

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: P775940

Luminaire Tested: HCDJBL1525CSD-HCD41TRMB-2500lm-2700K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B031)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD41TRMB-2500lm-2700K
Description: 4 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

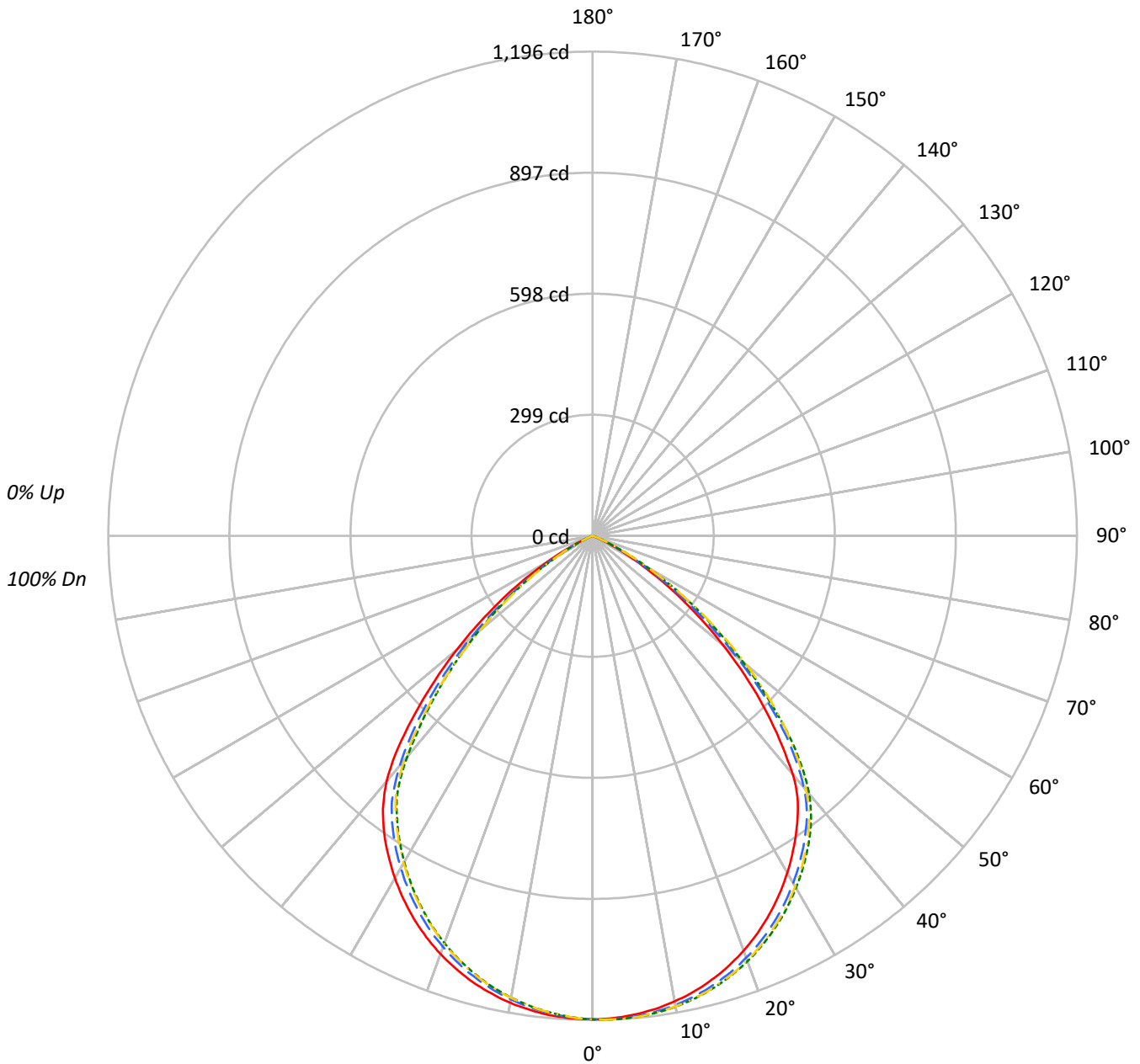
Lumens per Lamp: N/A
Luminaire Lumens: 2212.5 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.26
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P775940

