

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: P776214

Luminaire Tested: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B027)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K
Description: 8 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: 2308.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.3
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
CIE Type: Direct

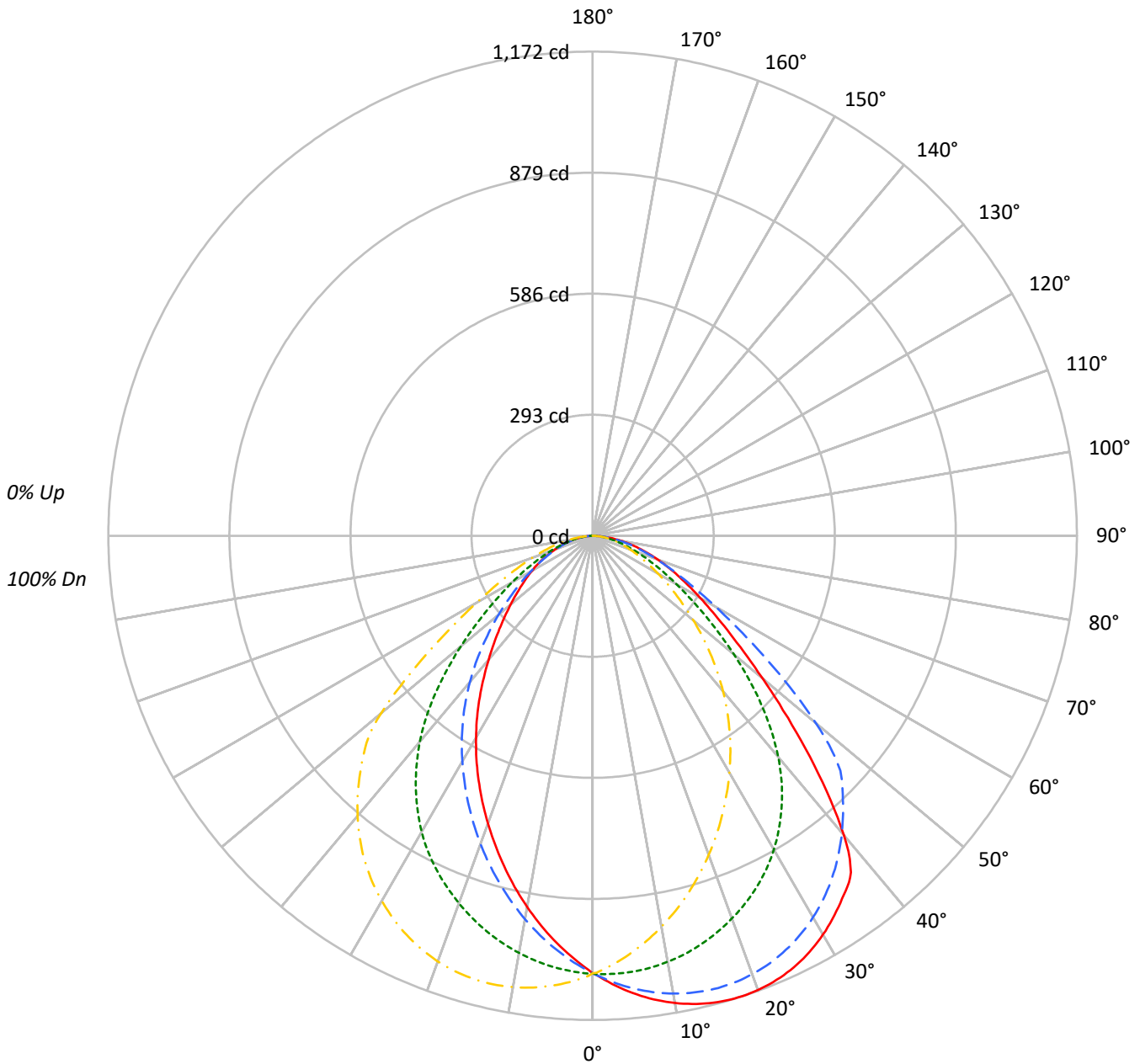
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87																			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75																			
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65																			
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57																			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50																			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44																			
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	42	40																			
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	38	36																			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32																			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25396	25396	25396	25396
5°	26735	25512	23829	25245
10°	27962	25498	22208	24964
15°	29007	25375	20555	24601
20°	29855	25155	18911	24150
25°	30492	24833	17271	23626
30°	30866	24282	15627	22903
35°	31040	23353	13931	21837
40°	29599	21855	12248	20355
45°	24728	19577	10821	18203
50°	20051	16667	9662	15522
55°	16618	13674	8779	12897
60°	14397	11222	8114	10752
65°	12891	9367	7478	9061
70°	11736	7901	6765	7670
75°	10682	6643	6142	6476
80°	9583	5482	5372	5303
85°	7813	4264	3467	3907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 28987 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	4.3
10°-20°	282.5	12.2
20°-30°	417.9	18.1
30°-40°	481.6	20.9
40°-50°	438.5	19.0
50°-60°	300.3	13.0
60°-70°	176.3	7.6
70°-80°	88.9	3.9
80°-90°	22.3	1.0
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°	800.3	34.7
0°-40°	1281.8	55.5
0°-60°	2020.6	87.5
0°-90°	2308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1059	1059	1059	1059	1059	
5°	1111	1060	990	1049	1111	107
15°	1168	1022	828	991	1168	331
25°	1152	939	653	893	1152	531
35°	1060	798	476	746	1060	660
45°	729	577	319	537	729	563
55°	398	327	210	308	398	361
65°	227	165	132	160	227	227
75°	115	72	66	70	115	123
85°	28	16	13	14	28	33
90°	0	0	0	0	0	



