

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: P776130

Luminaire Tested: HCDJBL51525CSD-HCD81TRH-2500lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B043-HCD81TRH)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD81TRH-2500lm-2700K  
Description: 8 INCH ROUND SHALLOW-WIDE HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

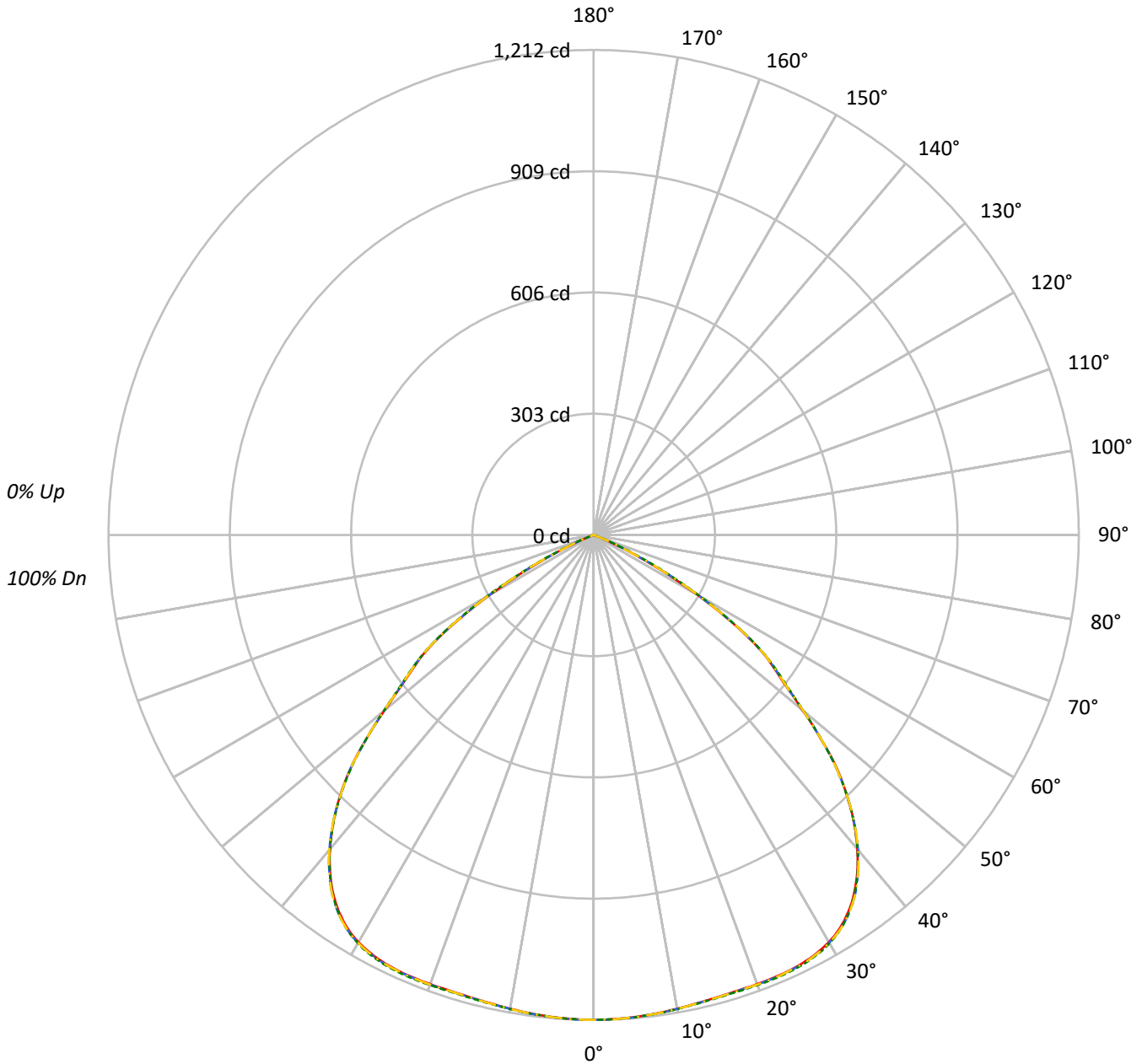
Lumens per Lamp: N/A  
Luminaire Lumens: 2943.6 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.43  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78			78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	74	70	68			68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60			60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47			47
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41			41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	37000	37000	37000	37000
5°	37052	37067	37052	37067
10°	37273	37301	37273	37301
15°	37793	37847	37793	37847
20°	38809	38897	38809	38897
25°	40164	40279	40164	40279
30°	41419	41539	41419	41539
35°	41855	41944	41855	41944
40°	40835	40855	40835	40855
45°	38086	38034	38086	38034
50°	32321	32549	32321	32549
55°	27631	27785	27631	27785
60°	18172	18880	18172	18880
65°	6408	7723	6408	7723
70°	107	580	107	580
75°	24	24	24	24
80°	0	35	0	35
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 38086 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.2	3.9
10°-20°	339.4	11.5
20°-30°	551.2	18.7
30°-40°	699.9	23.8
40°-50°	671.3	22.8
50°-60°	451.8	15.3
60°-70°	114.3	3.9
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1005.8	34.2
0°-40°	1705.8	57.9
0°-60°	2828.8	96.1
0°-90°	2943.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1212	1212	1212	1212	1212	
5°	1209	1210	1209	1210	1209	115
15°	1196	1197	1196	1197	1196	339
25°	1192	1196	1192	1196	1192	551
