

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: P776044

Luminaire Tested: HCDJBL51525CSD-HCD61TRMB-2500lm-5000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776044  
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: HCDJBS1525CSD-HCD61TRMB-2500lm-5000K  
Description: 6 INCH ROUND SHALLOW-WIDE MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

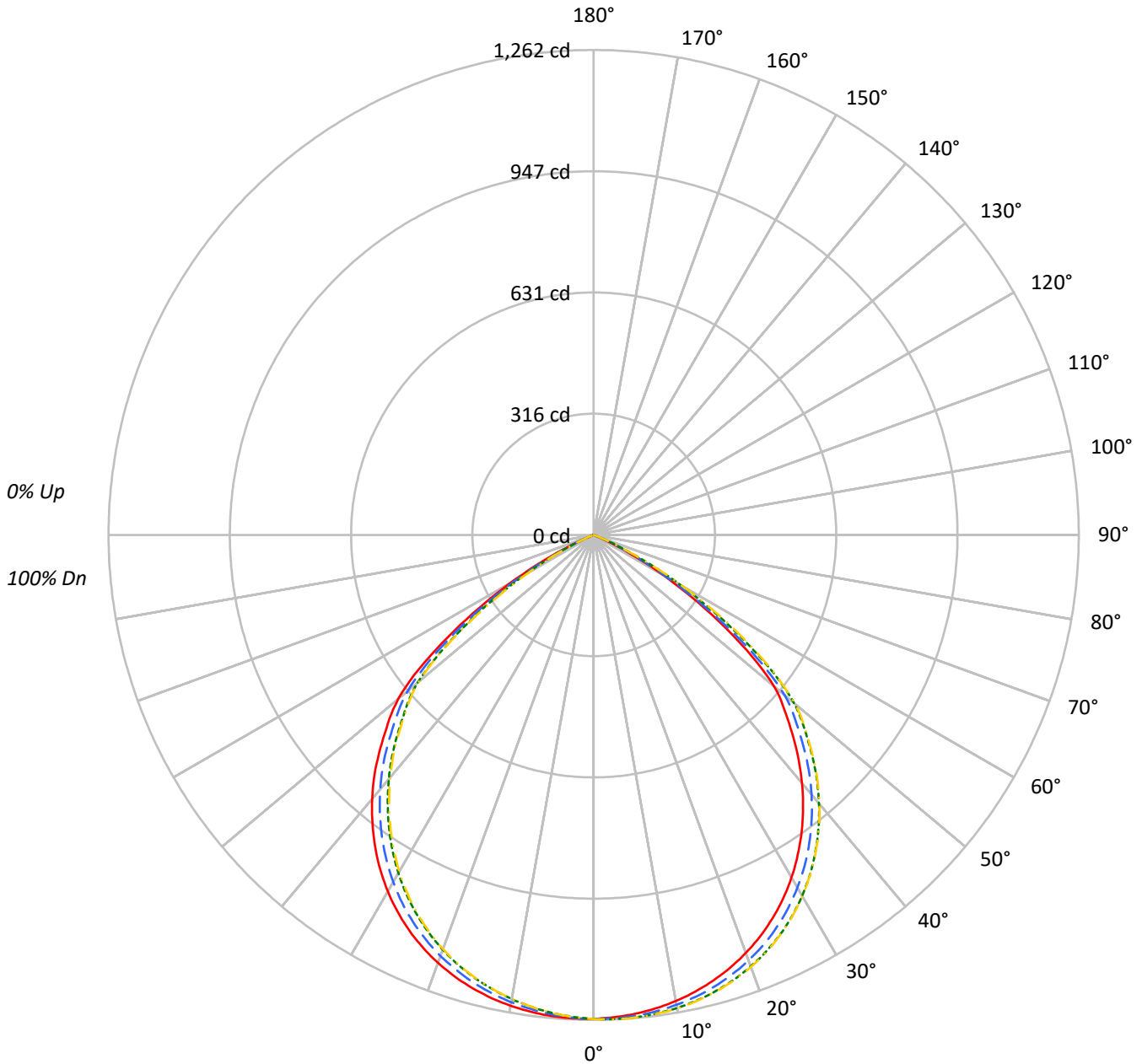
Lumens per Lamp: N/A  
Luminaire Lumens: 2635.5 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.32  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<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





TEST NUMBER: P776044

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-5000K

**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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	100		
	1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	92	90	90	90	90	90		
	2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	81	79	79	79	79	79		
	3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	71	69	69	69	69	69		
	4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	63	61	61	61	61	61		
	5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	56	54	54	54	54	54		
	6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	50	48	48	48	48	48		
	7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	45	43	43	43	43	43		
	8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	40	39	39	39	39	39		
	9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	35	35	35	35	35		
	10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	32	32	32	32	32		