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90								
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72								
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64								
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57								
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51								
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46								
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42								
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38								
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	150340	150340	150340	150340
5°	149992	150851	150182	149386
10°	149222	150921	149682	148021
15°	147970	150627	148725	146041
20°	146060	149797	147172	143368
25°	143303	148247	144956	139832
30°	139724	145987	141904	135219
35°	135060	142803	137856	129544
40°	126237	136620	129933	116840
45°	106485	119637	110151	95948
50°	82407	95074	85814	72343
55°	56565	68106	59395	47788
60°	30607	40121	33124	24163
65°	9380	14502	10333	6492
70°	883	993	883	883
75°	924	924	924	924
80°	870	870	725	870
85°	289	722	289	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 120580 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	5.1
10°-20°	321.0	14.5
20°-30°	477.5	21.6
30°-40°	551.9	24.9
40°-50°	465.7	21.0
50°-60°	236.9	10.7
60°-70°	44.3	2.0
70°-80°	2.0	0.1
80°-90°	0.5	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°	911.3	41.2
0°-40°	1463.2	66.1
0°-60°	2165.7	97.9
0°-90°	2212.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1195	1195	1195	1195	1195	
5°	1187	1194	1189	1182	1187	113
15°	1136	1156	1142	1121	1136	320
25°	1032	1068	1044	1007	1032	475
35°	879	930	897	843	879	547
45°	598	672	619	539	598	458
55°	258	310	271	218	258	233
65°	32	49	35	22	32	42
75°	2	2	2	2	2	2
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°	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6
0.5°	1194.4	1194.4	1194.8	1195.1	1195.3	1195.3	1195.3	1194.4	1194.1	1194.4	1194.1
1°	1194.1	1194.6	1195.1	1195.3	1195.6	1195.8	1195.6	1194.6	1194.1	1194.1	1193.6
1.5°	1193.6	1194.4	1195.1	1195.6	1195.6	1196.1	1195.8	1194.8	1193.9	1193.4	1192.9
2°	1193.1	1194.1	1194.8	1195.8	1195.8	1196.3	1196.1	1194.8	1193.6	1192.9	1191.9
2.5°	1192.2	1193.4	1194.6	1195.8	1195.8	1196.1	1195.6	1194.6	1193.1	1192.2	1191.2
3°	1191.4	1192.9	1194.1	1195.3	1195.8	1196.1	1195.6	1193.9	1192.7	1191.4	1190.0
3.5°	1190.5	1192.2	1193.9	1195.1	1195.3	1195.8	1195.6	1193.6	1191.7	1190.2	1189.0
4°	1189.8	1191.4	1193.1	1194.6	1195.1	1195.6	1195.1	1193.4	1191.0	1189.3	1187.8
4.5°	1188.5	1190.5	1192.7	1193.9	1194.6	1195.1	1194.4	1192.9	1190.0	1187.8	1186.1
5°	1187.3	1189.5	1191.7	1193.4	1194.1	1194.4	1193.6	1191.9	1188.8	1186.6	1184.7
5.5°	1185.9	1188.3	1190.7	1192.7	1193.1	1193.9	1193.1	1191.0	1187.8	1185.4	1183.0
6°	1184.2	1187.1	1190.0	1191.7	1192.4	1192.9	1192.2	1190.0	1186.4	1183.7	1181.3
6.5°	1182.5	1185.6	1188.5	1190.7	1191.4	1191.9	1191.0	1189.0	1184.9	1182.2	1179.6
7°	1181.0	1184.2	1187.3	1189.8	1190.2	1190.7	1189.8	1187.8	1183.2	1180.1	1177.6
7.5°	1179.1	1182.5	1185.9	1188.3	1188.8	1189.8	1188.5	1186.4	1181.5	1178.4	1175.5
8°	1177.2	1180.8	1184.4	1187.1	1187.6	1188.3	1187.1	1184.7	1179.6	1176.2	1173.3
8.5°	1175.0	1178.8	1182.7	1185.4	1186.1	1186.8	1185.6	1183.0	1177.6	1174.0	1170.9
9°	1172.5	1176.9	1181.0	1183.7	1184.4	1185.4	1184.2	1181.3	1175.7	1171.8	1168.2
9.5°	1170.1	1174.7	1179.1	1182.0	1182.7	1183.7	1182.2	1179.6	1173.8	1169.4	1165.5
10°	1167.7	1172.5	1176.9	1180.3	1181.0	1182.0	1180.5	1177.6	1171.3	1167.0	1162.9
10.5°	1165.0	1170.1	1174.7	1178.1	1179.1	1180.1	1178.4	1175.5	1168.9	1164.3	1159.9
11°	1162.4	1167.5	1172.5	1175.9	1176.9	1177.9	1176.4	1173.3	1166.5	1161.4	1157.0
11.5°	1159.7	1164.8	1170.1	1173.8	1174.7	1175.7	1174.0	1170.9	1163.8	1158.5	1153.9
12°	1156.3	1162.1	1167.5	1171.3	1172.5	1173.3	1171.8	1168.2	1160.9	1155.6	1150.5
12.5°	1153.4	1159.2	1164.8	1168.9	1170.1	1170.9	1169.2	1165.5	1157.8	1152.4	1147.1
13°	1150.0	1156.3	1161.9	1166.5	1167.5	1168.4	1166.7	1163.1	1154.9	1149.0	1143.5
13.5°	1146.9	1153.2	1159.0	1163.6	1164.8	1165.5	1163.8	1160.2	1151.7	1145.7	1139.8
14°	1143.2	1149.8	1156.1	1160.7	1161.9	1163.1	1161.2	1157.0	1148.3	1142.3	1136.2
14.5°	1139.6	1146.4	1152.7	1157.8	1159.0	1159.9	1158.0	1153.9	1145.2	1138.6	1132.1
15°	1135.7	1142.7	1149.3	1154.6	1156.1	1157.0	1154.9	1150.7	1141.5	1134.7	1128.0
15.5°	1131.8	1138.6	1146.1	1151.2	1152.9	1153.6	1151.5	1147.1	1137.9	1130.9	1124.1
16°	1127.7	1135.2	1142.5	1147.8	1149.5	1150.5	1148.1	1143.7	1134.0	1126.7	1120.0
16.5°	1123.6	1131.4	1138.6	1144.4	1145.9	1146.9	1144.7	1140.1	1130.1	1122.6	1115.4
17°	1119.5	1127.2	1135.0	1140.8	1142.5	1143.2	1141.0	1136.4	1126.0	1118.5	1110.8
17.5°	1114.9	1122.9	1131.1	1136.9	1138.6	1139.3	1137.2	1132.6	1121.7	1113.9	1105.9
18°	1110.0	1118.5	1126.7	1133.0	1134.7	1135.5	1133.3	1128.2	1117.3	1109.3	1101.1
18.5°	1105.4	1114.1	1122.4	1129.2	1130.6	1131.8	1129.2	1124.1	1113.2	1104.7	1096.2
19°	1100.6	1109.3	1118.3	1124.8	1126.7	1127.7	1124.8	1120.0	1108.6	1099.9	1091.4
19.5°	1095.7	1104.7	1113.7	1120.7	1122.6	1123.4	1120.4	1115.6	1104.0	1095.0	1086.0
20°	1090.6	1099.9	1109.1	1116.3	1118.5	1119.0	1116.1	1111.0	1098.9	1089.9	1080.7
20.5°	1085.3	1095.0	1104.5	1111.7	1113.9	1114.6	1111.5	1106.4	1094.3	1084.8	1075.1
21°	1080.0	1089.7	1099.6	1107.1	1109.5	1110.3	1106.9	1101.5	1088.9	1079.3	1069.6