35°	1123	1125	1123	1125	1123	699
45°	882	881	882	881	882	671
55°	519	522	519	522	519	449
65°	89	107	89	107	89	106
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°	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9
0.5°	1211.7	1211.7	1211.9	1212.2	1211.9	1212.2	1211.9	1211.7	1211.7	1211.7	1211.9
1°	1211.7	1211.7	1211.9	1212.2	1211.7	1212.2	1211.9	1211.7	1211.7	1211.7	1211.9
1.5°	1211.5	1211.5	1211.7	1211.9	1211.7	1211.9	1211.7	1211.5	1211.5	1211.5	1211.7
2°	1211.2	1211.2	1211.7	1211.7	1211.5	1211.7	1211.7	1211.2	1211.2	1211.2	1211.7
2.5°	1211.0	1211.2	1211.5	1211.7	1211.2	1211.7	1211.5	1211.2	1211.0	1211.2	1211.5
3°	1210.7	1210.7	1211.2	1211.2	1211.0	1211.2	1211.2	1210.7	1210.7	1210.7	1211.2
3.5°	1210.3	1210.5	1210.7	1211.0	1210.7	1211.0	1210.7	1210.5	1210.3	1210.5	1210.7
4°	1210.0	1210.0	1210.3	1210.7	1210.3	1210.7	1210.3	1210.0	1210.0	1210.0	1210.3
4.5°	1209.5	1209.8	1210.0	1210.3	1210.0	1210.3	1210.0	1209.8	1209.5	1209.8	1210.0
5°	1209.0	1209.3	1209.5	1209.8	1209.5	1209.8	1209.5	1209.3	1209.0	1209.3	1209.5
5.5°	1208.6	1208.6	1209.0	1209.3	1209.0	1209.3	1209.0	1208.6	1208.6	1208.6	1209.0
6°	1207.8	1208.1	1208.3	1208.8	1208.6	1208.8	1208.3	1208.1	1207.8	1208.1	1208.3
6.5°	1207.3	1207.6	1207.8	1208.3	1207.8	1208.3	1207.8	1207.6	1207.3	1207.6	1207.8
7°	1206.6	1206.9	1207.3	1207.6	1207.3	1207.6	1207.3	1206.9	1206.6	1206.9	1207.3
7.5°	1205.9	1206.1	1206.6	1206.9	1206.6	1206.9	1206.6	1206.1	1205.9	1206.1	1206.6
8°	1205.4	1205.4	1205.9	1206.4	1206.1	1206.4	1205.9	1205.4	1205.4	1205.4	1205.9
8.5°	1204.7	1204.7	1205.2	1205.4	1205.4	1205.4	1205.2	1204.7	1204.7	1204.7	1205.2
9°	1203.7	1203.9	1204.4	1204.9	1204.7	1204.9	1204.4	1203.9	1203.7	1203.9	1204.4
9.5°	1203.0	1203.2	1203.7	1204.2	1203.9	1204.2	1203.7	1203.2	1203.0	1203.2	1203.7
10°	1202.3	1202.5	1203.0	1203.5	1203.2	1203.5	1203.0	1202.5	1202.3	1202.5	1203.0
