

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: P776219

Luminaire Tested: HCDJBL51525CSD-HCD8TSQMB-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776219
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-5000K
Description: 8 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

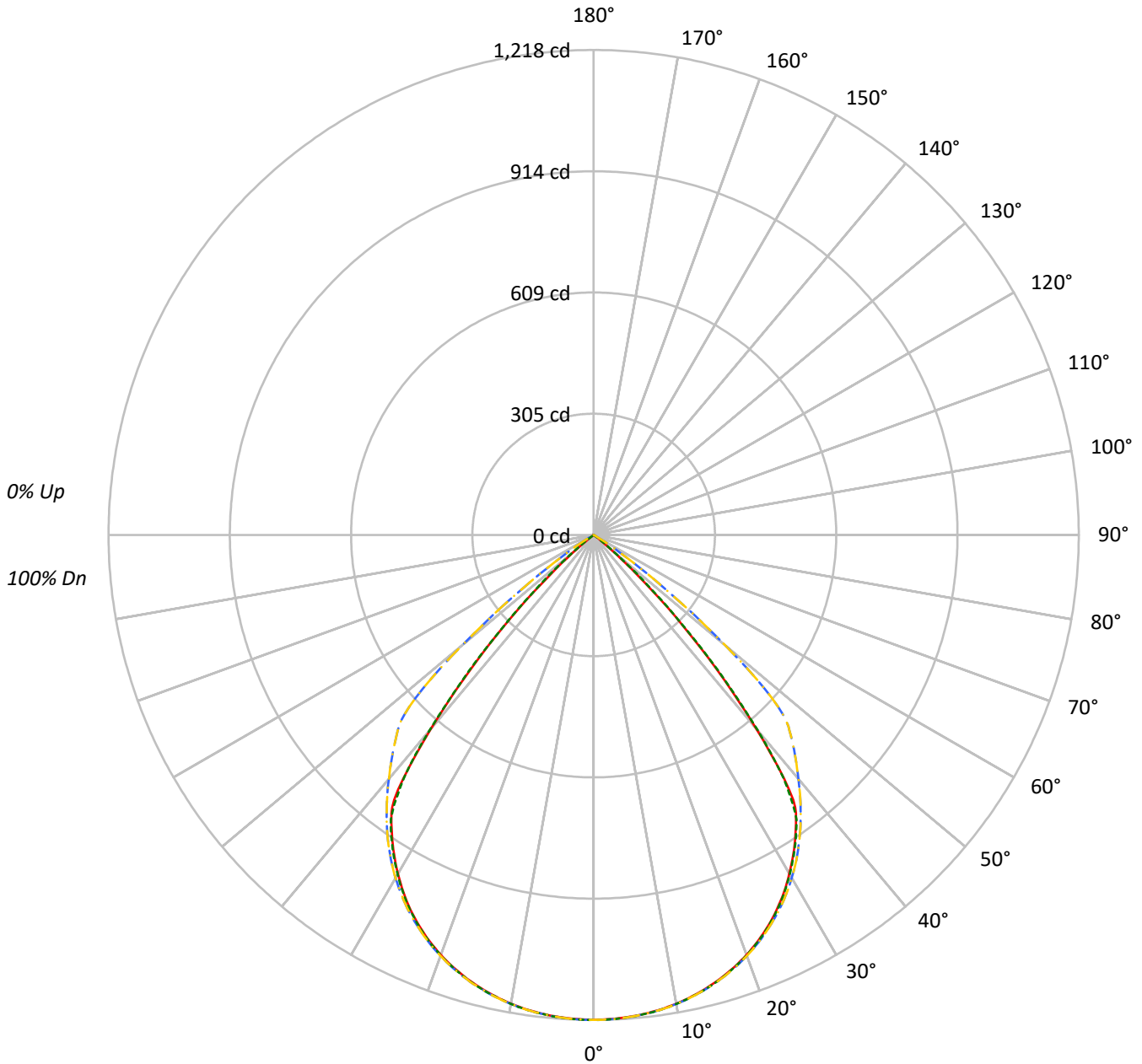
Lumens per Lamp: N/A
Luminaire Lumens: 1892.9 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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°	29206	29206	29206	29206
5°	29175	29195	29175	29195
10°	29104	29123	29104	29123
15°	28938	28963	28938	28963
20°	28638	28666	28638	28666
25°	28103	28137	28103	28137
30°	27203	27259	27203	27259
35°	25921	25997	25921	25997
40°	19867	20036	19867	20036
45°	9851	10105	9851	10105
50°	2167	2637	2167	2637
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: 23595 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	6.1
10°-20°	329.0	17.4
20°-30°	489.9	25.9
30°-40°	554.1	29.3
40°-50°	353.6	18.7
50°-60°	50.2	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°	934.1	49.4
0°-40°	1488.3	78.6
0°-60°	1892.1	100.0
0°-90°	1892.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1218	1218	1218	1218	1218	
5°	1212	1213	1212	1213	1212	115
15°	1166	1167	1166	1167	1166	329
25°	1062	1064	1062	1064	1062	488
35°	886	888	886	888	886	537
45°	290	298	290	298	290	232
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°	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0
0.5°	1217.5	1217.8	1218.0	1218.3	1218.3	1218.3	1218.0	1217.8	1217.5	1217.8	1218.0
1°	1217.3	1217.5	1217.8	1218.0	1218.0	1218.0	1217.8	1217.5	1217.3	1217.5	1217.8
