

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: P776042

Luminaire Tested: HCDJBS1525CSD-HCD61TRMB-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B038)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD61TRMB-2500lm-3500K
Description: 6 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

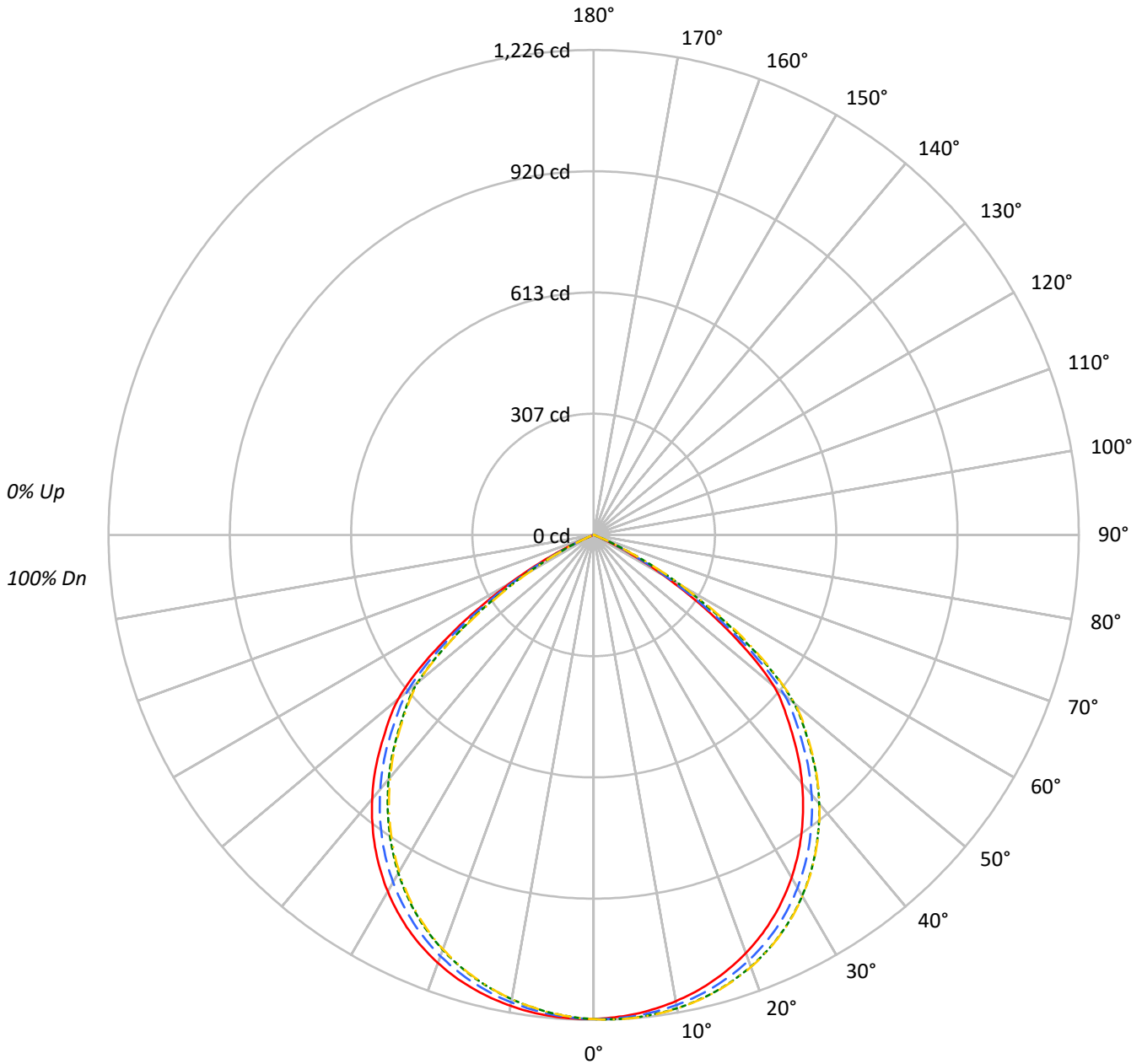
Lumens per Lamp: N/A
Luminaire Lumens: 2561.2 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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