10.5°	1201.5	1201.8	1202.0	1202.7	1202.5	1202.7	1202.0	1201.8	1201.5	1201.8	1202.0
11°	1200.8	1200.8	1201.3	1202.0	1201.8	1202.0	1201.3	1200.8	1200.8	1200.8	1201.3
11.5°	1200.1	1200.1	1200.6	1201.3	1201.0	1201.3	1200.6	1200.1	1200.1	1200.1	1200.6
12°	1199.3	1199.3	1199.8	1200.6	1200.6	1200.6	1199.8	1199.3	1199.3	1199.3	1199.8
12.5°	1198.6	1198.6	1199.3	1199.8	1199.8	1199.8	1199.3	1198.6	1198.6	1198.6	1199.3
13°	1197.9	1198.1	1198.6	1199.1	1199.3	1199.1	1198.6	1198.1	1197.9	1198.1	1198.6
13.5°	1197.2	1197.4	1198.1	1198.6	1198.6	1198.6	1198.1	1197.4	1197.2	1197.4	1198.1
14°	1196.7	1196.9	1197.4	1198.1	1198.1	1198.1	1197.4	1196.9	1196.7	1196.9	1197.4
14.5°	1196.2	1196.4	1196.9	1197.6	1197.9	1197.6	1196.9	1196.4	1196.2	1196.4	1196.9
15°	1195.7	1196.0	1196.4	1197.4	1197.4	1197.4	1196.4	1196.0	1195.7	1196.0	1196.4
15.5°	1195.2	1195.5	1196.2	1196.9	1197.2	1196.9	1196.2	1195.5	1195.2	1195.5	1196.2
16°	1195.0	1195.2	1195.7	1196.7	1196.9	1196.7	1195.7	1195.2	1195.0	1195.2	1195.7
16.5°	1194.7	1195.0	1195.5	1196.4	1196.7	1196.4	1195.5	1195.0	1194.7	1195.0	1195.5
17°	1194.5	1194.7	1195.5	1196.4	1196.7	1196.4	1195.5	1194.7	1194.5	1194.7	1195.5
17.5°	1194.5	1194.7	1195.2	1196.4	1196.7	1196.4	1195.2	1194.7	1194.5	1194.7	1195.2
18°	1194.3	1194.5	1195.2	1196.4	1196.7	1196.4	1195.2	1194.5	1194.3	1194.5	1195.2
18.5°	1194.3	1194.5	1195.2	1196.4	1196.7	1196.4	1195.2	1194.5	1194.3	1194.5	1195.2
19°	1194.5	1194.5	1195.2	1196.7	1196.9	1196.7	1195.2	1194.5	1194.5	1194.5	1195.2
19.5°	1194.5	1194.7	1195.5	1196.7	1197.2	1196.7	1195.5	1194.7	1194.5	1194.7	1195.5
20°	1194.5	1194.7	1195.5	1196.9	1197.2	1196.9	1195.5	1194.7	1194.5	1194.7	1195.5
20.5°	1194.7	1194.7	1195.7	1196.9	1197.4	1196.9	1195.7	1194.7	1194.7	1194.7	1195.7
21°	1194.7	1195.0	1195.7	1197.2	1197.4	1197.2	1195.7	1195.0	1194.7	1195.0	1195.7



