

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: P776040

Luminaire Tested: HCDJBL51525CSD-HCD61TRMB-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776040
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-2700K
Description: 6 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

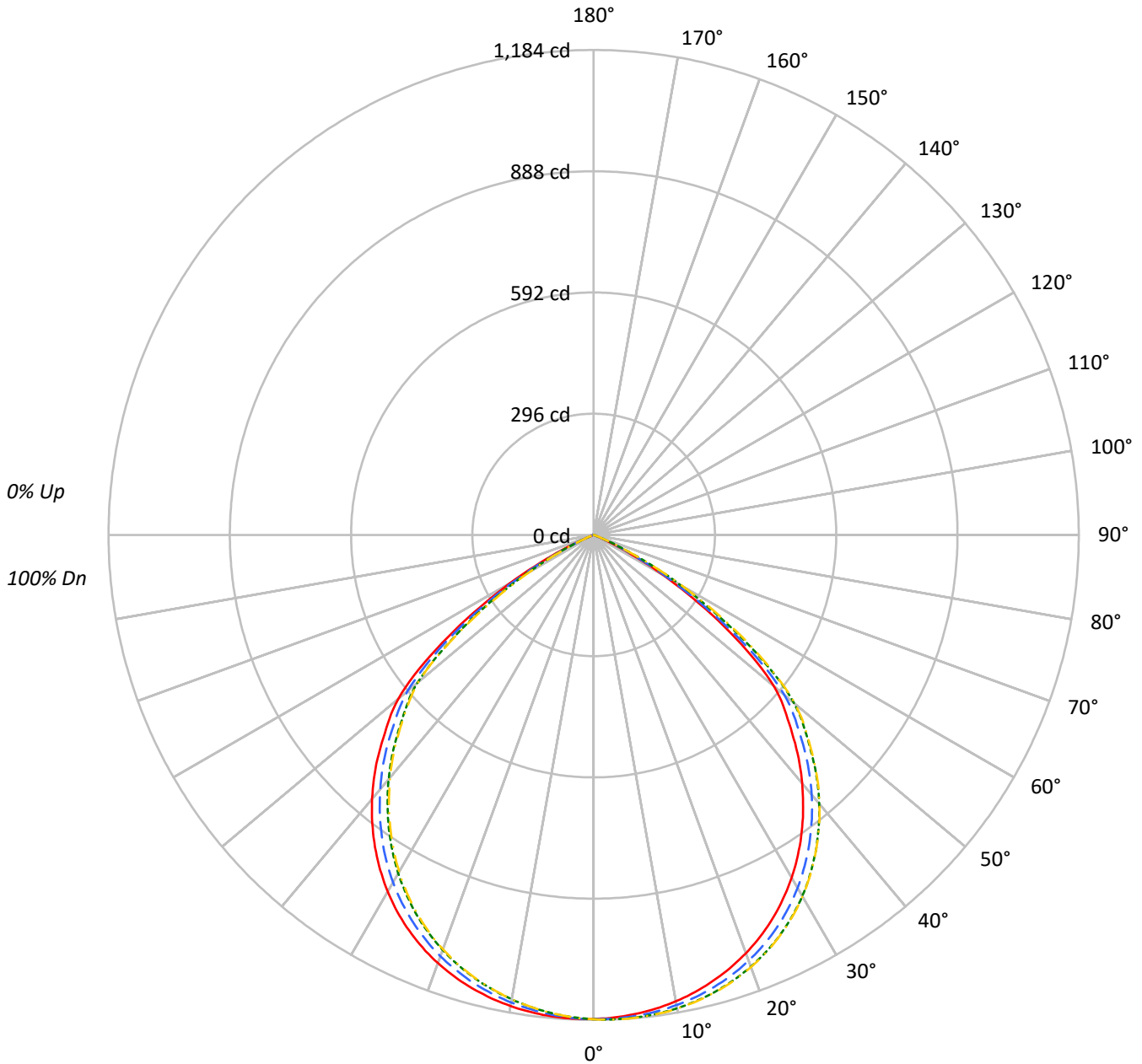
Lumens per Lamp: N/A
Luminaire Lumens: 2474.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P776040