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1059.1	1059.1	1059.1	1059.1	1059.1	1059.1	1059.1	1059.1	1059.1	1059.1	1059.1
0.5°	1063.2	1063.5	1063.5	1062.2	1060.9	1059.1	1057.6	1051.4	1051.1	1051.6	1053.9
1°	1069.2	1068.9	1067.9	1065.0	1061.2	1057.0	1053.7	1045.7	1044.7	1045.7	1049.0
1.5°	1074.8	1074.6	1072.0	1067.4	1061.7	1055.0	1049.6	1040.0	1038.5	1039.5	1044.1
2°	1080.3	1080.0	1076.4	1069.9	1061.7	1052.7	1045.2	1034.1	1031.8	1033.1	1039.0
2.5°	1085.9	1085.2	1080.5	1072.3	1061.7	1050.3	1040.8	1028.2	1025.1	1026.9	1033.8
3°	1091.1	1090.1	1084.6	1074.6	1061.7	1048.0	1036.4	1021.7	1018.3	1020.4	1028.4
3.5°	1096.2	1095.0	1088.5	1076.6	1061.4	1045.4	1031.8	1015.5	1011.4	1013.7	1023.0
4°	1101.4	1099.9	1092.1	1078.4	1061.2	1042.6	1026.9	1009.3	1004.4	1007.0	1017.3
4.5°	1106.0	1104.5	1095.5	1080.3	1060.7	1040.0	1022.2	1002.9	997.2	1000.0	1011.6
5°	1110.7	1108.9	1099.1	1082.1	1059.9	1036.9	1017.1	995.9	990.0	993.1	1005.7
5.5°	1115.3	1113.3	1102.4	1083.6	1059.1	1034.1	1011.9	989.5	982.5	986.1	999.8
6°	1119.7	1117.4	1105.5	1084.9	1058.3	1030.7	1006.7	982.5	975.0	978.9	993.8
6.5°	1123.8	1121.3	1108.4	1086.2	1057.3	1027.6	1001.3	975.8	967.8	971.7	987.9
7°	1128.0	1125.4	1111.2	1087.2	1056.3	1024.0	995.9	968.6	959.8	964.2	981.5
7.5°	1131.8	1129.0	1114.0	1088.5	1055.0	1020.7	990.2	961.3	952.3	957.0	975.3
8°	1135.5	1132.6	1116.6	1089.3	1053.7	1017.1	984.6	954.1	944.3	949.2	968.8
8.5°	1138.8	1136.0	1118.9	1090.1	1052.4	1013.2	978.6	946.9	936.3	941.7	962.4
9°	1142.2	1139.1	1121.0	1090.6	1050.8	1009.6	973.0	939.7	928.3	933.7	955.7
9.5°	1145.5	1142.2	1123.3	1091.1	1049.0	1005.5	967.0	932.2	920.3	926.3	949.2
10°	1148.4	1145.0	1125.1	1091.3	1047.2	1001.3	960.8	924.5	912.1	918.3	942.5
10.5°	1151.2	1147.6	1126.9	1091.6	1045.2	997.2	954.6	917.0	904.1	910.3	935.6
11°	1154.0	1150.2	1128.5	1091.6	1043.1	992.8	948.2	909.2	895.8	902.5	928.6
11.5°	1156.3	1152.5	1130.0	1091.6	1041.0	988.4	942.0	901.5	887.6	894.3	921.4
12°	1158.7	1154.5	1131.3	1091.3	1038.7	984.0	935.6	893.8	879.1	886.3	914.4
12.5°	1160.7	1156.6	1132.4	1091.1	1036.4	979.4	929.1	885.8	870.8	878.3	907.4
13°	1162.8	1158.4	1133.4	1090.6	1033.8	974.8	922.4	877.8	862.3	869.8	900.2
13.5°	1164.3	1160.0	1134.2	1089.8	1031.0	969.9	915.7	869.8	853.8	861.5	893.0
14°	1165.9	1161.5	1134.9	1089.0	1028.2	965.0	908.7	861.5	845.3	853.3	885.5
14.5°	1167.4	1162.8	1135.5	1088.3	1025.3	960.1	902.0	853.5	836.8	845.0	878.0
15°	1168.5	1163.8	1135.7	1087.2	1022.2	954.6	895.1	845.0	828.0	836.5	870.5
15.5°	1169.5	1164.9	1136.0	1085.9	1019.1	949.5	888.1	837.0	819.5	828.2	863.1
16°	1170.3	1165.6	1135.7	1084.6	1015.8	944.1	880.9	828.8	810.7	819.7	855.6
16.5°	1171.1	1166.1	1135.5	1083.1	1012.7	938.6	873.6	820.5	802.2	811.5	848.1
17°	1171.3	1166.4	1135.2	1081.5	1009.1	933.2	866.4	812.0	793.4	802.7	840.1
17.5°	1171.6	1166.4	1134.7	1079.7	1005.5	927.6	858.9	803.7	784.7	794.5	832.6
18°	1171.8	1166.7	1133.9	1077.9	1001.8	921.9	851.7	795.5	775.9	785.4	824.9
18.5°	1171.6	1166.4	1133.1	1075.9	998.0	916.2	844.2	787.0	767.1	777.2	816.9
19°	1171.3	1165.9	1132.1	1073.5	993.8	910.3	836.8	778.5	758.3	768.7	809.2
19.5°	1170.8	1165.4	1130.8	1071.2	990.0	904.3	829.3	770.2	749.8	760.2	801.4
20°	1170.0	1164.6	1129.5	1068.9	985.8	898.4	821.8	761.7	741.1	751.4	793.2
20.5°	1169.2	1163.8	1128.0	1066.3	981.7	892.2	814.1	753.2	732.0	742.6	785.2
21°	1168.0	1162.5	1126.2	1063.7	977.3	886.3	806.3	744.4	723.3	734.1	777.4