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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°	1063.0	1073.7	1084.1	1092.3	1094.5	1095.2	1091.9	1086.5	1073.0	1062.5	1052.1
23°	1057.2	1068.1	1078.8	1087.3	1089.4	1090.2	1086.8	1081.2	1067.4	1057.0	1046.1
23.5°	1051.1	1062.1	1073.4	1082.2	1084.3	1084.6	1081.4	1075.6	1061.8	1050.9	1039.5
24°	1044.8	1056.2	1067.9	1076.6	1078.8	1079.5	1075.9	1070.3	1056.0	1044.8	1033.5
24.5°	1038.5	1050.4	1062.1	1071.0	1073.4	1073.7	1070.3	1064.5	1050.2	1038.8	1026.9
25°	1032.0	1044.4	1056.0	1065.2	1067.6	1068.1	1064.5	1058.7	1043.9	1032.2	1020.4
25.5°	1025.5	1038.1	1050.2	1059.6	1062.1	1062.3	1058.7	1052.8	1037.6	1025.9	1013.3
26°	1018.9	1031.5	1043.9	1053.6	1056.2	1056.5	1052.8	1046.8	1031.3	1019.2	1006.6
26.5°	1012.4	1025.0	1037.8	1047.5	1050.2	1050.2	1046.5	1040.5	1024.7	1012.4	999.5
27°	1005.4	1018.4	1031.3	1041.5	1043.9	1044.1	1040.2	1034.2	1018.2	1005.8	992.5
27.5°	998.3	1011.7	1025.0	1035.4	1037.6	1037.8	1033.9	1027.6	1011.7	998.8	985.2
28°	991.1	1004.9	1018.4	1028.9	1031.5	1031.8	1027.6	1021.1	1005.1	991.8	977.7
28.5°	983.8	997.6	1011.4	1022.3	1025.0	1025.0	1021.1	1014.3	998.1	984.8	970.5
29°	976.5	990.6	1004.4	1015.5	1018.4	1018.2	1014.1	1007.8	990.8	977.2	963.2
29.5°	969.0	983.3	997.6	1009.0	1011.7	1011.4	1007.3	1001.0	983.8	970.0	955.2
30°	961.5	976.3	990.6	1002.2	1004.6	1004.6	1000.3	993.7	976.5	962.5	947.2
30.5°	953.7	968.8	983.3	995.2	997.8	997.1	993.2	986.7	969.2	955.0	939.7
31°	946.0	961.3	976.0	987.7	990.6	990.1	985.7	979.4	961.5	947.2	931.7
31.5°	937.7	953.5	968.5	980.6	983.3	982.8	978.5	972.2	953.7	939.2	923.5
32°	929.8	945.7	961.0	973.4	976.0	975.5	971.2	964.6	946.0	931.4	915.5
32.5°	921.5	937.5	953.3	965.9	968.3	967.8	963.7	957.1	938.2	923.2	906.7
33°	913.3	929.5	945.5	958.1	961.0	960.0	956.2	949.4	930.5	915.2	898.5
33.5°	905.0	921.3	937.5	950.6	953.3	952.3	948.4	941.4	922.2	907.0	889.8
34°	896.6	913.3	929.8	942.6	945.5	944.8	940.2	933.6	914.0	898.2	881.5
34.5°	887.8	904.8	921.5	934.8	937.5	936.5	931.9	925.4	905.8	889.8	872.3
35°	879.1	896.3	913.0	926.4	929.5	928.5	923.7	916.9	897.3	881.0	863.4
35.5°	869.9	887.6	904.5	918.4	921.0	920.3	915.5	908.7	888.6	872.1	853.7
36°	861.2	878.9	896.1	909.6	912.8	911.8	906.7	900.2	879.3	862.6	844.2
36.5°	851.7	869.9	887.3	901.2	904.3	903.1	898.0	891.2	869.9	852.9	834.3
37°	842.3	860.7	878.4	892.2	895.1	893.9	888.8	882.0	860.4	843.2	823.9
37.5°	832.1	850.8	868.7	882.7	885.6	884.4	879.6	872.6	850.3	832.6	811.3
38°	821.9	840.8	858.8	873.3	876.0	874.7	869.9	862.6	839.4	821.0	798.2
38.5°	810.3	829.7	848.6	863.1	865.8	864.3	858.8	852.2	828.2	808.4	784.4
39°	797.7	817.3	837.4	852.9	854.9	852.9	846.6	840.8	816.3	795.0	770.3
39.5°	783.9	803.7	824.8	841.8	843.7	840.3	833.8	828.5	803.7	781.5	755.5
40°	768.4	789.5	811.3	829.9	831.6	827.0	820.7	815.1	790.9	766.9	740.5
40.5°	751.2	774.9	797.4	817.3	818.5	813.7	806.9	801.6	776.6	752.1	724.8
41°	734.4	759.9	783.2	803.7	805.0	799.6	793.1	787.5	761.6	737.1	709.0
41.5°	717.5	744.4	768.1	789.5	790.4	785.6	779.3	772.7	745.1	721.4	692.8
42°	700.3	727.9	753.3	773.9	774.9	771.0	765.2	757.7	728.9	705.4	676.0
42.5°	683.3	711.4	737.6	758.0	759.4	756.5	750.7	742.7	711.2	688.9	658.6