TEST NUMBER: P776042

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-3500K

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90								
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79								
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43								
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	67100	67100	67100	67100
5°	66888	67384	67202	66762
10°	66615	67634	67300	66348
15°	66221	67776	67316	65840
20°	65631	67748	67165	65117
25°	64709	67437	66742	64038
30°	63320	66719	65877	62510
35°	61322	65417	64460	60385
40°	58631	63419	62324	57644
45°	55021	60347	59122	53990
50°	50710	56314	54924	49534
55°	38326	44414	42952	37150
60°	22213	27772	26697	21775
65°	6836	10533	9664	7381
70°	128	208	128	128
75°	64	106	64	64
80°	95	95	0	95
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°

Vertical Angle: 45°

Luminance: 60557 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	4.5
10°-20°	332.1	13.0
20°-30°	500.2	19.5
30°-40°	586.7	22.9
40°-50°	568.2	22.2
50°-60°	378.0	14.8
60°-70°	79.7	3.1
70°-80°	0.5	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°	948.1	37.0
0°-40°	1534.8	59.9
0°-60°	2481.0	96.9
0°-90°	2561.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1224	1224	1224	1224	1224	
5°	1216	1224	1221	1213	1216	115
15°	1167	1194	1186	1160	1167	329
25°	1070	1115	1103	1059	1070	492
35°	916	978	963	902	916	572
45°	710	778	763	696	710	547
55°	401	465	449	389	401	356
65°	53	81	74	57	53	67
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0
0.5°	1223.3	1223.3	1224.0	1224.8	1224.5	1224.8	1224.8	1224.5	1223.8	1223.5	1223.8
1°	1222.8	1223.3	1224.0	1225.0	1225.0	1225.3	1225.3	1224.8	1224.0	1223.3	1223.3
1.5°	1222.2	1222.8	1224.0	1224.8	1225.3	1225.5	1225.5	1225.0	1224.0	1223.3	1223.0
2°	1221.5	1222.2	1223.8	1224.8	1225.5	1226.0	1226.0	1225.0	1224.0	1222.8	1222.5
2.5°	1220.7	1221.7	1223.3	1224.8	1225.5	1226.0	1226.0	1225.0	1223.8	1222.5	1221.7
3°	1219.7	1221.2	1223.0	1224.5	1225.5	1226.0	1226.0	1225.0	1223.5	1222.0	1221.0
3.5°	1219.0	1220.5	1222.5	1224.3	1225.3	1226.0	1226.0	1225.0	1223.0	1221.2	1220.0
4°	1217.7	1219.5	1222.0	1223.8	1225.3	1225.8	1225.8	1224.5	1222.5	1220.7	1219.2
4.5°	1216.7	1218.7	1221.2	1223.3	1224.8	1225.5	1225.5	1224.3	1222.0	1220.0	1218.2
5°	1215.5	1217.7	1220.2	1222.8	1224.5	1225.3	1225.0	1223.8	1221.2	1219.0	1217.0
5.5°	1214.2	1216.5	1219.5	1222.2	1224.0	1224.8	1224.5	1223.0	1220.5	1218.0	1215.7
6°	1212.5	1215.2	1218.7	1221.5	1223.3	1224.3	1224.0	1222.2	1219.7	1216.7	1214.2
