

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: P776116

Luminaire Tested: HCDJBS1525CSD-HCD6TSQMB-2500lm-3000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B015-HCD6TSQMB)  
Test Lab:  
Issue Date: 2/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL51525CSD-HCD6TSQMB-2500lm-3000K  
Description: 6 INCH SQUARE MEDIUM MATTE BLACK TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

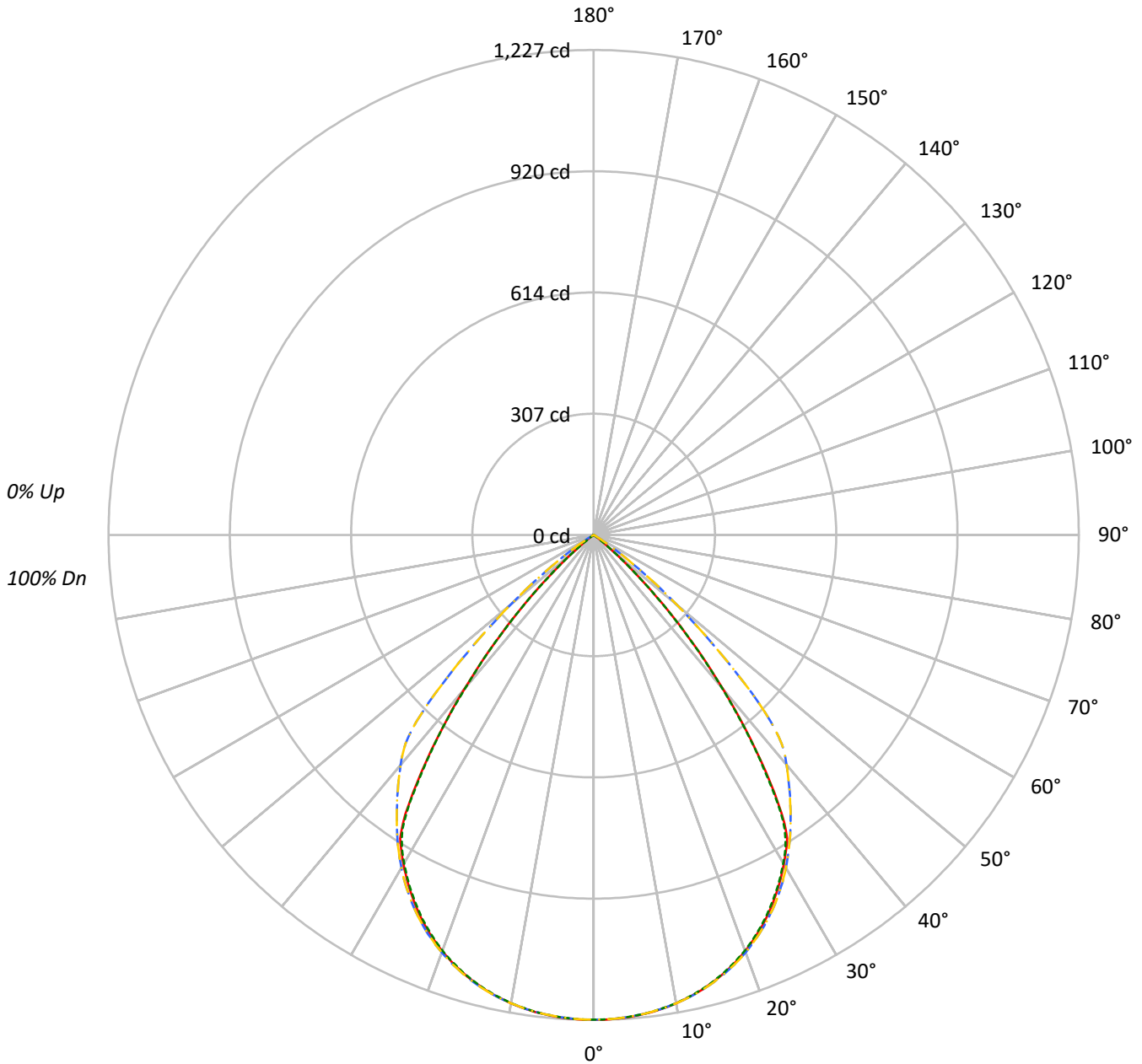
Lumens per Lamp: N/A  
Luminaire Lumens: 1769.8 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.23  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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										
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	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77					77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	70					70			
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64					64			
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

