

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: P776015

Luminaire Tested: HCDJBL51525CSD-HCD4TSQMB-2500lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B006-HCD4TSQMB)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD4TSQMB-2500lm-2700K
Description: 4 INCH SQUARE MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

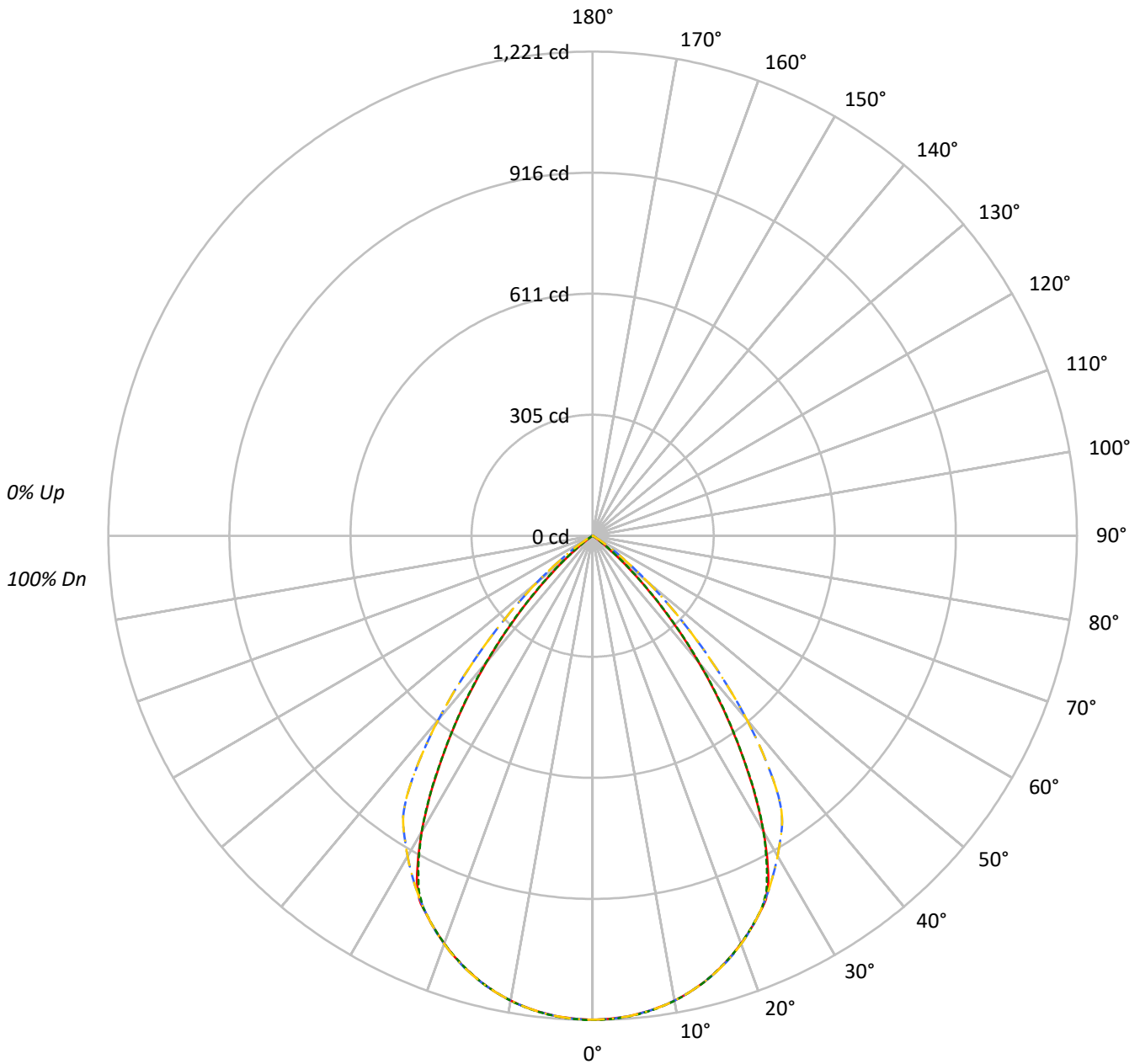
Lumens per Lamp: N/A
Luminaire Lumens: 1614.6 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.14
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85			
3	100	93	88	84	98	92	87	83	89	85	81	87	83	80	84	82	79	77			
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71			
5	89	80	73	68	87	79	73	68	77	72	67	75	71	67	74	70	66	65			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55			
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50			
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47			
10	67	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	120617	120617	120617	120617
5°	120334	120413	120334	120413
10°	119447	119497	119447	119497
15°	117740	117770	117740	117770
20°	115094	115042	115094	115042
25°	111656	111209	111656	111209
30°	98337	98303	98337	98303
35°	76791	77056	76791	77056
40°	53599	54128	53599	54128
45°	30417	31228	30417	31228
50°	12102	12994	12102	12994
55°	1792	2292	1792	2292
60°	376	376	376	376
65°	281	281	281	281
70°	202	202	202	202
75°	191	191	191	191
80°	114	114	114	114
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 51441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	7.1
10°-20°	324.0	20.1
20°-30°	466.7	28.9
30°-40°	440.4	27.3
40°-50°	227.0	14.1
50°-60°	39.6	2.5
60°-70°	1.4	0.1
70°-80°	0.4	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°	905.7	56.1
0°-40°	1346.1	83.4
0°-60°	1612.7	99.9
0°-90°	1614.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1614.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1220	1220	1220	1220	1220	