1.5°	1217.0	1217.3	1217.5	1217.8	1217.8	1217.8	1217.5	1217.3	1217.0	1217.3	1217.5
2°	1216.7	1216.7	1217.3	1217.5	1217.3	1217.5	1217.3	1216.7	1216.7	1216.7	1217.3
2.5°	1216.2	1216.5	1216.7	1217.0	1217.0	1217.0	1216.7	1216.5	1216.2	1216.5	1216.7
3°	1215.7	1215.7	1216.2	1216.5	1216.2	1216.5	1216.2	1215.7	1215.7	1215.7	1216.2
3.5°	1214.9	1215.2	1215.5	1215.7	1215.7	1215.7	1215.5	1215.2	1214.9	1215.2	1215.5
4°	1214.2	1214.4	1214.7	1214.9	1214.7	1214.9	1214.7	1214.4	1214.2	1214.4	1214.7
4.5°	1213.1	1213.4	1213.7	1213.9	1213.9	1213.9	1213.7	1213.4	1213.1	1213.4	1213.7
5°	1212.1	1212.4	1212.9	1212.9	1212.9	1212.9	1212.9	1212.4	1212.1	1212.4	1212.9
5.5°	1211.1	1211.3	1211.6	1211.8	1211.6	1211.8	1211.6	1211.3	1211.1	1211.3	1211.6
6°	1209.8	1210.0	1210.3	1210.6	1210.6	1210.6	1210.3	1210.0	1209.8	1210.0	1210.3
6.5°	1208.5	1208.8	1209.0	1209.3	1209.0	1209.3	1209.0	1208.8	1208.5	1208.8	1209.0
7°	1206.9	1207.2	1207.7	1207.7	1207.7	1207.7	1207.7	1207.2	1206.9	1207.2	1207.7
7.5°	1205.4	1205.7	1205.9	1206.2	1205.9	1206.2	1205.9	1205.7	1205.4	1205.7	1205.9
8°	1203.6	1203.8	1204.4	1204.4	1204.4	1204.4	1204.4	1203.8	1203.6	1203.8	1204.4
8.5°	1201.8	1202.0	1202.6	1202.6	1202.3	1202.6	1202.6	1202.0	1201.8	1202.0	1202.6
9°	1199.7	1200.0	1200.5	1200.8	1200.5	1200.8	1200.5	1200.0	1199.7	1200.0	1200.5
9.5°	1197.7	1197.9	1198.4	1198.7	1198.2	1198.7	1198.4	1197.9	1197.7	1197.9	1198.4
10°	1195.3	1195.9	1196.4	1196.4	1196.1	1196.4	1196.4	1195.9	1195.3	1195.9	1196.4
10.5°	1193.0	1193.5	1194.0	1194.0	1193.8	1194.0	1194.0	1193.5	1193.0	1193.5	1194.0
11°	1190.4	1190.9	1191.7	1191.5	1191.2	1191.5	1191.7	1190.9	1190.4	1190.9	1191.7