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

	0°	90°	180°	270°
0°	52808	52808	52808	52808
5°	52785	52767	52785	52767
10°	52608	52578	52608	52578
15°	52161	52117	52161	52117
20°	51331	51262	51331	51262
25°	49925	49792	49925	49792
30°	47822	47673	47822	47673
35°	41860	41586	41860	41586
40°	28580	28400	28580	28400
45°	14881	14894	14881	14894
50°	4334	4287	4334	4287
55°	128	165	128	165
60°	43	43	43	43
65°	20	20	20	20
70°	25	25	25	25
75°	0	33	0	33
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 34409 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	6.6
10°-20°	329.8	18.6
20°-30°	484.1	27.4
30°-40°	513.7	29.0
40°-50°	286.8	16.2
50°-60°	38.8	2.2
60°-70°	0.4	0.0
70°-80°	0.1	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°	930.0	52.5
0°-40°	1443.7	81.6
0°-60°	1769.2	100.0
0°-90°	1769.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1226	1226	1226	1226	1226	
5°	1221	1221	1221	1221	1221	116
15°	1170	1169	1170	1169	1170	330
25°	1051	1048	1051	1048	1051	483
35°	796	791	796	791	796	481
45°	244	245	244	245	244	195
55°	2	2	2	2	2	11
65°	0	0	0	0	0	0
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°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
0.5°	1227.0	1226.5	1226.5	1226.3	1226.5	1226.3	1226.5	1226.5	1227.0	1226.5	1226.5
1°	1226.8	1226.5	1226.3	1226.3	1226.5	1226.3	1226.3	1226.5	1226.8	1226.5	1226.3
1.5°	1226.5	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0	1226.5	1226.0	1226.0
2°	1226.0	1225.8	1225.5	1225.5	1225.8	1225.5	1225.5	1225.8	1226.0	1225.8	1225.5
2.5°	1225.5	1225.3	1225.1	1225.1	1225.3	1225.1	1225.1	1225.3	1225.5	1225.3	1225.1
3°	1225.1	1224.6	1224.6	1224.6	1224.6	1224.6	1224.6	1224.6	1225.1	1224.6	1224.6
3.5°	1224.3	1224.1	1223.8	1223.8	1223.8	1223.8	1223.8	1224.1	1224.3	1224.1	1223.8
4°	1223.6	1223.1	1222.8	1222.8	1223.1	1222.8	1222.8	1223.1	1223.6	1223.1	1222.8
4.5°	1222.6	1222.1	1222.1	1221.8	1222.1	1221.8	1222.1	1222.1	1222.6	1222.1	1222.1
5°	1221.3	1221.1	1220.9	1220.9	1220.9	1220.9	1220.9	1221.1	1221.3	1221.1	1220.9
5.5°	1220.1	1219.9	1219.6	1219.6	1219.6	1219.6	1219.6	1219.9	1220.1	1219.9	1219.6
6°	1218.9	1218.6	1218.4	1218.1	1218.4	1218.1	1218.4	1218.6	1218.9	1218.6	1218.4
6.5°	1217.4	1217.1	1216.9	1216.9	1216.9	1216.9	1216.9	1217.1	1217.4	1217.1	1216.9
7°	1215.9	1215.7	1215.4	1215.2	1215.2	1215.2	1215.4	1215.7	1215.9	1215.7	1215.4