5°	1213	1214	1213	1214	1213	115
15°	1151	1151	1151	1151	1151	324
25°	1024	1020	1024	1020	1024	463
35°	636	639	636	639	636	395
45°	218	223	218	223	218	172
55°	10	13	10	13	10	19
65°	1	1	1	1	1	1
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°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
0.5°	1220.1	1220.1	1220.1	1220.3	1221.1	1220.3	1220.1	1220.1	1220.1	1220.1	1220.1
1°	1219.9	1219.9	1219.9	1220.1	1220.8	1220.1	1219.9	1219.9	1219.9	1219.9	1219.9
1.5°	1219.4	1219.6	1219.6	1219.6	1220.3	1219.6	1219.6	1219.6	1219.4	1219.6	1219.6
2°	1218.9	1218.9	1219.1	1219.1	1219.9	1219.1	1219.1	1218.9	1218.9	1218.9	1219.1
2.5°	1218.2	1218.2	1218.4	1218.6	1219.1	1218.6	1218.4	1218.2	1218.2	1218.2	1218.4
3°	1217.4	1217.4	1217.7	1217.7	1218.4	1217.7	1217.7	1217.4	1217.4	1217.4	1217.7
3.5°	1216.5	1216.5	1216.7	1216.7	1217.4	1216.7	1216.7	1216.5	1216.5	1216.5	1216.7
4°	1215.5	1215.5	1215.5	1215.7	1216.2	1215.7	1215.5	1215.5	1215.5	1215.5	1215.5
4.5°	1214.3	1214.3	1214.3	1214.3	1215.0	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3
5°	1212.8	1212.8	1212.8	1212.8	1213.6	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8
5.5°	1211.1	1211.1	1211.4	1211.4	1211.9	1211.4	1211.4	1211.1	1211.1	1211.1	1211.4
6°	1209.4	1209.4	1209.4	1209.7	1210.2	1209.7	1209.4	1209.4	1209.4	1209.4	1209.4
6.5°	1207.5	1207.5	1207.8	1207.8	1208.2	1207.8	1207.8	1207.5	1207.5	1207.5	1207.8
7°	1205.6	1205.6	1205.6	1205.8	1206.3	1205.8	1205.6	1205.6	1205.6	1205.6	1205.6
7.5°	1203.4	1203.4	1203.4	1203.4	1204.1	1203.4	1203.4	1203.4	1203.4	1203.4	1203.4
8°	1201.0	1201.0	1201.2	1201.2	1201.7	1201.2	1201.2	1201.0	1201.0	1201.0	1201.2
8.5°	1198.6	1198.6	1198.6	1198.6	1199.0	1198.6	1198.6	1198.6	1198.6	1198.6	1198.6
9°	1195.9	1195.9	1195.9	1195.9	1196.4	1195.9	1195.9	1195.9	1195.9	1195.9	1195.9
9.5°	1193.0	1193.0	1193.0	1193.0	1193.5	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0
