

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: P776192

Luminaire Tested: HCDJBS1525CSD-HCD8TRMB-2500lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P776192
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-3500K
Description: 8 INCH ROUND MEDIUM MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1849.5 lumens
Efficiency: N/A
Efficacy: 74.0 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

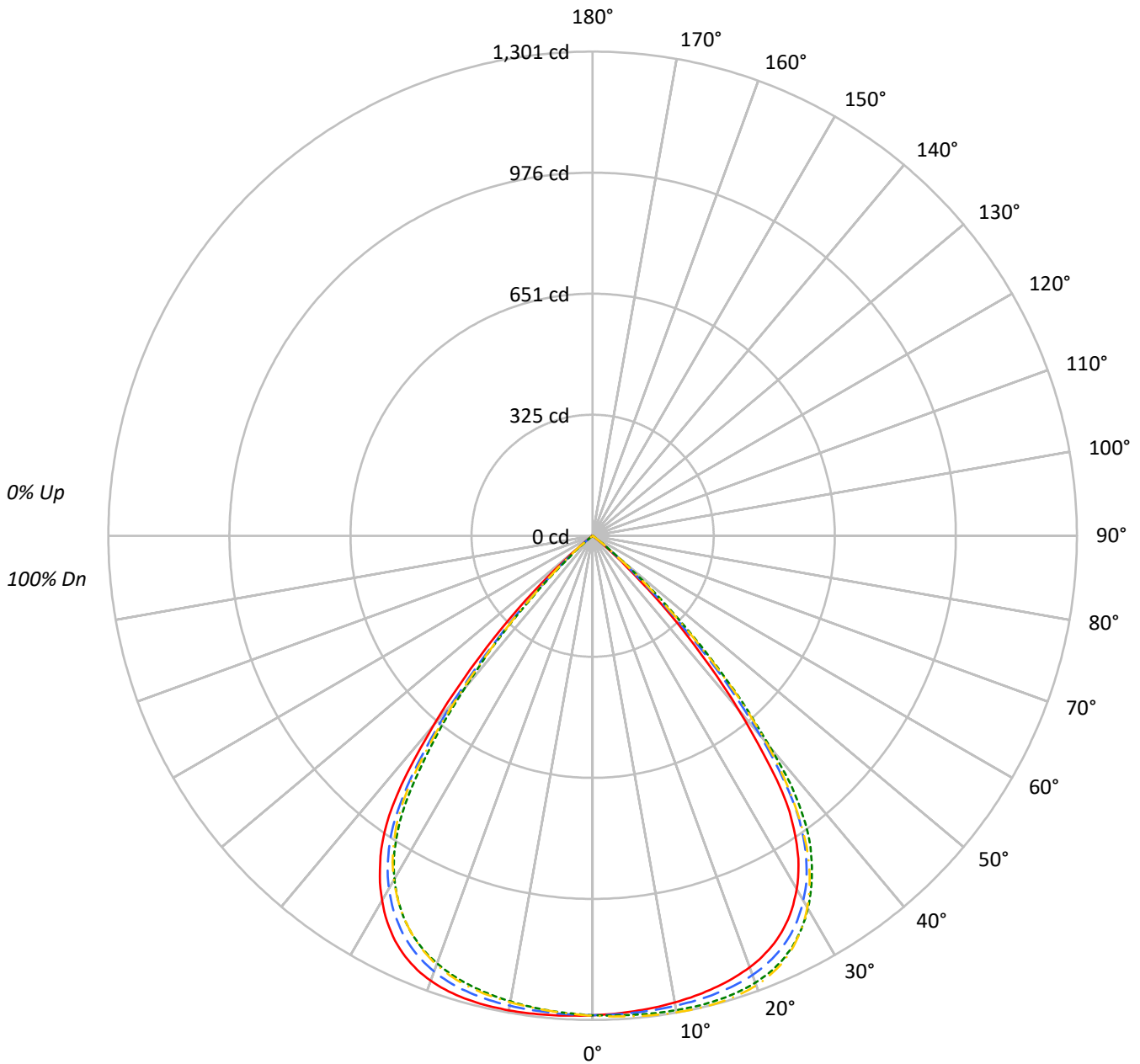
Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
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°	39341	39341	39341	39341
5°	39308	39599	39623	39268
10°	39474	40134	40144	39387
15°	39784	40840	40792	39610
20°	40089	41525	41337	39722
25°	39962	41717	41263	39275
30°	38645	40760	39882	37548
35°	34762	38016	36369	32604
40°	24327	29548	26388	21179
45°	11589	16524	13493	8748
50°	2361	4431	2513	1121
55°	106	160	96	69
60°	31	31	31	31
65°	22	22	22	22
70°	27	27	27	27
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: 16524 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	6.6
10°-20°	360.3	19.5
20°-30°	551.9	29.8
30°-40°	574.3	31.1
40°-50°	231.9	12.5
50°-60°	7.9	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°	1035.0	56.0
0°-40°	1609.3	87.0
0°-60°	1849.1	100.0
0°-90°	1849.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1289	1289	1289	1289	1289	
5°	1283	1292	1293	1281	1283	122
15°	1259	1292	1291	1253	1259	356
25°	1186	1238	1225	1166	1186	544
35°	933	1020	976	875	933	561
45°	268	383	312	203	268	216
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°	1288.6	1288.6	1288.6	1288.6	1288.6	1288.6	1288.6	1288.6	1288.6	1288.6	1288.6
0.5°	1288.1	1287.6	1288.1	1288.3	1288.6	1289.8	1290.3	1290.3	1289.1	1288.3	1288.1