7.5°	1214.2	1213.9	1213.7	1213.4	1213.4	1213.4	1213.7	1213.9	1214.2	1213.9	1213.7
8°	1212.2	1212.0	1212.0	1211.7	1211.7	1211.7	1212.0	1212.0	1212.2	1212.0	1212.0
8.5°	1210.2	1210.0	1210.0	1209.7	1209.5	1209.7	1210.0	1210.0	1210.2	1210.0	1210.0
9°	1208.0	1208.0	1207.8	1207.5	1207.3	1207.5	1207.8	1208.0	1208.0	1208.0	1207.8
9.5°	1205.8	1205.8	1205.5	1205.3	1205.0	1205.3	1205.5	1205.8	1205.8	1205.8	1205.5
10°	1203.3	1203.3	1203.3	1202.8	1202.6	1202.8	1203.3	1203.3	1203.3	1203.3	1203.3
10.5°	1200.8	1200.8	1200.8	1200.3	1200.1	1200.3	1200.8	1200.8	1200.8	1200.8	1200.8
11°	1197.9	1198.1	1198.1	1197.6	1197.1	1197.6	1198.1	1198.1	1197.9	1198.1	1198.1
11.5°	1195.2	1195.4	1195.4	1194.7	1194.2	1194.7	1195.4	1195.4	1195.2	1195.4	1195.4
12°	1192.2	1192.4	1192.4	1191.7	1191.2	1191.7	1192.4	1192.4	1192.2	1192.4	1192.4
12.5°	1189.0	1189.2	1189.5	1188.5	1188.0	1188.5	1189.5	1189.2	1189.0	1189.2	1189.5
13°	1185.5	1186.0	1186.3	1185.3	1184.5	1185.3	1186.3	1186.0	1185.5	1186.0	1186.3
13.5°	1182.1	1182.6	1182.8	1181.8	1181.1	1181.8	1182.8	1182.6	1182.1	1182.6	1182.8
14°	1178.1	1178.8	1179.3	1178.1	1177.4	1178.1	1179.3	1178.8	1178.1	1178.8	1179.3
14.5°	1174.4	1175.1	1175.6	1174.4	1173.4	1174.4	1175.6	1175.1	1174.4	1175.1	1175.6
15°	1170.2	1171.2	1171.7	1170.4	1169.2	1170.4	1171.7	1171.2	1170.2	1171.2	1171.7
15.5°	1166.2	1167.0	1167.7	1166.2	1165.0	1166.2	1167.7	1167.0	1166.2	1167.0	1167.7
16°	1161.8	1162.8	1163.5	1162.0	1160.6	1162.0	1163.5	1162.8	1161.8	1162.8	1163.5
16.5°	1157.3	1158.3	1159.1	1157.6	1156.1	1157.6	1159.1	1158.3	1157.3	1158.3	1159.1
17°	1152.4	1153.9	1154.6	1152.9	1151.2	1152.9	1154.6	1153.9	1152.4	1153.9	1154.6
17.5°	1147.7	1148.9	1149.9	1148.2	1146.2	1148.2	1149.9	1148.9	1147.7	1148.9	1149.9
18°	1142.5	1144.0	1145.0	1143.0	1141.0	1143.0	1145.0	1144.0	1142.5	1144.0	1145.0
18.5°	1137.3	1139.1	1140.1	1138.1	1135.9	1138.1	1140.1	1139.1	1137.3	1139.1	1140.1
19°	1131.9	1133.6	1134.9	1132.4	1130.2	1132.4	1134.9	1133.6	1131.9	1133.6	1134.9
19.5°	1126.2	1128.2	1129.4	1127.0	1124.7	1127.0	1129.4	1128.2	1126.2	1128.2	1129.4
20°	1120.3	1122.5	1124.0	1121.3	1118.8	1121.3	1124.0	1122.5	1120.3	1122.5	1124.0
20.5°	1114.4	1116.8	1118.3	1115.3	1112.6	1115.3	1118.3	1116.8	1114.4	1116.8	1118.3
21°	1108.2	1110.7	1112.4	1109.4	1106.2	1109.4	1112.4	1110.7	1108.2	1110.7	1112.4