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CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1163.6	1157.9	1120.0	1054.7	963.9	867.2	782.8	719.1	697.0	708.3	753.2
23°	1161.8	1156.1	1117.7	1051.4	959.0	860.7	775.1	710.4	688.2	699.5	745.2
23.5°	1159.7	1154.0	1115.1	1048.0	954.1	854.3	767.4	701.6	679.4	691.0	737.2
24°	1157.4	1151.7	1112.5	1044.7	949.2	847.6	759.4	693.1	670.6	682.3	728.9
24.5°	1155.1	1149.1	1109.4	1041.0	944.1	840.9	751.4	684.6	661.6	673.7	720.7
25°	1152.5	1146.5	1106.3	1037.2	938.6	834.2	743.4	676.1	652.8	665.0	712.7
25.5°	1149.4	1143.7	1103.0	1033.1	933.2	827.0	735.4	667.6	644.3	656.2	704.7
26°	1146.3	1140.6	1099.9	1029.2	927.8	820.0	727.4	658.8	635.3	647.7	696.2
26.5°	1143.2	1137.3	1096.2	1024.8	922.1	813.0	719.4	650.0	626.3	638.9	688.2
27°	1139.8	1133.9	1092.4	1020.7	916.2	805.8	711.1	641.2	617.5	630.4	679.9
27.5°	1136.2	1130.3	1088.5	1016.0	910.0	798.6	703.1	632.7	609.0	621.4	671.7
28°	1132.1	1126.4	1084.4	1011.1	903.8	791.1	694.9	624.2	600.0	612.9	663.4
28.5°	1128.2	1122.3	1080.3	1006.2	897.4	783.6	686.9	615.4	590.9	604.1	655.4
29°	1123.8	1117.9	1075.9	1001.3	890.9	775.9	678.6	606.7	582.2	595.3	646.9
29.5°	1119.5	1113.5	1071.5	996.2	884.0	768.4	670.4	598.2	573.4	586.6	638.7
30°	1114.8	1109.1	1066.6	990.7	877.0	760.4	662.1	589.1	564.4	577.8	630.4
30.5°	1110.2	1104.2	1061.7	985.1	869.8	752.4	654.1	580.6	555.3	569.0	622.2
31°	1105.0	1099.3	1056.8	979.1	862.6	744.2	645.6	571.6	546.6	560.5	613.9
31.5°	1099.9	1094.2	1051.6	973.2	855.1	736.2	637.1	563.1	537.8	551.7	605.6
32°	1094.7	1089.0	1046.2	966.8	847.3	727.9	628.9	554.3	529.0	543.0	597.4
32.5°	1089.0	1083.4	1040.5	960.3	839.3	719.1	620.3	545.5	520.0	534.2	589.1
33°	1083.6	1077.9	1034.9	953.9	831.3	710.6	612.1	536.5	511.5	525.4	580.9
33.5°	1077.9	1072.0	1028.9	946.9	823.3	702.1	603.6	528.3	502.5	516.9	572.6
34°	1072.0	1066.3	1023.3	939.9	814.8	693.6	595.1	519.2	493.4	508.1	563.9
34.5°	1066.1	1060.1	1016.8	932.7	806.3	684.8	586.6	510.5	484.7	499.4	555.6
35°	1060.4	1053.9	1010.6	925.2	797.8	676.1	578.0	501.7	475.9	490.9	547.3
35.5°	1054.7	1047.8	1003.9	917.2	788.8	667.0	569.3	493.2	467.1	482.1	538.8
36°	1049.3	1041.3	997.5	909.5	779.8	658.5	560.8	484.4	458.4	473.3	530.3
36.5°	1043.1	1035.1	990.7	901.2	770.2	649.5	552.3	475.4	449.6	464.6	521.8
37°	1035.9	1028.9	983.5	893.0	760.9	640.2	543.5	466.6	441.1	455.8	513.3
37.5°	1026.9	1022.7	976.6	884.7	751.1	630.9	534.5	458.1	432.6	447.3	504.8
38°	1013.7	1016.8	969.1	876.0	740.8	621.9	525.9	449.3	424.1	438.8	496.3
38.5°	1000.0	1009.8	961.6	866.9	730.7	612.6	517.2	440.6	415.8	430.0	487.8
39°	983.5	1002.1	954.1	857.4	720.2	603.3	508.4	432.1	407.5	421.7	479.3
39.5°	965.2	991.0	946.4	848.1	709.6	593.8	499.6	423.5	399.3	413.2	470.5
40°	945.6	978.9	938.4	838.3	698.2	584.2	490.9	415.0	391.3	405.0	462.0
40.5°	924.2	963.4	930.6	828.0	687.2	574.9	482.1	406.5	383.6	396.7	453.5
41°	903.8	947.4	922.4	817.2	675.8	565.1	473.1	398.5	375.8	389.0	444.7
41.5°	881.6	927.3	914.1	806.3	664.2	555.6	464.3	390.3	368.3	380.7	435.9
42°	860.5	909.0	905.6	794.7	652.3	545.8	455.5	382.3	360.9	373.0	427.4
42.5°	838.3	887.8	897.1	782.8	640.2	536.3	446.8	374.3	353.6	365.2	418.9
43°	816.4	868.2	888.9	770.5	628.1	526.5	438.0	366.5	346.4	357.8	410.4
43.5°	793.9	846.3	880.1	758.6	615.7	516.4	429.2	358.5	339.2	350.0	401.6