43°	666.6	694.7	721.6	741.7	743.2	741.5	735.7	726.2	693.0	671.7	641.2
43.5°	649.4	677.5	705.1	724.5	726.2	726.0	720.2	710.2	674.6	654.0	623.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	598.3	624.9	652.5	669.3	672.2	677.5	672.4	658.8	618.9	599.7	570.4
45.5°	581.1	607.0	633.9	649.4	653.3	660.8	655.5	641.6	600.4	581.1	552.7
46°	563.6	589.5	615.7	630.3	634.4	643.3	638.7	623.2	582.0	561.7	535.0
46.5°	545.9	571.6	596.8	611.1	615.5	626.1	622.0	605.8	563.4	542.5	517.1
47°	527.8	553.9	578.2	591.5	596.1	608.0	604.3	586.9	545.7	523.4	499.6
47.5°	509.6	536.2	559.3	571.6	577.4	590.0	587.1	568.5	527.8	504.5	481.7
48°	491.7	518.3	539.4	552.5	559.0	571.9	568.9	550.0	509.8	485.6	464.3
48.5°	473.5	500.1	520.0	533.3	540.6	553.7	551.5	533.1	491.9	466.2	446.8
49°	455.8	482.7	500.4	514.4	521.9	535.3	533.1	513.9	474.0	447.5	429.1
49.5°	438.1	464.8	481.2	495.5	503.5	516.6	515.4	495.8	456.0	428.9	411.4
50°	420.9	446.6	461.8	477.4	485.6	497.7	496.7	477.6	438.3	411.0	393.8
50.5°	403.4	428.4	442.7	458.2	467.4	479.1	478.3	459.9	420.7	392.5	375.8
51°	386.7	410.0	423.3	440.0	449.2	460.4	459.2	442.5	403.7	375.1	358.6
51.5°	369.5	392.3	404.9	421.6	431.3	442.0	441.5	425.0	386.0	357.7	341.4
52°	353.0	374.1	386.7	403.9	413.6	423.3	422.8	407.6	368.8	340.7	324.2
52.5°	336.8	356.7	369.0	385.3	395.7	405.1	404.4	389.9	352.1	324.0	307.3
53°	320.6	339.2	350.9	368.6	378.2	387.0	386.2	372.9	335.4	307.7	290.5
53.5°	304.3	322.0	333.4	351.1	361.0	369.0	368.3	356.0	318.6	291.5	274.3
54°	288.4	304.6	316.5	333.9	343.8	351.4	350.1	339.2	302.4	276.2	258.5
54.5°	272.8	287.6	299.7	316.2	326.6	333.7	332.5	322.5	286.7	261.7	243.3
55°	257.8	271.4	283.5	300.5	310.4	316.5	315.2	306.3	270.7	246.2	228.0
55.5°	242.8	254.9	267.3	284.5	294.2	299.5	297.6	289.8	255.2	231.2	214.2
56°	228.0	239.4	251.8	268.2	277.7	282.8	280.6	274.3	239.9	217.6	200.1
56.5°	213.5	224.1	236.5	252.0	261.7	266.1	264.1	258.1	225.6	204.0	186.3
57°	199.4	208.9	221.7	237.7	246.2	250.3	248.1	242.8	211.5	190.7	172.3
57.5°	185.6	194.3	207.2	222.7	231.2	234.6	232.4	228.0	197.5	177.1	159.4
58°	171.8	180.3	192.6	208.1	216.6	219.5	217.6	213.5	183.2	163.6	146.8
58.5°	159.0	166.7	178.8	194.1	202.1	204.5	202.6	198.7	169.1	151.4	135.0
59°	145.9	153.9	165.7	180.5	187.5	189.5	187.8	183.9	156.0	138.8	123.6
59.5°	133.8	141.3	152.9	167.4	173.3	174.5	173.0	169.4	143.9	127.5	112.7
60°	121.6	128.9	140.3	154.6	159.4	160.9	159.2	156.0	131.6	116.1	102.3
60.5°	110.5	117.5	128.2	142.5	146.6	147.6	146.1	143.0	119.7	105.4	91.8
61°	99.3	106.1	117.0	130.1	133.8	134.7	133.0	129.9	108.3	94.7	82.4
61.5°	88.9	95.7	105.9	118.5	121.4	122.1	120.7	117.8	97.9	85.1	73.7
62°	80.0	85.5	95.5	107.6	109.5	110.3	109.0	105.9	87.0	75.4	64.7
62.5°	71.2	77.3	85.5	96.7	97.9	98.9	97.7	94.0	77.1	66.4	56.7
63°	62.3	69.1	77.3	86.5	87.0	88.0	86.7	82.9	67.4	57.9	49.2
63.5°	53.6	60.8	69.1	77.5	76.6	77.5	76.3	72.7	58.4	50.2	42.4
64°	44.8	52.6	60.8	68.6	66.6	67.6	66.9	63.0	49.9	42.6	35.9
64.5°	37.8	44.6	52.6	59.9	57.2	58.4	57.7	53.8	42.2	35.9	30.0
65°	31.5	37.8	44.3	50.9	48.7	49.9	49.2	45.3	34.7	31.0	25.7
65.5°	26.2	31.7	37.6	42.2	40.7	41.7	41.2	37.8	29.1	25.9	21.6
66°	21.3	25.9	31.3	34.9	33.4	34.4	33.9	32.2	23.7	20.8	17.4