1°	1287.6	1287.6	1288.1	1288.6	1289.1	1290.6	1291.1	1290.8	1289.6	1288.6	1287.8
1.5°	1287.1	1287.1	1288.1	1288.8	1289.6	1291.1	1291.8	1291.6	1290.1	1288.6	1287.8
2°	1286.6	1286.8	1287.8	1289.1	1290.1	1291.6	1292.3	1292.1	1290.3	1288.8	1287.8
2.5°	1286.1	1286.3	1287.8	1289.3	1290.3	1292.1	1293.1	1292.6	1290.8	1289.1	1287.6
3°	1285.3	1286.1	1287.6	1289.3	1290.6	1292.9	1293.6	1293.4	1291.3	1289.3	1287.3
3.5°	1284.8	1285.6	1287.6	1289.3	1291.1	1293.1	1294.1	1293.9	1291.8	1289.3	1287.1
4°	1284.1	1285.1	1287.1	1289.6	1291.3	1293.6	1294.9	1294.4	1292.3	1289.3	1287.1
4.5°	1283.3	1284.6	1286.8	1289.6	1291.6	1294.4	1295.4	1294.9	1292.6	1289.6	1286.6
5°	1282.6	1284.1	1286.6	1289.6	1292.1	1294.9	1295.9	1295.6	1292.9	1289.6	1286.3
5.5°	1281.8	1283.3	1286.3	1289.8	1292.3	1295.4	1296.6	1296.1	1293.4	1289.6	1286.1
6°	1281.1	1282.8	1286.1	1289.8	1292.6	1295.9	1297.1	1296.4	1293.6	1289.8	1285.8
6.5°	1280.3	1282.1	1285.6	1289.8	1293.1	1296.4	1297.6	1296.9	1293.9	1289.8	1285.6
7°	1279.6	1281.3	1285.3	1289.8	1293.4	1296.6	1298.1	1297.4	1294.1	1289.6	1285.1
7.5°	1278.6	1280.6	1285.1	1290.1	1293.6	1297.1	1298.6	1297.9	1294.4	1289.6	1284.8
8°	1277.6	1279.8	1284.6	1289.8	1293.9	1297.6	1299.1	1298.1	1294.6	1289.8	1284.3
8.5°	1276.5	1278.8	1284.1	1290.1	1294.1	1297.9	1299.4	1298.6	1294.6	1289.6	1283.8
9°	1275.5	1278.1	1283.6	1289.8	1294.4	1298.1	1299.9	1298.9	1294.9	1289.3	1283.6
9.5°	1274.3	1277.0	1283.1	1289.8	1294.4	1298.4	1300.1	1299.1	1294.9	1289.3	1282.8
10°	1273.3	1276.0	1282.6	1289.6	1294.6	1298.6	1300.4	1299.4	1294.9	1289.1	1282.3
10.5°	1272.0	1275.0	1282.1	1289.6	1294.6	1298.9	1300.6	1299.4	1294.9	1288.8	1281.6