6.5°	1211.0	1214.0	1217.5	1220.5	1222.8	1223.5	1223.3	1221.5	1218.7	1215.7	1212.7
7°	1209.2	1212.5	1216.2	1219.5	1221.7	1222.8	1222.5	1220.5	1217.7	1214.2	1211.2
7.5°	1207.5	1211.0	1215.0	1218.5	1221.0	1222.0	1221.7	1219.5	1216.2	1213.0	1209.7
8°	1205.7	1209.5	1213.5	1217.2	1220.0	1221.0	1220.7	1218.5	1215.2	1211.5	1208.0
8.5°	1203.4	1207.7	1212.0	1216.0	1218.7	1220.0	1219.7	1217.2	1213.7	1209.7	1205.9
9°	1201.4	1205.7	1210.2	1214.5	1217.7	1218.7	1218.5	1216.0	1212.2	1208.2	1204.2
9.5°	1199.2	1203.7	1208.5	1213.0	1216.2	1217.5	1217.2	1214.5	1210.7	1206.2	1201.9
10°	1196.7	1201.7	1206.7	1211.2	1215.0	1216.0	1215.7	1213.2	1209.0	1204.2	1199.9
10.5°	1194.4	1199.4	1204.7	1209.5	1213.2	1214.5	1214.2	1211.5	1207.2	1202.2	1197.7
11°	1191.7	1197.2	1202.7	1207.7	1211.7	1213.0	1212.5	1209.7	1205.4	1200.2	1195.2
11.5°	1189.1	1194.7	1200.4	1205.4	1210.0	1211.2	1210.7	1207.7	1203.2	1197.9	1192.9
12°	1186.1	1192.2	1198.2	1203.4	1208.0	1209.5	1209.0	1205.9	1201.2	1195.7	1190.2
12.5°	1183.4	1189.4	1195.7	1201.2	1205.9	1207.5	1207.0	1203.9	1199.2	1193.2	1187.6
13°	1180.1	1186.6	1193.2	1198.9	1203.7	1205.4	1204.7	1201.7	1196.7	1190.7	1184.6
13.5°	1177.1	1183.6	1190.7	1196.4	1201.7	1203.2	1202.7	1199.4	1194.2	1187.9	1181.6
14°	1173.9	1180.6	1187.6	1193.9	1199.2	1200.9	1200.2	1196.9	1191.7	1185.1	1178.6
14.5°	1170.3	1177.6	1184.9	1191.4	1196.7	1198.4	1197.7	1194.4	1188.9	1182.1	1175.6
15°	1166.8	1174.1	1181.9	1188.4	1194.2	1195.9	1195.2	1191.7	1186.1	1179.1	1172.3
15.5°	1163.1	1170.8	1178.9	1185.6	1191.4	1193.2	1192.7	1189.1	1183.1	1176.1	1169.1
16°	1159.6	1167.3	1175.6	1182.6	1188.6	1190.4	1189.6	1186.1	1180.1	1172.8	1165.3
16.5°	1155.5	1163.6	1172.1	1179.6	1185.6	1187.4	1186.6	1183.1	1177.1	1169.3	1161.6
17°	1151.5	1159.8	1168.6	1176.1	1182.6	1184.4	1183.6	1179.9	1173.9	1165.8	1157.8
17.5°	1147.5	1156.0	1165.1	1172.6	1179.4	1181.4	1180.6	1176.9	1170.3	1162.1	1153.8
18°	1143.3	1152.3	1161.3	1169.1	1175.9	1177.9	1177.1	1173.1	1166.8	1158.3	1149.8
18.5°	1138.7	1148.0	1157.6	1165.6	1172.6	1174.4	1173.6	1169.6	1163.1	1154.5	1145.8
19°	1134.2	1143.5	1153.3	1161.8	1168.8	1170.8	1170.1	1165.8	1159.3	1150.5	1141.5
19.5°	1129.7	1139.2	1149.3	1157.8	1165.3	1167.3	1166.3	1162.1	1155.3	1146.5	1137.2
20°	1125.0	1135.0	1145.0	1153.8	1161.3	1163.3	1162.6	1158.3	1151.3	1142.3	1133.0
20.5°	1119.9	1130.2	1140.5	1149.8	1157.3	1159.3	1158.6	1154.0	1147.3	1137.7	1128.0
21°	1115.2	1125.2	1136.2	1145.5	1153.0	1155.3	1154.3	1150.0	1143.0	1133.2	1123.4