TEST NUMBER: P775940

CATALOG NUMBER: HCDJBL5125CSD-HCD41TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	10.4	12.8	16.2	17.2	18.2	18.9	18.4	16.0	7.3	8.0	6.5
68°	8.7	9.7	12.4	12.8	13.1	13.6	13.1	10.7	4.4	5.6	4.6
68.5°	7.3	7.8	9.0	9.5	8.2	8.5	8.0	7.3	2.9	3.6	3.4
69°	5.6	6.1	7.3	7.8	5.6	5.8	5.3	4.8	2.7	2.9	2.7
69.5°	4.1	4.4	5.8	6.1	3.9	3.9	3.6	3.4	2.7	2.7	2.7
70°	2.4	2.7	4.1	4.1	2.7	2.7	2.7	2.7	2.4	2.4	2.4
70.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
71°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
71.5°	2.2	2.2	2.2	2.4	2.2	2.2	2.4	2.4	2.4	2.4	2.4
72°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
73°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
73.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.2	1.9	1.9	2.2
74°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
74.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.7	1.7	1.7
76°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
76.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.7
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
78°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
78.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.5
79°	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2
79.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.2
80.5°	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.2
81°	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0
81.5°	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0	0.7	0.7	1.0
82°	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	1.0
82.5°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.5	0.7	0.7
83°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	0.7	0.5	0.5	0.7
83.5°	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.7
84°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.2	0.2	0.5
84.5°	0.2	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.2	0.2	0.5
85°	0.2	0.5	0.5	0.7	0.5	0.7	0.5	0.5	0.2	0.2	0.5
85.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0	0.2	0.5
86°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0	0.2	0.2
86.5°	0.0	0.2	0.5	0.5	0.2	0.5	0.5	0.2	0.0	0.2	0.2
87°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
87.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
88°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	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: P775940