10°	1190.1	1190.1	1190.1	1190.1	1190.6	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1
10.5°	1186.9	1186.9	1186.9	1186.7	1187.4	1186.7	1186.9	1186.9	1186.9	1186.9	1186.9
11°	1183.5	1183.5	1183.8	1183.5	1184.0	1183.5	1183.8	1183.5	1183.5	1183.5	1183.8
11.5°	1180.2	1180.2	1180.2	1179.9	1180.4	1179.9	1180.2	1180.2	1180.2	1180.2	1180.2
12°	1176.5	1176.5	1176.5	1176.3	1176.8	1176.3	1176.5	1176.5	1176.5	1176.5	1176.5
12.5°	1172.4	1172.7	1172.7	1172.4	1172.7	1172.4	1172.7	1172.7	1172.4	1172.7	1172.7
13°	1168.5	1168.8	1168.8	1168.3	1168.8	1168.3	1168.8	1168.8	1168.5	1168.8	1168.8
13.5°	1164.4	1164.4	1164.7	1164.2	1164.7	1164.2	1164.7	1164.4	1164.4	1164.4	1164.7
14°	1160.1	1160.3	1160.3	1159.8	1160.1	1159.8	1160.3	1160.3	1160.1	1160.3	1160.3
14.5°	1155.5	1155.7	1155.9	1155.5	1155.5	1155.5	1155.9	1155.7	1155.5	1155.7	1155.9
15°	1150.6	1151.1	1151.1	1150.6	1150.9	1150.6	1151.1	1151.1	1150.6	1151.1	1151.1
15.5°	1145.8	1146.3	1146.3	1145.8	1145.8	1145.8	1146.3	1146.3	1145.8	1146.3	1146.3
16°	1140.7	1141.2	1141.4	1140.7	1140.7	1140.7	1141.4	1141.2	1140.7	1141.2	1141.4
16.5°	1135.6	1135.9	1136.3	1135.6	1135.4	1135.6	1136.3	1135.9	1135.6	1135.9	1136.3
17°	1130.3	1130.5	1131.0	1130.0	1130.0	1130.0	1131.0	1130.5	1130.3	1130.5	1131.0
17.5°	1124.5	1125.0	1125.4	1124.5	1124.5	1124.5	1125.4	1125.0	1124.5	1125.0	1125.4
18°	1118.9	1119.2	1119.6	1118.9	1118.7	1118.9	1119.6	1119.2	1118.9	1119.2	1119.6
18.5°	1113.1	1113.3	1113.8	1112.9	1112.6	1112.9	1113.8	1113.3	1113.1	1113.3	1113.8
19°	1106.8	1107.3	1107.8	1106.8	1106.3	1106.8	1107.8	1107.3	1106.8	1107.3	1107.8
19.5°	1100.8	1101.0	1101.5	1100.5	1100.3	1100.5	1101.5	1101.0	1100.8	1101.0	1101.5
20°	1094.2	1094.7	1095.2	1094.0	1093.7	1094.0	1095.2	1094.7	1094.2	1094.7	1095.2
20.5°	1087.9	1088.2	1088.7	1087.4	1087.2	1087.4	1088.7	1088.2	1087.9	1088.2	1088.7
21°	1081.1	1081.4	1081.9	1080.7	1080.4	1080.7	1081.9	1081.4	1081.1	1081.4	1081.9