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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°	1194.5	1194.7	1195.7	1197.2	1197.6	1197.2	1195.7	1194.7	1194.5	1194.7	1195.7
23°	1194.3	1194.5	1195.5	1196.9	1197.4	1196.9	1195.5	1194.5	1194.3	1194.5	1195.5
23.5°	1194.0	1194.3	1195.2	1196.7	1197.2	1196.7	1195.2	1194.3	1194.0	1194.3	1195.2
24°	1193.8	1193.8	1194.7	1196.4	1196.9	1196.4	1194.7	1193.8	1193.8	1193.8	1194.7
24.5°	1193.0	1193.3	1194.3	1196.0	1196.4	1196.0	1194.3	1193.3	1193.0	1193.3	1194.3
25°	1192.3	1192.6	1193.8	1195.5	1195.7	1195.5	1193.8	1192.6	1192.3	1192.6	1193.8
25.5°	1191.6	1191.8	1193.0	1194.7	1195.0	1194.7	1193.0	1191.8	1191.6	1191.8	1193.0
26°	1190.6	1190.9	1192.1	1193.8	1194.3	1193.8	1192.1	1190.9	1190.6	1190.9	1192.1
26.5°	1189.4	1189.7	1191.1	1192.8	1193.0	1192.8	1191.1	1189.7	1189.4	1189.7	1191.1
27°	1188.2	1188.4	1189.7	1191.3	1191.6	1191.3	1189.7	1188.4	1188.2	1188.4	1189.7
27.5°	1186.5	1187.0	1188.2	1189.9	1190.1	1189.9	1188.2	1187.0	1186.5	1187.0	1188.2
28°	1184.8	1185.0	1186.5	1188.2	1188.4	1188.2	1186.5	1185.0	1184.8	1185.0	1186.5
28.5°	1182.9	1183.1	1184.6	1186.3	1186.3	1186.3	1184.6	1183.1	1182.9	1183.1	1184.6
29°	1180.4	1180.9	1182.4	1183.8	1184.1	1183.8	1182.4	1180.9	1180.4	1180.9	1182.4
29.5°	1177.8	1178.3	1180.0	1181.4	1181.4	1181.4	1180.0	1178.3	1177.8	1178.3	1180.0
30°	1174.9	1175.4	1177.0	1178.5	1178.3	1178.5	1177.0	1175.4	1174.9	1175.4	1177.0
30.5°	1171.7	1172.2	1173.9	1175.4	1175.1	1175.4	1173.9	1172.2	1171.7	1172.2	1173.9
31°	1168.1	1168.6	1170.5	1171.7	1171.2	1171.7	1170.5	1168.6	1168.1	1168.6	1170.5
31.5°	1164.0	1164.7	1166.6	1167.6	1167.1	1167.6	1166.6	1164.7	1164.0	1164.7	1166.6
32°	1159.4	1160.3	1162.3	1163.2	1162.8	1163.2	1162.3	1160.3	1159.4	1160.3	1162.3
32.5°	1154.5	1155.5	1157.4	1158.1	1157.7	1158.1	1157.4	1155.5	1154.5	1155.5	1157.4
33°	1149.2	1150.2	1152.3	1152.8	1152.1	1152.8	1152.3	1150.2	1149.2	1150.2	1152.3
33.5°	1143.1	1144.3	1146.5	1147.0	1146.3	1147.0	1146.5	1144.3	1143.1	1144.3	1146.5
34°	1137.1	1138.3	1140.5	1140.7	1139.7	1140.7	1140.5	1138.3	1137.1	1138.3	1140.5
34.5°	1130.0	1131.5	1133.7	1133.7	1132.7	1133.7	1133.7	1131.5	1130.0	1131.5	1133.7
35°	1123.0	1124.2	1126.6	1126.4	1125.4	1126.4	1126.6	1124.2	1123.0	1124.2	1126.6
35.5°	1115.3	1116.5	1118.9	1118.6	1117.7	1118.6	1118.9	1116.5	1115.3	1116.5	1118.9
36°	1107.0	1108.5	1110.9	1110.4	1109.2	1110.4	1110.9	1108.5	1107.0	1108.5	1110.9
36.5°	1098.5	1099.7	1102.2	1101.7	1100.2	1101.7	1102.2	1099.7	1098.5	1099.7	1102.2
37°	1089.1	1090.5	1092.7	1092.5	1091.0	1092.5	1092.7	1090.5	1089.1	1090.5	1092.7
37.5°	1079.6	1080.8	1083.3	1082.5	1081.1	1082.5	1083.3	1080.8	1079.6	1080.8	1083.3
38°	1069.5	1070.9	1073.1	1072.4	1070.7	1072.4	1073.1	1070.9	1069.5	1070.9	1073.1
38.5°	1058.8	1060.2	1062.4	1061.5	1060.0	1061.5	1062.4	1060.2	1058.8	1060.2	1062.4
39°	1048.1	1049.3	1051.3	1050.5	1048.9	1050.5	1051.3	1049.3	1048.1	1049.3	1051.3
39.5°	1036.7	1037.7	1039.6	1038.9	1037.2	1038.9	1039.6	1037.7	1036.7	1037.7	1039.6
40°	1024.6	1025.6	1027.5	1026.8	1025.1	1026.8	1027.5	1025.6	1024.6	1025.6	1027.5
40.5°	1012.5	1013.2	1014.9	1014.2	1012.5	1014.2	1014.9	1013.2	1012.5	1013.2	1014.9
41°	999.7	1000.4	1001.8	1001.4	999.7	1001.4	1001.8	1000.4	999.7	1000.4	1001.8
41.5°	986.6	987.1	988.5	987.5	986.3	987.5	988.5	987.1	986.6	987.1	988.5
42°	973.0	973.5	974.5	974.0	972.8	974.0	974.5	973.5	973.0	973.5	974.5
