

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: P776134

Luminaire Tested: HCDJBL51525CSD-HCD81TRH-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776134  
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-5000K  
Description: 8 INCH ROUND SHALLOW-WIDE HAZE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3135.8 lumens  
Efficiency: N/A  
Efficacy: 125.4 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

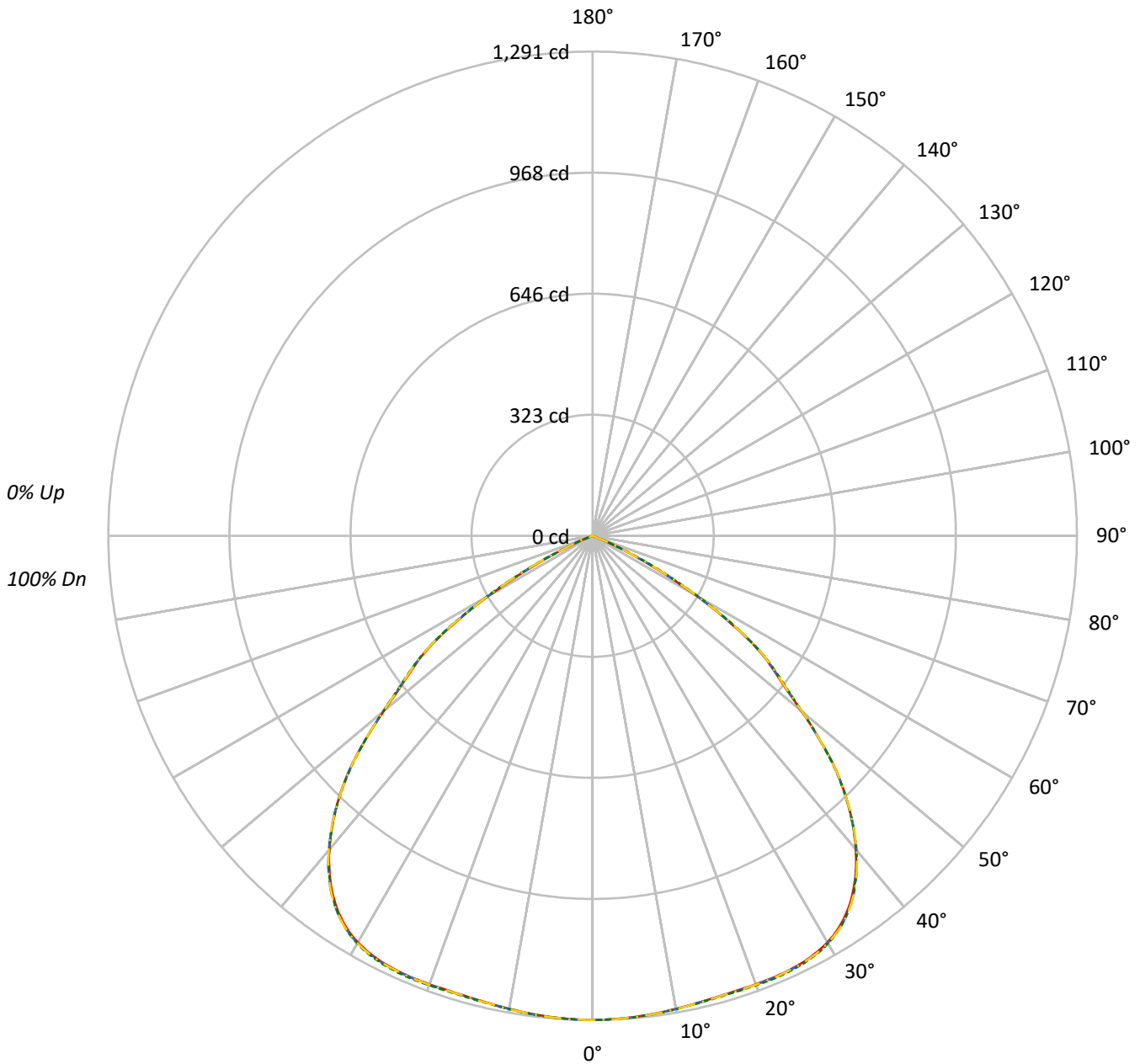
Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78								
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33								
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30								