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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°	1099.1	1110.4	1121.7	1131.5	1140.0	1142.0	1141.0	1136.5	1129.0	1118.9	1108.1
23°	1093.6	1105.1	1116.7	1126.7	1135.2	1137.5	1136.2	1131.7	1124.2	1113.7	1102.6
23.5°	1087.8	1099.6	1111.7	1121.7	1130.5	1132.7	1131.7	1127.0	1119.4	1108.4	1097.4
24°	1082.1	1094.1	1106.1	1116.7	1125.5	1127.7	1126.5	1121.7	1114.2	1103.1	1091.8
24.5°	1075.8	1088.1	1100.6	1111.2	1120.4	1122.7	1121.4	1116.7	1108.9	1097.6	1086.1
25°	1069.8	1082.1	1094.9	1105.6	1114.9	1117.2	1115.9	1111.4	1103.4	1092.1	1080.1
25.5°	1063.5	1076.3	1089.1	1100.1	1109.7	1111.9	1110.7	1105.9	1097.9	1086.1	1074.0
26°	1057.2	1070.0	1083.3	1094.4	1104.1	1106.1	1105.1	1100.1	1092.1	1080.1	1068.0
26.5°	1050.5	1063.8	1077.1	1088.6	1098.4	1100.6	1099.4	1094.4	1086.3	1074.0	1061.5
27°	1044.0	1057.2	1070.8	1082.6	1092.4	1094.9	1093.4	1088.6	1080.1	1067.8	1055.2
27.5°	1036.9	1050.5	1064.3	1076.3	1086.6	1088.8	1087.6	1082.6	1074.0	1061.5	1048.7
28°	1029.9	1043.7	1057.7	1069.8	1080.3	1082.3	1081.3	1076.3	1067.5	1054.7	1041.9
28.5°	1022.6	1036.9	1051.2	1063.5	1073.8	1076.3	1075.0	1070.0	1061.0	1048.2	1035.2
29°	1015.4	1029.7	1044.2	1057.0	1067.3	1069.5	1068.5	1063.5	1054.7	1041.4	1028.2
29.5°	1008.1	1022.6	1037.2	1050.2	1061.0	1063.0	1061.8	1056.7	1047.7	1034.7	1020.9
30°	1000.3	1015.1	1030.2	1043.2	1054.0	1056.2	1055.0	1050.0	1040.7	1027.2	1013.6
30.5°	992.5	1007.8	1022.9	1035.9	1047.0	1049.2	1048.2	1043.2	1033.7	1019.9	1006.3
31°	984.8	1000.1	1015.4	1028.7	1039.9	1041.9	1040.9	1035.9	1026.4	1012.6	998.6
31.5°	976.5	992.3	1007.8	1021.4	1032.7	1034.7	1033.4	1028.7	1018.9	1005.1	991.0
32°	968.5	984.3	1000.1	1014.1	1025.1	1027.4	1026.1	1021.1	1011.4	997.3	983.0
32.5°	959.9	976.2	992.0	1006.1	1017.6	1019.6	1018.9	1013.9	1003.8	989.5	975.0
33°	951.7	968.0	984.3	998.3	1010.1	1012.1	1011.1	1005.8	996.1	981.5	967.0
33.5°	943.1	959.7	976.0	990.3	1002.1	1004.1	1003.1	997.8	988.0	973.5	958.7
34°	934.4	951.2	967.7	982.3	994.0	996.3	995.1	990.0	979.8	965.2	950.2
34.5°	925.3	942.6	959.2	973.7	985.8	988.0	987.0	981.8	971.5	956.7	941.6
35°	916.3	933.9	950.4	965.5	977.5	979.5	978.5	973.5	963.2	947.9	932.9
35.5°	907.3	924.8	941.9	956.7	969.0	971.2	970.0	965.0	954.4	939.4	924.1
36°	897.8	915.6	932.9	948.2	960.4	962.5	961.4	956.4	945.7	930.9	915.1
36.5°	888.7	906.5	923.8	939.1	951.7	953.9	952.9	947.7	936.9	921.8	906.0
37°	878.9	897.3	914.6	929.9	942.9	944.9	943.9	938.9	927.8	912.5	896.8
37.5°	869.2	887.7	905.3	920.8	933.6	935.9	934.6	929.9	918.6	903.5	887.7
38°	859.1	878.2	895.7	911.3	924.6	926.6	925.6	920.3	909.5	893.7	878.2
38.5°	849.6	868.4	886.5	901.8	915.3	917.3	916.6	911.0	900.0	884.7	868.4
39°	839.8	858.9	876.7	892.5	905.8	907.8	907.0	901.8	890.2	874.9	858.9
39.5°	829.5	848.9	866.7	882.5	896.0	898.3	897.3	892.0	880.7	865.2	848.9
40°	819.3	838.6	856.9	872.4	886.2	888.5	887.5	882.5	870.9	855.1	839.1
40.5°	809.0	828.5	846.6	862.4	876.2	878.7	877.7	872.2	860.9	845.3	829.0
41°	798.4	818.0	836.3	851.9	866.2	868.7	867.7	862.1	850.9	835.1	818.8
41.5°	787.7	807.5	825.8	841.8	855.6	858.4	857.6	851.9	840.3	824.8	808.5
42°	777.1	796.7	815.3	831.0	845.3	848.1	847.1	841.6	830.0	814.2	797.9
42.5°	766.4	786.4	804.5	820.3	834.8	837.6	836.8	830.8	819.3	804.0	787.4
43°	755.1	775.4	793.4	809.2	824.0	826.5	826.0	820.0	808.5	792.7	776.6
43.5°	744.0	763.8	782.4	797.9	812.7	815.8	815.0	809.0	797.4	781.6	765.6