11.5°	1187.9	1188.4	1189.1	1188.9	1188.6	1188.9	1189.1	1188.4	1187.9	1188.4	1189.1
12°	1185.0	1185.5	1186.3	1186.3	1185.8	1186.3	1186.3	1185.5	1185.0	1185.5	1186.3
12.5°	1182.2	1182.7	1183.5	1183.5	1183.0	1183.5	1183.5	1182.7	1182.2	1182.7	1183.5
13°	1179.1	1179.9	1180.6	1180.6	1180.1	1180.6	1180.6	1179.9	1179.1	1179.9	1180.6
13.5°	1176.0	1176.8	1177.5	1177.5	1177.0	1177.5	1177.5	1176.8	1176.0	1176.8	1177.5
14°	1172.6	1173.4	1174.2	1174.2	1173.7	1174.2	1174.2	1173.4	1172.6	1173.4	1174.2
14.5°	1169.3	1170.1	1170.8	1170.8	1170.3	1170.8	1170.8	1170.1	1169.3	1170.1	1170.8
15°	1165.7	1166.4	1167.5	1167.2	1166.7	1167.2	1167.5	1166.4	1165.7	1166.4	1167.5
15.5°	1162.1	1162.8	1163.9	1163.6	1163.1	1163.6	1163.9	1162.8	1162.1	1162.8	1163.9
16°	1158.2	1159.0	1160.0	1160.0	1159.2	1160.0	1160.0	1159.0	1158.2	1159.0	1160.0
16.5°	1154.3	1155.1	1156.1	1156.1	1155.3	1156.1	1156.1	1155.1	1154.3	1155.1	1156.1
17°	1149.9	1151.0	1152.2	1152.0	1151.2	1152.0	1152.2	1151.0	1149.9	1151.0	1152.2
17.5°	1145.8	1146.8	1147.9	1147.9	1147.1	1147.9	1147.9	1146.8	1145.8	1146.8	1147.9
18°	1141.4	1142.4	1143.7	1143.5	1142.4	1143.5	1143.7	1142.4	1141.4	1142.4	1143.7
18.5°	1136.8	1138.1	1139.1	1138.8	1137.8	1138.8	1139.1	1138.1	1136.8	1138.1	1139.1
19°	1132.1	1133.4	1134.4	1134.2	1133.2	1134.2	1134.4	1133.4	1132.1	1133.4	1134.4
19.5°	1127.2	1128.5	1129.8	1129.5	1128.5	1129.5	1129.8	1128.5	1127.2	1128.5	1129.8
20°	1122.3	1123.6	1124.9	1124.6	1123.4	1124.6	1124.9	1123.6	1122.3	1123.6	1124.9
20.5°	1116.9	1118.4	1120.0	1119.5	1118.2	1119.5	1120.0	1118.4	1116.9	1118.4	1120.0
21°	1111.5	1113.3	1114.8	1114.3	1112.8	1114.3	1114.8	1113.3	1111.5	1113.3	1114.8