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-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: P775940

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6
0.5°	1193.9	1193.9	1194.4	1194.1	1193.6	1194.4
1°	1193.1	1193.1	1193.6	1193.4	1193.1	1194.1
1.5°	1192.2	1192.2	1192.7	1192.7	1192.4	1193.6
2°	1191.4	1191.2	1191.4	1191.7	1191.2	1193.1
2.5°	1190.5	1190.0	1190.5	1190.2	1190.2	1192.2
3°	1189.3	1188.8	1189.0	1189.0	1189.3	1191.4
3.5°	1187.8	1187.6	1187.6	1187.8	1188.1	1190.5
4°	1186.4	1186.1	1186.1	1186.4	1186.8	1189.8
4.5°	1184.7	1184.4	1184.4	1184.7	1185.4	1188.5
5°	1183.0	1182.5	1182.5	1183.0	1183.7	1187.3
5.5°	1181.3	1180.8	1180.5	1181.0	1182.2	1185.9
6°	1179.3	1178.6	1178.4	1179.3	1180.3	1184.2
6.5°	1177.4	1176.7	1176.2	1177.2	1178.4	1182.5
7°	1175.2	1174.5	1174.2	1175.0	1176.4	1181.0
7.5°	1172.8	1172.1	1171.8	1172.5	1174.5	1179.1
8°	1170.4	1169.4	1169.4	1169.9	1172.1	1177.2
8.5°	1167.7	1167.0	1166.7	1167.5	1169.4	1175.0
9°	1165.0	1164.1	1163.8	1164.8	1166.7	1172.5
9.5°	1162.4	1161.2	1160.9	1161.9	1164.1	1170.1
10°	1159.5	1158.3	1157.8	1159.0	1161.2	1167.7
10.5°	1156.3	1155.3	1154.9	1156.1	1158.5	1165.0
11°	1153.2	1152.2	1151.7	1152.9	1155.1	1162.4
11.5°	1149.8	1148.6	1148.3	1149.3	1152.0	1159.7
12°	1146.4	1145.2	1144.7	1145.9	1148.8	1156.3
12.5°	1143.0	1141.5	1141.0	1142.3	1145.2	1153.4
13°	1139.1	1137.7	1136.9	1138.6	1141.5	1150.0
13.5°	1135.2	1133.8	1133.0	1134.7	1137.9	1146.9
14°	1131.4	1129.7	1129.2	1130.9	1134.0	1143.2
14.5°	1127.2	1125.5	1124.8	1126.7	1130.1	1139.6
15°	1122.9	1120.9	1120.4	1122.1	1125.8	1135.7
15.5°	1118.5	1116.6	1116.1	1117.8	1121.4	1131.8
16°	1113.9	1112.0	1111.7	1113.4	1117.1	1127.7
16.5°	1109.5	1107.4	1106.9	1108.8	1112.5	1123.6
17°	1104.7	1102.3	1101.8	1104.0	1107.8	1119.5
17.5°	1099.9	1097.4	1096.9	1099.1	1103.0	1114.9
18°	1094.8	1092.3	1091.9	1093.8	1098.4	1110.0
18.5°	1089.4	1087.0	1086.5	1088.7	1093.3	1105.4
19°	1084.3	1081.7	1081.0	1083.4	1087.7	1100.6
19.5°	1078.8	1076.1	1075.6	1077.8	1082.6	1095.7
20°	1073.2	1070.5	1070.0	1072.2	1077.6	1090.6
20.5°	1067.6	1064.7	1064.0	1066.4	1071.7	1085.3
21°	1061.8	1058.7	1058.2	1060.6	1065.9	1080.0