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69	69	69	69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61	61	61	61
5	82	71	64	58	81	70	63	58	68	62	57	66	61	57	65	60	56	54	54	54	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48	48	48	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	64814	64814	64814	64814
5°	64610	65089	64918	64489
10°	64344	65329	65007	64088
15°	63967	65466	65029	63599
20°	63396	65444	64878	62900
25°	62508	65145	64467	61860
30°	61168	64447	63636	60383
35°	59234	63189	62265	58330
40°	56635	61265	60206	55683
45°	53145	58293	57107	52153
50°	48979	54395	53056	47845
55°	37017	42904	41490	35889
60°	21457	26829	25787	21029
65°	6603	10183	9327	7134
70°	112	192	112	112
75°	42	106	42	42
80°	63	63	0	63
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 58502 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	4.5
10°-20°	320.8	13.0
20°-30°	483.2	19.5
30°-40°	566.7	22.9
40°-50°	548.8	22.2
50°-60°	365.1	14.8
60°-70°	77.0	3.1
70°-80°	0.4	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°	915.8	37.0
0°-40°	1482.6	59.9
0°-60°	2396.5	96.9
0°-90°	2474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2474.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1182	1182	1182	1182	1182	
5°	1174	1183	1180	1172	1174	112
15°	1127	1154	1146	1121	1127	318
25°	1033	1077	1066	1023	1033	476
35°	885	944	930	872	885	552
45°	686	752	737	673	686	529
55°	387	449	434	376	387	344
65°	51	78	72	55	51	64
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3
0.5°	1181.6	1181.6	1182.3	1183.1	1182.8	1183.1	1183.1	1182.8	1182.1	1181.9	1182.1
1°	1181.1	1181.6	1182.3	1183.3	1183.3	1183.6	1183.6	1183.1	1182.3	1181.6	1181.6
1.5°	1180.7	1181.1	1182.3	1183.1	1183.6	1183.8	1183.8	1183.3	1182.3	1181.6	1181.4
2°	1179.9	1180.7	1182.1	1183.1	1183.8	1184.3	1184.3	1183.3	1182.3	1181.1	1180.9
2.5°	1179.2	1180.2	1181.6	1183.1	1183.8	1184.3	1184.3	1183.3	1182.1	1180.9	1180.2
3°	1178.2	1179.7	1181.4	1182.8	1183.8	1184.3	1184.3	1183.3	1181.9	1180.4	1179.4
3.5°	1177.5	1179.0	1180.9	1182.6	1183.6	1184.3	1184.3	1183.3	1181.4	1179.7	1178.5
4°	1176.3	1178.0	1180.4	1182.1	1183.6	1184.0	1184.0	1182.8	1180.9	1179.2	1177.7
4.5°	1175.3	1177.3	1179.7	1181.6	1183.1	1183.8	1183.8	1182.6	1180.4	1178.5	1176.8
5°	1174.1	1176.3	1178.7	1181.1	1182.8	1183.6	1183.3	1182.1	1179.7	1177.5	1175.6
5.5°	1172.9	1175.1	1178.0	1180.7	1182.3	1183.1	1182.8	1181.4	1179.0	1176.5	1174.4
6°	1171.2	1173.9	1177.3	1179.9	1181.6	1182.6	1182.3	1180.7	1178.2	1175.3	1172.9