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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°	1094.5	1096.5	1098.3	1097.6	1095.7	1097.6	1098.3	1096.5	1094.5	1096.5	1098.3
23°	1088.3	1090.6	1092.6	1091.6	1089.6	1091.6	1092.6	1090.6	1088.3	1090.6	1092.6
23.5°	1082.1	1084.7	1086.7	1085.4	1083.4	1085.4	1086.7	1084.7	1082.1	1084.7	1086.7
24°	1075.9	1078.2	1080.5	1079.2	1076.9	1079.2	1080.5	1078.2	1075.9	1078.2	1080.5
24.5°	1069.2	1071.8	1074.3	1072.8	1070.5	1072.8	1074.3	1071.8	1069.2	1071.8	1074.3
25°	1062.2	1065.3	1067.9	1066.1	1063.5	1066.1	1067.9	1065.3	1062.2	1065.3	1067.9
25.5°	1055.0	1058.6	1061.4	1059.4	1056.5	1059.4	1061.4	1058.6	1055.0	1058.6	1061.4
26°	1048.0	1051.6	1054.7	1052.4	1049.6	1052.4	1054.7	1051.6	1048.0	1051.6	1054.7
26.5°	1040.3	1044.4	1047.8	1045.2	1042.1	1045.2	1047.8	1044.4	1040.3	1044.4	1047.8
27°	1032.8	1036.9	1040.8	1037.7	1034.3	1037.7	1040.8	1036.9	1032.8	1036.9	1040.8
27.5°	1025.1	1029.4	1033.6	1030.2	1026.6	1030.2	1033.6	1029.4	1025.1	1029.4	1033.6
28°	1016.8	1021.7	1026.1	1022.5	1018.6	1022.5	1026.1	1021.7	1016.8	1021.7	1026.1
28.5°	1008.5	1013.7	1018.6	1014.7	1010.3	1014.7	1018.6	1013.7	1008.5	1013.7	1018.6
29°	1000.0	1005.4	1010.9	1006.5	1002.1	1006.5	1010.9	1005.4	1000.0	1005.4	1010.9
29.5°	991.5	997.2	1002.9	998.2	993.3	998.2	1002.9	997.2	991.5	997.2	1002.9
30°	982.5	988.7	994.9	990.0	984.5	990.0	994.9	988.7	982.5	988.7	994.9
30.5°	973.5	980.2	986.6	981.2	975.8	981.2	986.6	980.2	973.5	980.2	986.6
31°	964.4	971.1	978.1	972.4	966.7	972.4	978.1	971.1	964.4	971.1	978.1
31.5°	955.1	962.4	969.6	963.6	957.2	963.6	969.6	962.4	955.1	962.4	969.6
32°	945.8	953.3	960.8	954.6	947.9	954.6	960.8	953.3	945.8	953.3	960.8
32.5°	936.3	944.0	951.8	945.3	938.4	945.3	951.8	944.0	936.3	944.0	951.8
33°	926.5	934.8	942.7	936.0	928.8	936.0	942.7	934.8	926.5	934.8	942.7
33.5°	916.4	925.2	933.2	926.8	919.0	926.8	933.2	925.2	916.4	925.2	933.2
34°	906.1	915.9	923.7	917.2	909.0	917.2	923.7	915.9	906.1	915.9	923.7
34.5°	895.8	906.1	914.1	907.4	898.6	907.4	914.1	906.1	895.8	906.1	914.1
35°	885.5	896.3	904.0	897.6	888.1	897.6	904.0	896.3	885.5	896.3	904.0
35.5°	874.6	886.5	894.2	887.8	877.2	887.8	894.2	886.5	874.6	886.5	894.2
36°	863.8	876.4	884.2	877.7	859.9	877.7	884.2	876.4	863.8	876.4	884.2
36.5°	850.9	865.9	873.9	867.4	840.8	867.4	873.9	865.9	850.9	865.9	873.9
37°	833.1	855.3	863.5	857.1	818.4	857.1	863.5	855.3	833.1	855.3	863.5
37.5°	806.0	844.7	853.0	846.3	796.7	846.3	853.0	844.7	806.0	844.7	853.0
38°	776.6	834.1	842.4	834.1	771.9	834.1	842.4	834.1	776.6	834.1	842.4
38.5°	741.8	822.8	831.8	816.8	743.6	816.8	831.8	822.8	741.8	822.8	831.8
39°	706.4	807.8	821.5	796.7	711.8	796.7	821.5	807.8	706.4	807.8	821.5
