

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: P776133

Luminaire Tested: HCDJBL51525CSD-HCD81TRH-2500lm-4000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776133
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: HCDJBLS1525CSD-HCD81TRH-2500lm-4000K
Description: 8 INCH ROUND SHALLOW-WIDE HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 4000K CCT
Ballast/Driver: -

Summary

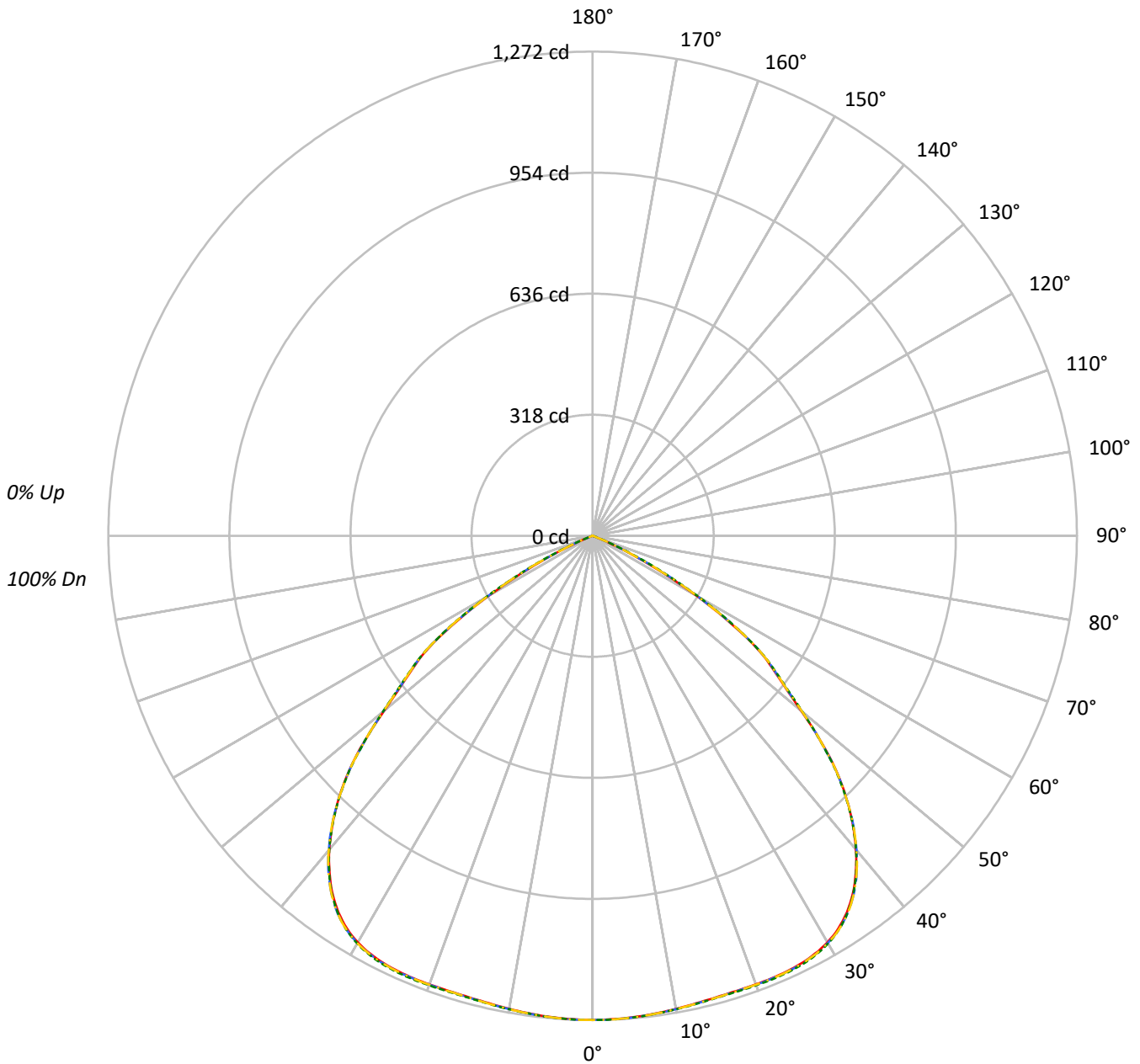
Lumens per Lamp: N/A
Luminaire Lumens: 3090.1 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.43
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{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										
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	100	100	100	100		
	1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	89	89	89	89	89		
	2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78	78	78	78	78	78		
	3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68	68	68	68	68	68		
	4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60	60	60	60		
	5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53	53	53		
	6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47	47	47	47	47	47		
	7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41	41	41	41	41	41		
	8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37	37	37	37	37	37		
	9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33	33	33	33	33	33		
	10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	30	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	38841	38841	38841	38841
5°	38897	38912	38897	38912
10°	39127	39158	39127	39158
15°	39673	39730	39673	39730
20°	40739	40830	40739	40830
25°	42162	42283	42162	42283
30°	43478	43605	43478	43605
35°	43938	44031	43938	44031
40°	42867	42887	42867	42887
45°	39981	39925	39981	39925
50°	33927	34169	33927	34169
55°	29004	29169	29004	29169
60°	19075	19820	19075	19820
65°	6726	8105	6726	8105
70°	116	616	116	616
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: 39981 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.9