42.5°	959.2	959.2	960.2	959.7	958.5	959.7	960.2	959.2	959.2	959.2	960.2
43°	944.6	944.6	945.4	944.9	943.7	944.9	945.4	944.6	944.6	944.6	945.4
43.5°	929.6	929.6	929.9	929.4	928.7	929.4	929.9	929.6	929.6	929.6	929.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	882.1	881.4	881.4	881.2	880.9	881.2	881.4	881.4	882.1	881.4	881.4
45.5°	865.2	864.4	864.2	863.9	863.7	863.9	864.2	864.4	865.2	864.4	864.2
46°	847.7	846.7	846.5	846.5	846.3	846.5	846.5	846.7	847.7	846.7	846.5
46.5°	829.5	828.6	828.3	828.1	827.8	828.1	828.3	828.6	829.5	828.6	828.3
47°	810.1	809.2	808.4	808.0	807.5	808.0	808.4	809.2	810.1	809.2	808.4
47.5°	789.1	788.1	787.1	787.4	787.1	787.4	787.1	788.1	789.1	788.1	787.1
48°	766.8	766.5	767.0	767.3	767.5	767.3	767.0	766.5	766.8	766.5	767.0
48.5°	745.4	745.4	746.4	746.7	746.7	746.7	746.4	745.4	745.4	745.4	746.4
49°	724.8	724.6	725.3	725.6	725.8	725.6	725.3	724.6	724.8	724.6	725.3
49.5°	702.5	702.8	704.2	705.2	705.5	705.2	704.2	702.8	702.5	702.8	704.2
50°	680.5	681.5	683.4	684.6	685.3	684.6	683.4	681.5	680.5	681.5	683.4
50.5°	660.1	661.3	663.3	664.5	665.0	664.5	663.3	661.3	660.1	661.3	663.3
51°	641.5	642.2	644.1	645.1	645.6	645.1	644.1	642.2	641.5	642.2	644.1
51.5°	623.5	624.0	626.2	627.9	628.6	627.9	626.2	624.0	623.5	624.0	626.2
52°	605.9	606.8	609.0	611.2	612.2	611.2	609.0	606.8	605.9	606.8	609.0
52.5°	589.9	590.8	593.3	595.4	596.9	595.4	593.3	590.8	589.9	590.8	593.3
53°	575.1	576.0	578.7	580.9	581.9	580.9	578.7	576.0	575.1	576.0	578.7
53.5°	561.3	562.2	564.7	566.6	567.6	566.6	564.7	562.2	561.3	562.2	564.7
54°	548.2	548.9	551.1	552.3	552.8	552.3	551.1	548.9	548.2	548.9	551.1
54.5°	534.4	535.1	536.8	538.2	538.5	538.2	536.8	535.1	534.4	535.1	536.8
55°	519.1	519.8	521.5	522.5	522.0	522.5	521.5	519.8	519.1	519.8	521.5
55.5°	501.4	502.1	504.1	505.0	504.8	505.0	504.1	502.1	501.4	502.1	504.1
56°	481.8	482.7	485.2	486.4	486.1	486.4	485.2	482.7	481.8	482.7	485.2
56.5°	460.9	462.4	464.6	466.5	466.3	466.5	464.6	462.4	460.9	462.4	464.6
57°	439.1	440.3	443.5	444.7	444.9	444.7	443.5	440.3	439.1	440.3	443.5
57.5°	416.3	417.8	421.2	422.6	422.9	422.6	421.2	417.8	416.3	417.8	421.2
58°	393.3	394.8	398.2	400.3	400.8	400.3	398.2	394.8	393.3	394.8	398.2
58.5°	369.8	371.0	374.7	377.3	378.1	377.3	374.7	371.0	369.8	371.0	374.7
59°	346.1	347.3	350.7	354.3	355.3	354.3	350.7	347.3	346.1	347.3	350.7
59.5°	321.8	323.3	327.2	331.3	332.2	331.3	327.2	323.3	321.8	323.3	327.2
60°	297.6	299.8	303.7	308.7	309.2	308.7	303.7	299.8	297.6	299.8	303.7
60.5°	273.8	275.8	281.1	285.7	286.7	285.7	281.1	275.8	273.8	275.8	281.1
61°	250.6	253.0	258.8	263.2	264.4	263.2	258.8	253.0	250.6	253.0	258.8
61.5°	228.3	230.5	236.8	240.6	242.8	240.6	236.8	230.5	228.3	230.5	236.8
62°	206.2	208.4	215.0	218.8	221.3	218.8	215.0	208.4	206.2	208.4	215.0
62.5°	184.2	187.1	193.9	197.8	200.4	197.8	193.9	187.1	184.2	187.1	193.9
63°	162.6	166.2	173.3	177.4	180.5	177.4	173.3	166.2	162.6	166.2	173.3
63.5°	142.7	145.9	153.4	157.8	160.9	157.8	153.4	145.9	142.7	145.9	153.4
64°	123.8	127.2	134.0	139.1	142.0	139.1	134.0	127.2	123.8	127.2	134.0
64.5°	105.9	109.1	115.6	121.4	124.3	121.4	115.6	109.1	105.9	109.1	115.6
65°	88.7	93.1	98.6	104.2	106.9	104.2	98.6	93.1	88.7	93.1	98.6
65.5°	73.7	77.8	82.6	88.2	90.6	88.2	82.6	77.8	73.7	77.8	82.6
66°	59.4	63.5	68.3	73.7	74.9	73.7	68.3	63.5	59.4	63.5	68.3