39.5°	670.6	787.4	810.7	775.8	676.5	775.8	810.7	787.4	670.6	787.4	810.7
40°	634.7	761.1	799.8	753.1	640.1	753.1	799.8	761.1	634.7	761.1	799.8
40.5°	598.6	730.4	789.5	727.6	603.0	727.6	789.5	730.4	598.6	730.4	789.5
41°	561.9	697.1	778.9	699.2	567.4	699.2	778.9	697.1	561.9	697.1	778.9
41.5°	526.6	663.6	768.6	668.0	532.3	668.0	768.6	663.6	526.6	663.6	768.6
42°	490.7	629.8	758.3	634.2	497.9	634.2	758.3	629.8	490.7	629.8	758.3
42.5°	456.2	596.2	748.0	599.9	463.9	599.9	748.0	596.2	456.2	596.2	748.0
43°	421.6	561.9	737.6	565.0	429.3	565.0	737.6	561.9	421.6	561.9	737.6
43.5°	387.8	527.6	727.1	531.5	395.0	531.5	727.1	527.6	387.8	527.6	727.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	290.5	427.0	695.8	433.4	298.0	433.4	695.8	427.0	290.5	427.0	695.8
45.5°	259.8	394.7	685.3	400.7	268.1	400.7	685.3	394.7	259.8	394.7	685.3
46°	230.9	363.0	671.6	368.9	239.4	368.9	671.6	363.0	230.9	363.0	671.6
46.5°	202.8	331.5	655.6	337.7	211.6	337.7	655.6	331.5	202.8	331.5	655.6
47°	174.9	300.6	633.1	307.0	187.1	307.0	633.1	300.6	174.9	300.6	633.1
47.5°	148.4	270.4	608.1	277.4	166.2	277.4	608.1	270.4	148.4	270.4	608.1
48°	125.1	242.0	577.9	248.7	145.5	248.7	577.9	242.0	125.1	242.0	577.9
48.5°	104.0	214.7	544.9	221.4	124.9	221.4	544.9	214.7	104.0	214.7	544.9
49°	87.7	187.6	507.5	195.3	104.2	195.3	507.5	187.6	87.7	187.6	507.5
49.5°	72.5	161.3	469.6	171.1	85.9	171.1	469.6	161.3	72.5	161.3	469.6
50°	58.1	136.5	430.4	149.9	70.7	149.9	430.4	136.5	58.1	136.5	430.4
50.5°	46.2	114.3	391.9	130.0	55.7	130.0	391.9	114.3	46.2	114.3	391.9
51°	34.6	95.5	354.5	110.9	42.3	110.9	354.5	95.5	34.6	95.5	354.5
51.5°	24.8	79.7	319.7	93.1	33.3	93.1	319.7	79.7	24.8	79.7	319.7
52°	15.0	64.8	285.6	76.9	26.6	76.9	285.6	64.8	15.0	64.8	285.6
52.5°	5.4	52.1	252.8	62.2	19.9	62.2	252.8	52.1	5.4	52.1	252.8
53°	3.1	40.5	221.6	49.5	13.4	49.5	221.6	40.5	3.1	40.5	221.6
53.5°	2.3	29.9	194.0	37.7	7.7	37.7	194.0	29.9	2.3	29.9	194.0
54°	1.5	20.6	168.0	27.6	2.1	27.6	168.0	20.6	1.5	20.6	168.0
54.5°	0.8	11.4	143.7	20.6	1.0	20.6	143.7	11.4	0.8	11.4	143.7
55°	0.8	3.9	121.8	13.9	1.0	13.9	121.8	3.9	0.8	3.9	121.8
55.5°	0.8	2.3	100.9	8.5	1.0	8.5	100.9	2.3	0.8	2.3	100.9
56°	0.8	1.8	82.6	5.2	0.8	5.2	82.6	1.8	0.8	1.8	82.6
56.5°	0.8	1.0	68.1	2.1	0.8	2.1	68.1	1.0	0.8	1.0	68.1
57°	0.8	0.8	54.4	1.3	0.8	1.3	54.4	0.8	0.8	0.8	54.4
57.5°	0.8	0.8	42.3	0.8	0.8	0.8	42.3	0.8	0.8	0.8	42.3
58°	0.8	0.8	31.5	0.8	0.8	0.8	31.5	0.8	0.8	0.8	31.5
58.5°	0.5	0.5	22.7	0.8	0.8	0.8	22.7	0.5	0.5	0.5	22.7
59°	0.5	0.5	17.3	0.5	0.8	0.5	17.3	0.5	0.5	0.5	17.3
59.5°	0.5	0.5	12.6	0.5	0.8	0.5	12.6	0.5	0.5	0.5	12.6
60°	0.5	0.5	8.3	0.5	0.8	0.5	8.3	0.5	0.5	0.5	8.3
60.5°	0.5	0.5	4.9	0.5	0.5	0.5	4.9	0.5	0.5	0.5	4.9
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: P776219