11°	1270.8	1274.0	1281.3	1289.3	1294.6	1299.1	1300.9	1299.6	1294.6	1288.3	1280.8
11.5°	1269.5	1272.8	1280.6	1289.1	1294.6	1299.1	1300.9	1299.6	1294.6	1287.8	1280.1
12°	1268.3	1271.5	1280.1	1288.8	1294.6	1299.1	1301.1	1299.6	1294.4	1287.3	1279.1
12.5°	1266.8	1270.5	1279.3	1288.6	1294.4	1299.1	1301.1	1299.4	1293.9	1286.8	1278.3
13°	1265.3	1269.0	1278.3	1288.1	1294.1	1299.1	1300.9	1299.4	1293.6	1286.1	1277.0
13.5°	1263.8	1267.8	1277.6	1287.6	1293.6	1299.1	1300.6	1299.1	1293.1	1285.1	1276.0
14°	1262.0	1266.5	1276.5	1287.1	1293.1	1298.6	1300.4	1298.9	1292.3	1284.3	1274.5
14.5°	1260.5	1265.0	1275.5	1286.3	1292.9	1298.4	1300.1	1298.4	1291.6	1283.3	1273.3
15°	1258.7	1263.5	1274.3	1285.6	1292.1	1297.9	1299.6	1297.9	1290.6	1282.1	1271.8
15.5°	1256.7	1262.0	1273.0	1284.6	1291.6	1297.4	1298.9	1297.1	1289.6	1280.8	1270.0
16°	1254.7	1260.2	1271.8	1283.6	1290.6	1296.6	1298.1	1296.1	1288.3	1279.3	1268.3
16.5°	1252.7	1258.5	1270.3	1282.6	1289.6	1295.6	1297.4	1295.1	1287.1	1277.6	1266.3
17°	1250.5	1256.5	1268.8	1281.1	1288.6	1294.6	1296.1	1293.6	1285.6	1275.8	1264.0
17.5°	1248.0	1254.5	1267.0	1279.6	1287.3	1293.4	1294.9	1292.3	1284.1	1273.8	1261.5
18°	1245.4	1252.5	1265.0	1277.8	1285.8	1291.8	1293.6	1290.6	1282.1	1271.5	1258.7
18.5°	1242.9	1250.0	1263.3	1276.0	1284.3	1290.1	1291.8	1288.6	1280.1	1269.0	1256.0
19°	1239.9	1247.7	1261.0	1274.0	1282.3	1288.1	1290.1	1286.6	1277.6	1266.3	1253.0
19.5°	1236.9	1244.9	1258.5	1271.5	1280.3	1286.1	1288.1	1284.1	1275.0	1263.3	1249.5
20°	1233.9	1242.2	1256.0	1269.0	1278.1	1283.8	1285.6	1281.6	1272.3	1260.0	1245.7
20.5°	1230.4	1239.2	1253.0	1266.3	1275.5	1281.1	1283.1	1278.6	1269.0	1256.5	1241.7
21°	1226.6	1235.9	1250.0	1263.3	1272.5	1278.1	1280.1	1275.5	1265.8	1252.5	1237.7