10°-20°	356.2	11.5
20°-30°	578.7	18.7
30°-40°	734.8	23.8
40°-50°	704.7	22.8
50°-60°	474.3	15.3
60°-70°	120.0	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°	1055.9	34.2
0°-40°	1790.6	57.9
0°-60°	2969.5	96.1
0°-90°	3090.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1272	1272	1272	1272	1272	
5°	1269	1270	1269	1270	1269	121
15°	1255	1257	1255	1257	1255	356
25°	1252	1255	1252	1255	1252	578
35°	1179	1181	1179	1181	1179	733
45°	926	925	926	925	926	705
55°	545	548	545	548	545	471
65°	93	112	93	112	93	112
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2
0.5°	1272.0	1272.0	1272.2	1272.5	1272.2	1272.5	1272.2	1272.0	1272.0	1272.0	1272.2
1°	1272.0	1272.0	1272.2	1272.5	1272.0	1272.5	1272.2	1272.0	1272.0	1272.0	1272.2
1.5°	1271.7	1271.7	1272.0	1272.2	1272.0	1272.2	1272.0	1271.7	1271.7	1271.7	1272.0
2°	1271.5	1271.5	1272.0	1272.0	1271.7	1272.0	1272.0	1271.5	1271.5	1271.5	1272.0
2.5°	1271.2	1271.5	1271.7	1272.0	1271.5	1272.0	1271.7	1271.5	1271.2	1271.5	1271.7
3°	1271.0	1271.0	1271.5	1271.5	1271.2	1271.5	1271.5	1271.0	1271.0	1271.0	1271.5
3.5°	1270.4	1270.7	1271.0	1271.2	1271.0	1271.2	1271.0	1270.7	1270.4	1270.7	1271.0
4°	1270.2	1270.2	1270.4	1271.0	1270.4	1271.0	1270.4	1270.2	1270.2	1270.2	1270.4
4.5°	1269.7	1269.9	1270.2	1270.4	1270.2	1270.4	1270.2	1269.9	1269.7	1269.9	1270.2
5°	1269.2	1269.4	1269.7	1269.9	1269.7	1269.9	1269.7	1269.4	1269.2	1269.4	1269.7
5.5°	1268.7	1268.7	1269.2	1269.4	1269.2	1269.4	1269.2	1268.7	1268.7	1268.7	1269.2
6°	1267.9	1268.2	1268.4	1268.9	1268.7	1268.9	1268.4	1268.2	1267.9	1268.2	1268.4
6.5°	1267.4	1267.7	1267.9	1268.4	1267.9	1268.4	1267.9	1267.7	1267.4	1267.7	1267.9
7°	1266.6	1266.9	1267.4	1267.7	1267.4	1267.7	1267.4	1266.9	1266.6	1266.9	1267.4
7.5°	1265.9	1266.1	1266.6	1266.9	1266.6	1266.9	1266.6	1266.1	1265.9	1266.1	1266.6
8°	1265.4	1265.4	1265.9	1266.4	1266.1	1266.4	1265.9	1265.4	1265.4	1265.4	1265.9
8.5°	1264.6	1264.6	1265.1	1265.4	1265.4	1265.4	1265.1	1264.6	1264.6	1264.6	1265.1
9°	1263.6	1263.8	1264.3	1264.9	1264.6	1264.9	1264.3	1263.8	1263.6	1263.8	1264.3
