

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: P776014

Luminaire Tested: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B009)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K
Description: 4 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.5 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.14 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

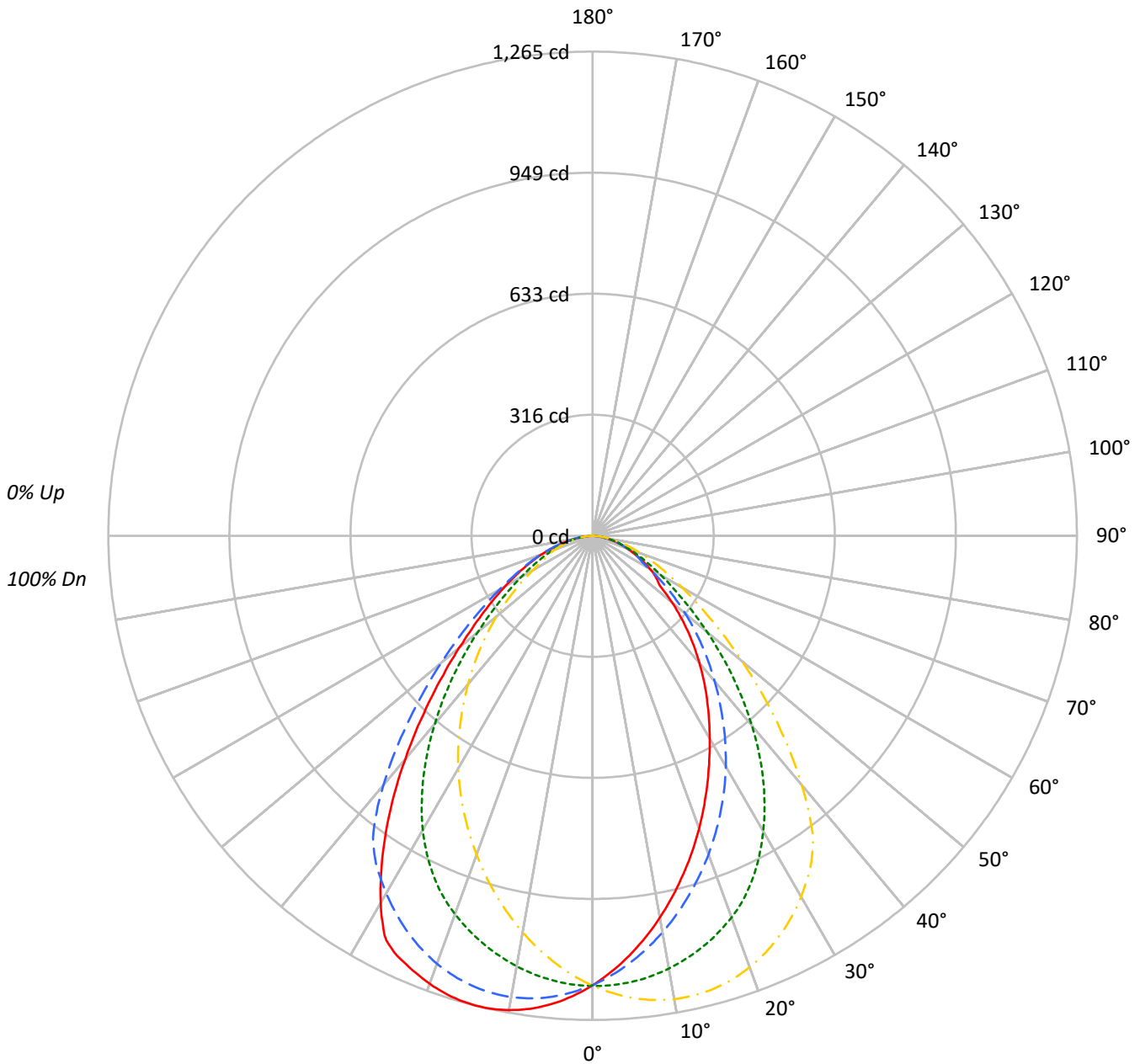
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776014

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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									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	147823	147823	147823	147823
5°	139065	147807	155134	147415
10°	129401	146704	160825	145950
15°	119215	144843	164673	143722
20°	108936	142109	166779	140824
25°	98604	137277	168020	136347
30°	88906	129552	160868	128927
35°	79967	119297	144462	118421
40°	71300	106358	124939	105389
45°	62417	91623	105630	91072
50°	53000	76240	89025	76749
55°	45813	62511	76158	64156
60°	43569	51900	66373	54292
65°	39040	43804	58694	46872
70°	34956	37679	51735	41101
75°	30877	32481	44394	36371
80°	24279	27105	34425	31816
85°	11985	19782	16461	26136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 225°
 Vertical Angle: 45°
 Luminance: 120420 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	4.9
10°-20°	308.9	13.6
20°-30°	446.2	19.6
30°-40°	480.0	21.1
40°-50°	398.3	17.5
50°-60°	268.0	11.8
60°-70°	162.2	7.1
70°-80°	82.0	3.6
80°-90°	18.4	0.8
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°	865.5	38.1
0°-40°	1345.5	59.2
0°-60°	2011.9	88.5
0°-90°	2274.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1175	1175	1175	1175	1175	
5°	1101	1170	1228	1167	1101	102
15°	915	1112	1264	1103	915	256
25°	710	989	1210	982	710	326
35°	520	776	940	771	520	325
45°	351	515	594	512	351	270
55°	209	285	347	292	209	191
65°	131	147	197	157	131	131
75°	64	67	91	75	64	67
85°	8	14	11	18	8	12
90°	0	0	0	0	0	



TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1174.6	1174.6	1174.6	1174.6	1174.6	1174.6	1174.6	1174.6	1174.6	1174.6	1174.6
0.5°	1167.7	1167.7	1168.9	1171.5	1176.4	1178.2	1179.8	1180.6	1180.6	1179.5	1178.0
1°	1160.9	1161.5	1164.3	1168.9	1176.4	1180.6	1184.2	1186.2	1186.8	1185.2	1182.1
1.5°	1154.0	1155.0	1159.4	1166.1	1176.2	1182.6	1188.3	1191.7	1192.7	1190.4	1186.0
2°	1147.0	1148.6	1154.2	1163.0	1175.7	1184.7	1192.2	1197.1	1198.4	1195.5	1190.1
2.5°	1139.5	1141.6	1148.8	1159.9	1175.1	1186.5	1196.0	1202.0	1203.8	1200.7	1193.7
3°	1132.3	1134.9	1143.7	1156.6	1174.4	1188.3	1199.7	1206.9	1209.2	1205.3	1197.1
3.5°	1124.6	1127.7	1138.0	1153.2	1173.6	1189.6	1203.0	1211.8	1214.1	1210.0	1200.4
4°	1116.8	1120.7	1132.0	1149.6	1172.3	1191.1	1206.4	1216.2	1219.0	1214.4	1203.5
4.5°	1108.8	1113.0	1126.1	1145.7	1171.3	1192.2	1209.5	1220.3	1223.7	1218.5	1206.1
5°	1100.8	1105.7	1120.2	1141.9	1170.0	1193.2	1212.3	1224.4	1228.0	1222.4	1208.9
5.5°	1092.3	1098.0	1113.7	1137.7	1168.4	1194.0	1214.9	1228.3	1232.2	1226.0	1211.3
6°	1084.0	1090.0	1107.5	1133.6	1166.9	1194.8	1217.2	1231.9	1236.0	1229.6	1213.6
6.5°	1075.8	1081.7	1101.1	1129.2	1165.1	1195.0	1219.5	1235.0	1239.7	1232.7	1215.7
7°	1067.0	1074.0	1094.4	1125.1	1163.0	1195.3	1221.6	1238.1	1243.3	1235.5	1217.5
7.5°	1058.0	1065.5	1087.4	1120.2	1160.9	1195.3	1223.4	1240.9	1246.4	1238.4	1219.0
8°	1049.5	1057.2	1080.7	1115.5	1158.6	1195.3	1224.9	1243.8	1249.2	1240.9	1220.3
8.5°	1040.4	1048.7	1073.7	1110.6	1156.0	1195.0	1226.2	1246.1	1252.0	1243.0	1221.3
9°	1031.2	1040.2	1066.5	1105.7	1153.5	1194.5	1227.5	1248.2	1254.4	1245.1	1222.4
9.5°	1021.9	1031.2	1059.0	1100.3	1150.9	1193.7	1228.6	1250.0	1256.4	1246.9	1223.1
10°	1012.6	1022.4	1051.8	1095.1	1148.0	1192.9	1229.3	1251.8	1258.5	1248.4	1223.7
10.5°	1003.0	1013.6	1044.3	1089.7	1144.9	1191.9	1229.8	1253.3	1260.0	1249.7	1224.2
11°	993.7	1004.6	1036.8	1084.3	1141.9	1190.9	1230.1	1254.4	1261.6	1250.7	1224.2
11.5°	984.2	995.5	1029.1	1078.4	1138.5	1189.6	1230.1	1255.4	1262.6	1251.5	1223.9
12°	974.1	986.5	1021.1	1072.7	1135.1	1188.0	1230.1	1256.2	1263.6	1252.0	1223.7
12.5°	964.6	977.0	1013.3	1066.8	1131.5	1186.5	1229.8	1256.4	1264.4	1252.6	1223.1
13°	955.0	967.7	1005.3	1060.8	1127.9	1184.7	1229.1	1256.7	1264.7	1252.6	1222.4
13.5°	945.0	958.4	997.3	1054.9	1124.0	1182.6	1228.3	1256.7	1264.9	1252.3	1221.3
14°	935.2	949.1	988.8	1048.7	1120.2	1180.3	1227.3	1256.4	1264.9	1251.8	1220.0
14.5°	925.1	939.5	980.6	1042.2	1116.0	1178.2	1226.2	1255.9	1264.4	1251.0	1218.5
15°	915.0	929.5	972.3	1035.8	1111.7	1175.7	1224.7	1255.1	1263.9	1250.2	1216.9
15.5°	905.0	919.9	964.1	1029.3	1107.3	1173.1	1223.1	1254.1	1263.1	1249.2	1215.1
16°	894.9	910.4	955.5	1022.9	1102.9	1170.0	1221.3	1252.8	1262.1	1247.9	1213.1
16.5°	885.1	900.6	946.8	1016.2	1098.2	1167.1	1219.3	1251.5	1260.8	1246.4	1210.7
17°	874.8	891.0	938.3	1009.2	1093.3	1163.8	1217.2	1250.0	1259.3	1244.3	1208.4
17.5°	864.7	880.7	929.5	1002.2	1088.2	1160.4	1214.6	1247.9	1257.5	1242.2	1205.6
18°	854.4	870.9	921.0	995.3	1083.0	1156.6	1212.0	1245.6	1255.4	1239.9	1202.8
18.5°	844.3	861.1	912.2	988.1	1077.9	1152.9	1209.2	1243.3	1253.1	1237.3	1199.7
19°	834.0	851.0	903.2	980.6	1072.4	1149.1	1206.1	1240.7	1250.7	1234.7	1196.6
19.5°	823.4	841.0	894.4	973.3	1066.8	1144.7	1202.8	1237.8	1248.2	1231.7	1193.2
20°	813.4	831.2	885.1	965.9	1061.1	1140.6	1199.4	1234.7	1245.3	1228.6	1189.6
20.5°	803.0	821.1	876.3	958.1	1055.1	1135.9	1195.8	1231.4	1242.2	1225.2	1185.5
21°	792.7	811.0	867.3	950.4	1049.0	1131.3	1191.9	1228.0	1239.1	1221.6	1181.6