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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°	1088.2	1091.4	1093.4	1089.9	1085.9	1089.9	1093.4	1091.4	1088.2	1091.4	1093.4
23°	1081.2	1084.5	1086.7	1083.0	1078.8	1083.0	1086.7	1084.5	1081.2	1084.5	1086.7
23.5°	1074.1	1077.5	1080.0	1075.8	1071.4	1075.8	1080.0	1077.5	1074.1	1077.5	1080.0
24°	1066.4	1070.4	1072.8	1068.4	1064.0	1068.4	1072.8	1070.4	1066.4	1070.4	1072.8
24.5°	1058.8	1062.7	1065.7	1061.0	1056.3	1061.0	1065.7	1062.7	1058.8	1062.7	1065.7
25°	1050.9	1055.1	1058.0	1053.1	1048.1	1053.1	1058.0	1055.1	1050.9	1055.1	1058.0
25.5°	1042.9	1047.1	1050.6	1045.2	1040.0	1045.2	1050.6	1047.1	1042.9	1047.1	1050.6
26°	1034.8	1039.2	1042.7	1037.3	1031.6	1037.3	1042.7	1039.2	1034.8	1039.2	1042.7
26.5°	1026.4	1030.8	1034.5	1028.9	1023.2	1028.9	1034.5	1030.8	1026.4	1030.8	1034.5
27°	1017.5	1022.7	1026.4	1020.5	1014.5	1020.5	1026.4	1022.7	1017.5	1022.7	1026.4
27.5°	1008.6	1014.0	1018.0	1011.6	1005.9	1011.6	1018.0	1014.0	1008.6	1014.0	1018.0
28°	999.7	1005.1	1009.3	1002.9	996.5	1002.9	1009.3	1005.1	999.7	1005.1	1009.3
28.5°	990.6	996.2	1000.4	994.0	987.4	994.0	1000.4	996.2	990.6	996.2	1000.4
29°	981.2	987.4	991.3	984.9	978.0	984.9	991.3	987.4	981.2	987.4	991.3
29.5°	971.8	978.0	982.2	975.7	968.6	975.7	982.2	978.0	971.8	978.0	982.2
30°	961.9	968.6	972.5	966.4	958.9	966.4	972.5	968.6	961.9	968.6	972.5
30.5°	952.3	959.2	962.9	957.0	949.1	957.0	962.9	959.2	952.3	959.2	962.9
31°	942.1	949.6	953.0	947.3	938.9	947.3	953.0	949.6	942.1	949.6	953.0
31.5°	932.0	939.9	942.9	937.4	928.5	937.4	942.9	939.9	932.0	939.9	942.9
32°	921.6	929.8	932.7	927.6	915.5	927.6	932.7	929.8	921.6	929.8	932.7
32.5°	910.8	919.7	922.4	917.4	902.1	917.4	922.4	919.7	910.8	919.7	922.4
33°	893.2	909.5	911.7	907.3	887.5	907.3	911.7	909.5	893.2	909.5	911.7
33.5°	874.2	899.4	901.1	896.9	867.8	896.9	901.1	899.4	874.2	899.4	901.1
34°	851.0	889.0	890.2	884.3	845.8	884.3	890.2	889.0	851.0	889.0	890.2
34.5°	824.0	877.9	879.4	870.5	819.6	870.5	879.4	877.9	824.0	877.9	879.4
35°	796.4	861.3	868.5	856.4	791.2	856.4	868.5	861.3	796.4	861.3	868.5
35.5°	768.7	845.0	857.6	838.6	762.5	838.6	857.6	845.0	768.7	845.0	857.6
36°	740.0	823.0	846.5	818.8	734.1	818.8	846.5	823.0	740.0	823.0	846.5
36.5°	711.1	799.8	835.6	794.9	706.2	794.9	835.6	799.8	711.1	799.8	835.6
37°	681.7	773.4	824.8	769.4	677.5	769.4	824.8	773.4	681.7	773.4	824.8
37.5°	653.3	746.9	813.7	742.5	649.3	742.5	813.7	746.9	653.3	746.9	813.7
38°	623.6	719.8	802.8	715.1	620.9	715.1	802.8	719.8	623.6	719.8	802.8
38.5°	595.0	692.6	791.7	688.1	592.3	688.1	791.7	692.6	595.0	692.6	791.7
39°	566.3	664.9	781.0	661.4	563.1	661.4	781.0	664.9	566.3	664.9	781.0
39.5°	537.7	637.7	770.2	634.8	534.2	634.8	770.2	637.7	537.7	637.7	770.2
40°	508.5	610.1	759.3	607.8	505.3	607.8	759.3	610.1	508.5	610.1	759.3