TEST NUMBER: P776042

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	709.7	729.5	747.5	763.1	778.4	781.1	780.9	774.4	762.6	747.0	731.0
45.5°	698.1	717.7	736.0	751.3	766.6	769.9	769.4	762.6	750.8	735.3	719.2
46°	686.9	706.4	724.5	739.8	755.1	758.6	757.8	751.3	739.3	723.5	707.9
46.5°	675.8	695.4	713.2	728.5	743.8	747.8	747.0	740.0	727.5	712.2	696.4
47°	665.0	684.3	702.2	717.2	732.5	736.5	736.0	728.7	716.2	700.6	685.1
47.5°	654.3	673.6	691.1	706.2	721.5	725.5	725.0	717.7	705.2	689.6	674.3
48°	643.5	662.5	679.8	694.9	710.4	714.7	714.2	706.9	694.1	678.6	663.5
48.5°	632.9	651.5	669.1	683.8	699.4	704.4	703.4	695.9	682.8	667.8	652.8
49°	621.4	639.7	656.5	671.3	687.1	692.1	691.4	683.8	670.8	655.5	640.5
49.5°	608.9	627.2	643.5	657.8	674.1	678.8	678.1	670.6	657.5	642.2	627.7
50°	594.6	613.4	629.2	642.7	660.3	665.0	664.5	656.8	644.0	628.7	613.6
50.5°	578.8	596.3	613.4	627.4	645.0	649.2	648.0	641.2	628.9	612.9	597.8
51°	561.5	578.8	595.8	610.4	628.2	632.2	631.2	624.9	612.4	595.8	580.5
51.5°	542.9	560.2	577.0	592.3	610.4	614.1	613.6	606.6	595.1	578.3	562.2
52°	523.1	541.2	557.7	572.8	591.1	595.8	595.3	588.1	576.0	559.5	543.9
52.5°	503.8	521.6	537.6	551.4	571.3	577.3	576.8	568.7	555.7	539.9	524.9
53°	483.7	501.0	516.8	529.9	550.7	557.2	557.2	548.9	534.9	519.8	505.3
53.5°	463.4	480.5	495.8	508.1	529.4	537.6	537.9	528.1	513.3	499.3	485.2
54°	442.6	459.7	473.7	485.7	507.8	517.3	517.6	507.3	492.0	478.5	464.4
54.5°	422.0	438.8	451.6	463.4	486.0	496.5	497.0	485.7	470.2	456.4	444.1
55°	401.0	417.5	429.3	440.9	464.7	476.2	476.7	464.4	449.4	435.3	423.5
55.5°	379.9	395.7	407.0	418.5	442.9	454.1	455.4	442.4	427.6	413.3	402.2
56°	359.4	374.6	384.4	395.7	420.5	432.6	433.8	421.0	406.5	391.2	381.7
56.5°	338.8	353.3	362.1	374.6	398.7	410.8	412.0	399.2	384.4	369.6	360.6
57°	317.7	332.0	339.8	352.6	377.2	388.9	390.4	378.2	363.9	347.8	339.8
57.5°	297.7	310.7	318.2	331.0	355.8	366.9	368.6	356.8	342.6	327.0	319.0
58°	277.9	289.9	296.7	310.2	334.5	345.1	346.8	335.8	322.2	305.7	298.4
58.5°	258.5	269.1	275.3	289.6	313.7	323.5	325.2	315.2	302.2	285.4	278.4
59°	239.5	248.8	255.3	269.6	293.1	301.9	303.7	295.2	282.1	265.3	258.8
59.5°	220.4	228.2	235.5	249.8	273.1	281.1	281.9	274.8	262.1	246.0	239.7
60°	202.6	208.9	216.7	230.2	253.3	260.5	260.8	255.0	243.5	227.9	220.9
60.5°	184.6	189.8	197.6	211.1	234.7	241.0	241.5	236.2	224.9	209.9	202.1
61°	167.0	171.5	179.6	192.8	216.2	221.7	221.9	217.4	206.6	191.8	183.6
61.5°	150.0	154.0	162.5	175.3	197.6	202.1	202.4	198.6	188.1	173.8	164.8
62°	133.7	137.4	145.4	158.0	179.0	182.8	182.8	179.8	169.5	157.2	148.5
62.5°	118.1	121.6	129.6	141.4	160.5	163.5	163.3	161.0	152.5	140.9	132.2
63°	103.3	106.3	114.1	126.1	142.9	145.4	145.2	143.4	136.2	125.6	116.9
63.5°	88.8	92.3	99.8	110.8	126.4	128.6	128.4	126.9	120.6	110.8	102.6
64°	76.7	81.0	86.0	96.5	110.6	112.3	112.3	110.8	104.8	96.8	89.3
64.5°	64.7	70.0	75.0	84.0	95.5	97.0	96.8	95.3	89.5	83.8	76.5
65°	52.7	58.7	63.7	72.2	81.2	82.5	82.5	81.0	74.5	71.0	64.9
65.5°	40.9	47.6	52.4	60.2	67.5	69.2	69.2	67.2	60.2	59.2	54.2
66°	28.8	36.4	41.4	48.4	54.9	56.4	56.4	54.4	46.9	48.1	44.1