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

	0°	90°	180°	270°
0°	39418	39418	39418	39418
5°	39473	39489	39473	39489
10°	39703	39737	39703	39737
15°	40261	40318	40261	40318
20°	41343	41434	41343	41434
25°	42789	42910	42789	42910
30°	44123	44250	44123	44250
35°	44587	44684	44587	44684
40°	43501	43521	43501	43521
45°	40573	40517	40573	40517
50°	34430	34677	34430	34677
55°	29435	29600	29435	29600
60°	19356	20113	19356	20113
65°	6827	8221	6827	8221
70°	116	625	116	625
75°	35	35	35	35
80°	0	53	0	53
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 40573 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.8	3.9
10°-20°	361.5	11.5
20°-30°	587.2	18.7
30°-40°	745.6	23.8
40°-50°	715.1	22.8
50°-60°	481.3	15.3
60°-70°	121.8	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°	1071.5	34.2
0°-40°	1817.1	57.9
0°-60°	3013.5	96.1
0°-90°	3135.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3135.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1291	1291	1291	1291	1291	
5°	1288	1288	1288	1288	1288	123
15°	1274	1276	1274	1276	1274	361
25°	1270	1274	1270	1274	1270	586
35°	1196	1199	1196	1199	1196	744
45°	940	938	940	938	940	715
55°	553	556	553	556	553	478
65°	94	114	94	114	94	113
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	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°	1291.1	1291.1	1291.1	1291.1	1291.1	1291.1	1291.1	1291.1	1291.1	1291.1	1291.1
0.5°	1290.8	1290.8	1291.1	1291.3	1291.1	1291.3	1291.1	1290.8	1290.8	1290.8	1291.1
1°	1290.8	1290.8	1291.1	1291.3	1290.8	1291.3	1291.1	1290.8	1290.8	1290.8	1291.1
1.5°	1290.6	1290.6	1290.8	1291.1	1290.8	1291.1	1290.8	1290.6	1290.6	1290.6	1290.8
2°	1290.3	1290.3	1290.8	1290.8	1290.6	1290.8	1290.8	1290.3	1290.3	1290.3	1290.8
2.5°	1290.0	1290.3	1290.6	1290.8	1290.3	1290.8	1290.6	1290.3	1290.0	1290.3	1290.6
3°	1289.8	1289.8	1290.3	1290.3	1290.0	1290.3	1290.3	1289.8	1289.8	1289.8	1290.3
3.5°	1289.3	1289.5	1289.8	1290.0	1289.8	1290.0	1289.8	1289.5	1289.3	1289.5	1289.8
4°	1289.0	1289.0	1289.3	1289.8	1289.3	1289.8	1289.3	1289.0	1289.0	1289.0	1289.3
4.5°	1288.5	1288.7	1289.0	1289.3	1289.0	1289.3	1289.0	1288.7	1288.5	1288.7	1289.0
5°	1288.0	1288.2	1288.5	1288.7	1288.5	1288.7	1288.5	1288.2	1288.0	1288.2	1288.5
5.5°	1287.5	1287.5	1288.0	1288.2	1288.0	1288.2	1288.0	1287.5	1287.5	1287.5	1288.0
6°	1286.7	1286.9	1287.2	1287.7	1287.5	1287.7	1287.2	1286.9	1286.7	1286.9	1287.2
6.5°	1286.2	1286.4	1286.7	1287.2	1286.7	1287.2	1286.7	1286.4	1286.2	1286.4	1286.7