6.5°	1169.8	1172.7	1176.0	1179.0	1181.1	1181.9	1181.6	1179.9	1177.3	1174.4	1171.4
7°	1168.1	1171.2	1174.8	1178.0	1180.2	1181.1	1180.9	1179.0	1176.3	1172.9	1170.0
7.5°	1166.4	1169.8	1173.6	1177.0	1179.4	1180.4	1180.2	1178.0	1174.8	1171.7	1168.5
8°	1164.7	1168.3	1172.2	1175.8	1178.5	1179.4	1179.2	1177.0	1173.9	1170.2	1166.8
8.5°	1162.5	1166.6	1170.7	1174.6	1177.3	1178.5	1178.2	1175.8	1172.4	1168.5	1164.9
9°	1160.5	1164.7	1169.0	1173.1	1176.3	1177.3	1177.0	1174.6	1171.0	1167.1	1163.2
9.5°	1158.4	1162.7	1167.3	1171.7	1174.8	1176.0	1175.8	1173.1	1169.5	1165.1	1161.0
10°	1155.9	1160.8	1165.6	1170.0	1173.6	1174.6	1174.4	1171.9	1167.8	1163.2	1159.1
10.5°	1153.8	1158.6	1163.7	1168.3	1171.9	1173.1	1172.9	1170.2	1166.1	1161.3	1156.9
11°	1151.1	1156.4	1161.8	1166.6	1170.5	1171.7	1171.2	1168.5	1164.4	1159.3	1154.5
11.5°	1148.7	1154.0	1159.6	1164.4	1168.8	1170.0	1169.5	1166.6	1162.2	1157.2	1152.3
12°	1145.8	1151.6	1157.4	1162.5	1166.8	1168.3	1167.8	1164.9	1160.3	1155.0	1149.6
12.5°	1143.1	1148.9	1155.0	1160.3	1164.9	1166.4	1165.9	1163.0	1158.4	1152.6	1147.2
13°	1140.0	1146.3	1152.6	1158.1	1162.7	1164.4	1163.7	1160.8	1155.9	1150.1	1144.3
13.5°	1137.0	1143.3	1150.1	1155.7	1160.8	1162.2	1161.8	1158.6	1153.5	1147.5	1141.4
14°	1133.9	1140.4	1147.2	1153.3	1158.4	1160.1	1159.3	1156.2	1151.1	1144.8	1138.5
14.5°	1130.5	1137.5	1144.6	1150.9	1155.9	1157.6	1156.9	1153.8	1148.4	1141.9	1135.6
15°	1127.1	1134.1	1141.7	1147.9	1153.5	1155.2	1154.5	1151.1	1145.8	1139.0	1132.4
15.5°	1123.5	1131.0	1138.7	1145.3	1150.9	1152.6	1152.1	1148.7	1142.9	1136.1	1129.3
16°	1120.1	1127.6	1135.6	1142.4	1148.2	1149.9	1149.2	1145.8	1140.0	1132.9	1125.7
16.5°	1116.2	1124.0	1132.2	1139.5	1145.3	1147.0	1146.3	1142.9	1137.0	1129.5	1122.0
17°	1112.3	1120.3	1128.8	1136.1	1142.4	1144.1	1143.3	1139.7	1133.9	1126.1	1118.4
17.5°	1108.5	1116.7	1125.4	1132.7	1139.2	1141.2	1140.4	1136.8	1130.5	1122.5	1114.5
18°	1104.3	1113.1	1121.8	1129.3	1135.8	1137.8	1137.0	1133.2	1127.1	1118.9	1110.6
18.5°	1100.0	1108.9	1118.2	1125.9	1132.7	1134.4	1133.7	1129.8	1123.5	1115.2	1106.8
19°	1095.6	1104.6	1114.0	1122.3	1129.1	1131.0	1130.3	1126.1	1119.9	1111.4	1102.7
19.5°	1091.3	1100.5	1110.2	1118.4	1125.7	1127.6	1126.6	1122.5	1116.0	1107.5	1098.5
20°	1086.7	1096.4	1106.0	1114.5	1121.8	1123.7	1123.0	1118.9	1112.1	1103.4	1094.4
20.5°	1081.8	1091.8	1101.7	1110.6	1117.9	1119.9	1119.1	1114.8	1108.2	1099.0	1089.6
21°	1077.2	1086.9	1097.6	1106.5	1113.8	1116.0	1115.0	1110.9	1104.1	1094.7	1085.2