TEST NUMBER: P776042

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.3	15.5	18.1	19.8	28.6	29.6	29.6	28.1	21.1	25.3	23.3
68°	7.0	10.8	12.5	13.3	21.1	21.8	21.8	20.8	12.5	19.1	16.3
68.5°	5.0	8.8	7.8	8.3	13.5	14.0	14.0	13.3	4.0	12.5	9.5
69°	2.8	6.8	6.0	6.3	6.3	6.5	6.3	6.3	1.3	6.0	5.5
69.5°	0.8	4.8	4.3	4.5	3.0	3.0	3.0	3.0	0.8	3.0	2.8
70°	0.8	2.8	2.5	2.5	1.3	1.3	1.3	1.3	0.8	1.3	1.3
70.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
80.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
81°	0.0	0.0	0.0	0.0	0.0	0.3	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: P776042
CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776042

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1224.0	1224.0	1224.0	1224.0	1224.0	1224.0
0.5°	1223.8	1223.5	1223.5	1223.8	1223.5	1223.3
1°	1223.3	1222.8	1222.8	1223.0	1223.0	1222.8
1.5°	1222.8	1222.0	1221.7	1222.2	1222.2	1222.2
2°	1222.0	1221.0	1220.7	1221.2	1221.2	1221.5
2.5°	1221.2	1219.7	1219.7	1220.0	1220.2	1220.7
3°	1220.2	1218.7	1218.5	1219.0	1219.2	1219.7
3.5°	1219.2	1217.5	1217.2	1217.7	1218.2	1219.0
4°	1218.0	1216.2	1215.7	1216.2	1217.0	1217.7
4.5°	1216.7	1214.7	1214.2	1214.7	1215.5	1216.7
5°	1215.5	1213.2	1212.7	1213.2	1214.0	1215.5
5.5°	1214.0	1211.5	1211.0	1211.5	1212.5	1214.2
6°	1212.5	1209.7	1209.2	1209.7	1210.7	1212.5
6.5°	1210.7	1208.0	1207.2	1207.7	1209.2	1211.0
7°	1209.0	1205.9	1205.2	1205.9	1207.2	1209.2
7.5°	1207.2	1203.7	1203.2	1203.7	1205.2	1207.5
8°	1205.2	1201.7	1200.7	1201.4	1203.2	1205.7
8.5°	1202.9	1199.4	1198.4	1199.2	1200.9	1203.4
9°	1200.9	1196.9	1195.9	1196.7	1198.4	1201.4
9.5°	1198.4	1194.7	1193.7	1194.2	1196.2	1199.2
10°	1196.2	1191.9	1190.9	1191.7	1193.7	1196.7
10.5°	1193.7	1189.1	1188.1	1188.9	1190.9	1194.4
11°	1191.2	1186.4	1185.1	1186.1	1188.1	1191.7
11.5°	1188.4	1183.6	1182.1	1182.9	1185.4	1189.1
12°	1185.6	1180.4	1179.1	1179.9	1182.4	1186.1
12.5°	1182.6	1177.4	1175.9	1176.6	1179.4	1183.4
13°	1179.6	1174.1	1172.6	1173.3	1176.1	1180.1
13.5°	1176.4	1170.8	1169.1	1169.8	1172.6	1177.1
14°	1173.3	1167.3	1165.6	1166.3	1169.3	1173.9
14.5°	1169.8	1163.6	1162.1	1162.8	1165.6	1170.3
15°	1166.3	1160.1	1158.1	1159.1	1162.1	1166.8
15.5°	1162.8	1156.0	1154.0	1155.0	1158.1	1163.1
16°	1158.8	1152.3	1150.0	1151.0	1154.3	1159.6
16.5°	1155.3	1148.0	1146.0	1147.0	1150.3	1155.5
17°	1151.3	1143.8	1141.8	1142.5	1146.0	1151.5
17.5°	1147.0	1139.5	1137.2	1138.2	1141.8	1147.5
18°	1143.0	1135.0	1132.7	1133.7	1137.2	1143.3
18.5°	1138.5	1130.5	1128.0	1129.0	1132.7	1138.7
19°	1134.0	1126.0	1123.2	1124.2	1128.0	1134.2
19.5°	1129.5	1121.2	1118.2	1119.2	1123.4	1129.7
20°	1124.7	1116.2	1113.2	1114.2	1118.4	1125.0
20.5°	1119.9	1110.9	1107.9	1108.9	1113.2	1119.9
21°	1114.9	1105.6	1102.6	1103.4	1107.9	1115.2