7°	1285.4	1285.6	1286.2	1286.4	1286.2	1286.4	1286.2	1285.6	1285.4	1285.6	1286.2
7.5°	1284.6	1284.9	1285.4	1285.6	1285.4	1285.6	1285.4	1284.9	1284.6	1284.9	1285.4
8°	1284.1	1284.1	1284.6	1285.1	1284.9	1285.1	1284.6	1284.1	1284.1	1284.1	1284.6
8.5°	1283.3	1283.3	1283.8	1284.1	1284.1	1284.1	1283.8	1283.3	1283.3	1283.3	1283.8
9°	1282.3	1282.5	1283.1	1283.6	1283.3	1283.6	1283.1	1282.5	1282.3	1282.5	1283.1
9.5°	1281.5	1281.8	1282.3	1282.8	1282.5	1282.8	1282.3	1281.8	1281.5	1281.8	1282.3
10°	1280.7	1281.0	1281.5	1282.0	1281.8	1282.0	1281.5	1281.0	1280.7	1281.0	1281.5
10.5°	1280.0	1280.2	1280.5	1281.3	1281.0	1281.3	1280.5	1280.2	1280.0	1280.2	1280.5
11°	1279.2	1279.2	1279.7	1280.5	1280.2	1280.5	1279.7	1279.2	1279.2	1279.2	1279.7
11.5°	1278.4	1278.4	1278.9	1279.7	1279.5	1279.7	1278.9	1278.4	1278.4	1278.4	1278.9
12°	1277.6	1277.6	1278.2	1278.9	1278.9	1278.9	1278.2	1277.6	1277.6	1277.6	1278.2
12.5°	1276.9	1276.9	1277.6	1278.2	1278.2	1278.2	1277.6	1276.9	1276.9	1276.9	1277.6
13°	1276.1	1276.4	1276.9	1277.4	1277.6	1277.4	1276.9	1276.4	1276.1	1276.4	1276.9
13.5°	1275.3	1275.6	1276.4	1276.9	1276.9	1276.9	1276.4	1275.6	1275.3	1275.6	1276.4
14°	1274.8	1275.1	1275.6	1276.4	1276.4	1276.4	1275.6	1275.1	1274.8	1275.1	1275.6
14.5°	1274.3	1274.5	1275.1	1275.8	1276.1	1275.8	1275.1	1274.5	1274.3	1274.5	1275.1
15°	1273.8	1274.0	1274.5	1275.6	1275.6	1275.6	1274.5	1274.0	1273.8	1274.0	1274.5
15.5°	1273.3	1273.5	1274.3	1275.1	1275.3	1275.1	1274.3	1273.5	1273.3	1273.5	1274.3
16°	1273.0	1273.3	1273.8	1274.8	1275.1	1274.8	1273.8	1273.3	1273.0	1273.3	1273.8
16.5°	1272.7	1273.0	1273.5	1274.5	1274.8	1274.5	1273.5	1273.0	1272.7	1273.0	1273.5
17°	1272.5	1272.7	1273.5	1274.5	1274.8	1274.5	1273.5	1272.7	1272.5	1272.7	1273.5
17.5°	1272.5	1272.7	1273.3	1274.5	1274.8	1274.5	1273.3	1272.7	1272.5	1272.7	1273.3
18°	1272.2	1272.5	1273.3	1274.5	1274.8	1274.5	1273.3	1272.5	1272.2	1272.5	1273.3
18.5°	1272.2	1272.5	1273.3	1274.5	1274.8	1274.5	1273.3	1272.5	1272.2	1272.5	1273.3
19°	1272.5	1272.5	1273.3	1274.8	1275.1	1274.8	1273.3	1272.5	1272.5	1272.5	1273.3
19.5°	1272.5	1272.7	1273.5	1274.8	1275.3	1274.8	1273.5	1272.7	1272.5	1272.7	1273.5
20°	1272.5	1272.7	1273.5	1275.1	1275.3	1275.1	1273.5	1272.7	1272.5	1272.7	1273.5
20.5°	1272.7	1272.7	1273.8	1275.1	1275.6	1275.1	1273.8	1272.7	1272.7	1272.7	1273.8
21°	1272.7	1273.0	1273.8	1275.3	1275.6	1275.3	1273.8	1273.0	1272.7	1273.0	1273.8