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

	0°	90°	180°	270°
0°	69046	69046	69046	69046
5°	68831	69343	69156	68699
10°	68547	69593	69254	68274
15°	68145	69739	69274	67747
20°	67533	69714	69114	67007
25°	66584	69397	68677	65901
30°	65162	68656	67789	64326
35°	63102	67318	66334	62138
40°	60327	65258	64134	59318
45°	56618	62099	60836	55556
50°	52177	57943	56518	50966
55°	39435	45704	44194	38230
60°	22860	28572	27476	22410
65°	7031	10844	9936	7601
70°	128	208	128	128
75°	64	106	64	64
80°	95	95	0	95
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 112.5°  
 Vertical Angle: 45°  
 Luminance: 62317 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	4.5
10°-20°	341.7	13.0
20°-30°	514.7	19.5
30°-40°	603.7	22.9
40°-50°	584.6	22.2
50°-60°	389.0	14.8
60°-70°	82.0	3.1
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°	975.6	37.0
0°-40°	1579.4	59.9
0°-60°	2553.0	96.9
0°-90°	2635.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2635.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1260	1260	1260	1260	1260	
5°	1251	1260	1257	1248	1251	119
15°	1201	1229	1221	1194	1201	339
25°	1101	1147	1135	1090	1101	507
35°	943	1006	991	928	943	589
45°	730	801	785	717	730	563
55°	413	478	462	400	413	366
65°	54	84	77	59	54	69
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P776044