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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°	1060.3	1060.3	1060.6	1059.6	1059.6	1059.6	1060.6	1060.3	1060.3	1060.3	1060.6
23°	1053.1	1053.1	1053.1	1052.3	1052.1	1052.3	1053.1	1053.1	1053.1	1053.1	1053.1
23.5°	1045.8	1045.8	1045.3	1044.8	1044.8	1044.8	1045.3	1045.8	1045.8	1045.8	1045.3
24°	1038.3	1038.3	1037.6	1037.3	1037.8	1037.3	1037.6	1038.3	1038.3	1038.3	1037.6
24.5°	1030.8	1030.6	1029.6	1029.6	1030.3	1029.6	1029.6	1030.6	1030.8	1030.6	1029.6
25°	1023.8	1022.6	1021.4	1021.6	1019.7	1021.6	1021.4	1022.6	1023.8	1022.6	1021.4
25.5°	1015.5	1014.8	1013.1	1013.8	1009.5	1013.8	1013.1	1014.8	1015.5	1014.8	1013.1
26°	1001.7	1006.8	1004.6	1006.1	999.3	1006.1	1004.6	1006.8	1001.7	1006.8	1004.6
26.5°	990.1	998.8	996.2	997.9	984.6	997.9	996.2	998.8	990.1	998.8	996.2
27°	976.1	991.3	987.5	986.5	967.4	986.5	987.5	991.3	976.1	991.3	987.5
27.5°	958.7	980.9	978.5	976.1	951.9	976.1	978.5	980.9	958.7	980.9	978.5
28°	940.3	967.1	969.5	964.9	934.7	964.9	969.5	967.1	940.3	967.1	969.5
28.5°	921.6	955.3	960.6	949.2	916.8	949.2	960.6	955.3	921.6	955.3	960.6
29°	902.0	940.5	951.4	932.7	899.3	932.7	951.4	940.5	902.0	940.5	951.4
29.5°	882.2	923.1	942.2	916.8	880.5	916.8	942.2	923.1	882.2	923.1	942.2
30°	861.6	905.2	932.7	899.8	861.3	899.8	932.7	905.2	861.6	905.2	932.7
30.5°	840.5	886.3	923.5	882.2	841.5	882.2	923.5	886.3	840.5	886.3	923.5
31°	818.7	867.4	914.1	864.0	821.1	864.0	914.1	867.4	818.7	867.4	914.1
31.5°	796.7	847.8	904.7	845.8	799.1	845.8	904.7	847.8	796.7	847.8	904.7
32°	774.2	827.9	895.2	827.2	776.6	827.2	895.2	827.9	774.2	827.9	895.2
32.5°	751.2	807.3	886.0	808.1	753.8	808.1	886.0	807.3	751.2	807.3	886.0
33°	728.2	786.8	876.6	788.0	731.3	788.0	876.6	786.8	728.2	786.8	876.6
33.5°	704.9	765.2	865.7	767.4	706.9	767.4	865.7	765.2	704.9	765.2	865.7
34°	682.2	743.4	854.1	745.9	683.6	745.9	854.1	743.4	682.2	743.4	854.1
34.5°	659.2	721.4	840.5	723.6	660.6	723.6	840.5	721.4	659.2	721.4	840.5
35°	636.4	699.4	824.1	701.1	638.6	701.1	824.1	699.4	636.4	699.4	824.1
35.5°	614.2	677.6	806.4	679.0	615.9	679.0	806.4	677.6	614.2	677.6	806.4
36°	592.1	655.3	786.8	656.5	594.6	656.5	786.8	655.3	592.1	655.3	786.8
36.5°	569.9	633.5	765.7	634.5	572.8	634.5	765.7	633.5	569.9	633.5	765.7
37°	547.8	611.7	743.4	612.7	551.2	612.7	743.4	611.7	547.8	611.7	743.4
37.5°	525.6	590.2	720.9	591.7	529.4	591.7	720.9	590.2	525.6	590.2	720.9
38°	503.3	568.7	697.7	570.3	507.6	570.3	697.7	568.7	503.3	568.7	697.7
38.5°	480.8	547.8	674.7	549.8	485.4	549.8	674.7	547.8	480.8	547.8	674.7
39°	459.0	526.8	651.4	529.2	463.6	529.2	651.4	526.8	459.0	526.8	651.4
39.5°	437.4	505.7	628.0	508.9	441.1	508.9	628.0	505.7	437.4	505.7	628.0
40°	415.4	484.4	604.0	488.0	419.5	488.0	604.0	484.4	415.4	484.4	604.0
40.5°	393.9	463.3	579.8	467.0	397.7	467.0	579.8	463.3	393.9	463.3	579.8
41°	373.1	442.5	555.6	446.2	376.7	446.2	555.6	442.5	373.1	442.5	555.6