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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°	1272.5	1272.7	1273.8	1275.3	1275.8	1275.3	1273.8	1272.7	1272.5	1272.7	1273.8
23°	1272.2	1272.5	1273.5	1275.1	1275.6	1275.1	1273.5	1272.5	1272.2	1272.5	1273.5
23.5°	1272.0	1272.2	1273.3	1274.8	1275.3	1274.8	1273.3	1272.2	1272.0	1272.2	1273.3
24°	1271.7	1271.7	1272.7	1274.5	1275.1	1274.5	1272.7	1271.7	1271.7	1271.7	1272.7
24.5°	1270.9	1271.2	1272.2	1274.0	1274.5	1274.0	1272.2	1271.2	1270.9	1271.2	1272.2
25°	1270.2	1270.4	1271.7	1273.5	1273.8	1273.5	1271.7	1270.4	1270.2	1270.4	1271.7
25.5°	1269.4	1269.6	1270.9	1272.7	1273.0	1272.7	1270.9	1269.6	1269.4	1269.6	1270.9
26°	1268.4	1268.6	1269.9	1271.7	1272.2	1271.7	1269.9	1268.6	1268.4	1268.6	1269.9
26.5°	1267.1	1267.3	1268.9	1270.7	1270.9	1270.7	1268.9	1267.3	1267.1	1267.3	1268.9
27°	1265.8	1266.0	1267.3	1269.1	1269.4	1269.1	1267.3	1266.0	1265.8	1266.0	1267.3
27.5°	1264.0	1264.5	1265.8	1267.6	1267.8	1267.6	1265.8	1264.5	1264.0	1264.5	1265.8
28°	1262.2	1262.4	1264.0	1265.8	1266.0	1265.8	1264.0	1262.4	1262.2	1262.4	1264.0
28.5°	1260.1	1260.3	1261.9	1263.7	1263.7	1263.7	1261.9	1260.3	1260.1	1260.3	1261.9
29°	1257.5	1258.0	1259.6	1261.1	1261.4	1261.1	1259.6	1258.0	1257.5	1258.0	1259.6
29.5°	1254.7	1255.2	1257.0	1258.5	1258.5	1258.5	1257.0	1255.2	1254.7	1255.2	1257.0
30°	1251.6	1252.1	1253.9	1255.4	1255.2	1255.4	1253.9	1252.1	1251.6	1252.1	1253.9
30.5°	1248.2	1248.7	1250.5	1252.1	1251.8	1252.1	1250.5	1248.7	1248.2	1248.7	1250.5
31°	1244.3	1244.9	1246.9	1248.2	1247.7	1248.2	1246.9	1244.9	1244.3	1244.9	1246.9
31.5°	1240.0	1240.7	1242.8	1243.8	1243.3	1243.8	1242.8	1240.7	1240.0	1240.7	1242.8
32°	1235.0	1236.1	1238.1	1239.2	1238.7	1239.2	1238.1	1236.1	1235.0	1236.1	1238.1
32.5°	1229.9	1230.9	1233.0	1233.8	1233.2	1233.8	1233.0	1230.9	1229.9	1230.9	1233.0
33°	1224.2	1225.2	1227.6	1228.1	1227.3	1228.1	1227.6	1225.2	1224.2	1225.2	1227.6
33.5°	1217.8	1219.0	1221.4	1221.9	1221.1	1221.9	1221.4	1219.0	1217.8	1219.0	1221.4
34°	1211.3	1212.6	1214.9	1215.2	1214.1	1215.2	1214.9	1212.6	1211.3	1212.6	1214.9
34.5°	1203.8	1205.4	1207.7	1207.7	1206.6	1207.7	1207.7	1205.4	1203.8	1205.4	1207.7
35°	1196.3	1197.6	1200.2	1199.9	1198.9	1199.9	1200.2	1197.6	1196.3	1197.6	1200.2
35.5°	1188.1	1189.4	1191.9	1191.7	1190.6	1191.7	1191.9	1189.4	1188.1	1189.4	1191.9
36°	1179.3	1180.8	1183.4	1182.9	1181.6	1182.9	1183.4	1180.8	1179.3	1180.8	1183.4
36.5°	1170.2	1171.5	1174.1	1173.6	1172.1	1173.6	1174.1	1171.5	1170.2	1171.5	1174.1
37°	1160.2	1161.7	1164.1	1163.8	1162.2	1163.8	1164.1	1161.7	1160.2	1161.7	1164.1
37.5°	1150.1	1151.4	1154.0	1153.2	1151.7	1153.2	1154.0	1151.4	1150.1	1151.4	1154.0
38°	1139.3	1140.8	1143.1	1142.4	1140.6	1142.4	1143.1	1140.8	1139.3	1140.8	1143.1
38.5°	1127.9	1129.5	1131.8	1130.8	1129.2	1130.8	1131.8	1129.5	1127.9	1129.5	1131.8
39°	1116.6	1117.8	1119.9	1119.1	1117.3	1119.1	1119.9	1117.8	1116.6	1117.8	1119.9
39.5°	1104.4	1105.5	1107.5	1106.7	1104.9	1106.7	1107.5	1105.5	1104.4	1105.5	1107.5
40°	1091.5	1092.5	1094.6	1093.8	1092.0	1093.8	1094.6	1092.5	1091.5	1092.5	1094.6
40.5°	1078.6	1079.4	1081.2	1080.4	1078.6	1080.4	1081.2	1079.4	1078.6	1079.4	1081.2
41°	1064.9	1065.7	1067.2	1066.7	1064.9	1066.7	1067.2	1065.7	1064.9	1065.7	1067.2
41.5°	1051.0	1051.5	1053.0	1052.0	1050.7	1052.0	1053.0	1051.5	1051.0	1051.5	1053.0
42°	1036.5	1037.0	1038.1	1037.6	1036.3	1037.6	1038.1	1037.0	1036.5	1037.0	1038.1