TEST NUMBER: P776214

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	729.2	782.6	854.8	718.1	577.3	487.0	402.9	336.4	319.1	328.6	376.3
45.5°	706.8	760.7	846.3	704.4	564.4	476.9	394.1	329.1	312.4	321.7	368.1
46°	687.2	740.0	836.5	690.2	551.5	467.1	385.4	321.9	306.2	314.7	359.6
46.5°	665.2	717.8	826.4	675.5	538.3	457.1	376.9	314.9	299.7	308.0	351.3
47°	646.9	698.2	812.0	660.6	525.2	447.3	368.1	308.2	293.5	301.5	343.3
47.5°	625.2	676.6	798.3	645.1	511.8	437.2	359.6	301.8	287.6	295.1	335.3
48°	608.2	657.7	780.8	629.4	499.1	427.4	351.1	294.8	281.7	288.9	327.6
48.5°	587.8	636.1	764.3	613.6	485.7	417.6	342.5	288.4	275.7	282.7	319.6
49°	571.9	618.5	744.4	597.9	472.5	407.8	334.3	282.2	270.1	276.5	311.9
49.5°	552.5	598.2	725.8	581.9	459.7	398.0	326.0	276.0	264.6	270.6	304.4
50°	537.5	581.4	704.7	565.9	446.8	388.2	317.8	269.8	259.0	264.6	296.9
50.5°	519.5	562.6	684.3	549.4	433.3	378.4	309.8	263.9	253.6	259.0	289.4
51°	505.6	545.8	663.2	532.9	421.0	368.9	302.0	257.9	248.7	253.6	282.2
51.5°	488.8	528.3	642.8	516.7	408.3	359.6	294.3	252.0	243.5	247.9	275.2
52°	475.4	512.8	621.1	500.7	395.9	350.0	286.6	246.6	238.3	242.5	268.3
52.5°	460.4	496.8	601.3	484.7	383.6	340.5	279.1	240.9	233.2	237.3	261.3
53°	447.8	481.6	580.4	468.4	372.0	331.2	271.9	235.5	228.3	231.9	254.6
53.5°	433.9	466.6	560.8	452.4	360.1	322.2	264.6	230.1	223.6	227.0	247.9
54°	421.5	451.9	540.4	436.7	348.7	313.1	257.4	225.2	219.0	222.1	241.7
54.5°	409.1	438.5	521.3	421.5	337.4	304.1	250.5	220.3	214.6	217.4	235.2
55°	397.5	424.3	502.7	406.3	327.1	295.3	243.8	215.1	210.0	212.5	229.1
55.5°	386.4	413.2	483.9	391.8	316.2	286.6	237.0	210.2	205.6	207.9	222.9
56°	375.0	399.0	466.6	377.6	305.9	278.1	230.3	205.3	200.9	203.3	217.2
56.5°	365.2	389.0	448.8	364.0	295.9	269.8	224.2	200.4	197.1	198.6	211.5
57°	353.9	375.8	432.8	350.5	286.3	261.6	218.0	196.3	192.9	194.2	205.8
57.5°	345.4	366.5	415.8	337.9	276.8	253.6	212.0	191.9	188.8	189.8	200.2
58°	334.8	354.4	400.6	325.3	267.7	245.8	205.8	187.5	184.7	185.5	194.5
58.5°	327.1	344.9	385.6	313.7	259.0	238.1	199.9	183.1	180.6	181.3	189.1
59°	316.8	334.3	370.9	302.3	250.2	230.6	193.7	178.8	176.7	177.2	183.7
59.5°	309.8	325.0	357.5	291.5	241.9	223.6	188.0	174.6	172.8	173.1	178.5
60°	300.2	315.2	343.6	280.9	234.0	216.7	182.4	170.5	169.2	169.2	173.3
60.5°	292.5	305.4	331.7	270.8	226.0	209.7	177.2	166.4	165.3	165.3	168.4
61°	284.3	297.1	318.3	261.0	218.7	202.7	171.8	162.2	161.7	161.5	163.5
61.5°	276.5	287.3	307.5	252.0	211.5	195.8	166.4	158.4	158.1	157.9	158.9
62°	269.0	279.9	295.9	243.2	204.0	189.1	161.5	154.8	154.5	154.0	154.0
62.5°	261.6	271.1	284.5	234.7	196.8	182.9	156.6	150.9	150.6	150.4	149.6
63°	254.3	263.4	274.7	226.5	190.4	176.4	151.7	147.3	146.8	146.8	145.2
63.5°	247.4	255.4	264.4	218.7	183.7	170.5	146.8	143.7	143.2	143.2	140.8
64°	240.7	247.4	255.1	210.7	177.5	164.6	142.1	140.1	139.3	139.5	136.7
64.5°	233.7	240.4	245.8	203.5	171.3	158.9	137.7	136.5	135.4	135.7	132.6
65°	227.2	232.9	236.5	196.6	165.1	153.2	133.4	132.8	131.8	132.1	128.5
65.5°	220.8	226.2	228.5	189.6	159.1	147.8	129.2	129.0	128.2	128.5	124.6
66°	214.3	219.2	220.0	182.9	153.5	142.4	125.1	125.4	124.6	125.1	120.7