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-5000K

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: P776219
CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776219

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1218.0	1218.0	1218.0	1218.0	1218.0	1218.0
0.5°	1218.3	1218.3	1218.3	1218.0	1217.8	1217.5
1°	1218.0	1218.0	1218.0	1217.8	1217.5	1217.3
1.5°	1217.8	1217.8	1217.8	1217.5	1217.3	1217.0
2°	1217.5	1217.3	1217.5	1217.3	1216.7	1216.7
2.5°	1217.0	1217.0	1217.0	1216.7	1216.5	1216.2
3°	1216.5	1216.2	1216.5	1216.2	1215.7	1215.7
3.5°	1215.7	1215.7	1215.7	1215.5	1215.2	1214.9
4°	1214.9	1214.7	1214.9	1214.7	1214.4	1214.2
4.5°	1213.9	1213.9	1213.9	1213.7	1213.4	1213.1
5°	1212.9	1212.9	1212.9	1212.9	1212.4	1212.1
5.5°	1211.8	1211.6	1211.8	1211.6	1211.3	1211.1
6°	1210.6	1210.6	1210.6	1210.3	1210.0	1209.8
6.5°	1209.3	1209.0	1209.3	1209.0	1208.8	1208.5
7°	1207.7	1207.7	1207.7	1207.7	1207.2	1206.9
7.5°	1206.2	1205.9	1206.2	1205.9	1205.7	1205.4
8°	1204.4	1204.4	1204.4	1204.4	1203.8	1203.6
8.5°	1202.6	1202.3	1202.6	1202.6	1202.0	1201.8
9°	1200.8	1200.5	1200.8	1200.5	1200.0	1199.7
9.5°	1198.7	1198.2	1198.7	1198.4	1197.9	1197.7
10°	1196.4	1196.1	1196.4	1196.4	1195.9	1195.3
10.5°	1194.0	1193.8	1194.0	1194.0	1193.5	1193.0
11°	1191.5	1191.2	1191.5	1191.7	1190.9	1190.4
11.5°	1188.9	1188.6	1188.9	1189.1	1188.4	1187.9
12°	1186.3	1185.8	1186.3	1186.3	1185.5	1185.0
12.5°	1183.5	1183.0	1183.5	1183.5	1182.7	1182.2
13°	1180.6	1180.1	1180.6	1180.6	1179.9	1179.1
13.5°	1177.5	1177.0	1177.5	1177.5	1176.8	1176.0
14°	1174.2	1173.7	1174.2	1174.2	1173.4	1172.6
14.5°	1170.8	1170.3	1170.8	1170.8	1170.1	1169.3
15°	1167.2	1166.7	1167.2	1167.5	1166.4	1165.7
15.5°	1163.6	1163.1	1163.6	1163.9	1162.8	1162.1
16°	1160.0	1159.2	1160.0	1160.0	1159.0	1158.2
16.5°	1156.1	1155.3	1156.1	1156.1	1155.1	1154.3
17°	1152.0	1151.2	1152.0	1152.2	1151.0	1149.9
17.5°	1147.9	1147.1	1147.9	1147.9	1146.8	1145.8
18°	1143.5	1142.4	1143.5	1143.7	1142.4	1141.4
18.5°	1138.8	1137.8	1138.8	1139.1	1138.1	1136.8
19°	1134.2	1133.2	1134.2	1134.4	1133.4	1132.1
19.5°	1129.5	1128.5	1129.5	1129.8	1128.5	1127.2
20°	1124.6	1123.4	1124.6	1124.9	1123.6	1122.3
20.5°	1119.5	1118.2	1119.5	1120.0	1118.4	1116.9
21°	1114.3	1112.8	1114.3	1114.8	1113.3	1111.5