41.5°	352.2	421.7	531.1	425.3	356.1	425.3	531.1	421.7	352.2	421.7	531.1
42°	332.1	401.4	506.7	404.5	336.3	404.5	506.7	401.4	332.1	401.4	506.7
42.5°	312.3	381.0	482.7	384.4	316.6	384.4	482.7	381.0	312.3	381.0	482.7
43°	292.7	361.2	458.7	364.1	297.3	364.1	458.7	361.2	292.7	361.2	458.7
43.5°	273.1	341.6	435.3	345.0	278.4	345.0	435.3	341.6	273.1	341.6	435.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	217.6	284.9	368.0	288.6	223.4	288.6	368.0	284.9	217.6	284.9	368.0
45.5°	200.7	266.8	346.9	270.9	206.3	270.9	346.9	266.8	200.7	266.8	346.9
46°	184.5	249.1	326.8	253.5	189.8	253.5	326.8	249.1	184.5	249.1	326.8
46.5°	168.0	231.2	307.0	236.0	174.1	236.0	307.0	231.2	168.0	231.2	307.0
47°	152.5	214.2	287.6	218.8	159.3	218.8	287.6	214.2	152.5	214.2	287.6
47.5°	137.0	197.8	269.0	201.9	144.8	201.9	269.0	197.8	137.0	197.8	269.0
48°	123.5	182.0	251.0	186.2	130.7	186.2	251.0	182.0	123.5	182.0	251.0
48.5°	110.4	166.6	233.9	171.2	118.1	171.2	233.9	166.6	110.4	166.6	233.9
49°	99.5	151.3	216.7	156.4	106.5	156.4	216.7	151.3	99.5	151.3	216.7
49.5°	89.1	137.0	200.2	142.3	95.4	142.3	200.2	137.0	89.1	137.0	200.2
50°	78.7	123.5	184.0	128.8	84.5	128.8	184.0	123.5	78.7	123.5	184.0
50.5°	68.8	110.6	169.0	116.2	73.8	116.2	169.0	110.6	68.8	110.6	169.0
51°	59.3	99.5	154.4	104.8	64.9	104.8	154.4	99.5	59.3	99.5	154.4
51.5°	51.6	88.8	140.7	93.7	56.4	93.7	140.7	88.8	51.6	88.8	140.7
52°	44.1	78.4	127.3	83.0	48.4	83.0	127.3	78.4	44.1	78.4	127.3
52.5°	37.0	68.3	114.7	72.9	40.9	72.9	114.7	68.3	37.0	68.3	114.7
53°	30.5	59.1	103.6	63.9	33.9	63.9	103.6	59.1	30.5	59.1	103.6
53.5°	25.2	50.8	92.7	55.7	27.1	55.7	92.7	50.8	25.2	50.8	92.7
54°	19.6	43.3	82.6	47.7	21.5	47.7	82.6	43.3	19.6	43.3	82.6
54.5°	14.3	36.3	73.1	40.2	17.4	40.2	73.1	36.3	14.3	36.3	73.1
55°	10.4	30.3	63.9	33.2	13.3	33.2	63.9	30.3	10.4	30.3	63.9
55.5°	6.5	24.7	55.7	26.6	9.2	26.6	55.7	24.7	6.5	24.7	55.7
56°	4.4	19.4	47.7	20.8	5.1	20.8	47.7	19.4	4.4	19.4	47.7
56.5°	3.4	14.0	40.9	16.0	3.1	16.0	40.9	14.0	3.4	14.0	40.9
57°	2.4	9.2	34.9	11.6	2.7	11.6	34.9	9.2	2.4	9.2	34.9
57.5°	2.4	5.8	29.3	7.7	2.4	7.7	29.3	5.8	2.4	5.8	29.3
58°	2.2	3.6	24.5	5.1	2.4	5.1	24.5	3.6	2.2	3.6	24.5
58.5°	2.2	2.4	20.3	3.6	2.2	3.6	20.3	2.4	2.2	2.4	20.3
59°	1.9	1.9	16.5	2.7	2.2	2.7	16.5	1.9	1.9	1.9	16.5
59.5°	1.9	1.9	13.3	1.9	2.2	1.9	13.3	1.9	1.9	1.9	13.3
60°	1.9	1.9	10.7	1.9	1.9	1.9	10.7	1.9	1.9	1.9	10.7
60.5°	1.7	1.7	8.2	1.9	1.9	1.9	8.2	1.7	1.7	1.7	8.2
61°	1.7	1.7	6.5	1.7	1.9	1.7	6.5	1.7	1.7	1.7	6.5
61.5°	1.7	1.7	4.8	1.7	1.7	1.7	4.8	1.7	1.7	1.7	4.8
62°	1.5	1.5	3.6	1.7	1.7	1.7	3.6	1.5	1.5	1.5	3.6
62.5°	1.5	1.5	2.7	1.5	1.7	1.5	2.7	1.5	1.5	1.5	2.7
63°	1.5	1.5	1.9	1.5	1.5	1.5	1.9	1.5	1.5	1.5	1.9
63.5°	1.5	1.2	1.5	1.5	1.5	1.5	1.5	1.2	1.5	1.2	1.5
64°	1.2	1.2	1.2	1.2	1.5	1.2	1.2	1.2	1.2	1.2	1.2
64.5°	1.2	1.2	1.0	1.2	1.5	1.2	1.0	1.2	1.2	1.2	1.0
65°	1.2	1.2	1.0	1.2	1.2	1.2	1.0	1.2	1.2	1.2	1.0
65.5°	1.2	1.0	1.0	1.2	1.2	1.2	1.0	1.0	1.2	1.0	1.0
66°	1.2	1.0	0.7	1.0	1.2	1.0	0.7	1.0	1.2	1.0	0.7