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5
0.5°	1258.8	1258.8	1259.5	1260.3	1260.1	1260.3	1260.3	1260.1	1259.3	1259.0	1259.3
1°	1258.2	1258.8	1259.5	1260.6	1260.6	1260.8	1260.8	1260.3	1259.5	1258.8	1258.8
1.5°	1257.7	1258.2	1259.5	1260.3	1260.8	1261.1	1261.1	1260.6	1259.5	1258.8	1258.5
2°	1257.0	1257.7	1259.3	1260.3	1261.1	1261.6	1261.6	1260.6	1259.5	1258.2	1258.0
2.5°	1256.2	1257.2	1258.8	1260.3	1261.1	1261.6	1261.6	1260.6	1259.3	1258.0	1257.2
3°	1255.1	1256.7	1258.5	1260.1	1261.1	1261.6	1261.6	1260.6	1259.0	1257.5	1256.4
3.5°	1254.4	1255.9	1258.0	1259.8	1260.8	1261.6	1261.6	1260.6	1258.5	1256.7	1255.4
4°	1253.1	1254.9	1257.5	1259.3	1260.8	1261.3	1261.3	1260.1	1258.0	1256.2	1254.6
4.5°	1252.1	1254.1	1256.7	1258.8	1260.3	1261.1	1261.1	1259.8	1257.5	1255.4	1253.6
5°	1250.8	1253.1	1255.7	1258.2	1260.1	1260.8	1260.6	1259.3	1256.7	1254.4	1252.3
5.5°	1249.5	1251.8	1254.9	1257.7	1259.5	1260.3	1260.1	1258.5	1255.9	1253.3	1251.0
6°	1247.7	1250.5	1254.1	1257.0	1258.8	1259.8	1259.5	1257.7	1255.1	1252.1	1249.5
6.5°	1246.1	1249.2	1252.8	1255.9	1258.2	1259.0	1258.8	1257.0	1254.1	1251.0	1247.9
7°	1244.3	1247.7	1251.5	1254.9	1257.2	1258.2	1258.0	1255.9	1253.1	1249.5	1246.4
7.5°	1242.5	1246.1	1250.2	1253.9	1256.4	1257.5	1257.2	1254.9	1251.5	1248.2	1244.8
8°	1240.7	1244.6	1248.7	1252.6	1255.4	1256.4	1256.2	1253.9	1250.5	1246.6	1243.0
8.5°	1238.4	1242.8	1247.1	1251.3	1254.1	1255.4	1255.1	1252.6	1249.0	1244.8	1241.0
9°	1236.3	1240.7	1245.3	1249.7	1253.1	1254.1	1253.9	1251.3	1247.4	1243.3	1239.2
9.5°	1234.0	1238.6	1243.5	1248.2	1251.5	1252.8	1252.6	1249.7	1245.9	1241.2	1236.8
10°	1231.4	1236.6	1241.7	1246.4	1250.2	1251.3	1251.0	1248.4	1244.1	1239.2	1234.8
10.5°	1229.1	1234.2	1239.7	1244.6	1248.4	1249.7	1249.5	1246.6	1242.2	1237.1	1232.4
11°	1226.2	1231.9	1237.6	1242.8	1246.9	1248.2	1247.7	1244.8	1240.4	1235.0	1229.9
11.5°	1223.7	1229.3	1235.3	1240.4	1245.1	1246.4	1245.9	1242.8	1238.1	1232.7	1227.5
12°	1220.6	1226.8	1233.0	1238.4	1243.0	1244.6	1244.1	1241.0	1236.1	1230.4	1224.7
12.5°	1217.7	1223.9	1230.4	1236.1	1241.0	1242.5	1242.0	1238.9	1234.0	1227.8	1222.1
13°	1214.4	1221.1	1227.8	1233.7	1238.6	1240.4	1239.7	1236.6	1231.4	1225.2	1219.0
13.5°	1211.3	1218.0	1225.2	1231.2	1236.6	1238.1	1237.6	1234.2	1228.8	1222.4	1215.9
14°	1207.9	1214.9	1222.1	1228.6	1234.0	1235.8	1235.0	1231.7	1226.2	1219.5	1212.8
14.5°	1204.3	1211.8	1219.3	1226.0	1231.4	1233.2	1232.4	1229.1	1223.4	1216.4	1209.7
15°	1200.7	1208.2	1216.2	1222.9	1228.8	1230.6	1229.9	1226.2	1220.6	1213.3	1206.4
15.5°	1196.8	1204.8	1213.1	1220.1	1226.0	1227.8	1227.3	1223.7	1217.5	1210.2	1203.0
16°	1193.2	1201.2	1209.7	1217.0	1223.2	1225.0	1224.2	1220.6	1214.4	1206.9	1199.2
16.5°	1189.1	1197.3	1206.1	1213.9	1220.1	1221.9	1221.1	1217.5	1211.3	1203.3	1195.3
17°	1185.0	1193.5	1202.5	1210.2	1217.0	1218.8	1218.0	1214.1	1207.9	1199.7	1191.4
17.5°	1180.8	1189.6	1198.9	1206.6	1213.6	1215.7	1214.9	1211.0	1204.3	1195.8	1187.3
18°	1176.4	1185.7	1195.0	1203.0	1210.0	1212.1	1211.3	1207.2	1200.7	1191.9	1183.2
18.5°	1171.8	1181.3	1191.2	1199.4	1206.6	1208.4	1207.7	1203.5	1196.8	1188.1	1179.0
19°	1167.2	1176.7	1186.8	1195.5	1202.8	1204.8	1204.1	1199.7	1193.0	1183.9	1174.6
19.5°	1162.5	1172.3	1182.6	1191.4	1199.2	1201.2	1200.2	1195.8	1188.8	1179.8	1170.3
20°	1157.6	1167.9	1178.3	1187.3	1195.0	1197.1	1196.3	1191.9	1184.7	1175.4	1165.9
20.5°	1152.4	1163.0	1173.6	1183.2	1190.9	1193.0	1192.2	1187.5	1180.6	1170.8	1160.7
21°	1147.5	1157.9	1169.2	1178.8	1186.5	1188.8	1187.8	1183.4	1176.2	1166.1	1156.1