42.5°	1021.8	1021.8	1022.8	1022.3	1021.0	1022.3	1022.8	1021.8	1021.8	1021.8	1022.8
43°	1006.3	1006.3	1007.1	1006.6	1005.3	1006.6	1007.1	1006.3	1006.3	1006.3	1007.1
43.5°	990.3	990.3	990.6	990.1	989.3	990.1	990.6	990.3	990.3	990.3	990.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	939.7	938.9	938.9	938.7	938.4	938.7	938.9	938.9	939.7	938.9	938.9
45.5°	921.6	920.9	920.6	920.3	920.1	920.3	920.6	920.9	921.6	920.9	920.6
46°	903.1	902.0	901.8	901.8	901.5	901.8	901.8	902.0	903.1	902.0	901.8
46.5°	883.7	882.7	882.4	882.1	881.9	882.1	882.4	882.7	883.7	882.7	882.4
47°	863.0	862.0	861.2	860.7	860.2	860.7	861.2	862.0	863.0	862.0	861.2
47.5°	840.6	839.5	838.5	838.8	838.5	838.8	838.5	839.5	840.6	839.5	838.5
48°	816.8	816.6	817.1	817.3	817.6	817.3	817.1	816.6	816.8	816.6	817.1
48.5°	794.1	794.1	795.1	795.4	795.4	795.4	795.1	794.1	794.1	794.1	795.1
49°	772.2	771.9	772.7	772.9	773.2	772.9	772.7	771.9	772.2	771.9	772.7
49.5°	748.4	748.7	750.2	751.3	751.5	751.3	750.2	748.7	748.4	748.7	750.2
50°	724.9	726.0	728.0	729.3	730.1	729.3	728.0	726.0	724.9	726.0	728.0
50.5°	703.2	704.5	706.6	707.9	708.4	707.9	706.6	704.5	703.2	704.5	706.6
51°	683.4	684.1	686.2	687.2	687.7	687.2	686.2	684.1	683.4	684.1	686.2
51.5°	664.3	664.8	667.1	668.9	669.7	668.9	667.1	664.8	664.3	664.8	667.1
52°	645.4	646.4	648.8	651.1	652.1	651.1	648.8	646.4	645.4	646.4	648.8
52.5°	628.4	629.4	632.0	634.3	635.9	634.3	632.0	629.4	628.4	629.4	632.0
53°	612.6	613.7	616.5	618.8	619.8	618.8	616.5	613.7	612.6	613.7	616.5
53.5°	597.9	598.9	601.5	603.6	604.6	603.6	601.5	598.9	597.9	598.9	601.5
54°	584.0	584.7	587.1	588.4	588.9	588.4	587.1	584.7	584.0	584.7	587.1
54.5°	569.2	570.0	571.8	573.4	573.6	573.4	571.8	570.0	569.2	570.0	571.8
55°	553.0	553.8	555.6	556.6	556.1	556.6	555.6	553.8	553.0	553.8	555.6
55.5°	534.1	534.9	537.0	538.0	537.8	538.0	537.0	534.9	534.1	534.9	537.0
56°	513.2	514.3	516.8	518.1	517.9	518.1	516.8	514.3	513.2	514.3	516.8
56.5°	491.0	492.6	494.9	497.0	496.7	497.0	494.9	492.6	491.0	492.6	494.9
57°	467.8	469.1	472.4	473.7	474.0	473.7	472.4	469.1	467.8	469.1	472.4
57.5°	443.5	445.1	448.7	450.2	450.5	450.2	448.7	445.1	443.5	445.1	448.7
58°	419.0	420.5	424.2	426.5	427.0	426.5	424.2	420.5	419.0	420.5	424.2
58.5°	394.0	395.2	399.1	402.0	402.7	402.0	399.1	395.2	394.0	395.2	399.1
59°	368.7	369.9	373.6	377.4	378.5	377.4	373.6	369.9	368.7	369.9	373.6
59.5°	342.8	344.4	348.5	352.9	353.9	352.9	348.5	344.4	342.8	344.4	348.5
60°	317.0	319.3	323.5	328.9	329.4	328.9	323.5	319.3	317.0	319.3	323.5
60.5°	291.7	293.8	299.5	304.4	305.4	304.4	299.5	293.8	291.7	293.8	299.5
61°	266.9	269.5	275.7	280.4	281.7	280.4	275.7	269.5	266.9	269.5	275.7
61.5°	243.2	245.5	252.2	256.4	258.7	256.4	252.2	245.5	243.2	245.5	252.2
62°	219.7	222.0	229.0	233.1	235.7	233.1	229.0	222.0	219.7	222.0	229.0
62.5°	196.2	199.3	206.5	210.7	213.5	210.7	206.5	199.3	196.2	199.3	206.5
63°	173.2	177.1	184.6	189.0	192.3	189.0	184.6	177.1	173.2	177.1	184.6
63.5°	152.1	155.4	163.4	168.1	171.4	168.1	163.4	155.4	152.1	155.4	163.4
64°	131.9	135.5	142.8	148.2	151.3	148.2	142.8	135.5	131.9	135.5	142.8
64.5°	112.8	116.2	123.1	129.3	132.4	129.3	123.1	116.2	112.8	116.2	123.1
65°	94.5	99.1	105.1	111.0	113.8	111.0	105.1	99.1	94.5	99.1	105.1
65.5°	78.5	82.9	88.0	94.0	96.6	94.0	88.0	82.9	78.5	82.9	88.0
66°	63.2	67.6	72.8	78.5	79.8	78.5	72.8	67.6	63.2	67.6	72.8