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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°	1214.1	1224.9	1238.9	1252.5	1262.8	1267.3	1269.0	1263.8	1253.2	1239.2	1222.9
23°	1209.3	1220.6	1234.7	1248.2	1258.7	1263.0	1264.8	1259.2	1248.5	1233.9	1217.4
23.5°	1204.1	1216.1	1230.2	1243.4	1254.0	1258.2	1260.0	1254.0	1243.2	1228.1	1211.6
24°	1198.6	1211.1	1225.1	1238.7	1249.7	1253.2	1255.0	1248.7	1237.7	1222.4	1205.3
24.5°	1192.8	1206.1	1219.9	1233.2	1244.7	1247.7	1249.0	1242.9	1231.4	1215.9	1198.6
25°	1186.3	1200.3	1214.4	1227.4	1238.4	1241.9	1243.2	1236.7	1224.9	1209.1	1191.5
25.5°	1179.7	1194.3	1208.1	1221.4	1232.7	1235.4	1236.4	1229.9	1217.9	1201.8	1184.3
26°	1172.5	1187.5	1201.6	1214.9	1226.4	1228.6	1229.4	1222.6	1210.3	1194.0	1176.2
26.5°	1164.9	1180.7	1194.8	1207.8	1219.4	1220.9	1221.6	1214.9	1202.3	1185.8	1167.7
27°	1156.7	1173.0	1187.3	1200.6	1211.3	1213.1	1213.3	1206.6	1193.8	1177.2	1158.9
27.5°	1147.9	1165.2	1179.2	1192.8	1203.8	1204.8	1204.8	1197.8	1184.8	1168.0	1149.1
28°	1138.6	1156.4	1170.7	1184.3	1195.3	1195.5	1195.8	1188.3	1175.2	1158.2	1139.4
28.5°	1128.8	1147.1	1161.9	1175.7	1186.3	1186.0	1185.8	1178.2	1164.9	1147.6	1129.1
29°	1118.3	1137.4	1152.4	1166.4	1176.7	1176.0	1175.7	1167.7	1154.4	1137.1	1118.0
29.5°	1107.8	1127.3	1142.6	1156.7	1167.0	1165.2	1164.7	1156.7	1143.1	1125.8	1106.5
30°	1096.2	1116.3	1132.1	1146.6	1156.2	1153.9	1153.2	1145.1	1131.3	1114.3	1094.5
30.5°	1084.4	1104.8	1121.1	1135.9	1145.4	1142.1	1141.1	1132.8	1119.0	1102.0	1081.9
31°	1071.4	1092.2	1109.5	1124.3	1133.6	1129.3	1128.1	1119.8	1106.3	1089.0	1068.4
31.5°	1057.9	1079.4	1097.5	1112.5	1121.3	1116.5	1115.0	1106.3	1093.0	1075.4	1054.1
32°	1043.6	1065.4	1084.2	1100.5	1108.8	1103.0	1100.2	1092.0	1078.7	1061.4	1038.8
32.5°	1028.3	1050.3	1070.1	1087.2	1096.0	1088.2	1084.9	1076.7	1063.6	1046.6	1022.0
33°	1011.5	1034.5	1055.3	1073.7	1081.7	1072.9	1069.1	1060.4	1048.1	1030.8	1004.9
33.5°	994.2	1017.2	1039.3	1059.4	1067.4	1057.1	1052.1	1043.6	1032.0	1014.2	986.6
34°	974.8	999.7	1023.2	1044.3	1052.3	1040.5	1034.3	1025.5	1014.7	996.4	967.1
34.5°	954.5	980.4	1005.2	1028.5	1036.5	1022.5	1015.0	1006.4	995.9	976.8	945.7
35°	932.7	959.3	986.6	1011.2	1020.0	1003.2	994.2	985.9	975.8	955.0	921.2
35.5°	910.1	936.5	966.1	992.6	1001.7	981.6	972.3	963.6	953.8	930.7	895.3
36°	885.3	912.1	944.7	972.3	982.4	959.5	949.3	939.7	929.7	905.1	867.8
36.5°	856.2	885.8	920.7	949.3	961.0	934.7	924.4	914.9	903.6	876.8	837.2
37°	822.9	855.2	894.3	925.4	937.0	910.1	899.4	888.8	875.3	846.2	805.1
37.5°	787.0	821.1	866.0	898.9	911.9	882.8	873.3	862.0	843.7	811.6	770.4
38°	751.4	786.5	835.9	872.5	885.3	854.7	846.9	833.6	809.1	774.7	735.8