TEST NUMBER: P775940

CATALOG NUMBER: HCDJBLS1525CSD-HCD41TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1043.4	1040.5	1039.5	1041.9	1048.2	1063.0
23°	1037.1	1034.2	1033.2	1035.9	1041.7	1057.2
23.5°	1030.6	1027.4	1026.7	1029.3	1035.2	1051.1
24°	1024.0	1020.6	1019.6	1022.8	1028.9	1044.8
24.5°	1017.2	1013.8	1012.9	1015.8	1022.3	1038.5
25°	1010.4	1007.0	1006.1	1009.0	1015.8	1032.0
25.5°	1003.4	999.8	998.8	1001.7	1008.7	1025.5
26°	996.4	992.5	991.5	994.7	1001.7	1018.9
26.5°	988.9	985.2	984.3	987.7	994.4	1012.4
27°	981.8	977.7	977.0	980.2	987.2	1005.4
27.5°	974.1	970.2	969.2	972.6	979.9	998.3
28°	966.6	962.2	961.5	964.9	972.4	991.1
28.5°	958.8	954.7	953.7	957.4	964.6	983.8
29°	951.1	947.0	945.7	949.4	957.1	976.5
29.5°	942.8	939.0	937.7	941.6	949.4	969.0
30°	935.1	930.5	929.8	933.4	941.6	961.5
30.5°	926.6	922.5	921.3	925.4	933.4	953.7
31°	918.4	914.0	912.8	916.7	925.1	946.0
31.5°	910.1	905.8	904.3	908.7	917.2	937.7
32°	901.6	897.0	895.6	900.4	908.9	929.8
32.5°	892.9	888.6	887.3	891.7	900.7	921.5
33°	884.0	879.8	878.6	882.7	891.9	913.3
33.5°	875.2	870.9	869.7	874.3	883.0	905.0
34°	866.3	861.7	860.7	865.5	874.3	896.6
34.5°	857.3	852.7	851.5	856.3	865.5	887.8
35°	847.8	843.2	842.3	846.9	856.1	879.1
35.5°	837.9	833.8	832.8	837.7	847.4	869.9
36°	828.2	823.6	822.9	828.2	837.9	861.2
36.5°	817.8	813.2	812.7	818.3	827.7	851.7
37°	806.4	802.3	802.1	807.4	817.6	842.3
37.5°	793.1	789.7	790.2	796.7	807.4	832.1
38°	778.8	775.6	776.4	783.6	794.5	821.9
38.5°	764.0	760.1	761.8	769.3	781.0	810.3
39°	748.0	744.6	746.6	754.6	766.9	797.7
39.5°	731.5	728.1	730.6	738.8	751.9	783.9
40°	714.8	711.2	713.9	722.6	736.1	768.4
40.5°	697.9	693.7	696.6	706.1	719.2	751.2
41°	681.4	676.5	679.7	689.6	702.0	734.4
41.5°	664.7	658.6	662.0	672.2	683.8	717.5
42°	647.9	642.1	644.5	655.0	666.1	700.3
42.5°	631.7	624.7	626.9	637.5	648.2	683.3
43°	615.2	608.0	608.7	619.6	629.5	666.6
43.5°	599.0	590.0	590.5	601.4	611.4	649.4



TEST NUMBER: P775940

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	548.6	539.1	535.8	545.4	557.8	598.3
45.5°	531.4	521.7	517.6	526.8	539.6	581.1
46°	513.9	505.0	500.4	508.1	522.2	563.6
46.5°	496.0	487.0	482.4	489.5	504.5	545.9
47°	478.6	470.6	464.8	470.8	487.0	527.8
47.5°	461.1	452.6	446.8	452.4	469.1	509.6
48°	443.4	436.4	430.1	434.2	451.7	491.7
48.5°	426.2	419.0	412.4	415.8	434.2	473.5
49°	409.3	402.5	395.7	398.4	417.0	455.8
49.5°	392.1	386.0	378.5	380.9	399.8	438.1
50°	375.1	369.5	361.8	363.5	382.6	420.9
50.5°	359.1	353.3	345.1	346.5	365.9	403.4
51°	342.9	337.1	329.1	330.3	349.4	386.7
51.5°	326.6	321.5	312.8	314.0	332.7	369.5
52°	310.4	306.0	297.3	298.3	316.9	353.0
52.5°	295.1	290.8	281.6	282.5	301.0	336.8
53°	279.4	275.3	266.8	267.8	285.4	320.6
53.5°	263.9	260.5	251.5	253.2	269.9	304.3
54°	248.6	245.7	237.2	238.7	254.9	288.4
54.5°	234.3	231.7	223.4	224.9	240.1	272.8
55°	220.3	217.8	209.8	211.5	226.1	257.8
55.5°	206.4	203.8	196.8	198.5	211.8	242.8
56°	192.6	190.2	183.7	185.9	198.0	228.0
56.5°	178.8	177.1	171.1	173.5	184.4	213.5
57°	165.0	164.3	159.2	161.4	171.8	199.4
57.5°	152.4	151.9	147.6	149.7	159.0	185.6
58°	139.8	139.6	136.4	138.8	147.1	171.8
58.5°	127.7	127.9	125.8	128.2	135.0	159.0
59°	116.1	116.8	115.3	117.8	124.1	145.9
59.5°	104.9	106.1	105.6	107.8	113.4	133.8
60°	94.5	96.0	96.2	98.6	103.2	121.6
60.5°	84.6	85.5	87.0	89.2	93.0	110.5
61°	75.1	77.3	79.2	81.7	83.6	99.3
61.5°	65.9	69.3	71.5	73.9	75.6	88.9
62°	57.4	61.1	63.7	66.2	67.4	80.0
62.5°	49.9	52.8	56.0	58.4	59.1	71.2
63°	42.6	44.8	48.2	50.6	51.1	62.3
63.5°	36.1	38.0	41.7	44.1	44.1	53.6
64°	30.0	32.0	35.6	38.0	37.8	44.8
64.5°	25.9	26.7	30.0	32.2	31.5	37.8
65°	22.1	21.8	25.2	26.9	26.4	31.5
65.5°	17.9	17.7	20.6	22.1	21.6	26.2
66°	14.1	14.1	16.2	17.9	17.2	21.3



