

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: P776191

Luminaire Tested: HCDJBS1525CSD-HCD8TRMB-2500lm-3000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD8TRMB-2500lm-3000K
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1821.6 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

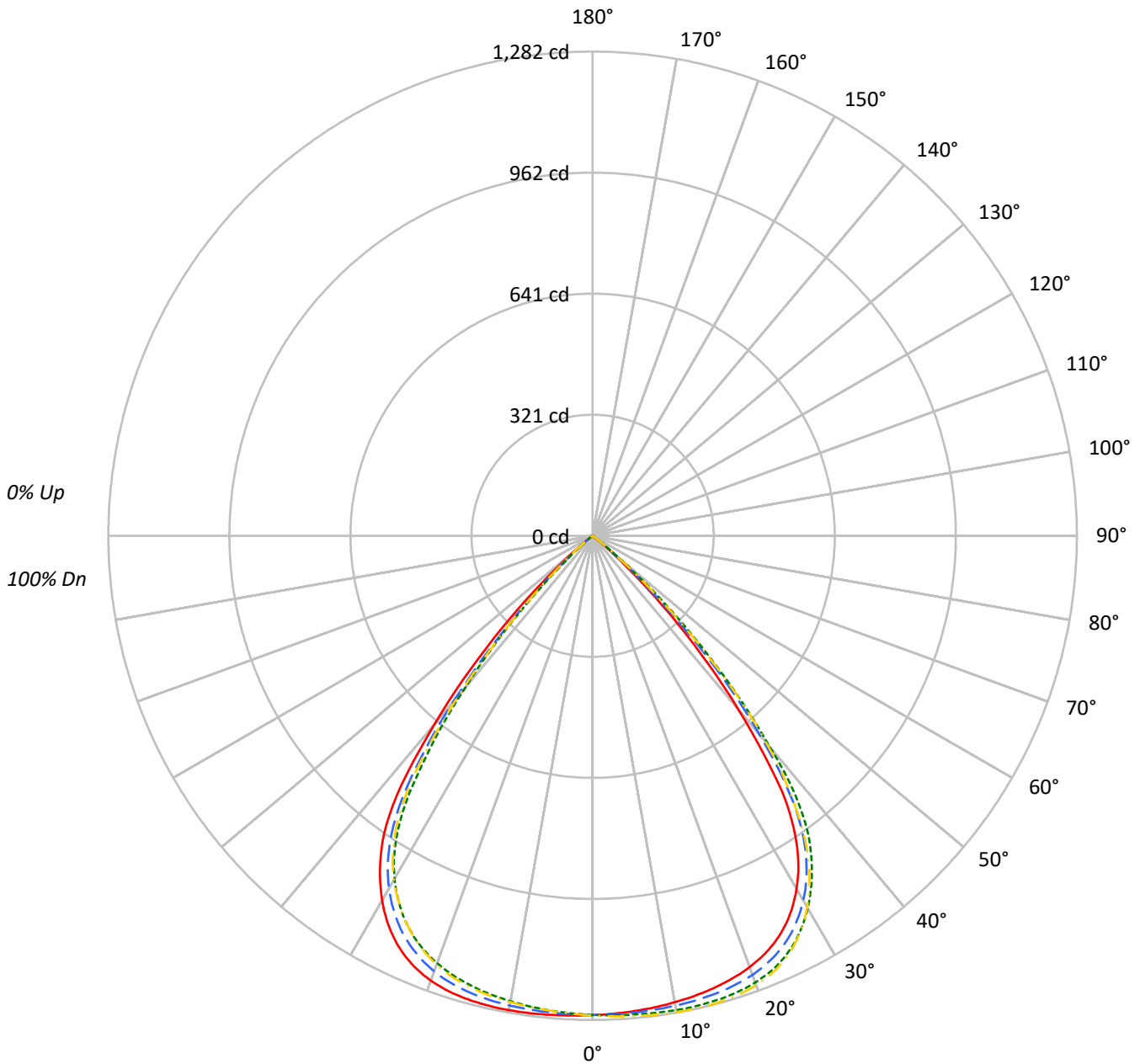
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P776191