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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°	1061.7	1072.6	1083.5	1093.0	1101.2	1103.1	1102.2	1097.8	1090.5	1080.9	1070.4
23°	1056.4	1067.5	1078.7	1088.4	1096.6	1098.8	1097.6	1093.2	1085.9	1075.8	1065.1
23.5°	1050.8	1062.2	1073.8	1083.5	1092.0	1094.2	1093.2	1088.6	1081.3	1070.7	1060.0
24°	1045.2	1056.9	1068.5	1078.7	1087.1	1089.3	1088.1	1083.5	1076.2	1065.6	1054.7
24.5°	1039.2	1051.1	1063.2	1073.3	1082.3	1084.5	1083.3	1078.7	1071.2	1060.3	1049.1
25°	1033.4	1045.2	1057.6	1068.0	1077.0	1079.2	1077.9	1073.6	1065.8	1054.9	1043.3
25.5°	1027.3	1039.7	1052.0	1062.7	1071.9	1074.1	1072.9	1068.3	1060.5	1049.1	1037.5
26°	1021.3	1033.6	1046.5	1057.1	1066.6	1068.5	1067.5	1062.7	1054.9	1043.3	1031.7
26.5°	1014.7	1027.6	1040.4	1051.5	1061.0	1063.2	1062.0	1057.1	1049.4	1037.5	1025.4
27°	1008.4	1021.3	1034.3	1045.7	1055.2	1057.6	1056.1	1051.5	1043.3	1031.4	1019.3
27.5°	1001.6	1014.7	1028.0	1039.7	1049.6	1051.8	1050.6	1045.7	1037.5	1025.4	1013.0
28°	994.9	1008.2	1021.7	1033.4	1043.5	1045.5	1044.5	1039.7	1031.2	1018.8	1006.5
28.5°	987.8	1001.6	1015.4	1027.3	1037.2	1039.7	1038.5	1033.6	1024.9	1012.5	999.9
29°	980.8	994.6	1008.7	1021.0	1031.0	1033.1	1032.2	1027.3	1018.8	1006.0	993.2
29.5°	973.8	987.8	1001.9	1014.5	1024.9	1026.8	1025.6	1020.8	1012.1	999.5	986.1
30°	966.3	980.6	995.1	1007.7	1018.1	1020.3	1019.1	1014.2	1005.3	992.2	979.1
30.5°	958.8	973.5	988.1	1000.7	1011.3	1013.5	1012.5	1007.7	998.5	985.2	972.1
31°	951.3	966.0	980.8	993.6	1004.5	1006.5	1005.5	1000.7	991.5	978.1	964.6
31.5°	943.3	958.5	973.5	986.6	997.5	999.5	998.2	993.6	984.2	970.9	957.3
32°	935.5	950.8	966.0	979.6	990.3	992.4	991.2	986.4	976.9	963.4	949.6
32.5°	927.3	943.0	958.3	971.8	983.0	984.9	984.2	979.4	969.7	955.9	941.8
33°	919.3	935.0	950.8	964.3	975.7	977.7	976.7	971.6	962.2	948.1	934.1
33.5°	911.0	927.0	942.8	956.6	968.0	969.9	968.9	963.9	954.4	940.4	926.1
34°	902.6	918.8	934.8	948.8	960.2	962.4	961.2	956.3	946.4	932.4	917.8
34.5°	893.8	910.6	926.5	940.6	952.2	954.4	953.4	948.3	938.4	924.1	909.6
35°	885.1	902.1	918.1	932.6	944.2	946.2	945.2	940.4	930.4	915.6	901.1
35.5°	876.4	893.4	909.8	924.1	936.0	938.2	937.0	932.1	921.9	907.4	892.6
36°	867.2	884.4	901.1	915.9	927.8	929.7	928.7	923.9	913.5	899.2	883.9
36.5°	858.5	875.7	892.4	907.2	919.3	921.5	920.5	915.4	905.0	890.5	875.2
37°	849.0	866.7	883.4	898.2	910.8	912.7	911.8	906.9	896.3	881.5	866.2
37.5°	839.6	857.5	874.5	889.5	901.8	904.0	902.8	898.2	887.3	872.8	857.5
38°	829.9	848.3	865.3	880.3	893.1	895.1	894.1	889.0	878.6	863.3	848.3
38.5°	820.7	838.9	856.3	871.1	884.2	886.1	885.4	880.0	869.4	854.6	838.9
39°	811.2	829.7	846.9	862.1	875.0	876.9	876.2	871.1	859.9	845.2	829.7
39.5°	801.3	820.0	837.2	852.4	865.5	867.7	866.7	861.6	850.7	835.7	820.0
40°	791.4	810.0	827.7	842.7	856.1	858.2	857.3	852.4	841.3	826.0	810.5
40.5°	781.4	800.3	817.8	833.0	846.4	848.8	847.8	842.5	831.6	816.6	800.8
41°	771.3	790.2	807.9	822.9	836.7	839.1	838.1	832.8	821.9	806.6	790.9
41.5°	760.9	780.0	797.7	813.2	826.5	829.2	828.4	822.9	811.7	796.7	781.0
42°	750.7	769.6	787.5	802.8	816.6	819.2	818.3	812.9	801.8	786.5	770.8
42.5°	740.3	759.6	777.1	792.3	806.4	809.1	808.3	802.5	791.4	776.6	760.6
43°	729.4	749.0	766.4	781.7	796.0	798.4	797.9	792.1	781.0	765.7	750.2
43.5°	718.7	737.8	755.8	770.8	785.1	788.0	787.3	781.4	770.3	755.0	739.5