TEST NUMBER: P776042

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1098.9	1089.1	1085.6	1086.6	1091.3	1099.1
23°	1093.6	1083.3	1079.6	1080.6	1085.6	1093.6
23.5°	1087.8	1077.6	1073.8	1074.5	1079.8	1087.8
24°	1082.1	1071.5	1067.5	1068.3	1073.5	1082.1
24.5°	1076.1	1065.0	1061.3	1062.0	1067.3	1075.8
25°	1070.0	1058.7	1054.7	1055.5	1061.0	1069.8
25.5°	1063.8	1052.5	1048.0	1049.0	1054.5	1063.5
26°	1057.5	1045.7	1041.2	1042.2	1048.0	1057.2
26.5°	1050.7	1038.7	1034.2	1035.2	1040.9	1050.5
27°	1044.0	1031.7	1027.4	1028.2	1034.2	1044.0
27.5°	1037.4	1024.9	1020.4	1020.9	1027.2	1036.9
28°	1030.4	1017.6	1012.9	1013.6	1019.9	1029.9
28.5°	1023.1	1010.1	1005.3	1006.1	1012.4	1022.6
29°	1016.1	1002.8	997.8	998.8	1005.1	1015.4
29.5°	1008.8	995.1	990.0	990.8	997.6	1008.1
30°	1001.1	987.5	982.3	983.0	989.5	1000.3
30.5°	993.5	979.5	974.0	974.7	981.8	992.5
31°	985.8	971.2	966.0	966.7	973.5	984.8
31.5°	977.7	963.2	957.4	958.2	965.2	976.5
32°	969.5	954.9	949.2	949.9	956.9	968.5
32.5°	961.4	946.4	940.6	941.1	948.7	959.9
33°	952.9	937.9	931.9	932.6	939.9	951.7
33.5°	944.6	929.4	923.1	924.1	931.1	943.1
34°	935.9	920.6	914.3	914.8	922.3	934.4
34.5°	927.3	911.3	905.0	905.8	913.3	925.3
35°	918.1	902.3	895.7	896.8	904.0	916.3
35.5°	909.3	893.0	886.7	887.5	894.7	907.3
36°	900.3	884.0	877.4	878.2	885.7	897.8
36.5°	891.2	874.4	868.2	868.7	876.4	888.7
37°	881.7	864.9	858.6	859.1	866.7	878.9
37.5°	872.2	855.4	848.6	849.6	857.1	869.2
38°	862.6	845.6	839.1	839.8	847.1	859.1
38.5°	852.6	835.8	829.3	830.0	837.3	849.6
39°	843.1	825.8	819.5	820.0	827.5	839.8
39.5°	833.1	816.0	809.5	810.2	817.5	829.5
40°	823.0	805.5	799.5	800.0	807.0	819.3
40.5°	813.0	795.4	789.2	789.9	796.7	809.0
41°	802.5	784.9	778.9	779.6	786.4	798.4
41.5°	792.2	774.4	768.1	769.1	775.9	787.7
42°	781.6	763.8	757.8	758.6	765.3	777.1
42.5°	771.1	753.1	747.3	747.8	754.6	766.4
43°	760.3	742.0	736.0	737.0	743.3	755.1
43.5°	749.0	730.7	725.0	725.7	732.0	744.0