TEST NUMBER: P776134

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	25.3	32.3	34.9	39.8	40.0	39.8	34.9	32.3	25.3	32.3	34.9
68°	15.5	22.7	25.3	30.2	29.7	30.2	25.3	22.7	15.5	22.7	25.3
68.5°	6.7	14.7	17.8	21.4	23.8	21.4	17.8	14.7	6.7	14.7	17.8
69°	3.6	9.0	11.6	13.9	18.3	13.9	11.6	9.0	3.6	9.0	11.6
69.5°	2.3	4.4	6.5	8.3	12.6	8.3	6.5	4.4	2.3	4.4	6.5
70°	1.3	2.6	3.1	3.6	7.0	3.6	3.1	2.6	1.3	2.6	3.1
70.5°	0.5	1.3	1.8	1.5	2.1	1.5	1.8	1.3	0.5	1.3	1.8
71°	0.5	0.8	1.0	0.8	0.8	0.8	1.0	0.8	0.5	0.8	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°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
73.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5
74°	0.3	0.3	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
80.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3
81°	0.0	0.0	0.0	0.0	0.3	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: P776134  
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P776134

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1291.1	1291.1	1291.1	1291.1	1291.1	1291.1
0.5°	1291.3	1291.1	1291.3	1291.1	1290.8	1290.8
1°	1291.3	1290.8	1291.3	1291.1	1290.8	1290.8
1.5°	1291.1	1290.8	1291.1	1290.8	1290.6	1290.6
2°	1290.8	1290.6	1290.8	1290.8	1290.3	1290.3
2.5°	1290.8	1290.3	1290.8	1290.6	1290.3	1290.0
3°	1290.3	1290.0	1290.3	1290.3	1289.8	1289.8
3.5°	1290.0	1289.8	1290.0	1289.8	1289.5	1289.3
4°	1289.8	1289.3	1289.8	1289.3	1289.0	1289.0
4.5°	1289.3	1289.0	1289.3	1289.0	1288.7	1288.5
5°	1288.7	1288.5	1288.7	1288.5	1288.2	1288.0
5.5°	1288.2	1288.0	1288.2	1288.0	1287.5	1287.5
6°	1287.7	1287.5	1287.7	1287.2	1286.9	1286.7
6.5°	1287.2	1286.7	1287.2	1286.7	1286.4	1286.2
7°	1286.4	1286.2	1286.4	1286.2	1285.6	1285.4
7.5°	1285.6	1285.4	1285.6	1285.4	1284.9	1284.6
8°	1285.1	1284.9	1285.1	1284.6	1284.1	1284.1
8.5°	1284.1	1284.1	1284.1	1283.8	1283.3	1283.3
9°	1283.6	1283.3	1283.6	1283.1	1282.5	1282.3
9.5°	1282.8	1282.5	1282.8	1282.3	1281.8	1281.5
10°	1282.0	1281.8	1282.0	1281.5	1281.0	1280.7
10.5°	1281.3	1281.0	1281.3	1280.5	1280.2	1280.0
11°	1280.5	1280.2	1280.5	1279.7	1279.2	1279.2
11.5°	1279.7	1279.5	1279.7	1278.9	1278.4	1278.4
12°	1278.9	1278.9	1278.9	1278.2	1277.6	1277.6
12.5°	1278.2	1278.2	1278.2	1277.6	1276.9	1276.9
13°	1277.4	1277.6	1277.4	1276.9	1276.4	1276.1
13.5°	1276.9	1276.9	1276.9	1276.4	1275.6	1275.3
14°	1276.4	1276.4	1276.4	1275.6	1275.1	1274.8
14.5°	1275.8	1276.1	1275.8	1275.1	1274.5	1274.3
15°	1275.6	1275.6	1275.6	1274.5	1274.0	1273.8
15.5°	1275.1	1275.3	1275.1	1274.3	1273.5	1273.3
16°	1274.8	1275.1	1274.8	1273.8	1273.3	1273.0
16.5°	1274.5	1274.8	1274.5	1273.5	1273.0	1272.7
17°	1274.5	1274.8	1274.5	1273.5	1272.7	1272.5
17.5°	1274.5	1274.8	1274.5	1273.3	1272.7	1272.5
18°	1274.5	1274.8	1274.5	1273.3	1272.5	1272.2
18.5°	1274.5	1274.8	1274.5	1273.3	1272.5	1272.2
19°	1274.8	1275.1	1274.8	1273.3	1272.5	1272.5
19.5°	1274.8	1275.3	1274.8	1273.5	1272.7	1272.5
20°	1275.1	1275.3	1275.1	1273.5	1272.7	1272.5
20.5°	1275.1	1275.6	1275.1	1273.8	1272.7	1272.7
21°	1275.3	1275.6	1275.3	1273.8	1273.0	1272.7