9.5°	1262.8	1263.1	1263.6	1264.1	1263.8	1264.1	1263.6	1263.1	1262.8	1263.1	1263.6
10°	1262.1	1262.3	1262.8	1263.3	1263.1	1263.3	1262.8	1262.3	1262.1	1262.3	1262.8
10.5°	1261.3	1261.5	1261.8	1262.6	1262.3	1262.6	1261.8	1261.5	1261.3	1261.5	1261.8
11°	1260.5	1260.5	1261.0	1261.8	1261.5	1261.8	1261.0	1260.5	1260.5	1260.5	1261.0
11.5°	1259.8	1259.8	1260.3	1261.0	1260.8	1261.0	1260.3	1259.8	1259.8	1259.8	1260.3
12°	1259.0	1259.0	1259.5	1260.3	1260.3	1260.3	1259.5	1259.0	1259.0	1259.0	1259.5
12.5°	1258.2	1258.2	1259.0	1259.5	1259.5	1259.5	1259.0	1258.2	1258.2	1258.2	1259.0
13°	1257.5	1257.7	1258.2	1258.7	1259.0	1258.7	1258.2	1257.7	1257.5	1257.7	1258.2
13.5°	1256.7	1257.0	1257.7	1258.2	1258.2	1258.2	1257.7	1257.0	1256.7	1257.0	1257.7
14°	1256.2	1256.5	1257.0	1257.7	1257.7	1257.7	1257.0	1256.5	1256.2	1256.5	1257.0
14.5°	1255.7	1255.9	1256.5	1257.2	1257.5	1257.2	1256.5	1255.9	1255.7	1255.9	1256.5
15°	1255.2	1255.4	1255.9	1257.0	1257.0	1257.0	1255.9	1255.4	1255.2	1255.4	1255.9
15.5°	1254.7	1254.9	1255.7	1256.5	1256.7	1256.5	1255.7	1254.9	1254.7	1254.9	1255.7
16°	1254.4	1254.7	1255.2	1256.2	1256.5	1256.2	1255.2	1254.7	1254.4	1254.7	1255.2
16.5°	1254.2	1254.4	1254.9	1255.9	1256.2	1255.9	1254.9	1254.4	1254.2	1254.4	1254.9
17°	1253.9	1254.2	1254.9	1255.9	1256.2	1255.9	1254.9	1254.2	1253.9	1254.2	1254.9
17.5°	1253.9	1254.2	1254.7	1255.9	1256.2	1255.9	1254.7	1254.2	1253.9	1254.2	1254.7
18°	1253.7	1253.9	1254.7	1255.9	1256.2	1255.9	1254.7	1253.9	1253.7	1253.9	1254.7
18.5°	1253.7	1253.9	1254.7	1255.9	1256.2	1255.9	1254.7	1253.9	1253.7	1253.9	1254.7
19°	1253.9	1253.9	1254.7	1256.2	1256.5	1256.2	1254.7	1253.9	1253.9	1253.9	1254.7
19.5°	1253.9	1254.2	1254.9	1256.2	1256.7	1256.2	1254.9	1254.2	1253.9	1254.2	1254.9
20°	1253.9	1254.2	1254.9	1256.5	1256.7	1256.5	1254.9	1254.2	1253.9	1254.2	1254.9
20.5°	1254.2	1254.2	1255.2	1256.5	1257.0	1256.5	1255.2	1254.2	1254.2	1254.2	1255.2
21°	1254.2	1254.4	1255.2	1256.7	1257.0	1256.7	1255.2	1254.4	1254.2	1254.4	1255.2