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CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	761.8	780.8	839.7	926.6	1028.6	1116.0	1179.3	1216.4	1228.6	1209.7	1168.2
23°	751.2	770.5	830.1	918.1	1021.3	1110.1	1174.6	1212.3	1224.9	1205.6	1163.5
23.5°	741.1	760.7	821.1	909.9	1013.3	1104.2	1169.7	1207.9	1221.1	1201.2	1158.6
24°	730.8	750.4	811.6	900.6	1005.3	1097.7	1164.3	1203.8	1217.5	1196.8	1153.5
24.5°	720.2	740.3	802.3	891.8	997.1	1090.8	1159.1	1199.1	1213.8	1191.9	1148.0
25°	710.1	730.3	792.5	882.5	988.6	1083.5	1153.7	1194.5	1210.0	1187.3	1142.6
25.5°	700.1	719.9	783.2	873.2	980.1	1076.0	1148.3	1190.1	1204.8	1182.6	1136.7
26°	690.0	709.9	773.6	863.4	971.0	1068.6	1142.4	1185.7	1199.1	1178.2	1131.0
26.5°	680.0	700.1	764.1	854.1	961.7	1060.3	1136.4	1181.1	1193.2	1173.3	1124.8
27°	669.9	689.8	754.5	844.3	952.2	1051.8	1130.2	1176.2	1187.0	1168.4	1118.6
27.5°	660.1	680.0	745.0	834.5	942.4	1043.3	1124.0	1169.7	1177.2	1162.0	1112.4
28°	650.0	669.9	735.2	824.5	932.6	1034.2	1117.6	1163.3	1163.8	1155.3	1106.0
28.5°	640.5	660.1	725.6	814.4	922.5	1025.0	1110.9	1156.8	1150.1	1148.6	1099.3
29°	630.9	650.0	715.6	804.1	912.4	1015.4	1103.9	1149.6	1137.5	1141.3	1092.3
29.5°	621.1	640.7	705.8	794.0	901.9	1005.3	1096.7	1138.5	1122.2	1130.2	1085.3
30°	611.8	631.2	695.7	783.4	891.5	995.0	1089.5	1124.6	1107.0	1116.8	1078.4
30.5°	602.3	621.4	685.6	773.1	880.5	985.0	1081.7	1111.1	1091.8	1103.1	1071.1
31°	593.0	611.1	675.6	762.5	869.9	974.6	1073.7	1098.2	1076.3	1090.0	1063.9
31.5°	583.7	602.3	665.2	751.9	858.5	963.5	1065.5	1083.0	1059.3	1075.3	1056.4
32°	574.4	592.7	655.2	741.4	847.4	952.7	1057.5	1067.8	1043.0	1060.3	1049.0
32.5°	565.4	583.7	645.1	730.8	836.1	941.4	1049.5	1052.3	1026.8	1045.6	1041.5
33°	556.3	574.4	635.1	719.9	824.5	930.0	1041.0	1037.3	1009.7	1030.1	1033.7
33.5°	547.3	565.4	625.0	709.4	812.3	918.4	1032.2	1021.1	992.4	1014.6	1025.7
34°	538.5	556.3	614.7	698.3	801.0	906.5	1022.9	1005.1	974.9	998.1	1016.7
34.5°	529.3	547.1	604.3	687.4	788.6	893.9	1012.6	988.3	957.6	982.4	1006.9
35°	520.5	537.5	594.3	676.3	776.5	882.0	1002.2	972.3	940.3	966.1	996.6
35.5°	511.7	529.3	584.2	665.5	764.1	869.1	991.2	955.3	922.5	950.1	986.5
36°	503.2	520.2	574.4	654.4	751.2	856.5	979.8	938.5	904.4	933.4	975.9
36.5°	494.4	511.4	564.1	643.6	738.5	843.6	965.9	921.2	887.2	916.6	963.0
37°	485.6	502.7	554.3	632.5	726.1	830.1	949.6	904.4	869.1	900.3	947.3
37.5°	476.9	493.6	544.2	621.1	713.0	816.5	933.4	887.2	850.8	883.5	932.1
38°	468.1	484.9	534.4	610.0	699.8	802.8	917.6	869.9	832.2	866.5	916.6
38.5°	459.6	476.1	524.9	598.7	686.7	789.1	901.4	851.8	815.2	849.2	901.1
39°	451.3	467.6	515.1	587.6	673.8	775.2	884.1	835.6	797.4	833.0	884.1
39.5°	442.5	459.1	505.3	576.2	660.6	761.0	866.8	817.7	779.0	816.2	867.3
40°	434.0	450.0	495.7	564.9	647.4	746.5	849.5	799.9	760.5	798.9	850.0
40.5°	425.5	441.5	486.2	553.8	633.8	732.3	832.2	782.4	744.5	781.4	833.0
41°	417.0	433.0	476.9	542.4	620.6	717.9	814.4	766.1	727.2	765.6	815.9
41.5°	408.7	424.5	467.3	531.3	607.2	703.4	796.8	748.8	708.9	748.8	797.9
42°	400.2	416.0	458.0	520.0	594.0	689.0	779.0	730.8	692.1	731.3	780.6
42.5°	392.0	407.5	448.7	509.1	580.9	674.0	761.8	714.5	676.1	715.3	762.8
43°	383.7	398.9	439.5	498.0	567.4	659.6	744.2	698.3	659.3	699.3	745.8
43.5°	375.2	390.7	430.2	486.9	554.0	644.9	726.7	680.7	640.7	682.5	727.9