TEST NUMBER: P776044

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1131.0	1142.6	1154.3	1164.3	1173.1	1175.2	1174.1	1169.5	1161.7	1151.4	1140.3
23°	1125.4	1137.2	1149.1	1159.4	1168.2	1170.5	1169.2	1164.6	1156.8	1146.0	1134.6
23.5°	1119.4	1131.5	1143.9	1154.3	1163.3	1165.6	1164.6	1159.7	1151.9	1140.6	1129.2
24°	1113.5	1125.9	1138.3	1149.1	1158.1	1160.4	1159.2	1154.3	1146.5	1135.2	1123.5
24.5°	1107.0	1119.7	1132.6	1143.4	1153.0	1155.3	1154.0	1149.1	1141.1	1129.5	1117.6
25°	1100.8	1113.5	1126.6	1137.7	1147.3	1149.6	1148.3	1143.7	1135.4	1123.8	1111.4
25.5°	1094.4	1107.5	1120.7	1132.1	1141.9	1144.2	1142.9	1138.0	1129.7	1117.6	1105.2
26°	1087.9	1101.1	1114.8	1126.1	1136.2	1138.3	1137.2	1132.1	1123.8	1111.4	1099.0
26.5°	1081.0	1094.6	1108.3	1120.2	1130.3	1132.6	1131.3	1126.1	1117.9	1105.2	1092.3
27°	1074.3	1087.9	1101.9	1114.0	1124.1	1126.6	1125.1	1120.2	1111.4	1098.8	1085.9
27.5°	1067.0	1081.0	1095.2	1107.5	1118.1	1120.4	1119.2	1114.0	1105.2	1092.3	1079.2
28°	1059.8	1074.0	1088.4	1100.8	1111.7	1113.7	1112.7	1107.5	1098.5	1085.4	1072.2
28.5°	1052.3	1067.0	1081.7	1094.4	1105.0	1107.5	1106.3	1101.1	1091.8	1078.6	1065.2
29°	1044.8	1059.5	1074.5	1087.7	1098.3	1100.6	1099.5	1094.4	1085.4	1071.7	1058.0
29.5°	1037.4	1052.3	1067.3	1080.7	1091.8	1093.9	1092.6	1087.4	1078.1	1064.7	1050.5
30°	1029.4	1044.6	1060.1	1073.5	1084.6	1086.9	1085.6	1080.5	1070.9	1057.0	1043.0
30.5°	1021.4	1037.1	1052.6	1066.0	1077.4	1079.7	1078.6	1073.5	1063.7	1049.5	1035.5
31°	1013.4	1029.1	1044.8	1058.5	1070.1	1072.2	1071.2	1066.0	1056.2	1042.0	1027.6
31.5°	1004.8	1021.1	1037.1	1051.0	1062.6	1064.7	1063.4	1058.5	1048.5	1034.3	1019.8
32°	996.6	1012.8	1029.1	1043.5	1054.9	1057.2	1055.9	1050.8	1040.7	1026.3	1011.6
32.5°	987.8	1004.6	1020.8	1035.3	1047.2	1049.2	1048.5	1043.3	1033.0	1018.3	1003.3
33°	979.3	996.1	1012.8	1027.3	1039.4	1041.5	1040.5	1035.0	1025.0	1010.0	995.0
33.5°	970.5	987.6	1004.3	1019.0	1031.2	1033.2	1032.2	1026.8	1016.7	1001.7	986.5
34°	961.5	978.8	995.8	1010.8	1022.9	1025.2	1023.9	1018.8	1008.2	993.2	977.7
34.5°	952.2	970.0	987.0	1002.0	1014.4	1016.7	1015.7	1010.3	999.7	984.5	969.0
35°	942.9	961.0	978.0	993.5	1005.9	1007.9	1006.9	1001.7	991.2	975.4	959.9
35.5°	933.6	951.7	969.2	984.5	997.1	999.4	998.1	993.0	982.1	966.7	950.9
36°	923.8	942.1	959.9	975.7	988.3	990.4	989.4	984.2	973.1	957.9	941.6
36.5°	914.5	932.8	950.7	966.4	979.3	981.6	980.6	975.2	964.1	948.6	932.3
37°	904.5	923.3	941.1	956.8	970.3	972.3	971.3	966.1	954.8	939.0	922.8
37.5°	894.4	913.5	931.6	947.6	960.7	963.0	961.7	956.8	945.2	929.7	913.5
38°	884.1	903.7	921.8	937.7	951.4	953.5	952.5	947.0	935.9	919.7	903.7
38.5°	874.3	893.6	912.2	927.9	941.9	943.9	943.2	937.5	926.1	910.4	893.6
39°	864.2	883.8	902.1	918.4	932.1	934.1	933.4	927.9	916.1	900.3	883.8
39.5°	853.6	873.5	891.8	908.1	922.0	924.3	923.3	917.9	906.3	890.3	873.5
40°	843.0	862.9	881.8	897.8	911.9	914.3	913.2	908.1	896.2	879.9	863.4
40.5°	832.5	852.6	871.2	887.4	901.6	904.2	903.2	897.5	885.9	869.9	853.1
41°	821.6	841.8	860.6	876.6	891.3	893.9	892.8	887.2	875.6	859.3	842.5
41.5°	810.5	830.9	849.8	866.3	880.5	883.3	882.5	876.6	864.7	848.7	831.9
42°	799.7	819.8	838.9	855.2	869.9	872.7	871.7	866.0	854.1	837.9	821.1
42.5°	788.6	809.2	827.8	844.1	859.0	861.9	861.1	854.9	843.0	827.3	810.3
43°	777.0	797.9	816.5	832.7	847.9	850.5	850.0	843.8	831.9	815.7	799.2
43.5°	765.6	786.0	805.1	821.1	836.3	839.4	838.7	832.5	820.6	804.3	787.8