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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	111	108	106	103	104	102	100	100	99	97	97	95	94	93					93			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85					85			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78					78			
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60					60			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51					51			
9	71	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	48	47					47			
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	38749	38749	38749	38749
5°	38716	39004	39026	38679
10°	38882	39533	39539	38798
15°	39187	40227	40179	39016
20°	39488	40901	40716	39127
25°	39363	41091	40643	38686
30°	38067	40146	39286	36984
35°	34240	37446	35824	32112
40°	23964	29102	25993	20864
45°	11412	16277	13290	8618
50°	2323	4365	2475	1102
55°	106	160	90	64
60°	31	31	31	31
65°	14	14	14	14
70°	18	18	18	18
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 16277 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	6.6
10°-20°	354.9	19.5
20°-30°	543.6	29.8
30°-40°	565.7	31.1
40°-50°	228.4	12.5
50°-60°	7.8	0.4
60°-70°	0.3	0.0
70°-80°	0.0	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°	1019.5	56.0
0°-40°	1585.1	87.0
0°-60°	1821.3	100.0
0°-90°	1821.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1269	1269	1269	1269	1269	
5°	1263	1273	1273	1262	1263	120
15°	1240	1273	1271	1234	1240	350
25°	1168	1220	1206	1148	1168	536
35°	919	1005	961	862	919	553
45°	264	377	308	200	264	213
55°	2	3	2	1	2	7
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°	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2
0.5°	1268.7	1268.3	1268.7	1269.0	1269.2	1270.5	1271.0	1271.0	1269.7	1269.0	1268.7
1°	1268.3	1268.3	1268.7	1269.2	1269.7	1271.2	1271.7	1271.5	1270.2	1269.2	1268.5
1.5°	1267.8	1267.8	1268.7	1269.5	1270.2	1271.7	1272.4	1272.2	1270.7	1269.2	1268.5
2°	1267.3	1267.5	1268.5	1269.7	1270.7	1272.2	1272.9	1272.7	1271.0	1269.5	1268.5
2.5°	1266.8	1267.0	1268.5	1270.0	1271.0	1272.7	1273.7	1273.2	1271.5	1269.7	1268.3
3°	1266.0	1266.8	1268.3	1270.0	1271.2	1273.4	1274.2	1273.9	1272.0	1270.0	1268.0
3.5°	1265.5	1266.3	1268.3	1270.0	1271.7	1273.7	1274.7	1274.4	1272.4	1270.0	1267.8
4°	1264.8	1265.8	1267.8	1270.2	1272.0	1274.2	1275.4	1274.9	1272.9	1270.0	1267.8
4.5°	1264.1	1265.3	1267.5	1270.2	1272.2	1274.9	1275.9	1275.4	1273.2	1270.2	1267.3
5°	1263.3	1264.8	1267.3	1270.2	1272.7	1275.4	1276.4	1276.2	1273.4	1270.2	1267.0
5.5°	1262.6	1264.1	1267.0	1270.5	1272.9	1275.9	1277.1	1276.6	1273.9	1270.2	1266.8