TEST NUMBER: P776014

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	350.7	365.7	403.1	454.2	514.8	600.7	674.3	632.5	593.5	635.6	676.6
45.5°	342.4	357.4	394.0	443.3	501.6	586.3	656.5	614.7	578.3	618.5	659.6
46°	334.7	349.4	385.3	432.7	488.7	571.8	639.2	599.4	564.6	602.5	642.5
46.5°	326.2	341.1	376.2	421.9	475.8	557.1	622.7	585.0	549.1	589.4	626.5
47°	318.2	332.9	367.5	411.6	462.9	542.7	605.9	568.7	532.3	573.9	609.8
47.5°	310.2	324.6	358.4	401.0	450.3	528.2	588.9	551.7	520.5	557.1	593.5
48°	302.4	316.6	350.2	390.7	437.6	514.0	571.8	539.1	507.6	544.0	577.2
48.5°	294.2	308.4	341.4	380.4	425.5	500.1	556.6	524.6	492.4	530.8	562.5
49°	286.4	300.6	332.9	370.6	413.4	486.2	540.9	508.3	478.9	515.6	546.8
49.5°	278.7	292.6	324.4	360.5	401.5	472.5	524.6	494.2	467.6	500.6	531.3
50°	270.7	284.6	315.8	350.4	389.4	458.3	508.9	481.5	454.7	488.7	515.8
50.5°	262.7	276.6	307.6	340.6	378.0	445.1	494.7	467.3	440.2	475.6	502.4
51°	255.2	268.9	299.3	331.3	366.7	431.5	479.4	452.1	430.4	459.8	487.7
51.5°	247.5	261.1	291.1	321.8	355.8	418.8	464.5	441.5	419.8	449.3	473.3
52°	240.0	253.4	283.1	312.5	344.7	405.4	451.3	429.1	406.2	437.4	459.3
52.5°	232.5	245.7	275.1	303.5	333.9	393.0	437.6	414.4	396.4	424.0	447.5
53°	225.5	237.9	267.3	294.4	323.6	380.1	423.2	403.8	386.8	411.3	433.0
53.5°	218.8	230.4	259.3	285.7	313.8	368.0	410.0	393.3	375.7	401.5	419.6
54°	214.7	223.2	251.6	276.9	303.7	355.6	397.6	380.9	364.9	389.6	407.7
54.5°	211.9	216.0	244.1	268.4	294.2	343.7	385.0	369.5	356.6	377.0	396.1
55°	208.8	209.3	236.6	260.4	284.9	332.4	372.1	360.2	347.1	368.2	383.2
55.5°	205.9	202.8	229.4	252.4	275.9	320.8	361.3	349.7	336.5	358.2	371.6
56°	202.6	199.5	221.9	244.6	267.1	309.9	349.4	338.6	329.0	346.0	360.7
56.5°	199.2	196.6	214.7	236.9	258.6	299.6	337.5	330.0	320.5	337.5	349.4
57°	196.1	193.5	207.7	229.4	250.0	289.3	327.2	320.5	310.7	328.8	338.0
57.5°	192.5	190.4	200.8	221.9	242.3	279.2	316.9	310.2	303.7	318.2	328.8
58°	189.1	187.1	194.3	215.0	234.3	269.9	305.8	302.7	296.0	309.7	318.2
58.5°	185.3	184.0	187.6	208.2	227.1	260.6	296.5	294.2	286.9	301.9	307.8
59°	181.1	180.4	181.1	201.5	220.1	251.9	286.9	284.4	279.5	292.6	298.8
59.5°	177.3	177.0	174.7	194.8	213.1	243.1	277.1	277.4	271.5	284.4	289.5
60°	173.1	173.4	168.8	188.6	206.2	234.8	268.4	269.7	263.7	277.1	279.7
60.5°	168.8	169.5	162.6	182.2	199.2	226.8	259.9	260.9	256.5	268.4	271.5
61°	164.6	165.7	156.9	176.5	192.2	219.3	250.8	254.2	249.0	260.6	263.2
61.5°	160.5	161.8	152.0	170.6	186.1	212.1	243.1	246.4	242.0	253.4	254.4
62°	156.1	157.7	147.1	164.9	180.1	204.6	235.3	238.4	235.1	245.4	246.7
62.5°	152.0	153.5	144.2	159.5	174.2	197.1	227.1	231.7	228.6	238.4	239.2
63°	147.9	149.7	141.2	154.1	168.2	190.7	220.1	224.8	222.4	231.7	231.0
63.5°	143.7	145.5	138.3	148.9	162.8	184.2	213.1	217.8	216.0	224.0	224.2
64°	139.3	141.7	135.5	144.0	157.4	178.1	206.4	211.1	209.8	217.5	217.5
64.5°	135.2	137.5	132.4	138.8	152.0	171.9	199.5	204.4	203.3	211.1	210.6
65°	131.1	133.7	129.3	134.2	147.1	166.2	192.5	197.7	197.1	204.6	203.9
65.5°	127.0	129.5	126.2	129.8	141.9	160.5	186.1	192.2	191.0	198.2	196.9
66°	122.8	125.7	123.1	125.2	137.0	154.8	179.9	185.5	185.0	192.0	190.4



TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	112.0	113.8	113.0	112.5	123.3	139.1	161.5	168.2	167.7	174.2	172.1
68°	108.4	110.2	109.4	108.6	119.0	134.2	155.9	162.6	162.3	168.2	166.2
68.5°	105.0	106.6	106.1	104.8	114.6	129.5	150.2	156.9	156.6	162.6	160.2
69°	101.7	103.0	103.0	100.9	110.4	124.9	144.5	151.5	151.5	156.9	154.6
69.5°	98.3	99.6	99.6	97.3	106.3	120.0	139.3	146.1	146.1	151.5	148.9
70°	95.0	96.3	96.0	93.9	102.4	115.6	133.9	140.6	140.6	146.1	143.7
70.5°	91.9	92.4	92.9	90.6	98.3	111.2	128.8	135.7	135.7	140.6	138.3
71°	88.8	89.5	89.8	87.5	94.7	107.1	123.9	130.3	130.6	135.7	133.2
71.5°	85.7	86.4	86.4	84.1	90.8	102.7	118.7	125.4	125.4	130.3	128.0
72°	82.3	83.3	83.1	81.0	87.2	98.6	113.8	120.2	120.2	125.2	123.1
72.5°	79.2	80.3	80.0	77.7	83.6	94.7	109.2	115.3	115.3	120.0	117.9
73°	76.1	77.2	76.6	74.8	80.3	90.6	104.5	110.7	110.4	115.3	113.3
73.5°	72.8	74.1	73.5	72.0	76.6	86.7	99.9	105.8	105.5	110.2	108.4
74°	69.7	70.7	70.2	69.4	73.3	83.1	95.2	100.9	100.6	105.3	103.7
74.5°	66.6	67.6	67.3	67.1	69.9	79.2	90.8	96.3	96.0	100.6	99.1
75°	63.5	64.5	64.5	64.5	66.8	75.6	86.4	91.9	91.3	96.0	94.7
75.5°	60.4	61.4	61.4	61.9	63.5	72.3	82.1	87.2	86.7	91.1	90.1
76°	57.3	58.3	58.3	59.1	60.4	68.6	78.2	82.6	82.1	86.7	85.7
76.5°	54.2	55.2	55.5	56.5	57.3	65.0	73.8	77.9	77.4	82.1	81.3
77°	51.4	52.1	52.6	53.9	54.4	61.7	69.9	73.8	73.3	77.7	77.2
77.5°	48.3	49.0	49.8	51.1	51.4	58.3	65.8	69.4	68.6	73.0	73.0
78°	45.4	45.9	47.0	48.5	48.5	55.0	61.9	65.3	64.3	68.9	68.9
78.5°	42.3	43.1	44.1	45.9	45.7	51.6	58.1	60.9	60.1	64.5	65.0
79°	39.5	40.0	41.5	43.1	42.8	48.5	54.4	56.8	55.7	60.1	60.9
79.5°	36.4	36.9	38.7	40.5	40.3	45.4	50.8	52.4	51.6	56.0	57.0
80°	33.5	33.8	35.9	37.9	37.4	42.3	47.2	48.3	47.5	51.9	53.4
80.5°	30.7	31.0	33.3	35.4	34.8	39.2	43.6	44.4	43.4	47.7	49.5
81°	27.9	27.9	30.7	32.8	32.3	36.4	40.3	40.3	39.2	43.6	45.9
81.5°	25.0	25.0	28.1	30.2	29.9	33.5	36.9	36.4	35.4	39.7	42.6
82°	22.2	22.2	25.8	27.9	27.4	30.7	33.5	33.0	31.5	35.9	39.0
82.5°	19.4	19.9	23.2	25.3	25.0	28.1	30.4	29.4	27.9	32.3	35.9
83°	16.8	17.3	20.9	23.0	22.7	25.3	27.6	26.3	24.3	28.6	32.5
83.5°	13.9	15.0	18.8	20.6	20.4	23.0	24.8	23.5	20.6	25.8	29.4
84°	11.4	12.9	16.5	18.1	18.1	20.4	22.2	20.4	17.0	22.7	26.6
84.5°	9.3	10.8	14.5	15.7	15.7	17.8	19.4	17.3	13.4	19.9	24.0
85°	8.3	9.3	12.4	13.4	13.7	15.2	16.8	14.2	11.4	17.0	21.2
85.5°	7.0	8.0	10.3	11.1	11.4	12.6	13.9	12.1	9.8	13.9	18.6
86°	5.7	6.5	8.5	8.8	9.3	10.3	11.6	10.1	8.3	11.9	15.7
86.5°	4.6	5.2	6.5	6.7	7.2	8.0	9.0	8.3	7.0	10.1	13.2
87°	3.4	3.6	4.6	4.6	5.2	5.7	6.7	6.2	5.4	8.3	10.6
87.5°	2.3	2.3	2.6	2.8	3.1	3.6	4.4	4.4	4.1	6.2	8.3
88°	1.3	1.0	1.0	0.8	1.3	1.8	2.3	2.8	2.8	4.4	5.9
88.5°	0.5	0.3	0.3	0.3	0.3	0.5	0.8	1.3	1.3	2.6	3.6



TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0



TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1174.6	1174.6	1174.6	1174.6	1174.6	1174.6
0.5°	1176.4	1175.9	1173.1	1170.5	1168.7	1167.7
1°	1178.5	1175.7	1170.2	1165.6	1162.5	1160.9
1.5°	1180.6	1175.1	1167.4	1160.4	1156.0	1154.0
2°	1182.4	1174.4	1164.0	1155.5	1149.3	1147.0
2.5°	1183.9	1173.6	1160.7	1149.9	1142.4	1139.5
3°	1185.5	1172.6	1157.3	1144.4	1135.7	1132.3
3.5°	1186.8	1171.3	1153.7	1138.8	1128.7	1124.6
4°	1187.8	1170.0	1149.9	1133.1	1121.2	1116.8
4.5°	1188.6	1168.4	1146.0	1126.6	1113.7	1108.8
5°	1189.3	1166.9	1142.1	1120.7	1106.0	1100.8
5.5°	1189.8	1164.8	1138.0	1114.2	1098.5	1092.3
6°	1190.4	1163.0	1133.6	1107.8	1090.5	1084.0
6.5°	1190.6	1160.9	1128.9	1101.1	1082.5	1075.8
7°	1190.6	1158.6	1124.3	1094.9	1074.5	1067.0
7.5°	1190.4	1156.3	1119.7	1087.9	1066.2	1058.0
8°	1190.1	1153.7	1114.8	1081.0	1057.7	1049.5
8.5°	1189.6	1150.9	1109.9	1074.0	1049.2	1040.4
9°	1188.8	1148.0	1104.7	1066.8	1040.4	1031.2
9.5°	1188.0	1145.2	1099.3	1059.3	1031.9	1021.9
10°	1187.0	1142.1	1093.9	1051.8	1023.2	1012.6
10.5°	1185.7	1138.8	1088.4	1044.6	1014.4	1003.0
11°	1184.4	1135.4	1082.8	1036.8	1005.3	993.7
11.5°	1182.9	1131.8	1077.1	1029.1	996.1	984.2
12°	1181.1	1127.9	1071.1	1021.3	987.0	974.1
12.5°	1179.3	1124.3	1065.2	1013.3	977.7	964.6
13°	1177.2	1120.4	1059.3	1005.3	968.4	955.0
13.5°	1174.6	1116.3	1053.1	997.3	959.2	945.0
14°	1172.6	1112.2	1047.1	989.3	949.6	935.2
14.5°	1170.0	1107.8	1040.7	981.1	940.1	925.1
15°	1167.1	1103.1	1034.2	972.6	930.5	915.0
15.5°	1164.3	1098.8	1027.8	964.3	920.7	905.0
16°	1161.2	1094.1	1021.3	955.8	911.2	894.9
16.5°	1158.1	1089.2	1014.6	947.5	901.6	885.1
17°	1154.5	1084.3	1007.9	939.0	891.8	874.8
17.5°	1150.9	1079.1	1001.0	930.3	882.0	864.7
18°	1147.3	1074.0	994.2	921.5	872.2	854.4
18.5°	1143.4	1068.6	987.0	913.0	862.1	844.3
19°	1139.3	1062.9	979.8	903.9	852.3	834.0
19.5°	1135.1	1057.5	972.6	895.4	842.8	823.4
20°	1130.8	1051.5	965.3	886.6	832.7	813.4
20.5°	1125.9	1045.6	957.9	877.6	822.9	803.0
21°	1121.2	1039.4	950.1	868.6	812.8	792.7

TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1105.7	1020.1	926.9	841.7	782.9	761.8
23°	1100.3	1013.1	918.6	832.7	772.6	751.2
23.5°	1094.4	1005.9	910.9	823.7	763.0	741.1
24°	1088.4	997.9	902.6	814.4	753.0	730.8
24.5°	1082.2	990.4	894.1	805.4	742.9	720.2
25°	1075.8	981.9	885.4	796.1	732.6	710.1
25.5°	1069.1	973.6	876.8	786.8	723.0	700.1
26°	1061.9	964.6	867.8	777.5	713.0	690.0
26.5°	1054.4	955.8	858.5	768.2	702.9	680.0
27°	1046.6	947.0	849.2	758.9	693.1	669.9
27.5°	1038.4	937.5	839.7	749.4	683.3	660.1
28°	1029.6	927.4	829.9	739.8	673.2	650.0
28.5°	1020.8	918.1	820.3	730.5	663.4	640.5
29°	1011.8	908.1	810.5	721.2	653.9	630.9
29.5°	1002.2	897.7	800.7	711.7	644.3	621.1
30°	993.0	887.2	790.4	701.9	634.8	611.8
30.5°	983.2	876.3	780.6	692.3	625.2	602.3
31°	972.8	865.2	770.0	682.5	615.7	593.0
31.5°	962.0	853.9	759.7	672.7	606.1	583.7
32°	951.2	842.8	749.1	663.2	597.1	574.4
32.5°	940.1	831.2	738.8	653.1	587.8	565.4
33°	928.4	819.0	727.9	643.3	578.5	556.3
33.5°	916.8	807.2	717.1	633.5	569.5	547.3
34°	904.4	795.3	706.3	623.4	560.5	538.5
34.5°	892.3	782.9	695.4	613.4	551.7	529.3
35°	879.9	770.8	684.3	603.3	542.7	520.5
35.5°	867.3	757.9	673.5	593.5	533.9	511.7
36°	854.4	745.8	662.4	584.0	524.9	503.2
36.5°	841.0	733.1	651.3	574.2	516.3	494.4
37°	827.8	719.9	640.2	564.3	507.6	485.6
37.5°	814.4	707.3	629.1	554.3	499.1	476.9
38°	800.7	693.9	618.0	544.5	490.0	468.1
38.5°	786.8	681.0	606.7	534.9	481.5	459.6
39°	773.1	667.8	595.6	525.4	473.3	451.3
39.5°	759.2	654.9	584.5	516.1	464.7	442.5
40°	745.0	641.5	573.4	506.3	455.7	434.0
40.5°	730.5	628.3	562.0	496.7	447.5	425.5
41°	716.1	615.2	550.9	487.4	439.2	417.0
41.5°	701.9	602.0	539.6	477.9	430.4	408.7
42°	687.2	589.1	528.5	468.6	422.2	400.2
42.5°	673.2	576.0	517.4	459.3	413.6	392.0
43°	658.5	562.8	506.5	450.0	405.6	383.7
43.5°	643.8	549.9	495.4	440.7	396.9	375.2



TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	601.0	511.7	463.2	413.6	372.6	350.7
45.5°	586.8	499.1	452.4	404.9	364.1	342.4
46°	572.3	486.7	442.3	396.1	356.4	334.7
46.5°	558.4	474.3	431.5	387.1	348.1	326.2
47°	544.2	462.2	421.1	378.3	340.1	318.2
47.5°	530.5	450.0	410.8	369.5	331.8	310.2
48°	516.6	438.2	401.0	361.0	324.1	302.4
48.5°	503.2	426.3	390.9	352.5	316.1	294.2
49°	489.5	414.9	380.9	344.0	308.1	286.4
49.5°	476.4	403.6	371.1	335.5	300.1	278.7
50°	462.9	392.0	361.8	326.9	292.4	270.7
50.5°	450.0	381.1	352.0	318.7	284.6	262.7
51°	437.4	370.3	342.7	310.4	276.6	255.2
51.5°	425.0	359.7	333.4	302.4	268.9	247.5
52°	412.4	349.4	324.4	294.2	261.4	240.0
52.5°	399.7	339.1	315.3	286.4	253.9	232.5
53°	387.6	329.3	306.8	278.4	246.2	225.5
53.5°	376.0	319.7	297.8	270.7	238.4	218.8
54°	364.1	310.2	289.3	262.9	231.2	214.7
54.5°	353.0	301.1	281.3	255.5	224.0	211.9
55°	342.2	292.4	273.0	248.0	217.0	208.8
55.5°	331.3	283.6	265.3	240.8	210.0	205.9
56°	321.0	275.3	257.3	233.5	203.6	202.6
56.5°	310.9	267.1	249.8	226.3	200.0	199.2
57°	301.4	259.1	242.3	219.3	197.1	196.1
57.5°	291.8	251.3	235.3	212.4	194.1	192.5
58°	282.8	243.9	228.4	205.7	191.0	189.1
58.5°	274.0	236.6	221.4	199.2	187.6	185.3
59°	265.3	229.7	214.7	192.8	184.2	181.1
59.5°	257.0	222.7	208.2	186.3	181.1	177.3
60°	249.0	215.7	201.8	180.1	177.5	173.1
60.5°	241.3	209.3	195.6	174.2	173.9	168.8
61°	233.8	202.8	189.4	168.2	170.3	164.6
61.5°	226.3	196.9	183.7	162.8	166.4	160.5
62°	219.6	190.7	178.1	157.4	162.3	156.1
62.5°	212.9	184.8	172.6	152.2	158.4	152.0
63°	206.2	179.1	167.0	147.6	154.6	147.9
63.5°	199.5	173.4	161.8	144.0	150.7	143.7
64°	192.8	167.7	156.4	141.2	146.6	139.3
64.5°	186.3	162.6	151.5	138.3	142.7	135.2
65°	180.4	157.4	146.6	135.5	138.8	131.1
65.5°	174.4	152.5	141.9	132.4	135.0	127.0
66°	168.8	147.3	137.3	129.3	130.8	122.8



TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL5125CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	152.5	133.4	124.1	120.0	119.2	112.0
68°	147.1	128.8	120.0	116.6	115.3	108.4
68.5°	142.2	124.4	116.1	113.5	111.7	105.0
69°	137.3	120.0	112.0	110.2	108.1	101.7
69.5°	132.4	115.9	108.1	106.8	104.5	98.3
70°	127.7	111.7	104.5	103.5	101.2	95.0
70.5°	123.1	107.9	100.9	100.1	97.8	91.9
71°	118.7	103.7	97.0	96.8	94.4	88.8
71.5°	114.1	99.9	93.9	93.4	91.3	85.7
72°	109.9	96.0	90.6	90.3	88.0	82.3
72.5°	105.5	92.9	87.2	87.0	84.9	79.2
73°	101.4	89.3	84.1	83.9	81.5	76.1
73.5°	97.3	85.7	80.8	80.5	78.4	72.8
74°	93.4	81.8	77.7	77.4	75.1	69.7
74.5°	89.3	78.2	74.6	74.3	72.0	66.6
75°	85.4	74.8	71.7	71.2	68.6	63.5
75.5°	81.8	71.5	68.9	68.4	65.5	60.4
76°	77.9	68.1	66.3	65.3	62.2	57.3
76.5°	74.3	65.0	63.7	62.2	59.1	54.2
77°	70.7	61.7	61.2	59.4	56.0	51.4
77.5°	67.1	58.6	58.6	56.3	52.9	48.3
78°	63.7	55.5	55.7	53.4	49.8	45.4
78.5°	60.1	52.6	53.2	50.6	46.7	42.3
79°	56.8	49.5	50.3	47.7	43.6	39.5
79.5°	53.4	46.7	47.7	44.9	40.5	36.4
80°	50.1	43.9	44.9	42.1	37.4	33.5
80.5°	47.0	41.0	42.3	39.2	34.6	30.7
81°	43.9	38.2	39.5	36.6	31.5	27.9
81.5°	40.8	35.6	36.9	33.8	28.6	25.0
82°	37.7	33.0	34.3	31.2	26.1	22.2
82.5°	34.8	30.4	31.7	28.6	23.2	19.4
83°	32.0	27.9	29.2	26.3	20.6	16.8
83.5°	29.2	25.3	26.6	23.7	18.1	13.9
84°	26.3	23.0	24.3	21.4	15.7	11.4
84.5°	23.7	20.4	21.7	19.1	13.7	9.3
85°	21.2	18.1	19.1	16.8	11.6	8.3
85.5°	18.6	15.7	16.8	14.5	10.1	7.0
86°	16.0	13.7	14.2	12.4	8.5	5.7
86.5°	13.2	11.4	11.9	10.1	7.0	4.6
87°	10.8	9.3	9.5	8.0	5.4	3.4
87.5°	8.5	7.2	7.2	6.2	3.9	2.3
88°	6.2	5.2	5.2	4.1	2.6	1.3
88.5°	3.9	3.1	3.1	2.1	1.3	0.5



TEST NUMBER: P776014

CATALOG NUMBER: HCDJBL51525CSD-HCD4TQSH-HCD4TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.3	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°	782.1	801.0	858.0	942.6	1042.5	1126.4	1187.8	1224.2	1235.8	1217.7	1177.2
22°	772.1	790.9	848.7	934.6	1035.8	1121.2	1183.7	1220.6	1232.2	1213.8	1173.1



44°	367.2	382.4	421.1	476.1	540.9	630.1	708.3	663.2	626.3	665.0	710.1
44.5°	358.9	374.2	412.1	465.0	527.7	615.7	691.3	648.5	610.8	650.8	693.1



66.5°	119.2	121.8	119.5	120.8	132.4	149.4	173.4	179.9	179.1	185.8	184.2
67°	115.3	117.7	116.1	116.6	127.7	144.2	167.5	173.9	173.4	180.1	177.8



89°	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3	1.0	1.5
89.5°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.5

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21.5°	1116.3	1033.2	942.4	859.8	802.8	782.1
22°	1111.1	1026.5	934.6	850.8	792.7	772.1



44°	629.4	537.3	484.6	431.7	389.1	367.2
44.5°	615.4	524.3	473.8	422.7	380.6	358.9



66.5°	163.1	142.7	132.9	126.4	127.0	119.2
67°	157.7	137.8	128.5	123.3	123.1	115.3

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89°	1.8	1.0	1.0	0.8	0.3	0.0
89.5°	0.5	0.3	0.3	0.3	0.3	0.0

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Scaled Data Report



(END OF REPORT)