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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°	1253.9	1254.2	1255.2	1256.7	1257.2	1256.7	1255.2	1254.2	1253.9	1254.2	1255.2
23°	1253.7	1253.9	1254.9	1256.5	1257.0	1256.5	1254.9	1253.9	1253.7	1253.9	1254.9
23.5°	1253.4	1253.7	1254.7	1256.2	1256.7	1256.2	1254.7	1253.7	1253.4	1253.7	1254.7
24°	1253.2	1253.2	1254.2	1255.9	1256.5	1255.9	1254.2	1253.2	1253.2	1253.2	1254.2
24.5°	1252.4	1252.6	1253.7	1255.4	1255.9	1255.4	1253.7	1252.6	1252.4	1252.6	1253.7
25°	1251.6	1251.9	1253.2	1254.9	1255.2	1254.9	1253.2	1251.9	1251.6	1251.9	1253.2
25.5°	1250.9	1251.1	1252.4	1254.2	1254.4	1254.2	1252.4	1251.1	1250.9	1251.1	1252.4
26°	1249.8	1250.1	1251.4	1253.2	1253.7	1253.2	1251.4	1250.1	1249.8	1250.1	1251.4
26.5°	1248.6	1248.8	1250.4	1252.1	1252.4	1252.1	1250.4	1248.8	1248.6	1248.8	1250.4
27°	1247.3	1247.6	1248.8	1250.6	1250.9	1250.6	1248.8	1247.6	1247.3	1247.6	1248.8
27.5°	1245.5	1246.0	1247.3	1249.1	1249.3	1249.1	1247.3	1246.0	1245.5	1246.0	1247.3
28°	1243.7	1244.0	1245.5	1247.3	1247.6	1247.3	1245.5	1244.0	1243.7	1244.0	1245.5
28.5°	1241.7	1242.0	1243.5	1245.3	1245.3	1245.3	1243.5	1242.0	1241.7	1242.0	1243.5
29°	1239.2	1239.7	1241.2	1242.7	1243.0	1242.7	1241.2	1239.7	1239.2	1239.7	1241.2
29.5°	1236.4	1236.9	1238.7	1240.2	1240.2	1240.2	1238.7	1236.9	1236.4	1236.9	1238.7
30°	1233.3	1233.8	1235.6	1237.1	1236.9	1237.1	1235.6	1233.8	1233.3	1233.8	1235.6
30.5°	1230.0	1230.5	1232.3	1233.8	1233.6	1233.8	1232.3	1230.5	1230.0	1230.5	1232.3
31°	1226.2	1226.7	1228.7	1230.0	1229.5	1230.0	1228.7	1226.7	1226.2	1226.7	1228.7
31.5°	1221.9	1222.6	1224.7	1225.7	1225.2	1225.7	1224.7	1222.6	1221.9	1222.6	1224.7
32°	1217.0	1218.0	1220.1	1221.1	1220.6	1221.1	1220.1	1218.0	1217.0	1218.0	1220.1
32.5°	1211.9	1213.0	1215.0	1215.8	1215.2	1215.8	1215.0	1213.0	1211.9	1213.0	1215.0
33°	1206.3	1207.4	1209.6	1210.2	1209.4	1210.2	1209.6	1207.4	1206.3	1207.4	1209.6
33.5°	1200.0	1201.3	1203.5	1204.1	1203.3	1204.1	1203.5	1201.3	1200.0	1201.3	1203.5
34°	1193.6	1194.9	1197.2	1197.4	1196.4	1197.4	1197.2	1194.9	1193.6	1194.9	1197.2
34.5°	1186.2	1187.8	1190.1	1190.1	1189.0	1190.1	1190.1	1187.8	1186.2	1187.8	1190.1
35°	1178.9	1180.1	1182.7	1182.4	1181.4	1182.4	1182.7	1180.1	1178.9	1180.1	1182.7
35.5°	1170.7	1172.0	1174.5	1174.3	1173.3	1174.3	1174.5	1172.0	1170.7	1172.0	1174.5
36°	1162.1	1163.6	1166.1	1165.6	1164.4	1165.6	1166.1	1163.6	1162.1	1163.6	1166.1
36.5°	1153.2	1154.4	1157.0	1156.5	1155.0	1156.5	1157.0	1154.4	1153.2	1154.4	1157.0
37°	1143.3	1144.8	1147.1	1146.8	1145.3	1146.8	1147.1	1144.8	1143.3	1144.8	1147.1
37.5°	1133.3	1134.6	1137.1	1136.4	1134.9	1136.4	1137.1	1134.6	1133.3	1134.6	1137.1
38°	1122.6	1124.2	1126.5	1125.7	1123.9	1125.7	1126.5	1124.2	1122.6	1124.2	1126.5
38.5°	1111.5	1113.0	1115.3	1114.3	1112.7	1114.3	1115.3	1113.0	1111.5	1113.0	1115.3
39°	1100.3	1101.5	1103.6	1102.8	1101.0	1102.8	1103.6	1101.5	1100.3	1101.5	1103.6
39.5°	1088.3	1089.3	1091.4	1090.6	1088.8	1090.6	1091.4	1089.3	1088.3	1089.3	1091.4
40°	1075.6	1076.6	1078.6	1077.9	1076.1	1077.9	1078.6	1076.6	1075.6	1076.6	1078.6
40.5°	1062.9	1063.6	1065.4	1064.6	1062.9	1064.6	1065.4	1063.6	1062.9	1063.6	1065.4
41°	1049.4	1050.1	1051.7	1051.2	1049.4	1051.2	1051.7	1050.1	1049.4	1050.1	1051.7
41.5°	1035.6	1036.2	1037.7	1036.7	1035.4	1036.7	1037.7	1036.2	1035.6	1036.2	1037.7