TEST NUMBER: P776130

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	23.7	30.3	32.7	37.3	37.6	37.3	32.7	30.3	23.7	30.3	32.7
68°	14.5	21.3	23.7	28.4	27.9	28.4	23.7	21.3	14.5	21.3	23.7
68.5°	6.3	13.8	16.7	20.1	22.3	20.1	16.7	13.8	6.3	13.8	16.7
69°	3.4	8.5	10.9	13.1	17.2	13.1	10.9	8.5	3.4	8.5	10.9
69.5°	2.2	4.1	6.1	7.8	11.9	7.8	6.1	4.1	2.2	4.1	6.1
70°	1.2	2.4	2.9	3.4	6.5	3.4	2.9	2.4	1.2	2.4	2.9
70.5°	0.5	1.2	1.7	1.5	1.9	1.5	1.7	1.2	0.5	1.2	1.7
71°	0.5	0.7	1.0	0.7	0.7	0.7	1.0	0.7	0.5	0.7	1.0
71.5°	0.5	0.5	0.5	0.5	0.5	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	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°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5
73.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.5
74°	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	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	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°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	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	0.2	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	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: P776130

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-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: P776130

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1211.9	1211.9	1211.9	1211.9	1211.9	1211.9
0.5°	1212.2	1211.9	1212.2	1211.9	1211.7	1211.7
1°	1212.2	1211.7	1212.2	1211.9	1211.7	1211.7
1.5°	1211.9	1211.7	1211.9	1211.7	1211.5	1211.5
2°	1211.7	1211.5	1211.7	1211.7	1211.2	1211.2
2.5°	1211.7	1211.2	1211.7	1211.5	1211.2	1211.0
3°	1211.2	1211.0	1211.2	1211.2	1210.7	1210.7
3.5°	1211.0	1210.7	1211.0	1210.7	1210.5	1210.3
4°	1210.7	1210.3	1210.7	1210.3	1210.0	1210.0
4.5°	1210.3	1210.0	1210.3	1210.0	1209.8	1209.5
5°	1209.8	1209.5	1209.8	1209.5	1209.3	1209.0
5.5°	1209.3	1209.0	1209.3	1209.0	1208.6	1208.6
6°	1208.8	1208.6	1208.8	1208.3	1208.1	1207.8
6.5°	1208.3	1207.8	1208.3	1207.8	1207.6	1207.3
7°	1207.6	1207.3	1207.6	1207.3	1206.9	1206.6
7.5°	1206.9	1206.6	1206.9	1206.6	1206.1	1205.9
8°	1206.4	1206.1	1206.4	1205.9	1205.4	1205.4
8.5°	1205.4	1205.4	1205.4	1205.2	1204.7	1204.7
9°	1204.9	1204.7	1204.9	1204.4	1203.9	1203.7
9.5°	1204.2	1203.9	1204.2	1203.7	1203.2	1203.0
10°	1203.5	1203.2	1203.5	1203.0	1202.5	1202.3
10.5°	1202.7	1202.5	1202.7	1202.0	1201.8	1201.5
11°	1202.0	1201.8	1202.0	1201.3	1200.8	1200.8
11.5°	1201.3	1201.0	1201.3	1200.6	1200.1	1200.1
12°	1200.6	1200.6	1200.6	1199.8	1199.3	1199.3
12.5°	1199.8	1199.8	1199.8	1199.3	1198.6	1198.6
13°	1199.1	1199.3	1199.1	1198.6	1198.1	1197.9
13.5°	1198.6	1198.6	1198.6	1198.1	1197.4	1197.2
14°	1198.1	1198.1	1198.1	1197.4	1196.9	1196.7
14.5°	1197.6	1197.9	1197.6	1196.9	1196.4	1196.2
15°	1197.4	1197.4	1197.4	1196.4	1196.0	1195.7
15.5°	1196.9	1197.2	1196.9	1196.2	1195.5	1195.2
16°	1196.7	1196.9	1196.7	1195.7	1195.2	1195.0
16.5°	1196.4	1196.7	1196.4	1195.5	1195.0	1194.7
17°	1196.4	1196.7	1196.4	1195.5	1194.7	1194.5
17.5°	1196.4	1196.7	1196.4	1195.2	1194.7	1194.5
18°	1196.4	1196.7	1196.4	1195.2	1194.5	1194.3
18.5°	1196.4	1196.7	1196.4	1195.2	1194.5	1194.3
19°	1196.7	1196.9	1196.7	1195.2	1194.5	1194.5
19.5°	1196.7	1197.2	1196.7	1195.5	1194.7	1194.5
20°	1196.9	1197.2	1196.9	1195.5	1194.7	1194.5
20.5°	1196.9	1197.4	1196.9	1195.7	1194.7	1194.7
21°	1197.2	1197.4	1197.2	1195.7	1195.0	1194.7