TEST NUMBER: P776044

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	730.3	750.7	769.2	785.2	801.0	803.8	803.6	796.9	784.7	768.7	752.2
45.5°	718.4	738.5	757.4	773.1	788.9	792.2	791.7	784.7	772.6	756.6	740.1
46°	706.8	726.9	745.5	761.2	777.0	780.6	779.8	773.1	760.7	744.5	728.5
46.5°	695.4	715.6	733.9	749.6	765.4	769.5	768.7	761.5	748.6	732.9	716.6
47°	684.3	704.2	722.5	738.0	753.8	757.9	757.4	749.9	737.0	721.0	705.0
47.5°	673.2	693.1	711.2	726.7	742.4	746.5	746.0	738.5	725.6	709.6	693.9
48°	662.2	681.8	699.6	715.1	731.1	735.4	734.9	727.4	714.3	698.3	682.8
48.5°	651.3	670.4	688.5	703.7	719.7	724.9	723.8	716.1	702.7	687.2	671.7
49°	639.4	658.3	675.6	690.8	707.1	712.2	711.4	703.7	690.3	674.5	659.1
49.5°	626.5	645.4	662.2	676.9	693.6	698.5	697.8	690.0	676.6	660.9	645.9
50°	611.8	631.2	647.4	661.4	679.4	684.3	683.8	675.8	662.7	646.9	631.4
50.5°	595.6	613.6	631.2	645.6	663.7	668.1	666.8	659.8	647.2	630.7	615.2
51°	577.8	595.6	613.1	628.1	646.4	650.5	649.5	643.1	630.2	613.1	597.4
51.5°	558.7	576.5	593.8	609.5	628.1	632.0	631.4	624.2	612.3	595.1	578.5
52°	538.3	556.9	573.9	589.4	608.2	613.1	612.6	605.1	592.7	575.7	559.7
52.5°	518.4	536.7	553.3	567.4	587.8	594.0	593.5	585.3	571.8	555.6	540.1
53°	497.8	515.6	531.8	545.3	566.7	573.4	573.4	564.9	550.4	534.9	520.0
53.5°	476.9	494.4	510.2	522.8	544.7	553.3	553.5	543.5	528.2	513.8	499.3
54°	455.5	473.0	487.5	499.8	522.5	532.4	532.6	522.0	506.3	492.4	477.9
54.5°	434.3	451.6	464.7	476.9	500.1	510.9	511.5	499.8	483.8	469.6	457.0
55°	412.6	429.7	441.8	453.6	478.2	490.0	490.6	477.9	462.4	448.0	435.8
55.5°	390.9	407.2	418.8	430.7	455.7	467.3	468.6	455.2	440.0	425.3	413.9
56°	369.8	385.5	395.6	407.2	432.7	445.1	446.4	433.3	418.3	402.6	392.8
56.5°	348.6	363.6	372.6	385.5	410.3	422.7	424.0	410.8	395.6	380.4	371.1
57°	326.9	341.7	349.7	362.8	388.1	400.2	401.8	389.1	374.4	357.9	349.7
57.5°	306.3	319.7	327.5	340.6	366.2	377.5	379.3	367.2	352.5	336.5	328.2
58°	285.9	298.3	305.3	319.2	344.2	355.1	356.9	345.5	331.6	314.6	307.1
58.5°	266.0	276.9	283.3	298.0	322.8	332.9	334.7	324.4	310.9	293.7	286.4
59°	246.4	256.0	262.7	277.4	301.7	310.7	312.5	303.7	290.3	273.0	266.3
59.5°	226.8	234.8	242.3	257.0	281.0	289.3	290.0	282.8	269.7	253.1	246.7
60°	208.5	215.0	223.0	236.9	260.6	268.1	268.4	262.4	250.6	234.6	227.3
60.5°	189.9	195.3	203.3	217.3	241.5	248.0	248.5	243.1	231.5	216.0	208.0
61°	171.9	176.5	184.8	198.4	222.4	228.1	228.4	223.7	212.6	197.4	188.9
61.5°	154.3	158.4	167.2	180.4	203.3	208.0	208.2	204.4	193.5	178.8	169.5
62°	137.5	141.4	149.7	162.6	184.2	188.1	188.1	185.0	174.4	161.8	152.8
62.5°	121.5	125.2	133.4	145.5	165.2	168.2	168.0	165.7	156.9	145.0	136.0
63°	106.3	109.4	117.4	129.8	147.1	149.7	149.4	147.6	140.1	129.3	120.3
63.5°	91.3	95.0	102.7	114.1	130.1	132.4	132.1	130.6	124.1	114.1	105.5
64°	79.0	83.3	88.5	99.3	113.8	115.6	115.6	114.1	107.9	99.6	91.9
64.5°	66.6	72.0	77.2	86.4	98.3	99.9	99.6	98.1	92.1	86.2	78.7
65°	54.2	60.4	65.5	74.3	83.6	84.9	84.9	83.3	76.6	73.0	66.8
65.5°	42.1	49.0	53.9	61.9	69.4	71.2	71.2	69.2	61.9	60.9	55.7
66°	29.7	37.4	42.6	49.8	56.5	58.1	58.1	56.0	48.3	49.5	45.4