6°	1261.8	1263.6	1266.8	1270.5	1273.2	1276.4	1277.6	1276.9	1274.2	1270.5	1266.5
6.5°	1261.1	1262.8	1266.3	1270.5	1273.7	1276.9	1278.1	1277.4	1274.4	1270.5	1266.3
7°	1260.3	1262.1	1266.0	1270.5	1273.9	1277.1	1278.6	1277.9	1274.7	1270.2	1265.8
7.5°	1259.4	1261.3	1265.8	1270.7	1274.2	1277.6	1279.1	1278.4	1274.9	1270.2	1265.5
8°	1258.4	1260.6	1265.3	1270.5	1274.4	1278.1	1279.6	1278.6	1275.2	1270.5	1265.0
8.5°	1257.4	1259.6	1264.8	1270.7	1274.7	1278.4	1279.9	1279.1	1275.2	1270.2	1264.5
9°	1256.4	1258.9	1264.3	1270.5	1274.9	1278.6	1280.4	1279.4	1275.4	1270.0	1264.3
9.5°	1255.2	1257.9	1263.8	1270.5	1274.9	1278.9	1280.6	1279.6	1275.4	1270.0	1263.6
10°	1254.2	1256.9	1263.3	1270.2	1275.2	1279.1	1280.8	1279.9	1275.4	1269.7	1263.1
10.5°	1252.9	1255.9	1262.8	1270.2	1275.2	1279.4	1281.1	1279.9	1275.4	1269.5	1262.3
11°	1251.7	1254.9	1262.1	1270.0	1275.2	1279.6	1281.3	1280.1	1275.2	1269.0	1261.6
11.5°	1250.5	1253.7	1261.3	1269.7	1275.2	1279.6	1281.3	1280.1	1275.2	1268.5	1260.8
12°	1249.2	1252.4	1260.8	1269.5	1275.2	1279.6	1281.6	1280.1	1274.9	1268.0	1259.9
12.5°	1247.7	1251.5	1260.1	1269.2	1274.9	1279.6	1281.6	1279.9	1274.4	1267.5	1259.1
13°	1246.3	1250.0	1259.1	1268.7	1274.7	1279.6	1281.3	1279.9	1274.2	1266.8	1257.9
13.5°	1244.8	1248.7	1258.4	1268.3	1274.2	1279.6	1281.1	1279.6	1273.7	1265.8	1256.9
14°	1243.1	1247.5	1257.4	1267.8	1273.7	1279.1	1280.8	1279.4	1272.9	1265.0	1255.4
14.5°	1241.6	1246.0	1256.4	1267.0	1273.4	1278.9	1280.6	1278.9	1272.2	1264.1	1254.2
15°	1239.8	1244.5	1255.2	1266.3	1272.7	1278.4	1280.1	1278.4	1271.2	1262.8	1252.7
15.5°	1237.9	1243.1	1253.9	1265.3	1272.2	1277.9	1279.4	1277.6	1270.2	1261.6	1251.0
16°	1235.9	1241.3	1252.7	1264.3	1271.2	1277.1	1278.6	1276.6	1269.0	1260.1	1249.2
16.5°	1233.9	1239.6	1251.2	1263.3	1270.2	1276.2	1277.9	1275.7	1267.8	1258.4	1247.3
17°	1231.7	1237.6	1249.7	1261.8	1269.2	1275.2	1276.6	1274.2	1266.3	1256.6	1245.0
17.5°	1229.2	1235.6	1248.0	1260.3	1268.0	1273.9	1275.4	1272.9	1264.8	1254.7	1242.6
18°	1226.7	1233.7	1246.0	1258.6	1266.5	1272.4	1274.2	1271.2	1262.8	1252.4	1239.8
18.5°	1224.3	1231.2	1244.3	1256.9	1265.0	1270.7	1272.4	1269.2	1260.8	1250.0	1237.1
19°	1221.3	1229.0	1242.1	1254.9	1263.1	1268.7	1270.7	1267.3	1258.4	1247.3	1234.2
19.5°	1218.4	1226.3	1239.6	1252.4	1261.1	1266.8	1268.7	1264.8	1255.9	1244.3	1230.7
20°	1215.4	1223.5	1237.1	1250.0	1258.9	1264.5	1266.3	1262.3	1253.2	1241.1	1227.0
20.5°	1211.9	1220.6	1234.2	1247.3	1256.4	1261.8	1263.8	1259.4	1250.0	1237.6	1223.0
21°	1208.2	1217.4	1231.2	1244.3	1253.4	1258.9	1260.8	1256.4	1246.8	1233.7	1219.1