TEST NUMBER: P776040

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	685.5	704.7	722.1	737.1	751.9	754.6	754.3	748.0	736.6	721.6	706.1
45.5°	674.4	693.3	711.0	725.7	740.5	743.7	743.2	736.6	725.3	710.2	694.7
46°	663.5	682.4	699.8	714.6	729.4	732.8	732.0	725.7	714.1	698.8	683.8
46.5°	652.8	671.7	688.9	703.7	718.5	722.3	721.6	714.8	702.7	687.9	672.7
47°	642.4	661.1	678.3	692.8	707.6	711.4	711.0	703.9	691.8	676.8	661.8
47.5°	632.0	650.6	667.6	682.1	696.9	700.8	700.3	693.3	681.2	666.1	651.4
48°	621.6	640.0	656.7	671.2	686.3	690.4	689.9	682.9	670.5	655.5	641.0
48.5°	611.4	629.3	646.3	660.6	675.6	680.4	679.5	672.2	659.6	645.1	630.5
49°	600.3	617.9	634.2	648.5	663.7	668.6	667.8	660.6	648.0	633.2	618.7
49.5°	588.1	605.8	621.6	635.4	651.1	655.7	655.0	647.7	635.1	620.4	606.3
50°	574.3	592.5	607.8	620.8	637.8	642.4	641.9	634.4	622.1	607.3	592.7
50.5°	559.1	576.0	592.5	606.1	623.0	627.1	625.9	619.4	607.5	592.0	577.5
51°	542.4	559.1	575.5	589.6	606.8	610.7	609.7	603.6	591.5	575.5	560.8
51.5°	524.4	541.2	557.4	572.2	589.6	593.2	592.7	586.0	574.8	558.6	543.1
52°	505.3	522.7	538.7	553.3	570.9	575.5	575.1	568.0	556.4	540.4	525.4
52.5°	486.6	503.8	519.4	532.7	551.8	557.6	557.1	549.4	536.8	521.5	507.0
53°	467.3	484.0	499.2	511.8	531.9	538.2	538.2	530.3	516.7	502.2	488.1
53.5°	447.6	464.1	478.9	490.8	511.4	519.4	519.6	510.1	495.9	482.3	468.7
54°	427.5	444.0	457.6	469.2	490.5	499.7	500.0	490.0	475.3	462.2	448.6
54.5°	407.7	423.9	436.3	447.6	469.5	479.6	480.1	469.2	454.2	440.9	429.0
55°	387.3	403.3	414.7	425.8	448.9	460.0	460.5	448.6	434.1	420.5	409.1
55.5°	367.0	382.2	393.1	404.3	427.8	438.7	439.9	427.3	413.0	399.2	388.5
56°	347.1	361.9	371.3	382.2	406.2	417.9	419.1	406.7	392.7	377.9	368.7
56.5°	327.3	341.3	349.8	361.9	385.2	396.8	398.0	385.6	371.3	357.1	348.3
57°	306.9	320.7	328.2	340.6	364.3	375.7	377.2	365.3	351.5	336.0	328.2
57.5°	287.5	300.1	307.4	319.7	343.7	354.4	356.1	344.7	330.9	315.9	308.1
58°	268.4	280.0	286.6	299.6	323.1	333.3	335.0	324.4	311.3	295.3	288.3
58.5°	249.7	259.9	266.0	279.8	303.0	312.5	314.2	304.5	291.9	275.7	268.9
59°	231.3	240.3	246.6	260.4	283.2	291.7	293.3	285.1	272.5	256.3	250.0
59.5°	212.9	220.4	227.5	241.3	263.8	271.5	272.3	265.5	253.1	237.6	231.6
60°	195.7	201.8	209.3	222.4	244.7	251.7	251.9	246.4	235.2	220.2	213.4
60.5°	178.3	183.4	190.9	204.0	226.7	232.8	233.3	228.2	217.3	202.8	195.2
61°	161.3	165.7	173.4	186.3	208.8	214.1	214.4	210.0	199.6	185.3	177.3
61.5°	144.9	148.7	157.0	169.3	190.9	195.2	195.5	191.8	181.7	167.9	159.1
62°	129.1	132.7	140.5	152.6	173.0	176.6	176.6	173.7	163.8	151.9	143.4
62.5°	114.1	117.5	125.2	136.6	155.0	157.9	157.7	155.5	147.3	136.1	127.7
63°	99.8	102.7	110.2	121.8	138.1	140.5	140.3	138.6	131.5	121.4	112.9
63.5°	85.8	89.1	96.4	107.1	122.1	124.3	124.0	122.6	116.5	107.1	99.1
64°	74.1	78.2	83.1	93.3	106.8	108.5	108.5	107.1	101.3	93.5	86.2
64.5°	62.5	67.6	72.4	81.1	92.3	93.7	93.5	92.0	86.5	80.9	73.9
65°	50.9	56.7	61.5	69.8	78.5	79.7	79.7	78.2	71.9	68.6	62.7
65.5°	39.5	46.0	50.6	58.1	65.2	66.9	66.9	64.9	58.1	57.2	52.3
66°	27.9	35.1	40.0	46.8	53.0	54.5	54.5	52.6	45.3	46.5	42.6