42°	1021.4	1021.9	1022.9	1022.4	1021.1	1022.4	1022.9	1021.9	1021.4	1021.9	1022.9
42.5°	1006.9	1006.9	1007.9	1007.4	1006.1	1007.4	1007.9	1006.9	1006.9	1006.9	1007.9
43°	991.6	991.6	992.4	991.9	990.6	991.9	992.4	991.6	991.6	991.6	992.4
43.5°	975.9	975.9	976.1	975.6	974.8	975.6	976.1	975.9	975.9	975.9	976.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	926.0	925.2	925.2	925.0	924.7	925.0	925.2	925.2	926.0	925.2	925.2
45.5°	908.2	907.4	907.2	906.9	906.7	906.9	907.2	907.4	908.2	907.4	907.2
46°	889.9	888.9	888.6	888.6	888.3	888.6	888.6	888.9	889.9	888.9	888.6
46.5°	870.8	869.8	869.5	869.3	869.0	869.3	869.5	869.8	870.8	869.8	869.5
47°	850.4	849.4	848.7	848.2	847.6	848.2	848.7	849.4	850.4	849.4	848.7
47.5°	828.3	827.3	826.3	826.5	826.3	826.5	826.3	827.3	828.3	827.3	826.3
48°	804.9	804.7	805.2	805.4	805.7	805.4	805.2	804.7	804.9	804.7	805.2
48.5°	782.5	782.5	783.5	783.8	783.8	783.8	783.5	782.5	782.5	782.5	783.5
49°	760.9	760.6	761.4	761.7	761.9	761.7	761.4	760.6	760.9	760.6	761.4
49.5°	737.5	737.7	739.3	740.3	740.5	740.3	739.3	737.7	737.5	737.7	739.3
50°	714.3	715.4	717.4	718.7	719.4	718.7	717.4	715.4	714.3	715.4	717.4
50.5°	693.0	694.2	696.3	697.6	698.1	697.6	696.3	694.2	693.0	694.2	696.3
51°	673.4	674.1	676.2	677.2	677.7	677.2	676.2	674.1	673.4	674.1	676.2
51.5°	654.6	655.1	657.4	659.1	659.9	659.1	657.4	655.1	654.6	655.1	657.4
52°	636.0	637.0	639.3	641.6	642.6	641.6	639.3	637.0	636.0	637.0	639.3
52.5°	619.2	620.2	622.8	625.0	626.6	625.0	622.8	620.2	619.2	620.2	622.8
53°	603.7	604.7	607.5	609.8	610.8	609.8	607.5	604.7	603.7	604.7	607.5
53.5°	589.2	590.2	592.7	594.8	595.8	594.8	592.7	590.2	589.2	590.2	592.7
54°	575.4	576.2	578.5	579.8	580.3	579.8	578.5	576.2	575.4	576.2	578.5
54.5°	560.9	561.7	563.5	565.0	565.3	565.0	563.5	561.7	560.9	561.7	563.5
55°	544.9	545.7	547.5	548.5	548.0	548.5	547.5	545.7	544.9	545.7	547.5
55.5°	526.3	527.1	529.1	530.2	529.9	530.2	529.1	527.1	526.3	527.1	529.1
56°	505.7	506.8	509.3	510.6	510.3	510.6	509.3	506.8	505.7	506.8	509.3
56.5°	483.9	485.4	487.7	489.7	489.5	489.7	487.7	485.4	483.9	485.4	487.7
57°	461.0	462.2	465.5	466.8	467.1	466.8	465.5	462.2	461.0	462.2	465.5
57.5°	437.1	438.6	442.1	443.7	443.9	443.7	442.1	438.6	437.1	438.6	442.1
58°	412.9	414.4	418.0	420.3	420.8	420.3	418.0	414.4	412.9	414.4	418.0
58.5°	388.2	389.5	393.3	396.1	396.9	396.1	393.3	389.5	388.2	389.5	393.3
59°	363.3	364.5	368.1	371.9	372.9	371.9	368.1	364.5	363.3	364.5	368.1
59.5°	337.8	339.4	343.4	347.8	348.8	347.8	343.4	339.4	337.8	339.4	343.4
60°	312.4	314.7	318.8	324.1	324.6	324.1	318.8	314.7	312.4	314.7	318.8
60.5°	287.5	289.5	295.1	299.9	300.9	299.9	295.1	289.5	287.5	289.5	295.1
61°	263.0	265.6	271.7	276.3	277.5	276.3	271.7	265.6	263.0	265.6	271.7
61.5°	239.6	241.9	248.5	252.6	254.9	252.6	248.5	241.9	239.6	241.9	248.5
62°	216.5	218.8	225.6	229.7	232.3	229.7	225.6	218.8	216.5	218.8	225.6
62.5°	193.3	196.4	203.5	207.6	210.4	207.6	203.5	196.4	193.3	196.4	203.5
63°	170.7	174.5	181.9	186.2	189.5	186.2	181.9	174.5	170.7	174.5	181.9
63.5°	149.8	153.1	161.0	165.6	168.9	165.6	161.0	153.1	149.8	153.1	161.0
64°	130.0	133.6	140.7	146.0	149.1	146.0	140.7	133.6	130.0	133.6	140.7
64.5°	111.2	114.5	121.3	127.5	130.5	127.5	121.3	114.5	111.2	114.5	121.3
65°	93.1	97.7	103.5	109.4	112.2	109.4	103.5	97.7	93.1	97.7	103.5
65.5°	77.3	81.7	86.7	92.6	95.1	92.6	86.7	81.7	77.3	81.7	86.7
66°	62.3	66.7	71.7	77.3	78.6	77.3	71.7	66.7	62.3	66.7	71.7