TEST NUMBER: P776015

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.0	0.7	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.7
68°	1.0	0.7	0.7	1.0	1.0	1.0	0.7	0.7	1.0	0.7	0.7
68.5°	1.0	0.7	0.5	0.7	1.0	0.7	0.5	0.7	1.0	0.7	0.5
69°	0.7	0.7	0.5	0.7	1.0	0.7	0.5	0.7	0.7	0.7	0.5
69.5°	0.7	0.7	0.5	0.7	1.0	0.7	0.5	0.7	0.7	0.7	0.5
70°	0.7	0.7	0.5	0.7	0.7	0.7	0.5	0.7	0.7	0.7	0.5
70.5°	0.7	0.7	0.5	0.7	0.7	0.7	0.5	0.7	0.7	0.7	0.5
71°	0.7	0.5	0.5	0.7	0.7	0.7	0.5	0.5	0.7	0.5	0.5
71.5°	0.7	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.7	0.5	0.5
72°	0.7	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.7	0.5	0.5
72.5°	0.5	0.5	0.2	0.5	0.7	0.5	0.2	0.5	0.5	0.5	0.2
73°	0.5	0.5	0.2	0.5	0.7	0.5	0.2	0.5	0.5	0.5	0.2
73.5°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
74°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
74.5°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
75°	0.5	0.5	0.2	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.2
75.5°	0.5	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.5	0.2	0.2
76°	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.5	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.5	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	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
79.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
80°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
80.5°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
81°	0.2	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.0
81.5°	0.2	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.2	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.2	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: P776015
CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-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: P776015

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
0.5°	1220.3	1221.1	1220.3	1220.1	1220.1	1220.1
1°	1220.1	1220.8	1220.1	1219.9	1219.9	1219.9
1.5°	1219.6	1220.3	1219.6	1219.6	1219.6	1219.4
2°	1219.1	1219.9	1219.1	1219.1	1218.9	1218.9
2.5°	1218.6	1219.1	1218.6	1218.4	1218.2	1218.2
3°	1217.7	1218.4	1217.7	1217.7	1217.4	1217.4
3.5°	1216.7	1217.4	1216.7	1216.7	1216.5	1216.5
4°	1215.7	1216.2	1215.7	1215.5	1215.5	1215.5
4.5°	1214.3	1215.0	1214.3	1214.3	1214.3	1214.3
5°	1212.8	1213.6	1212.8	1212.8	1212.8	1212.8
5.5°	1211.4	1211.9	1211.4	1211.4	1211.1	1211.1
6°	1209.7	1210.2	1209.7	1209.4	1209.4	1209.4
6.5°	1207.8	1208.2	1207.8	1207.8	1207.5	1207.5
7°	1205.8	1206.3	1205.8	1205.6	1205.6	1205.6
7.5°	1203.4	1204.1	1203.4	1203.4	1203.4	1203.4
8°	1201.2	1201.7	1201.2	1201.2	1201.0	1201.0
8.5°	1198.6	1199.0	1198.6	1198.6	1198.6	1198.6
9°	1195.9	1196.4	1195.9	1195.9	1195.9	1195.9
9.5°	1193.0	1193.5	1193.0	1193.0	1193.0	1193.0
10°	1190.1	1190.6	1190.1	1190.1	1190.1	1190.1
10.5°	1186.7	1187.4	1186.7	1186.9	1186.9	1186.9
11°	1183.5	1184.0	1183.5	1183.8	1183.5	1183.5
11.5°	1179.9	1180.4	1179.9	1180.2	1180.2	1180.2
12°	1176.3	1176.8	1176.3	1176.5	1176.5	1176.5
12.5°	1172.4	1172.7	1172.4	1172.7	1172.7	1172.4
13°	1168.3	1168.8	1168.3	1168.8	1168.8	1168.5
13.5°	1164.2	1164.7	1164.2	1164.7	1164.4	1164.4
14°	1159.8	1160.1	1159.8	1160.3	1160.3	1160.1
14.5°	1155.5	1155.5	1155.5	1155.9	1155.7	1155.5
15°	1150.6	1150.9	1150.6	1151.1	1151.1	1150.6
15.5°	1145.8	1145.8	1145.8	1146.3	1146.3	1145.8
16°	1140.7	1140.7	1140.7	1141.4	1141.2	1140.7
16.5°	1135.6	1135.4	1135.6	1136.3	1135.9	1135.6
17°	1130.0	1130.0	1130.0	1131.0	1130.5	1130.3
17.5°	1124.5	1124.5	1124.5	1125.4	1125.0	1124.5
18°	1118.9	1118.7	1118.9	1119.6	1119.2	1118.9
18.5°	1112.9	1112.6	1112.9	1113.8	1113.3	1113.1
19°	1106.8	1106.3	1106.8	1107.8	1107.3	1106.8
19.5°	1100.5	1100.3	1100.5	1101.5	1101.0	1100.8
20°	1094.0	1093.7	1094.0	1095.2	1094.7	1094.2
20.5°	1087.4	1087.2	1087.4	1088.7	1088.2	1087.9
21°	1080.7	1080.4	1080.7	1081.9	1081.4	1081.1