TEST NUMBER: P776191

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1195.9	1206.5	1220.3	1233.7	1243.8	1248.2	1250.0	1244.8	1234.4	1220.6	1204.5
23°	1191.2	1202.3	1216.1	1229.5	1239.8	1244.0	1245.8	1240.3	1229.7	1215.4	1199.1
23.5°	1186.0	1197.8	1211.7	1224.8	1235.1	1239.3	1241.1	1235.1	1224.5	1209.7	1193.4
24°	1180.6	1192.9	1206.7	1220.1	1230.9	1234.4	1236.1	1230.0	1219.1	1204.0	1187.2
24.5°	1174.9	1188.0	1201.6	1214.6	1226.0	1229.0	1230.2	1224.3	1212.9	1197.6	1180.6
25°	1168.5	1182.3	1196.1	1209.0	1219.8	1223.3	1224.5	1218.1	1206.5	1190.9	1173.6
25.5°	1162.0	1176.4	1189.9	1203.0	1214.2	1216.9	1217.9	1211.4	1199.6	1183.8	1166.5
26°	1154.9	1169.7	1183.5	1196.6	1208.0	1210.2	1210.9	1204.3	1192.2	1176.1	1158.6
26.5°	1147.5	1163.0	1176.8	1189.7	1201.1	1202.5	1203.3	1196.6	1184.3	1168.0	1150.2
27°	1139.3	1155.4	1169.4	1182.5	1193.2	1194.9	1195.1	1188.5	1175.9	1159.6	1141.5
27.5°	1130.7	1147.7	1161.5	1174.9	1185.7	1186.7	1186.7	1179.8	1167.0	1150.4	1131.9
28°	1121.5	1139.1	1153.1	1166.5	1177.3	1177.6	1177.8	1170.4	1157.6	1140.8	1122.3
28.5°	1111.9	1129.9	1144.5	1158.1	1168.5	1168.2	1168.0	1160.5	1147.5	1130.4	1112.1
29°	1101.5	1120.3	1135.1	1148.9	1159.1	1158.3	1158.1	1150.2	1137.1	1120.0	1101.3
29.5°	1091.1	1110.4	1125.5	1139.3	1149.4	1147.7	1147.2	1139.3	1126.0	1108.9	1089.9
30°	1079.8	1099.5	1115.1	1129.4	1138.8	1136.6	1135.8	1127.9	1114.4	1097.6	1078.0
30.5°	1068.2	1088.2	1104.2	1118.8	1128.2	1125.0	1124.0	1115.8	1102.2	1085.4	1065.7
31°	1055.3	1075.8	1092.9	1107.4	1116.6	1112.4	1111.1	1103.0	1089.6	1072.6	1052.3
31.5°	1042.0	1063.2	1081.0	1095.8	1104.5	1099.8	1098.3	1089.6	1076.6	1059.3	1038.3
32°	1027.9	1049.4	1067.9	1084.0	1092.1	1086.4	1083.7	1075.6	1062.5	1045.4	1023.2
32.5°	1012.8	1034.6	1054.1	1070.9	1079.5	1071.9	1068.7	1060.5	1047.7	1030.9	1006.6
33°	996.3	1019.0	1039.5	1057.5	1065.4	1056.8	1053.1	1044.4	1032.3	1015.3	989.8
33.5°	979.2	1002.0	1023.7	1043.5	1051.4	1041.2	1036.3	1027.9	1016.5	999.0	971.8
34°	960.2	984.7	1007.9	1028.6	1036.5	1024.9	1018.8	1010.1	999.5	981.4	952.5
34.5°	940.2	965.6	990.1	1013.1	1021.0	1007.1	999.7	991.3	981.0	962.2	931.5
35°	918.7	944.9	971.8	996.0	1004.7	988.1	979.2	971.1	961.2	940.7	907.3
35.5°	896.5	922.4	951.6	977.7	986.6	966.9	957.7	949.1	939.5	916.7	881.9
36°	872.0	898.4	930.6	957.7	967.6	945.1	935.0	925.6	915.7	891.5	854.7
36.5°	843.4	872.5	906.8	935.0	946.6	920.7	910.6	901.2	890.0	863.6	824.6
37°	810.5	842.4	880.9	911.5	922.9	896.5	885.8	875.5	862.1	833.5	793.0
37.5°	775.2	808.8	853.0	885.4	898.2	869.5	860.2	849.0	831.0	799.4	758.9
38°	740.1	774.7	823.3	859.4	872.0	841.9	834.2	821.1	796.9	763.1	724.8
38.5°	704.0	741.3	792.0	829.0	843.4	811.7	807.0	792.5	760.9	726.0	689.0