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	196.0	199.1	197.1	164.1	137.2	126.9	113.2	115.0	114.0	114.8	109.9
68°	190.4	192.9	189.8	158.4	132.1	122.3	109.6	111.7	110.4	111.4	106.5
68.5°	184.4	186.7	183.1	152.7	127.2	117.6	106.0	108.6	107.0	108.1	102.9
69°	178.8	180.8	176.2	147.0	122.3	113.0	102.4	105.2	103.4	104.7	99.6
69.5°	173.3	174.9	169.7	141.6	117.4	108.3	99.0	101.9	100.1	101.6	96.5
70°	167.4	169.0	163.5	136.2	112.7	104.0	95.7	98.8	96.5	98.3	93.1
70.5°	162.0	163.0	157.3	131.0	108.1	99.8	92.6	95.7	93.4	95.2	90.0
71°	156.6	157.3	151.4	126.1	103.7	96.0	89.2	92.3	89.8	91.8	86.9
71.5°	151.2	151.9	145.5	121.2	99.3	91.8	86.2	89.2	86.7	88.5	83.8
72°	146.0	146.5	139.8	116.3	95.2	87.7	83.1	85.9	83.6	85.4	81.0
72.5°	140.8	141.1	134.4	111.4	91.1	84.1	80.0	82.8	80.7	82.3	78.2
73°	135.7	135.9	129.0	107.0	86.9	80.2	77.1	79.7	77.9	79.4	75.3
73.5°	130.3	130.5	123.6	102.4	83.1	76.6	74.3	76.9	74.8	76.4	72.5
74°	125.4	125.4	118.4	98.0	79.2	73.0	71.4	74.0	72.0	73.5	69.6
74.5°	120.5	120.2	113.2	93.6	75.6	69.6	68.6	70.9	69.1	70.4	66.8
75°	115.3	115.3	108.3	89.8	71.7	66.3	66.0	68.4	66.3	67.6	64.0
75.5°	110.7	110.4	103.4	85.6	68.1	62.9	63.2	65.3	63.5	64.7	61.4
76°	105.8	105.5	98.8	81.8	64.7	59.8	60.6	62.4	60.6	61.9	58.6
76.5°	100.9	100.6	94.1	77.6	61.4	56.7	58.0	59.6	58.0	59.1	55.7
77°	96.2	96.0	89.8	73.8	58.0	53.7	55.5	56.7	55.2	56.2	53.4
77.5°	91.8	91.3	85.4	69.9	54.7	50.8	52.6	53.9	52.6	53.4	50.6
78°	87.4	86.9	81.0	66.0	51.6	48.0	50.0	51.1	49.8	50.6	48.0
78.5°	82.8	82.5	76.6	62.4	48.5	45.1	47.5	48.5	47.2	48.0	45.4
79°	78.4	77.9	72.2	58.8	45.7	42.6	45.1	45.7	44.4	45.1	42.8
79.5°	73.8	73.5	67.8	55.2	42.6	40.0	42.6	42.8	41.8	42.6	40.2
80°	69.4	69.1	63.7	51.8	39.7	37.4	40.0	40.0	38.9	40.0	37.7
80.5°	65.0	64.7	59.6	48.2	36.9	35.1	37.7	37.1	36.4	37.1	35.1
81°	60.9	60.6	55.7	45.1	34.3	32.8	35.1	34.3	33.8	34.6	32.8
81.5°	56.5	56.2	51.8	41.8	31.7	30.4	32.5	31.5	31.0	31.7	30.2
82°	52.4	52.4	48.0	38.7	29.1	28.1	29.9	28.9	28.4	29.1	27.9
82.5°	48.2	48.2	44.1	35.6	26.6	26.1	27.6	26.1	25.8	26.6	25.3
83°	44.1	44.1	40.5	32.5	24.5	24.0	25.0	23.5	23.0	23.7	23.0
83.5°	40.0	40.2	36.6	29.4	22.2	21.9	22.7	20.6	20.4	21.2	20.6
84°	36.1	36.4	33.0	26.8	19.9	19.9	20.4	18.1	17.8	18.6	18.3
84.5°	32.2	32.5	29.7	24.0	17.5	17.8	18.3	15.5	15.2	16.0	16.3
85°	28.4	28.6	26.3	21.4	15.5	15.7	16.0	12.6	12.6	13.2	13.9
85.5°	24.5	24.8	23.2	18.6	13.2	13.7	13.7	10.3	10.1	10.8	11.9
86°	20.6	21.2	20.1	16.3	11.1	11.9	11.6	8.3	8.0	8.5	9.8
86.5°	16.8	17.5	17.3	13.7	9.3	9.8	9.5	6.4	6.2	6.7	7.7
87°	13.2	14.2	14.2	11.3	7.5	7.7	7.5	4.6	4.6	5.2	5.9
87.5°	10.6	11.3	11.3	8.8	5.7	5.9	5.7	3.1	3.1	3.4	3.9
88°	8.5	8.8	8.8	6.7	3.9	4.1	3.6	1.5	1.5	1.8	2.1
88.5°	6.4	6.7	6.7	4.6	2.3	2.1	1.8	0.5	0.5	0.5	0.5