TEST NUMBER: P776133

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	24.9	31.8	34.3	39.2	39.4	39.2	34.3	31.8	24.9	31.8	34.3
68°	15.3	22.4	24.9	29.8	29.3	29.8	24.9	22.4	15.3	22.4	24.9
68.5°	6.6	14.5	17.6	21.1	23.4	21.1	17.6	14.5	6.6	14.5	17.6
69°	3.6	8.9	11.4	13.7	18.1	13.7	11.4	8.9	3.6	8.9	11.4
69.5°	2.3	4.3	6.4	8.1	12.5	8.1	6.4	4.3	2.3	4.3	6.4
70°	1.3	2.5	3.1	3.6	6.9	3.6	3.1	2.5	1.3	2.5	3.1
70.5°	0.5	1.3	1.8	1.5	2.0	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: P776133
CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-2500lm-4000K

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: P776133

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1272.2	1272.2	1272.2	1272.2	1272.2	1272.2
0.5°	1272.5	1272.2	1272.5	1272.2	1272.0	1272.0
1°	1272.5	1272.0	1272.5	1272.2	1272.0	1272.0
1.5°	1272.2	1272.0	1272.2	1272.0	1271.7	1271.7
2°	1272.0	1271.7	1272.0	1272.0	1271.5	1271.5
2.5°	1272.0	1271.5	1272.0	1271.7	1271.5	1271.2
3°	1271.5	1271.2	1271.5	1271.5	1271.0	1271.0
3.5°	1271.2	1271.0	1271.2	1271.0	1270.7	1270.4
4°	1271.0	1270.4	1271.0	1270.4	1270.2	1270.2
4.5°	1270.4	1270.2	1270.4	1270.2	1269.9	1269.7
5°	1269.9	1269.7	1269.9	1269.7	1269.4	1269.2
5.5°	1269.4	1269.2	1269.4	1269.2	1268.7	1268.7
6°	1268.9	1268.7	1268.9	1268.4	1268.2	1267.9
6.5°	1268.4	1267.9	1268.4	1267.9	1267.7	1267.4
7°	1267.7	1267.4	1267.7	1267.4	1266.9	1266.6
7.5°	1266.9	1266.6	1266.9	1266.6	1266.1	1265.9
8°	1266.4	1266.1	1266.4	1265.9	1265.4	1265.4
8.5°	1265.4	1265.4	1265.4	1265.1	1264.6	1264.6
9°	1264.9	1264.6	1264.9	1264.3	1263.8	1263.6
9.5°	1264.1	1263.8	1264.1	1263.6	1263.1	1262.8
10°	1263.3	1263.1	1263.3	1262.8	1262.3	1262.1
10.5°	1262.6	1262.3	1262.6	1261.8	1261.5	1261.3
11°	1261.8	1261.5	1261.8	1261.0	1260.5	1260.5
11.5°	1261.0	1260.8	1261.0	1260.3	1259.8	1259.8
12°	1260.3	1260.3	1260.3	1259.5	1259.0	1259.0
12.5°	1259.5	1259.5	1259.5	1259.0	1258.2	1258.2
13°	1258.7	1259.0	1258.7	1258.2	1257.7	1257.5
13.5°	1258.2	1258.2	1258.2	1257.7	1257.0	1256.7
14°	1257.7	1257.7	1257.7	1257.0	1256.5	1256.2
14.5°	1257.2	1257.5	1257.2	1256.5	1255.9	1255.7
15°	1257.0	1257.0	1257.0	1255.9	1255.4	1255.2
15.5°	1256.5	1256.7	1256.5	1255.7	1254.9	1254.7
16°	1256.2	1256.5	1256.2	1255.2	1254.7	1254.4
16.5°	1255.9	1256.2	1255.9	1254.9	1254.4	1254.2
17°	1255.9	1256.2	1255.9	1254.9	1254.2	1253.9
17.5°	1255.9	1256.2	1255.9	1254.7	1254.2	1253.9
18°	1255.9	1256.2	1255.9	1254.7	1253.9	1253.7
18.5°	1255.9	1256.2	1255.9	1254.7	1253.9	1253.7
19°	1256.2	1256.5	1256.2	1254.7	1253.9	1253.9
19.5°	1256.2	1256.7	1256.2	1254.9	1254.2	1253.9
20°	1256.5	1256.7	1256.5	1254.9	1254.2	1253.9
20.5°	1256.5	1257.0	1256.5	1255.2	1254.2	1254.2
21°	1256.7	1257.0	1256.7	1255.2	1254.4	1254.2