TEST NUMBER: P776130

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1197.2	1197.6	1197.2	1195.7	1194.7	1194.5
23°	1196.9	1197.4	1196.9	1195.5	1194.5	1194.3
23.5°	1196.7	1197.2	1196.7	1195.2	1194.3	1194.0
24°	1196.4	1196.9	1196.4	1194.7	1193.8	1193.8
24.5°	1196.0	1196.4	1196.0	1194.3	1193.3	1193.0
25°	1195.5	1195.7	1195.5	1193.8	1192.6	1192.3
25.5°	1194.7	1195.0	1194.7	1193.0	1191.8	1191.6
26°	1193.8	1194.3	1193.8	1192.1	1190.9	1190.6
26.5°	1192.8	1193.0	1192.8	1191.1	1189.7	1189.4
27°	1191.3	1191.6	1191.3	1189.7	1188.4	1188.2
27.5°	1189.9	1190.1	1189.9	1188.2	1187.0	1186.5
28°	1188.2	1188.4	1188.2	1186.5	1185.0	1184.8
28.5°	1186.3	1186.3	1186.3	1184.6	1183.1	1182.9
29°	1183.8	1184.1	1183.8	1182.4	1180.9	1180.4
29.5°	1181.4	1181.4	1181.4	1180.0	1178.3	1177.8
30°	1178.5	1178.3	1178.5	1177.0	1175.4	1174.9
30.5°	1175.4	1175.1	1175.4	1173.9	1172.2	1171.7
31°	1171.7	1171.2	1171.7	1170.5	1168.6	1168.1
31.5°	1167.6	1167.1	1167.6	1166.6	1164.7	1164.0
32°	1163.2	1162.8	1163.2	1162.3	1160.3	1159.4
32.5°	1158.1	1157.7	1158.1	1157.4	1155.5	1154.5
33°	1152.8	1152.1	1152.8	1152.3	1150.2	1149.2
33.5°	1147.0	1146.3	1147.0	1146.5	1144.3	1143.1
34°	1140.7	1139.7	1140.7	1140.5	1138.3	1137.1
34.5°	1133.7	1132.7	1133.7	1133.7	1131.5	1130.0
35°	1126.4	1125.4	1126.4	1126.6	1124.2	1123.0
35.5°	1118.6	1117.7	1118.6	1118.9	1116.5	1115.3
36°	1110.4	1109.2	1110.4	1110.9	1108.5	1107.0
36.5°	1101.7	1100.2	1101.7	1102.2	1099.7	1098.5
37°	1092.5	1091.0	1092.5	1092.7	1090.5	1089.1
37.5°	1082.5	1081.1	1082.5	1083.3	1080.8	1079.6
38°	1072.4	1070.7	1072.4	1073.1	1070.9	1069.5
38.5°	1061.5	1060.0	1061.5	1062.4	1060.2	1058.8
39°	1050.5	1048.9	1050.5	1051.3	1049.3	1048.1
39.5°	1038.9	1037.2	1038.9	1039.6	1037.7	1036.7
40°	1026.8	1025.1	1026.8	1027.5	1025.6	1024.6
40.5°	1014.2	1012.5	1014.2	1014.9	1013.2	1012.5
41°	1001.4	999.7	1001.4	1001.8	1000.4	999.7
41.5°	987.5	986.3	987.5	988.5	987.1	986.6
42°	974.0	972.8	974.0	974.5	973.5	973.0
42.5°	959.7	958.5	959.7	960.2	959.2	959.2
43°	944.9	943.7	944.9	945.4	944.6	944.6
43.5°	929.4	928.7	929.4	929.9	929.6	929.6