TEST NUMBER: P776044

CATALOG NUMBER: HCDJBL5125CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	9.5	16.0	18.6	20.4	29.4	30.4	30.4	28.9	21.7	26.1	24.0
68°	7.2	11.1	12.9	13.7	21.7	22.5	22.5	21.4	12.9	19.6	16.8
68.5°	5.2	9.0	8.0	8.5	13.9	14.5	14.5	13.7	4.1	12.9	9.8
69°	2.8	7.0	6.2	6.5	6.5	6.7	6.5	6.5	1.3	6.2	5.7
69.5°	0.8	4.9	4.4	4.6	3.1	3.1	3.1	3.1	0.8	3.1	2.8
70°	0.8	2.8	2.6	2.6	1.3	1.3	1.3	1.3	0.8	1.3	1.3
70.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
71.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	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°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	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	0.0	0.3	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: P776044  
CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-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: P776044

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1259.5	1259.5	1259.5	1259.5	1259.5	1259.5
0.5°	1259.3	1259.0	1259.0	1259.3	1259.0	1258.8
1°	1258.8	1258.2	1258.2	1258.5	1258.5	1258.2
1.5°	1258.2	1257.5	1257.2	1257.7	1257.7	1257.7
2°	1257.5	1256.4	1256.2	1256.7	1256.7	1257.0
2.5°	1256.7	1255.1	1255.1	1255.4	1255.7	1256.2
3°	1255.7	1254.1	1253.9	1254.4	1254.6	1255.1
3.5°	1254.6	1252.8	1252.6	1253.1	1253.6	1254.4
4°	1253.3	1251.5	1251.0	1251.5	1252.3	1253.1
4.5°	1252.1	1250.0	1249.5	1250.0	1250.8	1252.1
5°	1250.8	1248.4	1247.9	1248.4	1249.2	1250.8
5.5°	1249.2	1246.6	1246.1	1246.6	1247.7	1249.5
6°	1247.7	1244.8	1244.3	1244.8	1245.9	1247.7
6.5°	1245.9	1243.0	1242.2	1242.8	1244.3	1246.1
7°	1244.1	1241.0	1240.2	1241.0	1242.2	1244.3
7.5°	1242.2	1238.6	1238.1	1238.6	1240.2	1242.5
8°	1240.2	1236.6	1235.5	1236.3	1238.1	1240.7
8.5°	1237.9	1234.2	1233.2	1234.0	1235.8	1238.4
9°	1235.8	1231.7	1230.6	1231.4	1233.2	1236.3
9.5°	1233.2	1229.3	1228.3	1228.8	1230.9	1234.0
10°	1230.9	1226.5	1225.5	1226.2	1228.3	1231.4
10.5°	1228.3	1223.7	1222.6	1223.4	1225.5	1229.1
11°	1225.7	1220.8	1219.5	1220.6	1222.6	1226.2
11.5°	1222.9	1218.0	1216.4	1217.2	1219.8	1223.7
12°	1220.1	1214.6	1213.3	1214.1	1216.7	1220.6
12.5°	1217.0	1211.5	1210.0	1210.8	1213.6	1217.7
13°	1213.9	1208.2	1206.6	1207.4	1210.2	1214.4
13.5°	1210.5	1204.8	1203.0	1203.8	1206.6	1211.3
14°	1207.4	1201.2	1199.4	1200.2	1203.3	1207.9
14.5°	1203.8	1197.3	1195.8	1196.6	1199.4	1204.3
15°	1200.2	1193.7	1191.7	1192.7	1195.8	1200.7
15.5°	1196.6	1189.6	1187.5	1188.6	1191.7	1196.8
16°	1192.4	1185.7	1183.4	1184.4	1187.8	1193.2
16.5°	1188.8	1181.3	1179.3	1180.3	1183.7	1189.1
17°	1184.7	1177.0	1174.9	1175.7	1179.3	1185.0
17.5°	1180.3	1172.6	1170.3	1171.3	1174.9	1180.8
18°	1176.2	1167.9	1165.6	1166.6	1170.3	1176.4
18.5°	1171.5	1163.3	1160.7	1161.7	1165.6	1171.8
19°	1166.9	1158.6	1155.8	1156.8	1160.7	1167.2
19.5°	1162.3	1153.7	1150.6	1151.7	1156.1	1162.5
20°	1157.3	1148.6	1145.5	1146.5	1150.9	1157.6
20.5°	1152.4	1143.2	1140.1	1141.1	1145.5	1152.4
21°	1147.3	1137.7	1134.6	1135.4	1140.1	1147.5