40.5°	480.1	582.9	748.4	580.7	477.1	580.7	748.4	582.9	480.1	582.9	748.4
41°	452.4	555.7	737.3	553.7	449.2	553.7	737.3	555.7	452.4	555.7	737.3
41.5°	424.7	528.5	724.9	526.3	422.5	526.3	724.9	528.5	424.7	528.5	724.9
42°	397.1	501.3	711.1	499.1	395.6	499.1	711.1	501.3	397.1	501.3	711.1
42.5°	370.6	474.7	693.1	472.2	368.9	472.2	693.1	474.7	370.6	474.7	693.1
43°	344.2	447.7	672.6	445.7	343.0	445.7	672.6	447.7	344.2	447.7	672.6
43.5°	318.5	421.5	650.6	419.8	317.0	419.8	650.6	421.5	318.5	421.5	650.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	244.4	345.2	565.1	344.2	244.6	344.2	565.1	345.2	244.4	345.2	565.1
45.5°	222.1	320.5	533.0	319.7	222.1	319.7	533.0	320.5	222.1	320.5	533.0
46°	200.4	296.3	501.1	295.5	200.4	295.5	501.1	296.3	200.4	296.3	501.1
46.5°	178.9	272.5	469.7	271.8	178.4	271.8	469.7	272.5	178.9	272.5	469.7
47°	157.9	249.3	438.3	249.3	157.1	249.3	438.3	249.3	157.9	249.3	438.3
47.5°	137.6	227.3	408.4	227.6	137.9	227.6	408.4	227.3	137.6	227.3	408.4
48°	119.8	206.1	379.5	206.1	119.8	206.1	379.5	206.1	119.8	206.1	379.5
48.5°	103.5	185.3	351.6	185.1	103.3	185.1	351.6	185.3	103.5	185.3	351.6
49°	89.9	164.8	324.4	164.6	87.7	164.6	324.4	164.8	89.9	164.8	324.4
49.5°	77.1	145.0	298.0	145.0	75.6	145.0	298.0	145.0	77.1	145.0	298.0
50°	64.7	127.0	272.3	127.0	64.0	127.0	272.3	127.0	64.7	127.0	272.3
50.5°	53.4	111.2	247.6	109.7	52.9	109.7	247.6	111.2	53.4	111.2	247.6
51°	43.7	96.1	225.3	93.9	43.7	93.9	225.3	96.1	43.7	96.1	225.3
51.5°	35.1	83.0	203.6	81.0	34.3	81.0	203.6	83.0	35.1	83.0	203.6
52°	27.9	70.2	182.3	68.7	26.4	68.7	182.3	70.2	27.9	70.2	182.3
52.5°	21.0	58.3	161.6	56.8	18.8	56.8	161.6	58.3	21.0	58.3	161.6
53°	14.1	47.7	142.3	46.7	11.6	46.7	142.3	47.7	14.1	47.7	142.3
53.5°	9.4	38.1	124.8	36.6	6.9	36.6	124.8	38.1	9.4	38.1	124.8
54°	4.4	30.6	108.5	28.4	4.0	28.4	108.5	30.6	4.4	30.6	108.5
54.5°	2.7	23.5	94.4	21.0	3.0	21.0	94.4	23.5	2.7	23.5	94.4
55°	1.7	16.3	81.0	13.8	2.2	13.8	81.0	16.3	1.7	16.3	81.0
55.5°	0.7	10.4	68.7	9.4	1.5	9.4	68.7	10.4	0.7	10.4	68.7
56°	0.5	4.4	57.3	6.9	0.7	6.9	57.3	4.4	0.5	4.4	57.3
56.5°	0.5	2.2	46.5	4.2	0.5	4.2	46.5	2.2	0.5	2.2	46.5
57°	0.5	1.2	37.8	2.2	0.5	2.2	37.8	1.2	0.5	1.2	37.8
57.5°	0.5	1.0	30.4	1.0	0.5	1.0	30.4	1.0	0.5	1.0	30.4
58°	0.5	0.5	24.5	0.5	0.5	0.5	24.5	0.5	0.5	0.5	24.5
58.5°	0.5	0.5	19.0	0.5	0.5	0.5	19.0	0.5	0.5	0.5	19.0
59°	0.5	0.5	14.1	0.5	0.5	0.5	14.1	0.5	0.5	0.5	14.1
59.5°	0.5	0.5	10.4	0.5	0.5	0.5	10.4	0.5	0.5	0.5	10.4
60°	0.5	0.5	7.2	0.5	0.5	0.5	7.2	0.5	0.5	0.5	7.2
60.5°	0.5	0.5	4.9	0.5	0.5	0.5	4.9	0.5	0.5	0.5	4.9
61°	0.5	0.5	3.2	0.5	0.5	0.5	3.2	0.5	0.5	0.5	3.2
61.5°	0.5	0.5	2.0	0.5	0.5	0.5	2.0	0.5	0.5	0.5	2.0
62°	0.2	0.2	1.0	0.5	0.5	0.5	1.0	0.2	0.2	0.2	1.0
62.5°	0.2	0.2	0.7	0.2	0.2	0.2	0.7	0.2	0.2	0.2	0.7
63°	0.2	0.2	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.5
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2