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1059.1	1059.1	1059.1	1059.1	1059.1	1059.1
0.5°	1056.5	1059.9	1062.5	1065.3	1062.2	1063.2
1°	1053.4	1059.1	1064.0	1068.9	1067.4	1069.2
1.5°	1050.3	1058.1	1065.6	1072.3	1072.3	1074.8
2°	1047.0	1057.3	1066.8	1075.6	1077.2	1080.3
2.5°	1043.6	1056.0	1068.1	1079.0	1082.1	1085.9
3°	1040.0	1055.0	1069.2	1081.8	1087.0	1091.1
3.5°	1036.4	1053.4	1069.9	1084.9	1091.3	1096.2
4°	1032.8	1052.1	1070.7	1087.7	1095.7	1101.4
4.5°	1028.9	1050.6	1071.5	1090.3	1099.9	1106.0
5°	1024.8	1048.8	1072.0	1092.6	1104.0	1110.7
5.5°	1020.9	1047.0	1072.5	1095.0	1107.6	1115.3
6°	1016.8	1045.2	1072.8	1097.3	1111.5	1119.7
6.5°	1012.4	1043.1	1072.8	1099.3	1115.1	1123.8
7°	1008.0	1040.8	1072.8	1101.4	1118.4	1128.0
7.5°	1003.4	1038.7	1072.8	1103.0	1121.8	1131.8
8°	998.7	1036.1	1072.5	1104.5	1124.9	1135.5
8.5°	994.1	1033.8	1072.3	1106.0	1127.7	1138.8
9°	989.5	1031.0	1071.5	1107.3	1130.6	1142.2
9.5°	984.6	1028.4	1071.0	1108.4	1133.1	1145.5
10°	979.4	1025.3	1070.2	1109.4	1135.5	1148.4
10.5°	974.5	1022.5	1069.4	1110.2	1137.8	1151.2
11°	969.3	1019.4	1068.4	1110.9	1139.8	1154.0
11.5°	963.9	1016.3	1067.1	1111.5	1141.6	1156.3
12°	958.5	1012.9	1065.8	1112.0	1143.5	1158.7
12.5°	953.1	1009.6	1064.5	1112.2	1145.0	1160.7
13°	947.7	1006.0	1062.7	1112.2	1146.3	1162.8
13.5°	942.0	1002.4	1061.2	1112.0	1147.6	1164.3
14°	936.3	998.7	1059.4	1111.7	1148.6	1165.9
14.5°	930.4	994.9	1057.3	1111.5	1149.4	1167.4
15°	924.5	991.0	1055.2	1110.7	1149.9	1168.5
15.5°	918.5	986.9	1052.9	1109.9	1150.4	1169.5
16°	912.6	982.8	1050.6	1109.1	1150.9	1170.3
16.5°	906.4	978.6	1048.3	1108.1	1150.9	1171.1
17°	900.2	974.2	1045.7	1106.8	1150.9	1171.3
17.5°	893.8	969.9	1042.9	1105.5	1150.7	1171.6
18°	887.6	965.2	1040.0	1104.0	1150.2	1171.8
18.5°	881.1	960.6	1037.2	1102.2	1149.6	1171.6
19°	874.7	955.9	1034.1	1100.4	1148.9	1171.3
19.5°	868.2	951.3	1030.7	1098.3	1147.8	1170.8
20°	861.5	946.4	1027.6	1096.2	1146.5	1170.0
20.5°	854.8	941.5	1024.0	1093.9	1145.3	1169.2
21°	848.1	936.3	1020.4	1091.1	1143.7	1168.0

TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	827.7	920.8	1009.1	1082.8	1138.0	1163.6
23°	820.8	915.4	1005.2	1079.7	1135.7	1161.8
23.5°	813.8	910.0	1001.1	1076.4	1133.4	1159.7
24°	806.8	904.6	996.9	1073.0	1130.8	1157.4
24.5°	799.6	898.9	992.6	1069.4	1128.0	1155.1
25°	792.7	893.0	988.2	1065.8	1124.9	1152.5
25.5°	785.4	887.1	983.5	1061.9	1121.5	1149.4
26°	778.2	881.1	978.9	1057.8	1118.4	1146.3
26.5°	770.7	874.9	974.0	1053.7	1114.8	1143.2
27°	763.5	868.7	969.1	1049.3	1110.9	1139.8
27.5°	756.0	862.3	963.9	1044.9	1107.1	1136.2
28°	748.5	855.6	958.5	1040.3	1103.0	1132.1
28.5°	740.5	848.9	953.1	1035.6	1098.6	1128.2
29°	733.1	841.9	947.4	1030.7	1094.2	1123.8
29.5°	725.1	834.7	941.7	1025.8	1089.3	1119.5
30°	717.1	827.2	935.6	1020.7	1084.6	1114.8
30.5°	709.1	819.7	929.1	1015.5	1079.7	1110.2
31°	700.8	812.3	922.9	1009.8	1074.6	1105.0
31.5°	692.8	804.3	916.2	1004.4	1069.2	1099.9
32°	684.6	796.3	909.2	998.7	1063.7	1094.7
32.5°	676.1	788.3	902.0	992.8	1058.1	1089.0
33°	667.8	780.0	894.8	986.9	1052.1	1083.6
33.5°	659.0	771.8	887.3	980.4	1046.2	1077.9
34°	650.3	763.0	879.6	974.2	1040.3	1072.0
34.5°	641.8	754.7	871.6	967.8	1034.1	1066.1
35°	633.5	746.0	863.6	961.1	1027.6	1060.4
35.5°	624.5	737.2	855.3	954.4	1021.2	1054.7
36°	615.7	727.9	847.1	947.4	1014.7	1049.3
36.5°	606.9	718.9	838.3	940.2	1008.0	1043.1
37°	598.4	709.6	829.5	932.7	1001.3	1035.9
37.5°	589.4	700.1	820.5	925.2	994.6	1026.9
38°	580.6	690.2	811.2	917.5	988.2	1013.7
38.5°	571.6	680.4	801.7	909.5	981.7	1000.0
39°	563.1	670.6	792.1	901.5	975.5	983.5
39.5°	553.5	660.8	781.8	893.2	968.1	965.2
40°	544.8	650.3	771.8	884.7	960.3	945.6
40.5°	535.7	639.7	761.2	876.2	948.2	924.2
41°	526.7	629.1	750.1	867.7	936.3	903.8
41.5°	517.7	618.3	738.7	858.7	920.8	881.6
42°	508.7	607.2	727.4	849.7	904.9	860.5
42.5°	499.6	595.8	715.5	840.6	886.0	838.3
43°	490.6	584.2	703.1	831.6	868.5	816.4
43.5°	481.3	572.6	690.2	822.1	848.4	793.9



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	453.7	536.8	649.2	792.9	789.3	729.2
45.5°	444.2	524.4	635.0	782.8	768.7	706.8
46°	434.9	512.5	620.1	773.3	748.8	687.2
46.5°	425.6	500.4	605.4	763.0	728.4	665.2
47°	416.3	488.0	590.2	753.2	708.8	646.9
47.5°	407.3	475.9	575.2	742.1	688.2	625.2
48°	397.7	463.8	560.0	730.7	669.1	608.2
48.5°	388.7	451.7	544.5	718.1	649.2	587.8
49°	379.4	439.8	529.3	701.9	630.9	571.9
49.5°	370.4	428.2	514.3	686.4	611.8	552.5
50°	361.4	416.1	499.1	668.1	594.6	537.5
50.5°	352.1	404.5	483.9	649.5	575.7	519.5
51°	343.3	392.8	468.7	630.1	558.7	505.6
51.5°	334.3	381.8	454.0	610.0	541.7	488.8
52°	325.5	370.4	439.5	589.7	525.9	475.4
52.5°	316.8	359.6	425.3	570.6	509.2	460.4
53°	308.0	349.0	410.9	550.7	493.2	447.8
53.5°	299.7	338.7	397.2	531.4	478.7	433.9
54°	291.2	328.1	384.1	512.0	463.5	421.5
54.5°	283.0	318.3	371.2	493.7	449.8	409.1
55°	274.7	308.5	358.8	475.9	434.6	397.5
55.5°	266.7	299.2	346.4	457.8	422.5	386.4
56°	258.7	289.9	334.5	441.1	408.1	375.0
56.5°	251.2	280.9	323.5	424.3	397.0	365.2
57°	243.5	271.9	312.4	408.6	383.0	353.9
57.5°	236.0	263.4	301.8	393.1	372.7	345.4
58°	228.8	255.1	291.5	378.4	360.1	334.8
58.5°	222.1	247.1	281.9	364.2	350.0	327.1
59°	215.4	239.4	272.6	350.0	338.9	316.8
59.5°	208.7	231.6	263.6	337.6	328.6	309.8
60°	202.0	224.2	254.6	324.7	318.8	300.2
60.5°	195.0	216.7	246.3	312.6	309.0	292.5
61°	188.6	209.7	238.1	300.8	300.2	284.3
61.5°	182.6	203.0	230.3	289.7	290.4	276.5
62°	176.4	196.3	222.9	279.1	282.7	269.0
62.5°	170.5	189.6	215.6	269.0	273.7	261.6
63°	164.6	183.4	208.2	259.2	265.7	254.3
63.5°	159.1	177.2	201.5	249.9	257.7	247.4
64°	153.7	171.0	194.7	240.4	249.4	240.7
64.5°	148.3	165.1	188.3	232.1	242.2	233.7
65°	142.9	159.7	181.8	223.6	234.5	227.2
65.5°	137.7	153.7	175.7	215.9	227.8	220.8
66°	132.8	148.3	169.7	207.9	220.5	214.3