38.5°	714.8	752.6	804.0	841.7	856.2	824.1	819.3	804.6	772.4	737.1	699.5
39°	679.7	720.5	770.7	811.1	821.1	793.0	790.3	773.7	735.1	697.7	661.6
39.5°	645.0	687.7	735.6	777.0	781.2	759.4	757.7	741.1	697.7	659.1	623.0
40°	610.4	655.6	699.5	742.4	741.4	724.5	725.6	706.5	662.1	621.0	584.6
40.5°	574.6	620.2	663.6	703.7	703.2	687.7	694.2	671.6	627.5	583.3	543.7
41°	538.2	583.3	627.5	664.6	668.4	651.6	659.6	636.0	592.4	546.7	504.1
41.5°	502.8	545.2	590.4	625.2	633.8	613.9	624.2	598.9	556.8	509.4	465.5
42°	467.2	509.1	553.8	585.1	598.4	578.8	587.9	562.0	519.9	472.5	430.1
42.5°	432.9	473.5	516.9	544.7	562.8	543.5	550.5	525.4	484.3	435.6	392.0
43°	399.8	438.1	479.5	506.4	524.4	508.4	511.6	487.5	447.7	398.5	357.4
43.5°	365.9	403.5	441.1	467.2	487.0	472.5	474.3	450.9	413.3	363.4	322.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	268.4	298.9	326.8	359.6	382.7	365.4	359.9	345.1	312.5	271.1	232.5
45.5°	236.8	265.6	291.7	325.5	348.9	331.0	325.0	310.0	280.6	242.5	203.6
46°	207.9	233.7	258.8	294.4	315.5	297.4	289.4	276.6	250.5	214.2	174.8
46.5°	179.6	203.1	227.7	263.6	281.4	266.8	259.8	246.3	220.4	185.8	146.2
47°	152.7	174.3	198.4	234.0	252.3	236.0	230.2	216.2	190.4	157.2	123.9
47.5°	127.7	146.2	171.8	205.4	223.2	205.2	200.6	186.1	160.3	132.7	103.6
48°	105.6	121.1	146.7	177.3	194.1	174.3	171.0	155.7	134.4	110.1	85.5
48.5°	85.8	98.6	124.1	151.5	165.0	143.5	141.4	130.2	110.6	89.5	69.2
49°	73.7	80.3	104.1	127.9	139.9	117.1	118.4	105.8	88.8	71.0	55.4
49.5°	61.7	67.7	85.3	106.6	115.6	94.8	95.8	84.8	69.7	54.9	43.1
50°	49.7	55.2	72.7	87.0	93.3	75.2	75.2	66.2	52.9	45.6	35.6
50.5°	37.4	42.6	60.4	73.7	73.0	57.7	57.7	49.7	43.6	36.1	28.3
51°	25.6	30.3	48.2	60.7	55.2	47.7	47.4	40.9	34.4	26.8	20.8
51.5°	18.6	22.8	35.9	47.7	45.6	37.4	37.4	32.1	25.1	17.3	13.3
52°	12.8	16.3	23.6	34.6	36.1	27.3	27.1	23.3	15.8	7.8	6.0
52.5°	8.0	10.8	16.1	21.6	26.3	17.3	16.8	14.5	6.8	5.0	4.0
53°	6.8	9.3	10.0	13.8	16.8	7.5	6.8	5.5	4.5	3.8	3.3
53.5°	5.3	7.5	8.3	8.0	7.5	4.8	4.5	4.0	3.5	3.0	2.5
54°	3.8	5.8	6.3	6.5	4.8	3.8	3.5	3.3	2.8	2.3	2.0
54.5°	2.5	4.0	4.5	5.0	3.8	3.0	2.8	2.5	2.0	1.8	1.5
55°	2.0	2.3	2.8	3.8	3.0	2.3	2.3	2.0	1.8	1.5	1.3
55.5°	1.5	1.8	2.0	2.3	2.3	1.8	1.8	1.5	1.3	1.3	1.0
56°	1.3	1.5	1.8	1.8	1.8	1.3	1.3	1.3	1.0	1.0	1.0
56.5°	1.0	1.3	1.3	1.5	1.3	1.0	1.0	1.0	1.0	0.8	0.8
57°	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	0.8	0.8	0.8
57.5°	0.8	0.8	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
58°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5
58.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5
59°	0.5	0.8	0.8	0.8	0.8	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	0.3	0.3	0.3
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P776192

