.8
58.5°	0.8	0.8	0.8	22.4	0.5	0.5
59°	0.5	0.8	0.5	17.0	0.5	0.5
59.5°	0.5	0.8	0.5	12.5	0.5	0.5
60°	0.5	0.8	0.5	8.1	0.5	0.5
60.5°	0.5	0.5	0.5	4.8	0.5	0.5
61°	0.5	0.5	0.5	3.1	0.5	0.5
61.5°	0.5	0.5	0.5	1.8	0.5	0.5
62°	0.5	0.5	0.5	0.8	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.5	0.5	0.5	0.5	0.5
63.5°	0.5	0.5	0.5	0.5	0.5	0.5
64°	0.5	0.5	0.5	0.5	0.5	0.5
64.5°	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.3	0.5	0.5
65.5°	0.3	0.5	0.3	0.3	0.3	0.3
66°	0.3	0.5	0.3	0.3	0.3	0.3



TEST NUMBER: P776218
 CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.0	0.3	0.3
77°	0.3	0.3	0.3	0.0	0.3	0.3
77.5°	0.3	0.3	0.3	0.0	0.3	0.0
78°	0.0	0.3	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	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: P776218

CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMB-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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
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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Scaled Data Report





21.5°	1089.9	1091.7	1093.2	1092.7	1091.2	1092.7	1093.2	1091.7	1089.9	1091.7	1093.2
22°	1084.3	1086.1	1087.9	1087.1	1085.6	1087.1	1087.9	1086.1	1084.3	1086.1	1087.9



44°	349.1	486.6	706.3	491.2	356.4	491.2	706.3	486.6	349.1	486.6	706.3
44.5°	317.3	453.6	696.1	458.9	324.7	458.9	696.1	453.6	317.3	453.6	696.1



66.5°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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°	1092.7	1091.2	1092.7	1093.2	1091.7	1089.9
22°	1087.1	1085.6	1087.1	1087.9	1086.1	1084.3



44°	491.2	356.4	491.2	706.3	486.6	349.1
44.5°	458.9	324.7	458.9	696.1	453.6	317.3

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66.5°	0.3	0.5	0.3	0.3	0.3	0.3
67°	0.3	0.5	0.3	0.3	0.3	0.3

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Scaled Data Report



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

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Scaled Data Report



(END OF REPORT)