TEST NUMBER: P776044

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1130.8	1120.7	1117.1	1118.1	1123.0	1131.0
23°	1125.4	1114.8	1110.9	1111.9	1117.1	1125.4
23.5°	1119.4	1108.8	1105.0	1105.7	1111.2	1119.4
24°	1113.5	1102.6	1098.5	1099.3	1104.7	1113.5
24.5°	1107.3	1095.9	1092.1	1092.8	1098.3	1107.0
25°	1101.1	1089.5	1085.4	1086.1	1091.8	1100.8
25.5°	1094.6	1083.0	1078.4	1079.4	1085.1	1094.4
26°	1088.2	1076.1	1071.4	1072.5	1078.4	1087.9
26.5°	1081.2	1068.8	1064.2	1065.2	1071.2	1081.0
27°	1074.3	1061.6	1057.2	1058.0	1064.2	1074.3
27.5°	1067.5	1054.6	1050.0	1050.5	1057.0	1067.0
28°	1060.3	1047.2	1042.3	1043.0	1049.5	1059.8
28.5°	1052.8	1039.4	1034.5	1035.3	1041.7	1052.3
29°	1045.6	1031.9	1026.8	1027.8	1034.3	1044.8
29.5°	1038.1	1023.9	1018.8	1019.6	1026.5	1037.4
30°	1030.1	1016.2	1010.8	1011.6	1018.3	1029.4
30.5°	1022.4	1007.9	1002.3	1003.0	1010.3	1021.4
31°	1014.4	999.4	994.0	994.8	1001.7	1013.4
31.5°	1006.1	991.2	985.2	986.0	993.2	1004.8
32°	997.6	982.6	976.7	977.5	984.7	996.6
32.5°	989.4	973.9	967.9	968.5	976.2	987.8
33°	980.6	965.1	958.9	959.7	967.2	979.3
33.5°	972.1	956.3	949.9	950.9	958.1	970.5
34°	963.0	947.3	940.8	941.4	949.1	961.5
34.5°	954.3	937.7	931.3	932.1	939.8	952.2
35°	944.7	928.5	921.8	922.8	930.3	942.9
35.5°	935.7	918.9	912.5	913.2	920.7	933.6
36°	926.4	909.6	902.9	903.7	911.4	923.8
36.5°	917.1	899.8	893.4	893.9	901.9	914.5
37°	907.3	890.0	883.6	884.1	891.8	904.5
37.5°	897.5	880.2	873.2	874.3	882.0	894.4
38°	887.7	870.1	863.4	864.2	871.7	884.1
38.5°	877.4	860.1	853.4	854.1	861.6	874.3
39°	867.6	849.8	843.3	843.8	851.6	864.2
39.5°	857.2	839.7	833.0	833.8	841.2	853.6
40°	846.9	828.9	822.7	823.2	830.4	843.0
40.5°	836.6	818.5	812.1	812.9	819.8	832.5
41°	825.8	807.7	801.5	802.3	809.2	821.6
41.5°	815.2	796.9	790.4	791.4	798.4	810.5
42°	804.3	786.0	779.8	780.6	787.6	799.7
42.5°	793.5	774.9	769.0	769.5	776.5	788.6
43°	782.4	763.6	757.4	758.4	764.9	777.0
43.5°	770.8	752.0	746.0	746.8	753.2	765.6