TEST NUMBER: P776040

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.0	15.0	17.4	19.1	27.6	28.6	28.6	27.1	20.3	24.5	22.5
68°	6.8	10.4	12.1	12.8	20.3	21.1	21.1	20.1	12.1	18.4	15.7
68.5°	4.8	8.5	7.5	8.0	13.1	13.6	13.6	12.8	3.9	12.1	9.2
69°	2.7	6.5	5.8	6.1	6.1	6.3	6.1	6.1	1.2	5.8	5.3
69.5°	0.7	4.6	4.1	4.4	2.9	2.9	2.9	2.9	0.7	2.9	2.7
70°	0.7	2.7	2.4	2.4	1.2	1.2	1.2	1.2	0.7	1.2	1.2
70.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
71°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
71.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	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°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
80.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2
81°	0.0	0.0	0.0	0.0	0.0	0.2	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: P776040

CATALOG NUMBER: HCDJBL1525CSD-HCD61TRMB-2500lm-2700K

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: P776040

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3
0.5°	1182.1	1181.9	1181.9	1182.1	1181.9	1181.6
1°	1181.6	1181.1	1181.1	1181.4	1181.4	1181.1
1.5°	1181.1	1180.4	1180.2	1180.7	1180.7	1180.7
2°	1180.4	1179.4	1179.2	1179.7	1179.7	1179.9
2.5°	1179.7	1178.2	1178.2	1178.5	1178.7	1179.2
3°	1178.7	1177.3	1177.0	1177.5	1177.7	1178.2
3.5°	1177.7	1176.0	1175.8	1176.3	1176.8	1177.5
4°	1176.5	1174.8	1174.4	1174.8	1175.6	1176.3
4.5°	1175.3	1173.4	1172.9	1173.4	1174.1	1175.3
5°	1174.1	1171.9	1171.4	1171.9	1172.7	1174.1
5.5°	1172.7	1170.2	1169.8	1170.2	1171.2	1172.9
6°	1171.2	1168.5	1168.1	1168.5	1169.5	1171.2
6.5°	1169.5	1166.8	1166.1	1166.6	1168.1	1169.8
7°	1167.8	1164.9	1164.2	1164.9	1166.1	1168.1
7.5°	1166.1	1162.7	1162.2	1162.7	1164.2	1166.4
8°	1164.2	1160.8	1159.8	1160.5	1162.2	1164.7
8.5°	1162.0	1158.6	1157.6	1158.4	1160.1	1162.5
9°	1160.1	1156.2	1155.2	1155.9	1157.6	1160.5
9.5°	1157.6	1154.0	1153.0	1153.5	1155.5	1158.4
10°	1155.5	1151.3	1150.4	1151.1	1153.0	1155.9
10.5°	1153.0	1148.7	1147.7	1148.4	1150.4	1153.8
11°	1150.6	1146.0	1144.8	1145.8	1147.7	1151.1
11.5°	1147.9	1143.3	1141.9	1142.6	1145.0	1148.7
12°	1145.3	1140.2	1139.0	1139.7	1142.1	1145.8
12.5°	1142.4	1137.3	1135.8	1136.6	1139.2	1143.1
13°	1139.5	1134.1	1132.7	1133.4	1136.1	1140.0
13.5°	1136.3	1131.0	1129.3	1130.0	1132.7	1137.0
14°	1133.4	1127.6	1125.9	1126.6	1129.5	1133.9
14.5°	1130.0	1124.0	1122.5	1123.2	1125.9	1130.5
15°	1126.6	1120.6	1118.6	1119.6	1122.5	1127.1
15.5°	1123.2	1116.7	1114.8	1115.7	1118.6	1123.5
16°	1119.4	1113.1	1110.9	1111.9	1115.0	1120.1
16.5°	1116.0	1108.9	1107.0	1108.0	1111.1	1116.2
17°	1112.1	1104.8	1102.9	1103.6	1107.0	1112.3
17.5°	1108.0	1100.7	1098.5	1099.5	1102.9	1108.5
18°	1104.1	1096.4	1094.2	1095.1	1098.5	1104.3
18.5°	1099.7	1092.0	1089.6	1090.5	1094.2	1100.0
19°	1095.4	1087.6	1085.0	1085.9	1089.6	1095.6
19.5°	1091.0	1083.0	1080.1	1081.1	1085.2	1091.3
20°	1086.4	1078.2	1075.3	1076.2	1080.4	1086.7
20.5°	1081.8	1073.1	1070.2	1071.2	1075.3	1081.8
21°	1077.0	1068.0	1065.1	1065.8	1070.2	1077.2