TEST NUMBER: P776116  
 CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMB-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
75°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	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: P776116  
CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMB-2500lm-3000K

**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: P776116

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMB-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
0.5°	1226.3	1226.5	1226.3	1226.5	1226.5	1227.0
1°	1226.3	1226.5	1226.3	1226.3	1226.5	1226.8
1.5°	1226.0	1226.0	1226.0	1226.0	1226.0	1226.5
2°	1225.5	1225.8	1225.5	1225.5	1225.8	1226.0
2.5°	1225.1	1225.3	1225.1	1225.1	1225.3	1225.5
3°	1224.6	1224.6	1224.6	1224.6	1224.6	1225.1
3.5°	1223.8	1223.8	1223.8	1223.8	1224.1	1224.3
4°	1222.8	1223.1	1222.8	1222.8	1223.1	1223.6
4.5°	1221.8	1222.1	1221.8	1222.1	1222.1	1222.6
5°	1220.9	1220.9	1220.9	1220.9	1221.1	1221.3
5.5°	1219.6	1219.6	1219.6	1219.6	1219.9	1220.1
6°	1218.1	1218.4	1218.1	1218.4	1218.6	1218.9
6.5°	1216.9	1216.9	1216.9	1216.9	1217.1	1217.4
7°	1215.2	1215.2	1215.2	1215.4	1215.7	1215.9
7.5°	1213.4	1213.4	1213.4	1213.7	1213.9	1214.2
8°	1211.7	1211.7	1211.7	1212.0	1212.0	1212.2
8.5°	1209.7	1209.5	1209.7	1210.0	1210.0	1210.2
9°	1207.5	1207.3	1207.5	1207.8	1208.0	1208.0
9.5°	1205.3	1205.0	1205.3	1205.5	1205.8	1205.8
10°	1202.8	1202.6	1202.8	1203.3	1203.3	1203.3
10.5°	1200.3	1200.1	1200.3	1200.8	1200.8	1200.8
11°	1197.6	1197.1	1197.6	1198.1	1198.1	1197.9
11.5°	1194.7	1194.2	1194.7	1195.4	1195.4	1195.2
12°	1191.7	1191.2	1191.7	1192.4	1192.4	1192.2
12.5°	1188.5	1188.0	1188.5	1189.5	1189.2	1189.0
13°	1185.3	1184.5	1185.3	1186.3	1186.0	1185.5
13.5°	1181.8	1181.1	1181.8	1182.8	1182.6	1182.1
14°	1178.1	1177.4	1178.1	1179.3	1178.8	1178.1
14.5°	1174.4	1173.4	1174.4	1175.6	1175.1	1174.4
15°	1170.4	1169.2	1170.4	1171.7	1171.2	1170.2
15.5°	1166.2	1165.0	1166.2	1167.7	1167.0	1166.2
16°	1162.0	1160.6	1162.0	1163.5	1162.8	1161.8
16.5°	1157.6	1156.1	1157.6	1159.1	1158.3	1157.3
17°	1152.9	1151.2	1152.9	1154.6	1153.9	1152.4
17.5°	1148.2	1146.2	1148.2	1149.9	1148.9	1147.7
18°	1143.0	1141.0	1143.0	1145.0	1144.0	1142.5
18.5°	1138.1	1135.9	1138.1	1140.1	1139.1	1137.3
19°	1132.4	1130.2	1132.4	1134.9	1133.6	1131.9
19.5°	1127.0	1124.7	1127.0	1129.4	1128.2	1126.2
20°	1121.3	1118.8	1121.3	1124.0	1122.5	1120.3
20.5°	1115.3	1112.6	1115.3	1118.3	1116.8	1114.4
21°	1109.4	1106.2	1109.4	1112.4	1110.7	1108.2