TEST NUMBER: P776015

CATALOG NUMBER: HCDJBLS1525CSD-HCD4TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1059.6	1059.6	1059.6	1060.6	1060.3	1060.3
23°	1052.3	1052.1	1052.3	1053.1	1053.1	1053.1
23.5°	1044.8	1044.8	1044.8	1045.3	1045.8	1045.8
24°	1037.3	1037.8	1037.3	1037.6	1038.3	1038.3
24.5°	1029.6	1030.3	1029.6	1029.6	1030.6	1030.8
25°	1021.6	1019.7	1021.6	1021.4	1022.6	1023.8
25.5°	1013.8	1009.5	1013.8	1013.1	1014.8	1015.5
26°	1006.1	999.3	1006.1	1004.6	1006.8	1001.7
26.5°	997.9	984.6	997.9	996.2	998.8	990.1
27°	986.5	967.4	986.5	987.5	991.3	976.1
27.5°	976.1	951.9	976.1	978.5	980.9	958.7
28°	964.9	934.7	964.9	969.5	967.1	940.3
28.5°	949.2	916.8	949.2	960.6	955.3	921.6
29°	932.7	899.3	932.7	951.4	940.5	902.0
29.5°	916.8	880.5	916.8	942.2	923.1	882.2
30°	899.8	861.3	899.8	932.7	905.2	861.6
30.5°	882.2	841.5	882.2	923.5	886.3	840.5
31°	864.0	821.1	864.0	914.1	867.4	818.7
31.5°	845.8	799.1	845.8	904.7	847.8	796.7
32°	827.2	776.6	827.2	895.2	827.9	774.2
32.5°	808.1	753.8	808.1	886.0	807.3	751.2
33°	788.0	731.3	788.0	876.6	786.8	728.2
33.5°	767.4	706.9	767.4	865.7	765.2	704.9
34°	745.9	683.6	745.9	854.1	743.4	682.2
34.5°	723.6	660.6	723.6	840.5	721.4	659.2
35°	701.1	638.6	701.1	824.1	699.4	636.4
35.5°	679.0	615.9	679.0	806.4	677.6	614.2
36°	656.5	594.6	656.5	786.8	655.3	592.1
36.5°	634.5	572.8	634.5	765.7	633.5	569.9
37°	612.7	551.2	612.7	743.4	611.7	547.8
37.5°	591.7	529.4	591.7	720.9	590.2	525.6
38°	570.3	507.6	570.3	697.7	568.7	503.3
38.5°	549.8	485.4	549.8	674.7	547.8	480.8
39°	529.2	463.6	529.2	651.4	526.8	459.0
39.5°	508.9	441.1	508.9	628.0	505.7	437.4
40°	488.0	419.5	488.0	604.0	484.4	415.4
40.5°	467.0	397.7	467.0	579.8	463.3	393.9
41°	446.2	376.7	446.2	555.6	442.5	373.1
41.5°	425.3	356.1	425.3	531.1	421.7	352.2
42°	404.5	336.3	404.5	506.7	401.4	332.1
42.5°	384.4	316.6	384.4	482.7	381.0	312.3
43°	364.1	297.3	364.1	458.7	361.2	292.7
43.5°	345.0	278.4	345.0	435.3	341.6	273.1



TEST NUMBER: P776015

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	288.6	223.4	288.6	368.0	284.9	217.6
45.5°	270.9	206.3	270.9	346.9	266.8	200.7
46°	253.5	189.8	253.5	326.8	249.1	184.5
46.5°	236.0	174.1	236.0	307.0	231.2	168.0
47°	218.8	159.3	218.8	287.6	214.2	152.5
47.5°	201.9	144.8	201.9	269.0	197.8	137.0
48°	186.2	130.7	186.2	251.0	182.0	123.5
48.5°	171.2	118.1	171.2	233.9	166.6	110.4
49°	156.4	106.5	156.4	216.7	151.3	99.5
49.5°	142.3	95.4	142.3	200.2	137.0	89.1
50°	128.8	84.5	128.8	184.0	123.5	78.7
50.5°	116.2	73.8	116.2	169.0	110.6	68.8
51°	104.8	64.9	104.8	154.4	99.5	59.3
51.5°	93.7	56.4	93.7	140.7	88.8	51.6
52°	83.0	48.4	83.0	127.3	78.4	44.1
52.5°	72.9	40.9	72.9	114.7	68.3	37.0
53°	63.9	33.9	63.9	103.6	59.1	30.5
53.5°	55.7	27.1	55.7	92.7	50.8	25.2
54°	47.7	21.5	47.7	82.6	43.3	19.6
54.5°	40.2	17.4	40.2	73.1	36.3	14.3
55°	33.2	13.3	33.2	63.9	30.3	10.4
55.5°	26.6	9.2	26.6	55.7	24.7	6.5
56°	20.8	5.1	20.8	47.7	19.4	4.4
56.5°	16.0	3.1	16.0	40.9	14.0	3.4
57°	11.6	2.7	11.6	34.9	9.2	2.4
57.5°	7.7	2.4	7.7	29.3	5.8	2.4
58°	5.1	2.4	5.1	24.5	3.6	2.2
58.5°	3.6	2.2	3.6	20.3	2.4	2.2
59°	2.7	2.2	2.7	16.5	1.9	1.9
59.5°	1.9	2.2	1.9	13.3	1.9	1.9
60°	1.9	1.9	1.9	10.7	1.9	1.9
60.5°	1.9	1.9	1.9	8.2	1.7	1.7
61°	1.7	1.9	1.7	6.5	1.7	1.7
61.5°	1.7	1.7	1.7	4.8	1.7	1.7
62°	1.7	1.7	1.7	3.6	1.5	1.5
62.5°	1.5	1.7	1.5	2.7	1.5	1.5
63°	1.5	1.5	1.5	1.9	1.5	1.5
63.5°	1.5	1.5	1.5	1.5	1.2	1.5
64°	1.2	1.5	1.2	1.2	1.2	1.2
64.5°	1.2	1.5	1.2	1.0	1.2	1.2
65°	1.2	1.2	1.2	1.0	1.2	1.2
65.5°	1.2	1.2	1.2	1.0	1.0	1.2
66°	1.0	1.2	1.0	0.7	1.0	1.2