TEST NUMBER: P776040

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1061.5	1052.0	1048.6	1049.6	1054.2	1061.7
23°	1056.4	1046.5	1042.8	1043.8	1048.6	1056.4
23.5°	1050.8	1040.9	1037.2	1038.0	1043.1	1050.8
24°	1045.2	1035.1	1031.2	1031.9	1037.0	1045.2
24.5°	1039.4	1028.8	1025.1	1025.9	1031.0	1039.2
25°	1033.6	1022.7	1018.8	1019.6	1024.9	1033.4
25.5°	1027.6	1016.7	1012.3	1013.3	1018.6	1027.3
26°	1021.5	1010.1	1005.8	1006.7	1012.3	1021.3
26.5°	1015.0	1003.3	999.0	999.9	1005.5	1014.7
27°	1008.4	996.6	992.4	993.2	999.0	1008.4
27.5°	1002.1	990.0	985.7	986.1	992.2	1001.6
28°	995.3	983.0	978.4	979.1	985.2	994.9
28.5°	988.3	975.7	971.1	971.8	977.9	987.8
29°	981.5	968.7	963.9	964.8	970.9	980.8
29.5°	974.5	961.2	956.3	957.1	963.6	973.8
30°	967.0	953.9	948.8	949.6	955.9	966.3
30.5°	959.7	946.2	940.8	941.6	948.3	958.8
31°	952.2	938.2	933.1	933.8	940.4	951.3
31.5°	944.5	930.4	924.9	925.6	932.4	943.3
32°	936.5	922.4	916.9	917.6	924.4	935.5
32.5°	928.7	914.2	908.6	909.1	916.4	927.3
33°	920.5	906.0	900.1	900.9	907.9	919.3
33.5°	912.5	897.7	891.7	892.6	899.4	911.0
34°	904.0	889.2	883.2	883.7	890.9	902.6
34.5°	895.8	880.3	874.2	875.0	882.2	893.8
35°	886.8	871.6	865.3	866.2	873.3	885.1
35.5°	878.3	862.6	856.5	857.3	864.3	876.4
36°	869.6	853.9	847.6	848.3	855.6	867.2
36.5°	860.9	844.7	838.6	839.1	846.6	858.5
37°	851.7	835.5	829.4	829.9	837.2	849.0
37.5°	842.5	826.3	819.7	820.7	828.0	839.6
38°	833.3	816.8	810.5	811.2	818.3	829.9
38.5°	823.6	807.4	801.1	801.8	808.8	820.7
39°	814.4	797.7	791.6	792.1	799.4	811.2
39.5°	804.7	788.2	781.9	782.7	789.7	801.3
40°	795.0	778.1	772.2	772.7	779.5	791.4
40.5°	785.3	768.4	762.3	763.0	769.6	781.4
41°	775.2	758.2	752.4	753.1	759.6	771.3
41.5°	765.2	748.0	742.0	742.9	749.5	760.9
42°	755.0	737.8	732.0	732.8	739.3	750.7
42.5°	744.9	727.4	721.9	722.3	728.9	740.3
43°	734.5	716.8	711.0	711.9	718.0	729.4
43.5°	723.6	705.9	700.3	701.0	707.1	718.7