TEST NUMBER: P776116

CATALOG NUMBER: HCDJBL51525CSD-HCD6TSQMB-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1089.9	1085.9	1089.9	1093.4	1091.4	1088.2
23°	1083.0	1078.8	1083.0	1086.7	1084.5	1081.2
23.5°	1075.8	1071.4	1075.8	1080.0	1077.5	1074.1
24°	1068.4	1064.0	1068.4	1072.8	1070.4	1066.4
24.5°	1061.0	1056.3	1061.0	1065.7	1062.7	1058.8
25°	1053.1	1048.1	1053.1	1058.0	1055.1	1050.9
25.5°	1045.2	1040.0	1045.2	1050.6	1047.1	1042.9
26°	1037.3	1031.6	1037.3	1042.7	1039.2	1034.8
26.5°	1028.9	1023.2	1028.9	1034.5	1030.8	1026.4
27°	1020.5	1014.5	1020.5	1026.4	1022.7	1017.5
27.5°	1011.6	1005.9	1011.6	1018.0	1014.0	1008.6
28°	1002.9	996.5	1002.9	1009.3	1005.1	999.7
28.5°	994.0	987.4	994.0	1000.4	996.2	990.6
29°	984.9	978.0	984.9	991.3	987.4	981.2
29.5°	975.7	968.6	975.7	982.2	978.0	971.8
30°	966.4	958.9	966.4	972.5	968.6	961.9
30.5°	957.0	949.1	957.0	962.9	959.2	952.3
31°	947.3	938.9	947.3	953.0	949.6	942.1
31.5°	937.4	928.5	937.4	942.9	939.9	932.0
32°	927.6	915.5	927.6	932.7	929.8	921.6
32.5°	917.4	902.1	917.4	922.4	919.7	910.8
33°	907.3	887.5	907.3	911.7	909.5	893.2
33.5°	896.9	867.8	896.9	901.1	899.4	874.2
34°	884.3	845.8	884.3	890.2	889.0	851.0
34.5°	870.5	819.6	870.5	879.4	877.9	824.0
35°	856.4	791.2	856.4	868.5	861.3	796.4
35.5°	838.6	762.5	838.6	857.6	845.0	768.7
36°	818.8	734.1	818.8	846.5	823.0	740.0
36.5°	794.9	706.2	794.9	835.6	799.8	711.1
37°	769.4	677.5	769.4	824.8	773.4	681.7
37.5°	742.5	649.3	742.5	813.7	746.9	653.3
38°	715.1	620.9	715.1	802.8	719.8	623.6
38.5°	688.1	592.3	688.1	791.7	692.6	595.0
39°	661.4	563.1	661.4	781.0	664.9	566.3
39.5°	634.8	534.2	634.8	770.2	637.7	537.7
40°	607.8	505.3	607.8	759.3	610.1	508.5
40.5°	580.7	477.1	580.7	748.4	582.9	480.1
41°	553.7	449.2	553.7	737.3	555.7	452.4
41.5°	526.3	422.5	526.3	724.9	528.5	424.7
42°	499.1	395.6	499.1	711.1	501.3	397.1
42.5°	472.2	368.9	472.2	693.1	474.7	370.6
43°	445.7	343.0	445.7	672.6	447.7	344.2
43.5°	419.8	317.0	419.8	650.6	421.5	318.5