TEST NUMBER: P776134

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1275.3	1275.8	1275.3	1273.8	1272.7	1272.5
23°	1275.1	1275.6	1275.1	1273.5	1272.5	1272.2
23.5°	1274.8	1275.3	1274.8	1273.3	1272.2	1272.0
24°	1274.5	1275.1	1274.5	1272.7	1271.7	1271.7
24.5°	1274.0	1274.5	1274.0	1272.2	1271.2	1270.9
25°	1273.5	1273.8	1273.5	1271.7	1270.4	1270.2
25.5°	1272.7	1273.0	1272.7	1270.9	1269.6	1269.4
26°	1271.7	1272.2	1271.7	1269.9	1268.6	1268.4
26.5°	1270.7	1270.9	1270.7	1268.9	1267.3	1267.1
27°	1269.1	1269.4	1269.1	1267.3	1266.0	1265.8
27.5°	1267.6	1267.8	1267.6	1265.8	1264.5	1264.0
28°	1265.8	1266.0	1265.8	1264.0	1262.4	1262.2
28.5°	1263.7	1263.7	1263.7	1261.9	1260.3	1260.1
29°	1261.1	1261.4	1261.1	1259.6	1258.0	1257.5
29.5°	1258.5	1258.5	1258.5	1257.0	1255.2	1254.7
30°	1255.4	1255.2	1255.4	1253.9	1252.1	1251.6
30.5°	1252.1	1251.8	1252.1	1250.5	1248.7	1248.2
31°	1248.2	1247.7	1248.2	1246.9	1244.9	1244.3
31.5°	1243.8	1243.3	1243.8	1242.8	1240.7	1240.0
32°	1239.2	1238.7	1239.2	1238.1	1236.1	1235.0
32.5°	1233.8	1233.2	1233.8	1233.0	1230.9	1229.9
33°	1228.1	1227.3	1228.1	1227.6	1225.2	1224.2
33.5°	1221.9	1221.1	1221.9	1221.4	1219.0	1217.8
34°	1215.2	1214.1	1215.2	1214.9	1212.6	1211.3
34.5°	1207.7	1206.6	1207.7	1207.7	1205.4	1203.8
35°	1199.9	1198.9	1199.9	1200.2	1197.6	1196.3
35.5°	1191.7	1190.6	1191.7	1191.9	1189.4	1188.1
36°	1182.9	1181.6	1182.9	1183.4	1180.8	1179.3
36.5°	1173.6	1172.1	1173.6	1174.1	1171.5	1170.2
37°	1163.8	1162.2	1163.8	1164.1	1161.7	1160.2
37.5°	1153.2	1151.7	1153.2	1154.0	1151.4	1150.1
38°	1142.4	1140.6	1142.4	1143.1	1140.8	1139.3
38.5°	1130.8	1129.2	1130.8	1131.8	1129.5	1127.9
39°	1119.1	1117.3	1119.1	1119.9	1117.8	1116.6
39.5°	1106.7	1104.9	1106.7	1107.5	1105.5	1104.4
40°	1093.8	1092.0	1093.8	1094.6	1092.5	1091.5
40.5°	1080.4	1078.6	1080.4	1081.2	1079.4	1078.6
41°	1066.7	1064.9	1066.7	1067.2	1065.7	1064.9
41.5°	1052.0	1050.7	1052.0	1053.0	1051.5	1051.0
42°	1037.6	1036.3	1037.6	1038.1	1037.0	1036.5
42.5°	1022.3	1021.0	1022.3	1022.8	1021.8	1021.8
43°	1006.6	1005.3	1006.6	1007.1	1006.3	1006.3
43.5°	990.1	989.3	990.1	990.6	990.3	990.3