39°	669.5	709.7	759.1	798.9	808.8	781.1	778.4	762.1	724.0	687.2	651.7
39.5°	635.4	677.4	724.5	765.3	769.5	748.0	746.3	730.0	687.2	649.2	613.6
40°	601.3	645.7	689.0	731.2	730.2	713.7	714.7	695.9	652.2	611.6	575.8
40.5°	565.9	610.9	653.6	693.2	692.7	677.4	683.8	661.5	618.1	574.6	535.6
41°	530.1	574.6	618.1	654.6	658.3	641.8	649.7	626.5	583.5	538.5	496.5
41.5°	495.3	537.0	581.5	615.8	624.2	604.7	614.9	589.9	548.4	501.7	458.5
42°	460.2	501.5	545.4	576.3	589.4	570.1	579.0	553.6	512.1	465.4	423.7
42.5°	426.4	466.4	509.1	536.5	554.3	535.3	542.2	517.5	477.0	429.1	386.1
43°	393.8	431.6	472.3	498.8	516.5	500.7	503.9	480.2	440.9	392.5	352.0
43.5°	360.4	397.5	434.5	460.2	479.7	465.4	467.1	444.2	407.1	357.9	317.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	264.3	294.5	321.9	354.2	377.0	359.9	354.5	339.9	307.8	267.0	229.0
45.5°	233.2	261.6	287.3	320.6	343.6	326.1	320.2	305.3	276.4	238.9	200.6
46°	204.8	230.2	254.9	290.0	310.8	293.0	285.1	272.5	246.8	211.0	172.2
46.5°	176.9	200.1	224.3	259.6	277.2	262.8	255.9	242.6	217.1	183.0	144.0
47°	150.4	171.7	195.4	230.5	248.5	232.5	226.8	212.9	187.5	154.9	122.0
47.5°	125.7	144.0	169.2	202.3	219.9	202.1	197.6	183.3	157.9	130.7	102.0
48°	104.0	119.3	144.5	174.6	191.2	171.7	168.5	153.4	132.4	108.4	84.2
48.5°	84.5	97.1	122.3	149.2	162.5	141.3	139.3	128.2	108.9	88.2	68.2
49°	72.6	79.0	102.5	126.0	137.8	115.4	116.6	104.2	87.4	69.9	54.6
49.5°	60.8	66.7	84.0	105.0	113.9	93.4	94.4	83.5	68.7	54.1	42.5
50°	48.9	54.3	71.6	85.7	91.9	74.1	74.1	65.2	52.1	45.0	35.1
50.5°	36.8	42.0	59.5	72.6	71.9	56.8	56.8	48.9	43.0	35.6	27.9
51°	25.2	29.9	47.4	59.8	54.3	46.9	46.7	40.3	33.8	26.4	20.5
51.5°	18.3	22.5	35.3	46.9	45.0	36.8	36.8	31.6	24.7	17.0	13.1
52°	12.6	16.1	23.2	34.1	35.6	26.9	26.7	23.0	15.6	7.7	5.9
52.5°	7.9	10.6	15.8	21.2	25.9	17.0	16.6	14.3	6.7	4.9	4.0
53°	6.7	9.1	9.9	13.6	16.6	7.4	6.7	5.4	4.4	3.7	3.2
53.5°	5.2	7.4	8.2	7.9	7.4	4.7	4.4	4.0	3.5	3.0	2.5
54°	3.7	5.7	6.2	6.4	4.7	3.7	3.5	3.2	2.7	2.2	2.0
54.5°	2.5	4.0	4.4	4.9	3.7	3.0	2.7	2.5	2.0	1.7	1.5
55°	2.0	2.2	2.7	3.7	3.0	2.2	2.2	2.0	1.7	1.5	1.2
55.5°	1.5	1.7	2.0	2.2	2.2	1.7	1.7	1.5	1.2	1.2	1.0
56°	1.2	1.5	1.7	1.7	1.7	1.2	1.2	1.2	1.0	1.0	1.0
56.5°	1.0	1.2	1.2	1.5	1.2	1.0	1.0	1.0	1.0	0.7	0.7
57°	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0	0.7	0.7	0.7
57.5°	0.7	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7
58°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5
58.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5
59°	0.5	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5
59.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
61.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
62.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P776191