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
71.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
72°	0.0	0.3	0.3	0.3	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: P776192

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-3500K

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: P776192

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1288.6	1288.6	1288.6	1288.6	1288.6	1288.6
0.5°	1287.8	1287.6	1288.6	1289.1	1289.1	1288.1
1°	1287.6	1287.1	1287.8	1288.3	1288.3	1287.6
1.5°	1287.1	1286.3	1287.1	1287.6	1287.6	1287.1
2°	1286.6	1285.8	1286.3	1286.8	1286.8	1286.6
2.5°	1286.3	1285.1	1285.8	1286.1	1286.3	1286.1
3°	1285.8	1284.6	1285.1	1285.3	1285.3	1285.3
3.5°	1285.1	1283.8	1284.1	1284.6	1284.6	1284.8
4°	1284.8	1283.1	1283.3	1283.8	1283.8	1284.1
4.5°	1284.1	1282.1	1282.6	1283.1	1283.1	1283.3
5°	1283.6	1281.3	1281.6	1282.1	1282.6	1282.6
5.5°	1282.8	1280.6	1280.8	1281.3	1281.6	1281.8
6°	1282.3	1279.6	1279.8	1280.6	1280.8	1281.1
6.5°	1281.6	1278.6	1279.1	1279.6	1280.1	1280.3
7°	1280.6	1277.6	1278.1	1278.8	1279.3	1279.6
7.5°	1279.8	1276.5	1277.0	1277.8	1278.3	1278.6
8°	1279.1	1275.5	1276.0	1277.0	1277.6	1277.6
8.5°	1278.1	1274.3	1274.8	1276.0	1276.5	1276.5
9°	1277.0	1273.0	1273.8	1275.0	1275.5	1275.5
9.5°	1276.3	1271.8	1272.5	1274.0	1274.5	1274.3
10°	1275.0	1270.5	1271.3	1273.0	1273.5	1273.3
10.5°	1274.0	1269.0	1270.0	1271.8	1272.3	1272.0
11°	1272.8	1267.8	1268.8	1270.8	1271.3	1270.8
11.5°	1271.5	1266.0	1267.3	1269.5	1270.0	1269.5
12°	1270.3	1264.5	1265.8	1268.3	1268.8	1268.3
12.5°	1268.8	1263.0	1264.0	1266.8	1267.5	1266.8
13°	1267.3	1261.2	1262.3	1265.3	1266.0	1265.3
13.5°	1265.5	1259.5	1260.7	1263.8	1264.3	1263.8
14°	1264.0	1257.5	1258.7	1262.0	1262.8	1262.0
14.5°	1262.0	1255.5	1256.7	1260.0	1261.0	1260.5
15°	1260.2	1253.2	1254.7	1258.0	1259.0	1258.7
15.5°	1258.2	1251.0	1252.2	1256.0	1257.0	1256.7
16°	1255.7	1248.5	1250.0	1253.5	1254.7	1254.7
16.5°	1253.5	1246.0	1247.5	1251.0	1252.5	1252.7
17°	1251.0	1243.2	1244.4	1248.2	1250.0	1250.5
17.5°	1248.2	1240.2	1241.7	1245.2	1247.2	1248.0
18°	1245.2	1236.9	1238.4	1241.9	1244.2	1245.4
18.5°	1241.9	1233.9	1235.2	1238.4	1240.9	1242.9
19°	1238.7	1230.4	1231.7	1234.7	1237.7	1239.9
19.5°	1235.2	1226.4	1227.9	1230.7	1233.9	1236.9
20°	1231.2	1222.6	1223.9	1226.4	1229.9	1233.9
20.5°	1227.1	1218.4	1219.6	1221.9	1225.6	1230.4
21°	1222.6	1213.8	1215.1	1216.9	1221.4	1226.6