TEST NUMBER: P776044

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	735.7	716.6	711.2	711.7	717.9	730.3
45.5°	723.8	705.0	699.3	700.1	706.0	718.4
46°	712.2	693.4	687.7	688.5	694.7	706.8
46.5°	700.3	682.3	676.6	677.1	683.3	695.4
47°	689.2	671.2	665.8	666.3	672.0	684.3
47.5°	678.2	660.1	654.7	655.4	660.9	673.2
48°	667.3	649.3	643.6	644.6	650.0	662.2
48.5°	656.2	638.2	632.7	633.3	638.9	651.3
49°	644.3	626.0	620.6	621.4	627.3	639.4
49.5°	631.4	612.9	608.0	608.7	614.4	626.5
50°	617.3	597.6	593.0	594.5	600.5	611.8
50.5°	600.5	580.6	576.5	578.3	583.7	595.6
51°	582.7	562.3	558.4	560.0	566.2	577.8
51.5°	563.8	543.7	539.3	540.6	547.6	558.7
52°	545.0	523.8	519.5	520.7	527.5	538.3
52.5°	525.1	503.7	499.3	500.1	506.5	518.4
53°	505.3	482.8	477.9	478.7	485.6	497.8
53.5°	484.6	462.4	456.5	457.5	464.5	476.9
54°	464.7	441.8	435.1	435.8	442.8	455.5
54.5°	443.6	420.9	414.2	414.4	421.7	434.3
55°	423.2	400.0	392.5	392.8	400.0	412.6
55.5°	401.8	379.8	371.3	370.8	378.6	390.9
56°	381.4	359.5	350.2	348.9	357.7	369.8
56.5°	360.2	339.3	329.5	328.0	337.0	348.6
57°	339.6	318.7	308.9	306.8	316.1	326.9
57.5°	319.2	299.1	288.5	286.4	295.7	306.3
58°	299.1	279.5	268.9	266.8	275.9	285.9
58.5°	279.0	260.4	249.5	247.0	255.7	266.0
59°	259.1	241.3	230.7	228.1	237.1	246.4
59.5°	240.2	222.4	212.6	209.8	218.6	226.8
60°	221.1	204.4	194.3	192.2	200.2	208.5
60.5°	202.3	186.6	177.3	175.2	182.7	189.9
61°	183.5	169.0	160.8	159.0	165.7	171.9
61.5°	166.2	152.8	145.3	143.5	149.2	154.3
62°	149.2	136.5	130.3	129.3	133.4	137.5
62.5°	132.6	120.8	116.1	115.1	118.2	121.5
63°	116.6	106.3	102.7	101.9	103.5	106.3
63.5°	101.7	92.4	89.5	89.0	89.8	91.3
64°	87.5	81.0	79.0	78.4	78.7	79.0
64.5°	74.3	69.7	68.4	68.1	67.6	66.6
65°	62.2	58.6	57.8	57.5	56.5	54.2
65.5°	51.1	47.2	47.2	47.2	45.4	42.1
66°	40.5	36.1	38.2	38.7	36.1	29.7



TEST NUMBER: P776044

CATALOG NUMBER: HCDJBLS1525CSD-HCD61TRMB-2500lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	21.2	15.0	17.0	17.5	15.2	9.5
68°	14.7	10.3	11.9	12.1	10.6	7.2
68.5°	8.5	8.0	7.5	7.7	8.0	5.2
69°	5.2	5.7	5.7	5.9	5.7	2.8
69.5°	2.6	3.1	4.1	4.1	3.1	0.8
70°	1.3	0.8	2.3	2.3	0.8	0.8
70.5°	0.8	0.8	0.8	0.8	0.8	0.8
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	0.3	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	0.3	0.3
80.5°	0.3	0.3	0.3	0.3	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: P776044

CATALOG NUMBER: HCDJBL51525CSD-HCD61TRMB-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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Peachtree City, GA 30269

Scaled Data Report





21.5°	1141.9	1153.0	1164.3	1174.1	1182.4	1184.4	1183.4	1179.0	1171.5	1161.2	1150.9
22°	1136.7	1147.8	1159.4	1169.5	1177.7	1180.1	1178.8	1174.1	1166.9	1156.3	1145.7



44°	753.8	774.1	792.7	809.5	824.5	827.6	827.0	820.6	808.5	792.7	776.0
44.5°	741.9	762.5	781.1	797.4	812.9	816.5	814.9	809.0	796.6	780.9	764.1



66.5°	21.4	29.2	33.5	37.7	44.9	46.4	46.4	44.1	39.5	39.5	38.2
67°	14.7	21.9	25.5	28.4	37.2	38.4	38.4	36.4	30.7	32.8	31.2



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°	1141.9	1132.3	1129.0	1129.7	1134.6	1141.9
22°	1136.4	1126.6	1123.3	1124.1	1129.0	1136.7



44°	759.2	740.1	734.4	734.9	741.6	753.8
44.5°	747.6	728.5	722.8	723.3	729.8	741.9



66.5°	34.1	27.6	30.4	30.4	28.1	21.4
67°	27.6	20.6	23.2	23.5	21.2	14.7

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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)