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL5125CSD-HCD8TSQH-HCD8TSQLWW-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	118.7	132.6	152.7	186.7	200.2	196.0
68°	114.3	127.9	147.0	179.5	194.0	190.4
68.5°	109.9	123.0	141.9	173.3	187.8	184.4
69°	105.8	118.4	136.7	166.9	181.3	178.8
69.5°	101.4	113.8	131.8	160.7	175.4	173.3
70°	97.5	109.4	126.9	154.8	169.5	167.4
70.5°	93.4	104.7	122.0	148.8	163.5	162.0
71°	89.5	100.6	117.1	143.2	158.1	156.6
71.5°	85.9	96.2	112.7	137.5	152.4	151.2
72°	82.3	92.6	108.1	132.1	146.8	146.0
72.5°	78.7	88.7	103.7	126.9	141.4	140.8
73°	75.1	84.9	99.3	121.5	135.9	135.7
73.5°	71.7	81.0	94.9	116.6	130.8	130.3
74°	68.4	77.1	91.1	111.7	125.6	125.4
74.5°	65.3	73.5	87.2	106.5	120.5	120.5
75°	62.2	69.9	83.3	101.9	115.3	115.3
75.5°	59.1	66.3	79.2	97.2	110.4	110.7
76°	56.0	62.9	75.3	91.8	105.8	105.8
76.5°	53.1	59.6	71.4	87.7	100.9	100.9
77°	50.6	56.5	67.8	83.6	96.0	96.2
77.5°	48.0	53.1	64.2	79.4	91.3	91.8
78°	45.1	50.0	60.6	75.1	86.9	87.4
78.5°	42.6	47.2	57.3	70.9	82.5	82.8
79°	40.2	44.1	53.7	66.8	78.2	78.4
79.5°	37.9	41.3	50.3	62.7	73.5	73.8
80°	35.6	38.4	46.9	58.6	69.1	69.4
80.5°	33.3	35.9	43.8	54.7	64.7	65.0
81°	31.0	33.0	40.8	50.8	60.6	60.9
81.5°	28.6	30.4	37.7	46.9	56.5	56.5
82°	26.6	28.1	34.6	43.1	52.1	52.4
82.5°	24.2	25.5	31.7	39.5	48.2	48.2
83°	22.2	23.2	28.9	35.9	44.1	44.1
83.5°	20.1	20.9	26.1	32.2	40.2	40.0
84°	18.1	18.6	23.2	28.9	36.1	36.1
84.5°	16.0	16.5	20.6	25.5	32.2	32.2
85°	13.9	14.2	18.1	22.4	28.6	28.4
85.5°	11.9	12.4	15.5	19.6	24.8	24.5
86°	9.8	10.3	13.2	16.5	21.2	20.6
86.5°	8.0	8.5	10.8	13.7	17.8	16.8
87°	5.9	6.7	8.8	11.1	14.7	13.2
87.5°	3.9	4.9	6.7	8.3	11.9	10.6
88°	2.1	3.1	4.6	6.2	9.3	8.5
88.5°	0.5	1.3	2.6	4.1	7.0	6.4



TEST NUMBER: P776214

CATALOG NUMBER: HCDJBL51525CSD-HCD8TSQH-HCD8TSQLWW-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	0.3



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Cooper Lighting Solutions Photometric Lab
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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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21.5°	1166.7	1161.2	1124.4	1060.9	973.0	879.8	798.6	735.9	714.8	725.6	769.4
22°	1165.4	1159.7	1122.3	1057.8	968.6	873.6	790.8	727.4	705.7	717.1	761.2



44°	772.3	825.2	871.6	745.4	603.1	506.6	420.4	351.3	332.5	342.8	393.1
44.5°	750.1	803.5	863.1	732.0	590.4	496.8	411.7	343.6	325.5	335.6	384.8



66.5°	208.4	212.3	212.0	176.4	148.1	137.0	121.0	122.0	121.0	121.5	117.1
67°	202.2	205.8	204.5	170.2	142.6	132.1	117.1	118.7	117.4	118.1	113.5



89°	4.4	4.4	4.4	2.6	0.8	0.5	0.5	0.3	0.0	0.3	0.3
89.5°	2.3	2.3	2.3	0.5	0.0	0.0	0.0	0.3	0.0	0.3	0.0

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21.5°	841.4	931.2	1016.8	1088.5	1142.2	1166.7
22°	834.7	926.0	1012.9	1085.9	1140.1	1165.4

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44°	472.0	560.8	677.1	812.5	829.5	772.3
44.5°	463.0	548.9	663.4	802.7	808.9	750.1



66.5°	128.2	143.2	163.8	200.7	213.6	208.4
67°	123.3	138.0	158.1	193.5	207.1	202.2



89°	0.0	0.3	0.5	2.1	4.6	4.4
89.5°	0.0	0.0	0.0	0.3	2.6	2.3

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Scaled Data Report



(END OF REPORT)