TEST NUMBER: P776192

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1207.8	1198.6	1199.6	1200.3	1205.8	1214.1
23°	1202.3	1192.8	1193.8	1194.0	1200.1	1209.3
23.5°	1196.0	1186.8	1187.5	1187.8	1193.8	1204.1
24°	1189.8	1180.2	1181.2	1181.0	1187.3	1198.6
24.5°	1183.0	1173.2	1174.2	1173.7	1180.5	1192.8
25°	1175.7	1165.9	1167.0	1165.9	1173.2	1186.3
25.5°	1168.2	1158.2	1158.9	1158.2	1165.4	1179.7
26°	1159.9	1150.1	1150.6	1149.6	1157.7	1172.5
26.5°	1151.4	1141.4	1142.1	1141.1	1149.1	1164.9
27°	1142.4	1131.8	1133.1	1131.8	1140.4	1156.7
27.5°	1132.6	1122.1	1123.6	1122.3	1130.8	1147.9
28°	1122.3	1111.8	1113.5	1111.8	1121.1	1138.6
28.5°	1111.5	1100.7	1103.0	1101.7	1110.5	1128.8
29°	1100.5	1089.5	1092.0	1090.5	1099.7	1118.3
29.5°	1088.7	1077.4	1080.7	1079.4	1089.0	1107.8
30°	1076.2	1065.1	1068.4	1067.4	1077.4	1096.2
30.5°	1062.6	1051.3	1056.1	1055.6	1065.4	1084.4
31°	1047.8	1037.3	1042.6	1042.3	1052.6	1071.4
31.5°	1032.3	1021.5	1028.3	1028.8	1038.8	1057.9
32°	1015.7	1005.2	1012.5	1013.2	1023.7	1043.6
32.5°	997.7	987.1	996.2	997.2	1007.7	1028.3
33°	979.4	968.3	978.1	979.6	990.6	1011.5
33.5°	958.8	948.0	960.3	962.3	973.6	994.2
34°	937.7	925.4	941.0	943.5	955.0	974.8
34.5°	914.7	901.4	920.2	922.7	935.0	954.5
35°	889.3	874.8	897.6	899.9	912.9	932.7
35.5°	860.7	845.4	871.8	875.3	888.8	910.1
36°	830.6	812.8	842.9	847.4	862.5	885.3
36.5°	796.8	778.7	810.6	816.8	832.6	856.2
37°	762.7	745.6	775.2	783.5	799.5	822.9
37.5°	726.8	713.5	737.1	748.9	763.7	787.0
38°	692.9	680.4	698.5	711.8	727.3	751.4
38.5°	658.1	647.6	661.8	674.6	690.4	714.8
39°	624.5	609.2	626.5	635.0	653.1	679.7
39.5°	589.9	570.6	592.6	597.1	615.2	645.0
40°	554.3	531.4	557.3	559.0	576.3	610.4
40.5°	517.1	497.6	520.4	520.7	539.5	574.6
41°	479.0	464.0	484.0	482.5	503.6	538.2
41.5°	440.6	431.4	448.4	444.4	467.7	502.8
42°	403.8	397.0	413.8	408.5	432.1	467.2
42.5°	366.7	362.4	380.2	374.4	395.8	432.9
43°	330.3	328.3	347.6	341.3	361.1	399.8
43.5°	295.4	294.4	315.2	309.5	327.5	365.9