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-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	0.0	0.0	0.0	0.0
71.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	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: P776191

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-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: P776191

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2
0.5°	1268.5	1268.3	1269.2	1269.7	1269.7	1268.7
1°	1268.3	1267.8	1268.5	1269.0	1269.0	1268.3
1.5°	1267.8	1267.0	1267.8	1268.3	1268.3	1267.8
2°	1267.3	1266.5	1267.0	1267.5	1267.5	1267.3
2.5°	1267.0	1265.8	1266.5	1266.8	1267.0	1266.8
3°	1266.5	1265.3	1265.8	1266.0	1266.0	1266.0
3.5°	1265.8	1264.5	1264.8	1265.3	1265.3	1265.5
4°	1265.5	1263.8	1264.1	1264.5	1264.5	1264.8
4.5°	1264.8	1262.8	1263.3	1263.8	1263.8	1264.1
5°	1264.3	1262.1	1262.3	1262.8	1263.3	1263.3
5.5°	1263.6	1261.3	1261.6	1262.1	1262.3	1262.6
6°	1263.1	1260.3	1260.6	1261.3	1261.6	1261.8
6.5°	1262.3	1259.4	1259.9	1260.3	1260.8	1261.1
7°	1261.3	1258.4	1258.9	1259.6	1260.1	1260.3
7.5°	1260.6	1257.4	1257.9	1258.6	1259.1	1259.4
8°	1259.9	1256.4	1256.9	1257.9	1258.4	1258.4
8.5°	1258.9	1255.2	1255.7	1256.9	1257.4	1257.4
9°	1257.9	1253.9	1254.7	1255.9	1256.4	1256.4
9.5°	1257.1	1252.7	1253.4	1254.9	1255.4	1255.2
10°	1255.9	1251.5	1252.2	1253.9	1254.4	1254.2
10.5°	1254.9	1250.0	1251.0	1252.7	1253.2	1252.9
11°	1253.7	1248.7	1249.7	1251.7	1252.2	1251.7
11.5°	1252.4	1247.0	1248.2	1250.5	1251.0	1250.5
12°	1251.2	1245.5	1246.8	1249.2	1249.7	1249.2
12.5°	1249.7	1244.0	1245.0	1247.7	1248.5	1247.7
13°	1248.2	1242.3	1243.3	1246.3	1247.0	1246.3
13.5°	1246.5	1240.6	1241.8	1244.8	1245.3	1244.8
14°	1245.0	1238.6	1239.8	1243.1	1243.8	1243.1
14.5°	1243.1	1236.6	1237.9	1241.1	1242.1	1241.6
15°	1241.3	1234.4	1235.9	1239.1	1240.1	1239.8
15.5°	1239.3	1232.2	1233.4	1237.1	1238.1	1237.9
16°	1236.9	1229.7	1231.2	1234.7	1235.9	1235.9
16.5°	1234.7	1227.2	1228.7	1232.2	1233.7	1233.9
17°	1232.2	1224.5	1225.8	1229.5	1231.2	1231.7
17.5°	1229.5	1221.6	1223.0	1226.5	1228.5	1229.2
18°	1226.5	1218.4	1219.8	1223.3	1225.5	1226.7
18.5°	1223.3	1215.4	1216.6	1219.8	1222.3	1224.3
19°	1220.1	1211.9	1213.2	1216.1	1219.1	1221.3
19.5°	1216.6	1208.0	1209.5	1212.2	1215.4	1218.4
20°	1212.7	1204.3	1205.5	1208.0	1211.4	1215.4
20.5°	1208.7	1200.1	1201.3	1203.5	1207.2	1211.9
21°	1204.3	1195.6	1196.9	1198.6	1203.0	1208.2