TEST NUMBER: P776133

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1256.7	1257.2	1256.7	1255.2	1254.2	1253.9
23°	1256.5	1257.0	1256.5	1254.9	1253.9	1253.7
23.5°	1256.2	1256.7	1256.2	1254.7	1253.7	1253.4
24°	1255.9	1256.5	1255.9	1254.2	1253.2	1253.2
24.5°	1255.4	1255.9	1255.4	1253.7	1252.6	1252.4
25°	1254.9	1255.2	1254.9	1253.2	1251.9	1251.6
25.5°	1254.2	1254.4	1254.2	1252.4	1251.1	1250.9
26°	1253.2	1253.7	1253.2	1251.4	1250.1	1249.8
26.5°	1252.1	1252.4	1252.1	1250.4	1248.8	1248.6
27°	1250.6	1250.9	1250.6	1248.8	1247.6	1247.3
27.5°	1249.1	1249.3	1249.1	1247.3	1246.0	1245.5
28°	1247.3	1247.6	1247.3	1245.5	1244.0	1243.7
28.5°	1245.3	1245.3	1245.3	1243.5	1242.0	1241.7
29°	1242.7	1243.0	1242.7	1241.2	1239.7	1239.2
29.5°	1240.2	1240.2	1240.2	1238.7	1236.9	1236.4
30°	1237.1	1236.9	1237.1	1235.6	1233.8	1233.3
30.5°	1233.8	1233.6	1233.8	1232.3	1230.5	1230.0
31°	1230.0	1229.5	1230.0	1228.7	1226.7	1226.2
31.5°	1225.7	1225.2	1225.7	1224.7	1222.6	1221.9
32°	1221.1	1220.6	1221.1	1220.1	1218.0	1217.0
32.5°	1215.8	1215.2	1215.8	1215.0	1213.0	1211.9
33°	1210.2	1209.4	1210.2	1209.6	1207.4	1206.3
33.5°	1204.1	1203.3	1204.1	1203.5	1201.3	1200.0
34°	1197.4	1196.4	1197.4	1197.2	1194.9	1193.6
34.5°	1190.1	1189.0	1190.1	1190.1	1187.8	1186.2
35°	1182.4	1181.4	1182.4	1182.7	1180.1	1178.9
35.5°	1174.3	1173.3	1174.3	1174.5	1172.0	1170.7
36°	1165.6	1164.4	1165.6	1166.1	1163.6	1162.1
36.5°	1156.5	1155.0	1156.5	1157.0	1154.4	1153.2
37°	1146.8	1145.3	1146.8	1147.1	1144.8	1143.3
37.5°	1136.4	1134.9	1136.4	1137.1	1134.6	1133.3
38°	1125.7	1123.9	1125.7	1126.5	1124.2	1122.6
38.5°	1114.3	1112.7	1114.3	1115.3	1113.0	1111.5
39°	1102.8	1101.0	1102.8	1103.6	1101.5	1100.3
39.5°	1090.6	1088.8	1090.6	1091.4	1089.3	1088.3
40°	1077.9	1076.1	1077.9	1078.6	1076.6	1075.6
40.5°	1064.6	1062.9	1064.6	1065.4	1063.6	1062.9
41°	1051.2	1049.4	1051.2	1051.7	1050.1	1049.4
41.5°	1036.7	1035.4	1036.7	1037.7	1036.2	1035.6
42°	1022.4	1021.1	1022.4	1022.9	1021.9	1021.4
42.5°	1007.4	1006.1	1007.4	1007.9	1006.9	1006.9
43°	991.9	990.6	991.9	992.4	991.6	991.6
43.5°	975.6	974.8	975.6	976.1	975.9	975.9