TEST NUMBER: P776219

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1097.6	1095.7	1097.6	1098.3	1096.5	1094.5
23°	1091.6	1089.6	1091.6	1092.6	1090.6	1088.3
23.5°	1085.4	1083.4	1085.4	1086.7	1084.7	1082.1
24°	1079.2	1076.9	1079.2	1080.5	1078.2	1075.9
24.5°	1072.8	1070.5	1072.8	1074.3	1071.8	1069.2
25°	1066.1	1063.5	1066.1	1067.9	1065.3	1062.2
25.5°	1059.4	1056.5	1059.4	1061.4	1058.6	1055.0
26°	1052.4	1049.6	1052.4	1054.7	1051.6	1048.0
26.5°	1045.2	1042.1	1045.2	1047.8	1044.4	1040.3
27°	1037.7	1034.3	1037.7	1040.8	1036.9	1032.8
27.5°	1030.2	1026.6	1030.2	1033.6	1029.4	1025.1
28°	1022.5	1018.6	1022.5	1026.1	1021.7	1016.8
28.5°	1014.7	1010.3	1014.7	1018.6	1013.7	1008.5
29°	1006.5	1002.1	1006.5	1010.9	1005.4	1000.0
29.5°	998.2	993.3	998.2	1002.9	997.2	991.5
30°	990.0	984.5	990.0	994.9	988.7	982.5
30.5°	981.2	975.8	981.2	986.6	980.2	973.5
31°	972.4	966.7	972.4	978.1	971.1	964.4
31.5°	963.6	957.2	963.6	969.6	962.4	955.1
32°	954.6	947.9	954.6	960.8	953.3	945.8
32.5°	945.3	938.4	945.3	951.8	944.0	936.3
33°	936.0	928.8	936.0	942.7	934.8	926.5
33.5°	926.8	919.0	926.8	933.2	925.2	916.4
34°	917.2	909.0	917.2	923.7	915.9	906.1
34.5°	907.4	898.6	907.4	914.1	906.1	895.8
35°	897.6	888.1	897.6	904.0	896.3	885.5
35.5°	887.8	877.2	887.8	894.2	886.5	874.6
36°	877.7	859.9	877.7	884.2	876.4	863.8
36.5°	867.4	840.8	867.4	873.9	865.9	850.9
37°	857.1	818.4	857.1	863.5	855.3	833.1
37.5°	846.3	796.7	846.3	853.0	844.7	806.0
38°	834.1	771.9	834.1	842.4	834.1	776.6
38.5°	816.8	743.6	816.8	831.8	822.8	741.8
39°	796.7	711.8	796.7	821.5	807.8	706.4
39.5°	775.8	676.5	775.8	810.7	787.4	670.6
40°	753.1	640.1	753.1	799.8	761.1	634.7
40.5°	727.6	603.0	727.6	789.5	730.4	598.6
41°	699.2	567.4	699.2	778.9	697.1	561.9
41.5°	668.0	532.3	668.0	768.6	663.6	526.6
42°	634.2	497.9	634.2	758.3	629.8	490.7
42.5°	599.9	463.9	599.9	748.0	596.2	456.2
43°	565.0	429.3	565.0	737.6	561.9	421.6
43.5°	531.5	395.0	531.5	727.1	527.6	387.8