TEST NUMBER: P776191

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1189.7	1180.6	1181.5	1182.3	1187.7	1195.9
23°	1184.3	1174.9	1175.9	1176.1	1182.0	1191.2
23.5°	1178.1	1168.9	1169.7	1169.9	1175.9	1186.0
24°	1171.9	1162.5	1163.5	1163.3	1169.4	1180.6
24.5°	1165.2	1155.6	1156.6	1156.1	1162.8	1174.9
25°	1158.1	1148.4	1149.4	1148.4	1155.6	1168.5
25.5°	1150.7	1140.8	1141.5	1140.8	1147.9	1162.0
26°	1142.5	1132.9	1133.4	1132.4	1140.3	1154.9
26.5°	1134.1	1124.2	1125.0	1124.0	1131.9	1147.5
27°	1125.2	1114.8	1116.1	1114.8	1123.2	1139.3
27.5°	1115.6	1105.2	1106.7	1105.5	1113.9	1130.7
28°	1105.5	1095.1	1096.8	1095.1	1104.2	1121.5
28.5°	1094.8	1084.2	1086.4	1085.2	1093.8	1111.9
29°	1084.0	1073.1	1075.6	1074.1	1083.2	1101.5
29.5°	1072.4	1061.2	1064.5	1063.2	1072.6	1091.1
30°	1060.0	1049.1	1052.3	1051.4	1061.2	1079.8
30.5°	1046.7	1035.5	1040.2	1039.7	1049.4	1068.2
31°	1032.1	1021.7	1026.9	1026.7	1036.8	1055.3
31.5°	1016.8	1006.2	1012.8	1013.3	1023.2	1042.0
32°	1000.5	990.1	997.3	998.0	1008.4	1027.9
32.5°	982.7	972.3	981.2	982.2	992.6	1012.8
33°	964.7	953.8	963.4	964.9	975.8	996.3
33.5°	944.4	933.8	945.9	947.9	959.0	979.2
34°	923.6	911.5	926.9	929.3	940.7	960.2
34.5°	900.9	887.8	906.4	908.8	920.9	940.2
35°	876.0	861.6	884.1	886.3	899.2	918.7
35.5°	847.8	832.7	858.7	862.1	875.5	896.5
36°	818.2	800.6	830.3	834.7	849.5	872.0
36.5°	784.8	767.0	798.4	804.6	820.1	843.4
37°	751.2	734.4	763.6	771.7	787.5	810.5
37.5°	715.9	702.8	726.0	737.6	752.2	775.2
38°	682.5	670.2	688.0	701.1	716.4	740.1
38.5°	648.2	637.8	651.9	664.5	680.1	704.0
39°	615.1	600.0	617.1	625.5	643.3	669.5
39.5°	581.0	562.0	583.7	588.2	606.0	635.4
40°	545.9	523.5	548.9	550.6	567.7	601.3
40.5°	509.4	490.1	512.6	512.8	531.4	565.9
41°	471.8	457.0	476.8	475.3	496.0	530.1
41.5°	434.0	424.9	441.7	437.7	460.7	495.3
42°	397.7	391.0	407.6	402.4	425.6	460.2
42.5°	361.2	357.0	374.5	368.8	389.8	426.4
43°	325.3	323.4	342.4	336.2	355.7	393.8
43.5°	291.0	290.0	310.5	304.8	322.6	360.4