TEST NUMBER: P775940

CATALOG NUMBER: HCDJBL51525CSD-HCD41TRMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	5.6	7.0	7.8	7.8	7.8	10.4
68°	4.1	5.6	6.1	6.5	5.6	8.7
68.5°	3.2	4.1	4.4	5.1	5.1	7.3
69°	2.7	2.7	2.7	3.9	4.4	5.6
69.5°	2.7	2.7	2.4	2.7	3.6	4.1
70°	2.4	2.4	2.4	2.4	2.9	2.4
70.5°	2.4	2.4	2.4	2.4	2.4	2.4
71°	2.4	2.4	2.4	2.4	2.2	2.4
71.5°	2.2	2.2	2.2	2.2	2.2	2.2
72°	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	2.2	2.2	2.2	2.2	2.2	2.2
73°	2.2	2.2	2.2	2.2	1.9	2.2
73.5°	1.9	1.9	1.9	1.9	1.9	1.9
74°	1.9	1.9	1.9	1.9	1.9	1.9
74.5°	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.7	1.9
75.5°	1.7	1.7	1.7	1.7	1.7	1.7
76°	1.7	1.7	1.7	1.7	1.7	1.7
76.5°	1.7	1.7	1.7	1.7	1.7	1.7
77°	1.7	1.7	1.7	1.7	1.5	1.7
77.5°	1.5	1.5	1.5	1.5	1.5	1.5
78°	1.5	1.5	1.5	1.5	1.5	1.5
78.5°	1.5	1.5	1.5	1.5	1.2	1.5
79°	1.5	1.5	1.5	1.2	1.2	1.2
79.5°	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.0	1.2
80.5°	1.2	1.2	1.2	1.2	1.0	1.0
81°	1.0	1.2	1.2	1.0	1.0	1.0
81.5°	1.0	1.0	1.0	1.0	0.7	1.0
82°	1.0	1.0	1.0	1.0	0.7	0.7
82.5°	1.0	1.0	1.0	0.7	0.7	0.7
83°	0.7	0.7	0.7	0.7	0.5	0.7
83.5°	0.7	0.7	0.7	0.7	0.5	0.5
84°	0.7	0.7	0.7	0.7	0.5	0.5
84.5°	0.5	0.5	0.5	0.5	0.2	0.2
85°	0.5	0.5	0.5	0.5	0.2	0.2
85.5°	0.5	0.5	0.5	0.5	0.2	0.2
86°	0.2	0.2	0.2	0.2	0.2	0.2
86.5°	0.2	0.2	0.2	0.2	0.2	0.0
87°	0.2	0.2	0.2	0.2	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: P775940
CATALOG NUMBER: HCDJBL1525CSD-HCD41TRMB-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
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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





21.5°	1074.4	1084.6	1094.8	1102.3	1104.5	1105.2	1101.8	1096.7	1083.9	1073.9	1064.0
22°	1068.8	1079.3	1089.4	1097.4	1099.6	1100.1	1097.2	1091.9	1078.3	1068.6	1058.2



44°	632.7	660.3	687.9	706.3	709.0	710.2	704.6	693.5	656.2	636.1	606.0
44.5°	615.5	642.4	670.0	687.9	690.3	694.2	689.1	677.3	637.3	618.1	588.3



66.5°	17.0	21.1	25.7	28.4	28.4	29.3	28.6	26.9	18.2	16.0	13.1
67°	13.6	16.7	20.6	22.3	23.3	24.0	23.5	21.3	12.8	10.9	9.0



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°	1055.8	1052.8	1051.9	1054.5	1059.9	1074.4
22°	1049.7	1046.8	1045.8	1048.2	1054.1	1068.8



44°	582.0	573.3	572.1	582.8	593.4	632.7
44.5°	565.6	555.9	553.9	564.1	575.7	615.5



66.5°	10.2	11.1	12.6	14.1	13.3	17.0
67°	7.8	8.5	9.5	10.7	10.4	13.6

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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)