TEST NUMBER: P776219

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TSQMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	433.4	298.0	433.4	695.8	427.0	290.5
45.5°	400.7	268.1	400.7	685.3	394.7	259.8
46°	368.9	239.4	368.9	671.6	363.0	230.9
46.5°	337.7	211.6	337.7	655.6	331.5	202.8
47°	307.0	187.1	307.0	633.1	300.6	174.9
47.5°	277.4	166.2	277.4	608.1	270.4	148.4
48°	248.7	145.5	248.7	577.9	242.0	125.1
48.5°	221.4	124.9	221.4	544.9	214.7	104.0
49°	195.3	104.2	195.3	507.5	187.6	87.7
49.5°	171.1	85.9	171.1	469.6	161.3	72.5
50°	149.9	70.7	149.9	430.4	136.5	58.1
50.5°	130.0	55.7	130.0	391.9	114.3	46.2
51°	110.9	42.3	110.9	354.5	95.5	34.6
51.5°	93.1	33.3	93.1	319.7	79.7	24.8
52°	76.9	26.6	76.9	285.6	64.8	15.0
52.5°	62.2	19.9	62.2	252.8	52.1	5.4
53°	49.5	13.4	49.5	221.6	40.5	3.1
53.5°	37.7	7.7	37.7	194.0	29.9	2.3
54°	27.6	2.1	27.6	168.0	20.6	1.5
54.5°	20.6	1.0	20.6	143.7	11.4	0.8
55°	13.9	1.0	13.9	121.8	3.9	0.8
55.5°	8.5	1.0	8.5	100.9	2.3	0.8
56°	5.2	0.8	5.2	82.6	1.8	0.8
56.5°	2.1	0.8	2.1	68.1	1.0	0.8
57°	1.3	0.8	1.3	54.4	0.8	0.8
57.5°	0.8	0.8	0.8	42.3	0.8	0.8
58°	0.8	0.8	0.8	31.5	0.8	0.8
58.5°	0.8	0.8	0.8	22.7	0.5	0.5
59°	0.5	0.8	0.5	17.3	0.5	0.5
59.5°	0.5	0.8	0.5	12.6	0.5	0.5
60°	0.5	0.8	0.5	8.3	0.5	0.5
60.5°	0.5	0.5	0.5	4.9	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: P776219

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQMB-2500lm-5000K

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: P776219
CATALOG NUMBER: HCDJBL1525CSD-HCD8TSQMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

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



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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report





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

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Scaled Data Report





21.5°	1106.1	1107.9	1109.4	1108.9	1107.4	1108.9	1109.4	1107.9	1106.1	1107.9	1109.4
22°	1100.4	1102.2	1104.0	1103.2	1101.7	1103.2	1104.0	1102.2	1100.4	1102.2	1104.0



44°	354.2	493.8	716.7	498.5	361.7	498.5	716.7	493.8	354.2	493.8	716.7
44.5°	322.0	460.3	706.4	465.7	329.5	465.7	706.4	460.3	322.0	460.3	706.4



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°	1108.9	1107.4	1108.9	1109.4	1107.9	1106.1
22°	1103.2	1101.7	1103.2	1104.0	1102.2	1100.4



44°	498.5	361.7	498.5	716.7	493.8	354.2
44.5°	465.7	329.5	465.7	706.4	460.3	322.0

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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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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)