TEST NUMBER: P776015

CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-2500lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.0	1.0	1.0	0.7	1.0	1.0
68°	1.0	1.0	1.0	0.7	0.7	1.0
68.5°	0.7	1.0	0.7	0.5	0.7	1.0
69°	0.7	1.0	0.7	0.5	0.7	0.7
69.5°	0.7	1.0	0.7	0.5	0.7	0.7
70°	0.7	0.7	0.7	0.5	0.7	0.7
70.5°	0.7	0.7	0.7	0.5	0.7	0.7
71°	0.7	0.7	0.7	0.5	0.5	0.7
71.5°	0.5	0.7	0.5	0.5	0.5	0.7
72°	0.5	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.7	0.5	0.2	0.5	0.5
73°	0.5	0.7	0.5	0.2	0.5	0.5
73.5°	0.5	0.5	0.5	0.2	0.5	0.5
74°	0.5	0.5	0.5	0.2	0.5	0.5
74.5°	0.5	0.5	0.5	0.2	0.5	0.5
75°	0.5	0.5	0.5	0.2	0.5	0.5
75.5°	0.5	0.5	0.5	0.2	0.2	0.5
76°	0.2	0.5	0.2	0.2	0.2	0.5
76.5°	0.2	0.5	0.2	0.2	0.2	0.2
77°	0.2	0.5	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	0.0	0.2	0.2
79.5°	0.2	0.2	0.2	0.0	0.2	0.2
80°	0.2	0.2	0.2	0.0	0.2	0.2
80.5°	0.2	0.2	0.2	0.0	0.2	0.2
81°	0.2	0.2	0.2	0.0	0.2	0.2
81.5°	0.2	0.2	0.2	0.0	0.0	0.2
82°	0.0	0.2	0.0	0.0	0.0	0.0
82.5°	0.0	0.2	0.0	0.0	0.0	0.0
83°	0.0	0.2	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: P776015
CATALOG NUMBER: HCDJBL51525CSD-HCD4TSQMB-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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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°

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21.5°	1074.4	1074.6	1074.9	1073.9	1073.6	1073.9	1074.9	1074.6	1074.4	1074.6	1074.9
22°	1067.3	1067.6	1067.8	1066.6	1066.6	1066.6	1067.8	1067.6	1067.3	1067.6	1067.8



44°	254.2	322.2	412.0	325.6	259.5	325.6	412.0	322.2	254.2	322.2	412.0
44.5°	235.8	303.6	389.8	307.0	241.1	307.0	389.8	303.6	235.8	303.6	389.8



66.5°	1.0	1.0	0.7	1.0	1.2	1.0	0.7	1.0	1.0	1.0	0.7
67°	1.0	1.0	0.7	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.7



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°	1073.9	1073.6	1073.9	1074.9	1074.6	1074.4
22°	1066.6	1066.6	1066.6	1067.8	1067.6	1067.3



44°	325.6	259.5	325.6	412.0	322.2	254.2
44.5°	307.0	241.1	307.0	389.8	303.6	235.8

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66.5°	1.0	1.2	1.0	0.7	1.0	1.0
67°	1.0	1.0	1.0	0.7	1.0	1.0

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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)