TEST NUMBER: P776042

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	714.9	696.4	691.1	691.6	697.6	709.7
45.5°	703.4	685.1	679.6	680.3	686.1	698.1
46°	692.1	673.8	668.3	669.1	675.1	686.9
46.5°	680.6	663.0	657.5	658.0	664.0	675.8
47°	669.8	652.3	647.0	647.5	653.0	665.0
47.5°	659.0	641.5	636.2	637.0	642.2	654.3
48°	648.5	630.9	625.4	626.4	631.7	643.5
48.5°	637.7	620.2	614.9	615.4	620.9	632.9
49°	626.2	608.4	603.1	603.9	609.6	621.4
49.5°	613.6	595.6	590.8	591.6	597.1	608.9
50°	599.8	580.8	576.3	577.8	583.5	594.6
50.5°	583.5	564.2	560.2	562.0	567.2	578.8
51°	566.2	546.4	542.7	544.2	550.2	561.5
51.5°	547.9	528.4	524.1	525.4	532.1	542.9
52°	529.6	509.1	504.8	506.1	512.6	523.1
52.5°	510.3	489.5	485.2	486.0	492.3	503.8
53°	491.0	469.2	464.4	465.2	471.9	483.7
53.5°	470.9	449.4	443.6	444.6	451.4	463.4
54°	451.6	429.3	422.8	423.5	430.3	442.6
54.5°	431.1	409.0	402.5	402.7	409.8	422.0
55°	411.3	388.7	381.4	381.7	388.7	401.0
55.5°	390.4	369.1	360.9	360.4	367.9	379.9
56°	370.6	349.3	340.3	339.0	347.6	359.4
56.5°	350.1	329.8	320.2	318.7	327.5	338.8
57°	330.0	309.7	300.2	298.2	307.2	317.7
57.5°	310.2	290.6	280.4	278.4	287.4	297.7
58°	290.6	271.6	261.3	259.3	268.1	277.9
58.5°	271.1	253.0	242.5	240.0	248.5	258.5
59°	251.8	234.5	224.2	221.7	230.5	239.5
59.5°	233.5	216.2	206.6	203.9	212.4	220.4
60°	214.9	198.6	188.8	186.8	194.6	202.6
60.5°	196.6	181.3	172.3	170.3	177.5	184.6
61°	178.3	164.3	156.2	154.5	161.0	167.0
61.5°	161.5	148.5	141.2	139.4	144.9	150.0
62°	144.9	132.7	126.6	125.6	129.6	133.7
62.5°	128.9	117.4	112.8	111.8	114.9	118.1
63°	113.3	103.3	99.8	99.1	100.6	103.3
63.5°	98.8	89.8	87.0	86.5	87.3	88.8
64°	85.0	78.7	76.7	76.2	76.5	76.7
64.5°	72.2	67.7	66.5	66.2	65.7	64.7
65°	60.4	56.9	56.2	55.9	54.9	52.7
65.5°	49.7	45.9	45.9	45.9	44.1	40.9
66°	39.4	35.1	37.1	37.6	35.1	28.8



TEST NUMBER: P776042

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	20.6	14.5	16.6	17.1	14.8	9.3
68°	14.3	10.0	11.5	11.8	10.3	7.0
68.5°	8.3	7.8	7.3	7.5	7.8	5.0
69°	5.0	5.5	5.5	5.8	5.5	2.8
69.5°	2.5	3.0	4.0	4.0	3.0	0.8
70°	1.3	0.8	2.3	2.3	0.8	0.8
70.5°	0.8	0.8	0.8	0.8	0.8	0.8
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	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	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	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: P776042
CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

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



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

Scaled Data Report





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

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Scaled Data Report



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Scaled Data Report





21.5°	1109.7	1120.4	1131.5	1141.0	1149.0	1151.0	1150.0	1145.8	1138.5	1128.5	1118.4
22°	1104.6	1115.4	1126.7	1136.5	1144.5	1146.8	1145.5	1141.0	1134.0	1123.7	1113.4



44°	732.5	752.3	770.4	786.7	801.2	804.2	803.7	797.4	785.7	770.4	754.1
44.5°	721.0	741.0	759.1	774.9	789.9	793.4	791.9	786.2	774.1	758.8	742.5



66.5°	20.8	28.3	32.6	36.6	43.6	45.1	45.1	42.9	38.4	38.4	37.1
67°	14.3	21.3	24.8	27.6	36.1	37.4	37.4	35.4	29.8	31.8	30.3



89°	0.0	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	0.0

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21.5°	1109.7	1100.4	1097.1	1097.9	1102.6	1109.7
22°	1104.4	1094.9	1091.6	1092.4	1097.1	1104.6



44°	737.8	719.2	713.7	714.2	720.7	732.5
44.5°	726.5	707.9	702.4	702.9	709.2	721.0

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66.5°	33.1	26.8	29.6	29.6	27.3	20.8
67°	26.8	20.1	22.6	22.8	20.6	14.3

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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)