TEST NUMBER: P776116

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMB-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	344.2	244.6	344.2	565.1	345.2	244.4
45.5°	319.7	222.1	319.7	533.0	320.5	222.1
46°	295.5	200.4	295.5	501.1	296.3	200.4
46.5°	271.8	178.4	271.8	469.7	272.5	178.9
47°	249.3	157.1	249.3	438.3	249.3	157.9
47.5°	227.6	137.9	227.6	408.4	227.3	137.6
48°	206.1	119.8	206.1	379.5	206.1	119.8
48.5°	185.1	103.3	185.1	351.6	185.3	103.5
49°	164.6	87.7	164.6	324.4	164.8	89.9
49.5°	145.0	75.6	145.0	298.0	145.0	77.1
50°	127.0	64.0	127.0	272.3	127.0	64.7
50.5°	109.7	52.9	109.7	247.6	111.2	53.4
51°	93.9	43.7	93.9	225.3	96.1	43.7
51.5°	81.0	34.3	81.0	203.6	83.0	35.1
52°	68.7	26.4	68.7	182.3	70.2	27.9
52.5°	56.8	18.8	56.8	161.6	58.3	21.0
53°	46.7	11.6	46.7	142.3	47.7	14.1
53.5°	36.6	6.9	36.6	124.8	38.1	9.4
54°	28.4	4.0	28.4	108.5	30.6	4.4
54.5°	21.0	3.0	21.0	94.4	23.5	2.7
55°	13.8	2.2	13.8	81.0	16.3	1.7
55.5°	9.4	1.5	9.4	68.7	10.4	0.7
56°	6.9	0.7	6.9	57.3	4.4	0.5
56.5°	4.2	0.5	4.2	46.5	2.2	0.5
57°	2.2	0.5	2.2	37.8	1.2	0.5
57.5°	1.0	0.5	1.0	30.4	1.0	0.5
58°	0.5	0.5	0.5	24.5	0.5	0.5
58.5°	0.5	0.5	0.5	19.0	0.5	0.5
59°	0.5	0.5	0.5	14.1	0.5	0.5
59.5°	0.5	0.5	0.5	10.4	0.5	0.5
60°	0.5	0.5	0.5	7.2	0.5	0.5
60.5°	0.5	0.5	0.5	4.9	0.5	0.5
61°	0.5	0.5	0.5	3.2	0.5	0.5
61.5°	0.5	0.5	0.5	2.0	0.5	0.5
62°	0.5	0.5	0.5	1.0	0.2	0.2
62.5°	0.2	0.2	0.2	0.7	0.2	0.2
63°	0.2	0.2	0.2	0.5	0.2	0.2
63.5°	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P776116

CATALOG NUMBER: HCDJBLS1525CSD-HCD6TSQMB-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.2	0.2	0.2	0.2	0.2	0.2
72°	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.0	0.2	0.2
75°	0.2	0.2	0.2	0.0	0.0	0.0
75.5°	0.2	0.2	0.2	0.0	0.0	0.0
76°	0.0	0.2	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	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: P776116

CATALOG NUMBER: HCDJBL1525CSD-HCD6TSQMB-2500lm-3000K

**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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Peachtree City, GA 30269

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°	1101.8	1104.5	1106.2	1103.0	1099.5	1103.0	1106.2	1104.5	1101.8	1104.5	1106.2
22°	1095.1	1098.0	1099.8	1096.6	1092.9	1096.6	1099.8	1098.0	1095.1	1098.0	1099.8



44°	293.0	395.3	623.9	394.1	291.8	394.1	623.9	395.3	293.0	395.3	623.9
44.5°	268.6	370.1	595.0	369.1	267.6	369.1	595.0	370.1	268.6	370.1	595.0



66.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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°	1103.0	1099.5	1103.0	1106.2	1104.5	1101.8
22°	1096.6	1092.9	1096.6	1099.8	1098.0	1095.1



44°	394.1	291.8	394.1	623.9	395.3	293.0
44.5°	369.1	267.6	369.1	595.0	370.1	268.6

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66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2

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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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(END OF REPORT)