TEST NUMBER: P776130

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	881.2	880.9	881.2	881.4	881.4	882.1
45.5°	863.9	863.7	863.9	864.2	864.4	865.2
46°	846.5	846.3	846.5	846.5	846.7	847.7
46.5°	828.1	827.8	828.1	828.3	828.6	829.5
47°	808.0	807.5	808.0	808.4	809.2	810.1
47.5°	787.4	787.1	787.4	787.1	788.1	789.1
48°	767.3	767.5	767.3	767.0	766.5	766.8
48.5°	746.7	746.7	746.7	746.4	745.4	745.4
49°	725.6	725.8	725.6	725.3	724.6	724.8
49.5°	705.2	705.5	705.2	704.2	702.8	702.5
50°	684.6	685.3	684.6	683.4	681.5	680.5
50.5°	664.5	665.0	664.5	663.3	661.3	660.1
51°	645.1	645.6	645.1	644.1	642.2	641.5
51.5°	627.9	628.6	627.9	626.2	624.0	623.5
52°	611.2	612.2	611.2	609.0	606.8	605.9
52.5°	595.4	596.9	595.4	593.3	590.8	589.9
53°	580.9	581.9	580.9	578.7	576.0	575.1
53.5°	566.6	567.6	566.6	564.7	562.2	561.3
54°	552.3	552.8	552.3	551.1	548.9	548.2
54.5°	538.2	538.5	538.2	536.8	535.1	534.4
55°	522.5	522.0	522.5	521.5	519.8	519.1
55.5°	505.0	504.8	505.0	504.1	502.1	501.4
56°	486.4	486.1	486.4	485.2	482.7	481.8
56.5°	466.5	466.3	466.5	464.6	462.4	460.9
57°	444.7	444.9	444.7	443.5	440.3	439.1
57.5°	422.6	422.9	422.6	421.2	417.8	416.3
58°	400.3	400.8	400.3	398.2	394.8	393.3
58.5°	377.3	378.1	377.3	374.7	371.0	369.8
59°	354.3	355.3	354.3	350.7	347.3	346.1
59.5°	331.3	332.2	331.3	327.2	323.3	321.8
60°	308.7	309.2	308.7	303.7	299.8	297.6
60.5°	285.7	286.7	285.7	281.1	275.8	273.8
61°	263.2	264.4	263.2	258.8	253.0	250.6
61.5°	240.6	242.8	240.6	236.8	230.5	228.3
62°	218.8	221.3	218.8	215.0	208.4	206.2
62.5°	197.8	200.4	197.8	193.9	187.1	184.2
63°	177.4	180.5	177.4	173.3	166.2	162.6
63.5°	157.8	160.9	157.8	153.4	145.9	142.7
64°	139.1	142.0	139.1	134.0	127.2	123.8
64.5°	121.4	124.3	121.4	115.6	109.1	105.9
65°	104.2	106.9	104.2	98.6	93.1	88.7
65.5°	88.2	90.6	88.2	82.6	77.8	73.7
66°	73.7	74.9	73.7	68.3	63.5	59.4



TEST NUMBER: P776130  
 CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	37.3	37.6	37.3	32.7	30.3	23.7
68°	28.4	27.9	28.4	23.7	21.3	14.5
68.5°	20.1	22.3	20.1	16.7	13.8	6.3
69°	13.1	17.2	13.1	10.9	8.5	3.4
69.5°	7.8	11.9	7.8	6.1	4.1	2.2
70°	3.4	6.5	3.4	2.9	2.4	1.2
70.5°	1.5	1.9	1.5	1.7	1.2	0.5
71°	0.7	0.7	0.7	1.0	0.7	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	0.2
73.5°	0.5	0.5	0.5	0.5	0.2	0.2
74°	0.5	0.5	0.5	0.2	0.2	0.2
74.5°	0.2	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	0.0	0.0
80.5°	0.2	0.2	0.2	0.2	0.0	0.0
81°	0.0	0.2	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: P776130

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-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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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°	1194.7	1195.0	1195.7	1197.2	1197.6	1197.2	1195.7	1195.0	1194.7	1195.0	1195.7
22°	1194.7	1194.7	1195.7	1197.2	1197.6	1197.2	1195.7	1194.7	1194.7	1194.7	1195.7



44°	914.4	913.9	914.1	913.6	913.1	913.6	914.1	913.9	914.4	913.9	914.1
44.5°	898.6	897.9	898.1	897.9	897.1	897.9	898.1	897.9	898.6	897.9	898.1



66.5°	47.5	51.4	54.8	59.9	61.3	59.9	54.8	51.4	47.5	51.4	54.8
67°	35.6	39.7	43.4	48.2	48.7	48.2	43.4	39.7	35.6	39.7	43.4



89°	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



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21.5°	1197.2	1197.6	1197.2	1195.7	1195.0	1194.7
22°	1197.2	1197.6	1197.2	1195.7	1194.7	1194.7



44°	913.6	913.1	913.6	914.1	913.9	914.4
44.5°	897.9	897.1	897.9	898.1	897.9	898.6

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66.5°	59.9	61.3	59.9	54.8	51.4	47.5
67°	48.2	48.7	48.2	43.4	39.7	35.6

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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)