TEST NUMBER: P776192

CATALOG NUMBER: HCDJBLS1525CSD-HCD8TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	205.4	202.6	223.0	222.2	236.8	268.4
45.5°	175.3	173.8	194.9	197.1	209.4	236.8
46°	145.2	145.2	169.0	173.6	184.3	207.9
46.5°	121.9	119.9	145.2	151.2	161.0	179.6
47°	101.6	96.6	122.9	130.7	138.9	152.7
47.5°	83.3	83.3	102.3	111.4	118.9	127.7
48°	67.7	70.2	84.0	94.5	100.6	105.6
48.5°	53.9	57.2	71.2	81.5	83.8	85.8
49°	42.6	44.1	58.7	68.7	71.2	73.7
49.5°	35.4	31.1	46.4	56.2	58.7	61.7
50°	28.3	23.6	33.9	43.4	45.9	49.7
50.5°	21.3	17.3	25.1	30.6	33.6	37.4
51°	14.3	12.0	18.3	22.3	24.6	25.6
51.5°	7.3	7.5	12.3	15.0	17.1	18.6
52°	4.8	6.0	7.8	9.3	11.0	12.8
52.5°	3.5	4.8	6.3	7.5	9.3	8.0
53°	3.0	3.8	5.0	5.8	7.5	6.8
53.5°	2.3	2.5	3.8	4.3	5.8	5.3
54°	1.8	2.0	2.5	2.5	4.0	3.8
54.5°	1.5	1.5	2.0	2.0	2.3	2.5
55°	1.3	1.3	1.5	1.5	1.8	2.0
55.5°	1.0	1.0	1.3	1.3	1.5	1.5
56°	1.0	1.0	1.0	1.0	1.3	1.3
56.5°	0.8	0.8	1.0	1.0	1.0	1.0
57°	0.8	0.8	0.8	0.8	0.8	1.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8
58°	0.5	0.5	0.8	0.8	0.8	0.8
58.5°	0.5	0.5	0.5	0.8	0.8	0.8
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°	0.3	0.5	0.5	0.5	0.5	0.5
62.5°	0.3	0.3	0.5	0.5	0.5	0.5
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.3	0.3	0.3	0.3	0.3	0.3
64°	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3
65.5°	0.3	0.3	0.3	0.3	0.3	0.3
66°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P776192

CATALOG NUMBER: HCDJBL1525CSD-HCD8TRMB-2500lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.3	0.3	0.3	0.3	0.3	0.3
68.5°	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.3	0.3	0.3	0.3	0.3	0.3
69.5°	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3
70.5°	0.3	0.3	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.0	0.3	0.3	0.3	0.3	0.3
72°	0.0	0.0	0.3	0.3	0.3	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: P776192

CATALOG NUMBER: HCDJBL51525CSD-HCD8TRMB-2500lm-3500K

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
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Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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Peachtree City, GA 30269

Scaled Data Report



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21.5°	1222.9	1232.7	1246.7	1260.0	1269.5	1274.8	1276.8	1271.8	1262.0	1248.5	1233.2
22°	1218.6	1228.9	1242.9	1256.2	1266.5	1271.3	1273.0	1268.0	1257.7	1243.9	1228.4



44°	332.6	369.2	402.0	430.4	450.9	436.6	434.6	415.8	379.5	330.3	289.9
44.5°	300.0	334.1	363.4	393.7	415.8	400.8	398.3	380.2	346.3	299.4	261.1



66.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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°	1218.1	1209.1	1210.3	1211.8	1216.4	1222.9
22°	1213.1	1204.1	1205.1	1206.3	1211.3	1218.6



44°	265.3	262.3	283.9	278.1	295.4	332.6
44.5°	235.5	232.2	252.6	249.3	265.3	300.0

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66.5°	0.3	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3

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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)