TEST NUMBER: P776040

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	690.6	672.7	667.6	668.1	673.9	685.5
45.5°	679.5	661.8	656.5	657.2	662.8	674.4
46°	668.6	650.9	645.6	646.3	652.1	663.5
46.5°	657.4	640.5	635.1	635.6	641.4	652.8
47°	647.0	630.1	625.0	625.4	630.8	642.4
47.5°	636.6	619.6	614.5	615.3	620.4	632.0
48°	626.4	609.5	604.1	605.1	610.2	621.6
48.5°	616.0	599.0	594.0	594.4	599.8	611.4
49°	604.9	587.7	582.6	583.3	588.9	600.3
49.5°	592.7	575.3	570.7	571.4	576.8	588.1
50°	579.4	561.0	556.7	558.1	563.7	574.3
50.5°	563.7	545.0	541.2	542.8	547.9	559.1
51°	547.0	527.8	524.2	525.6	531.5	542.4
51.5°	529.3	510.4	506.3	507.5	514.0	524.4
52°	511.6	491.7	487.6	488.8	495.1	505.3
52.5°	492.9	472.8	468.7	469.5	475.5	486.6
53°	474.3	453.2	448.6	449.3	455.9	467.3
53.5°	454.9	434.1	428.5	429.5	436.0	447.6
54°	436.3	414.7	408.4	409.1	415.7	427.5
54.5°	416.4	395.1	388.8	389.0	395.8	407.7
55°	397.3	375.5	368.4	368.7	375.5	387.3
55.5°	377.2	356.6	348.6	348.1	355.4	367.0
56°	358.0	337.4	328.7	327.5	335.7	347.1
56.5°	338.2	318.5	309.3	307.9	316.4	327.3
57°	318.8	299.2	290.0	288.0	296.7	306.9
57.5°	299.6	280.7	270.8	268.9	277.6	287.5
58°	280.7	262.3	252.4	250.5	258.9	268.4
58.5°	261.9	244.4	234.2	231.8	240.1	249.7
59°	243.2	226.5	216.6	214.1	222.6	231.3
59.5°	225.5	208.8	199.6	196.9	205.2	212.9
60°	207.6	191.8	182.4	180.5	188.0	195.7
60.5°	189.9	175.1	166.4	164.5	171.5	178.3
61°	172.2	158.7	150.9	149.2	155.5	161.3
61.5°	156.0	143.4	136.4	134.7	140.0	144.9
62°	140.0	128.1	122.3	121.4	125.2	129.1
62.5°	124.5	113.4	109.0	108.0	110.9	114.1
63°	109.5	99.8	96.4	95.7	97.1	99.8
63.5°	95.4	86.7	84.1	83.6	84.3	85.8
64°	82.1	76.1	74.1	73.6	73.9	74.1
64.5°	69.8	65.4	64.2	63.9	63.5	62.5
65°	58.4	55.0	54.3	54.0	53.0	50.9
65.5°	48.0	44.3	44.3	44.3	42.6	39.5
66°	38.0	33.9	35.9	36.3	33.9	27.9



TEST NUMBER: P776040

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	19.9	14.0	16.0	16.5	14.3	9.0
68°	13.8	9.7	11.1	11.4	9.9	6.8
68.5°	8.0	7.5	7.0	7.3	7.5	4.8
69°	4.8	5.3	5.3	5.6	5.3	2.7
69.5°	2.4	2.9	3.9	3.9	2.9	0.7
70°	1.2	0.7	2.2	2.2	0.7	0.7
70.5°	0.7	0.7	0.7	0.7	0.7	0.7
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	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.2
79°	0.2	0.2	0.2	0.2	0.2	0.2
79.5°	0.2	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2
80.5°	0.2	0.2	0.2	0.2	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: P776040

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-2700K

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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21.5°	1071.9	1082.3	1093.0	1102.2	1109.9	1111.9	1110.9	1106.8	1099.7	1090.1	1080.4
22°	1067.0	1077.5	1088.4	1097.8	1105.6	1107.7	1106.5	1102.2	1095.4	1085.5	1075.5



44°	707.6	726.7	744.1	759.9	773.9	776.8	776.4	770.3	758.9	744.1	728.4
44.5°	696.4	715.8	733.2	748.5	763.0	766.4	765.0	759.4	747.8	733.0	717.3



66.5°	20.1	27.4	31.5	35.4	42.1	43.6	43.6	41.4	37.1	37.1	35.9
67°	13.8	20.6	24.0	26.6	34.9	36.1	36.1	34.2	28.8	30.8	29.3



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°	1071.9	1062.9	1059.8	1060.5	1065.1	1071.9
22°	1066.8	1057.6	1054.4	1055.2	1059.8	1067.0



44°	712.7	694.7	689.4	689.9	696.2	707.6
44.5°	701.8	683.8	678.5	679.0	685.0	696.4

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66.5°	32.0	25.9	28.6	28.6	26.4	20.1
67°	25.9	19.4	21.8	22.0	19.9	13.8

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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)