TEST NUMBER: P776134

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	938.7	938.4	938.7	938.9	938.9	939.7
45.5°	920.3	920.1	920.3	920.6	920.9	921.6
46°	901.8	901.5	901.8	901.8	902.0	903.1
46.5°	882.1	881.9	882.1	882.4	882.7	883.7
47°	860.7	860.2	860.7	861.2	862.0	863.0
47.5°	838.8	838.5	838.8	838.5	839.5	840.6
48°	817.3	817.6	817.3	817.1	816.6	816.8
48.5°	795.4	795.4	795.4	795.1	794.1	794.1
49°	772.9	773.2	772.9	772.7	771.9	772.2
49.5°	751.3	751.5	751.3	750.2	748.7	748.4
50°	729.3	730.1	729.3	728.0	726.0	724.9
50.5°	707.9	708.4	707.9	706.6	704.5	703.2
51°	687.2	687.7	687.2	686.2	684.1	683.4
51.5°	668.9	669.7	668.9	667.1	664.8	664.3
52°	651.1	652.1	651.1	648.8	646.4	645.4
52.5°	634.3	635.9	634.3	632.0	629.4	628.4
53°	618.8	619.8	618.8	616.5	613.7	612.6
53.5°	603.6	604.6	603.6	601.5	598.9	597.9
54°	588.4	588.9	588.4	587.1	584.7	584.0
54.5°	573.4	573.6	573.4	571.8	570.0	569.2
55°	556.6	556.1	556.6	555.6	553.8	553.0
55.5°	538.0	537.8	538.0	537.0	534.9	534.1
56°	518.1	517.9	518.1	516.8	514.3	513.2
56.5°	497.0	496.7	497.0	494.9	492.6	491.0
57°	473.7	474.0	473.7	472.4	469.1	467.8
57.5°	450.2	450.5	450.2	448.7	445.1	443.5
58°	426.5	427.0	426.5	424.2	420.5	419.0
58.5°	402.0	402.7	402.0	399.1	395.2	394.0
59°	377.4	378.5	377.4	373.6	369.9	368.7
59.5°	352.9	353.9	352.9	348.5	344.4	342.8
60°	328.9	329.4	328.9	323.5	319.3	317.0
60.5°	304.4	305.4	304.4	299.5	293.8	291.7
61°	280.4	281.7	280.4	275.7	269.5	266.9
61.5°	256.4	258.7	256.4	252.2	245.5	243.2
62°	233.1	235.7	233.1	229.0	222.0	219.7
62.5°	210.7	213.5	210.7	206.5	199.3	196.2
63°	189.0	192.3	189.0	184.6	177.1	173.2
63.5°	168.1	171.4	168.1	163.4	155.4	152.1
64°	148.2	151.3	148.2	142.8	135.5	131.9
64.5°	129.3	132.4	129.3	123.1	116.2	112.8
65°	111.0	113.8	111.0	105.1	99.1	94.5
65.5°	94.0	96.6	94.0	88.0	82.9	78.5
66°	78.5	79.8	78.5	72.8	67.6	63.2



TEST NUMBER: P776134

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	39.8	40.0	39.8	34.9	32.3	25.3
68°	30.2	29.7	30.2	25.3	22.7	15.5
68.5°	21.4	23.8	21.4	17.8	14.7	6.7
69°	13.9	18.3	13.9	11.6	9.0	3.6
69.5°	8.3	12.6	8.3	6.5	4.4	2.3
70°	3.6	7.0	3.6	3.1	2.6	1.3
70.5°	1.5	2.1	1.5	1.8	1.3	0.5
71°	0.8	0.8	0.8	1.0	0.8	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	0.3
73.5°	0.5	0.5	0.5	0.5	0.3	0.3
74°	0.5	0.5	0.5	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3
78°	0.3	0.3	0.3	0.3	0.3	0.3
78.5°	0.3	0.3	0.3	0.3	0.3	0.3
79°	0.3	0.3	0.3	0.3	0.3	0.3
79.5°	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.0	0.0
80.5°	0.3	0.3	0.3	0.3	0.0	0.0
81°	0.0	0.3	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: P776134

CATALOG NUMBER: HCDJBL1525CSD-HCD81TRH-2500lm-5000K

**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°	1272.7	1273.0	1273.8	1275.3	1275.8	1275.3	1273.8	1273.0	1272.7	1273.0	1273.8
22°	1272.7	1272.7	1273.8	1275.3	1275.8	1275.3	1273.8	1272.7	1272.7	1272.7	1273.8



44°	974.0	973.5	973.8	973.3	972.8	973.3	973.8	973.5	974.0	973.5	973.8
44.5°	957.3	956.5	956.7	956.5	955.7	956.5	956.7	956.5	957.3	956.5	956.7



66.5°	50.6	54.7	58.3	63.8	65.3	63.8	58.3	54.7	50.6	54.7	58.3
67°	37.9	42.3	46.2	51.4	51.9	51.4	46.2	42.3	37.9	42.3	46.2



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°	1275.3	1275.8	1275.3	1273.8	1273.0	1272.7
22°	1275.3	1275.8	1275.3	1273.8	1272.7	1272.7



44°	973.3	972.8	973.3	973.8	973.5	974.0
44.5°	956.5	955.7	956.5	956.7	956.5	957.3

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66.5°	63.8	65.3	63.8	58.3	54.7	50.6
67°	51.4	51.9	51.4	46.2	42.3	37.9

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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)