TEST NUMBER: P776191

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	202.3	199.6	219.6	218.9	233.2	264.3
45.5°	172.7	171.2	191.9	194.2	206.3	233.2
46°	143.0	143.0	166.5	170.9	181.6	204.8
46.5°	120.1	118.1	143.0	149.0	158.6	176.9
47°	100.0	95.1	121.0	128.7	136.9	150.4
47.5°	82.0	82.0	100.8	109.7	117.1	125.7
48°	66.7	69.2	82.8	93.1	99.1	104.0
48.5°	53.1	56.3	70.2	80.3	82.5	84.5
49°	42.0	43.5	57.8	67.7	70.2	72.6
49.5°	34.8	30.6	45.7	55.3	57.8	60.8
50°	27.9	23.2	33.3	42.7	45.2	48.9
50.5°	21.0	17.0	24.7	30.1	33.1	36.8
51°	14.1	11.9	18.0	22.0	24.2	25.2
51.5°	7.2	7.4	12.1	14.8	16.8	18.3
52°	4.7	5.9	7.7	9.1	10.9	12.6
52.5°	3.5	4.7	6.2	7.4	9.1	7.9
53°	3.0	3.7	4.9	5.7	7.4	6.7
53.5°	2.2	2.5	3.7	4.2	5.7	5.2
54°	1.7	2.0	2.5	2.5	4.0	3.7
54.5°	1.5	1.5	2.0	2.0	2.2	2.5
55°	1.2	1.2	1.5	1.5	1.7	2.0
55.5°	1.0	1.0	1.2	1.2	1.5	1.5
56°	1.0	1.0	1.0	1.0	1.2	1.2
56.5°	0.7	0.7	1.0	1.0	1.0	1.0
57°	0.7	0.7	0.7	0.7	0.7	1.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7
58°	0.5	0.5	0.7	0.7	0.7	0.7
58.5°	0.5	0.5	0.5	0.7	0.7	0.7
59°	0.5	0.5	0.5	0.5	0.5	0.5
59.5°	0.5	0.5	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5
60.5°	0.5	0.5	0.5	0.5	0.5	0.5
61°	0.5	0.5	0.5	0.5	0.5	0.5
61.5°	0.5	0.5	0.5	0.5	0.5	0.5
62°	0.2	0.5	0.5	0.5	0.5	0.5
62.5°	0.2	0.2	0.5	0.5	0.5	0.5
63°	0.2	0.2	0.2	0.2	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: P776191

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-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°	0.0	0.2	0.2	0.2	0.2	0.2
72°	0.0	0.0	0.2	0.2	0.2	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0
73°	0.0	0.0	0.0	0.0	0.0	0.0
73.5°	0.0	0.0	0.0	0.0	0.0	0.0
74°	0.0	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	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
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: P776191

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-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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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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21.5°	1204.5	1214.2	1228.0	1241.1	1250.5	1255.7	1257.6	1252.7	1243.1	1229.7	1214.6
22°	1200.3	1210.4	1224.3	1237.4	1247.5	1252.2	1253.9	1249.0	1238.9	1225.3	1210.0



44°	327.6	363.6	396.0	423.9	444.2	430.1	428.1	409.6	373.8	325.3	285.6
44.5°	295.4	329.0	357.9	387.8	409.6	394.8	392.3	374.5	341.1	295.0	257.2



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°	1199.8	1190.9	1192.2	1193.6	1198.1	1204.5
22°	1194.9	1186.0	1187.0	1188.2	1193.2	1200.3



44°	261.4	258.4	279.6	274.0	291.0	327.6
44.5°	232.0	228.7	248.8	245.5	261.4	295.4

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Scaled Data Report



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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Scaled Data Report



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)