TEST NUMBER: P776133

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	925.0	924.7	925.0	925.2	925.2	926.0
45.5°	906.9	906.7	906.9	907.2	907.4	908.2
46°	888.6	888.3	888.6	888.6	888.9	889.9
46.5°	869.3	869.0	869.3	869.5	869.8	870.8
47°	848.2	847.6	848.2	848.7	849.4	850.4
47.5°	826.5	826.3	826.5	826.3	827.3	828.3
48°	805.4	805.7	805.4	805.2	804.7	804.9
48.5°	783.8	783.8	783.8	783.5	782.5	782.5
49°	761.7	761.9	761.7	761.4	760.6	760.9
49.5°	740.3	740.5	740.3	739.3	737.7	737.5
50°	718.7	719.4	718.7	717.4	715.4	714.3
50.5°	697.6	698.1	697.6	696.3	694.2	693.0
51°	677.2	677.7	677.2	676.2	674.1	673.4
51.5°	659.1	659.9	659.1	657.4	655.1	654.6
52°	641.6	642.6	641.6	639.3	637.0	636.0
52.5°	625.0	626.6	625.0	622.8	620.2	619.2
53°	609.8	610.8	609.8	607.5	604.7	603.7
53.5°	594.8	595.8	594.8	592.7	590.2	589.2
54°	579.8	580.3	579.8	578.5	576.2	575.4
54.5°	565.0	565.3	565.0	563.5	561.7	560.9
55°	548.5	548.0	548.5	547.5	545.7	544.9
55.5°	530.2	529.9	530.2	529.1	527.1	526.3
56°	510.6	510.3	510.6	509.3	506.8	505.7
56.5°	489.7	489.5	489.7	487.7	485.4	483.9
57°	466.8	467.1	466.8	465.5	462.2	461.0
57.5°	443.7	443.9	443.7	442.1	438.6	437.1
58°	420.3	420.8	420.3	418.0	414.4	412.9
58.5°	396.1	396.9	396.1	393.3	389.5	388.2
59°	371.9	372.9	371.9	368.1	364.5	363.3
59.5°	347.8	348.8	347.8	343.4	339.4	337.8
60°	324.1	324.6	324.1	318.8	314.7	312.4
60.5°	299.9	300.9	299.9	295.1	289.5	287.5
61°	276.3	277.5	276.3	271.7	265.6	263.0
61.5°	252.6	254.9	252.6	248.5	241.9	239.6
62°	229.7	232.3	229.7	225.6	218.8	216.5
62.5°	207.6	210.4	207.6	203.5	196.4	193.3
63°	186.2	189.5	186.2	181.9	174.5	170.7
63.5°	165.6	168.9	165.6	161.0	153.1	149.8
64°	146.0	149.1	146.0	140.7	133.6	130.0
64.5°	127.5	130.5	127.5	121.3	114.5	111.2
65°	109.4	112.2	109.4	103.5	97.7	93.1
65.5°	92.6	95.1	92.6	86.7	81.7	77.3
66°	77.3	78.6	77.3	71.7	66.7	62.3



TEST NUMBER: P776133

CATALOG NUMBER: HCDJBLS1525CSD-HCD81TRH-2500lm-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	39.2	39.4	39.2	34.3	31.8	24.9
68°	29.8	29.3	29.8	24.9	22.4	15.3
68.5°	21.1	23.4	21.1	17.6	14.5	6.6
69°	13.7	18.1	13.7	11.4	8.9	3.6
69.5°	8.1	12.5	8.1	6.4	4.3	2.3
70°	3.6	6.9	3.6	3.1	2.5	1.3
70.5°	1.5	2.0	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: P776133

CATALOG NUMBER: HCDJBL51525CSD-HCD81TRH-2500lm-4000K

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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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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°	1254.2	1254.4	1255.2	1256.7	1257.2	1256.7	1255.2	1254.4	1254.2	1254.4	1255.2
22°	1254.2	1254.2	1255.2	1256.7	1257.2	1256.7	1255.2	1254.2	1254.2	1254.2	1255.2



44°	959.8	959.3	959.6	959.1	958.6	959.1	959.6	959.3	959.8	959.3	959.6
44.5°	943.3	942.5	942.8	942.5	941.8	942.5	942.8	942.5	943.3	942.5	942.8



66.5°	49.9	53.9	57.5	62.8	64.4	62.8	57.5	53.9	49.9	53.9	57.5
67°	37.4	41.7	45.5	50.6	51.1	50.6	45.5	41.7	37.4	41.7	45.5



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°	1256.7	1257.2	1256.7	1255.2	1254.4	1254.2
22°	1256.7	1257.2	1256.7	1255.2	1254.2	1254.2



44°	959.1	958.6	959.1	959.6	959.3	959.8
44.5°	942.5	941.8	942.5	942.8	942.5	943.3

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66.5°	62.8	64.4	62.8	57.5	53.9	49.9
67°	50.6	51.1	50.6	45.5	41.7	37.4

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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)